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July 27, 2020

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 Second Quarter of 2020:

- Routine quarterly gauging, headspace monitoring, water quality measurements, and sampling of groundwater was conducted on May 11-14, 2020;
- Monthly flow meter certification submittals to Alexandria Renew Enterprises (AlexRenew); and
- Quarterly submittal of a Self-Monitoring Report (SMR) to AlexRenew.

The system was turned off on September 29, 2019. No measureable LNAPL has been detected since system shutdown. Based on groundwater concentrations measured during the Second Quarter 2020, the system will remain off. Post-remedial monitoring will continue for a minimum of five additional quarters. Gauging of wells will remain on a quarterly basis.

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
GES File (PSID #837631)

GenOn Mid-Atlantic (GenMa)

Annual CAP Implementation Monitoring Report

Potomac River Generating Station

1400 North Royal Street

Alexandria, VA

PC #2013-3154

July 27, 2020

Second Quarter 2020 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 Second Quarter 2020 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 2nd Quarter 2020:

- The biosparge system remained off during the 2nd Quarter 2020;
- The pump and treat (P&T) system remained off during the 2nd Quarter 2020;
- The total phase extraction (TPE) system remained off during the 2nd Quarter 2020;
- Comprehensive gauging of all accessible site groundwater wells on May 11, 2020;
- Down-well water quality measurements recorded on May 11 - 14, 2020 of select site groundwater wells to monitor dissolved oxygen, pH, temperature, oxidation-reduction potential (ORP) and conductivity;
- Quarterly groundwater sampling on May 11 - 14, 2020, 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);
- At the request of a third party, groundwater samples were analyzed for additional parameters during the 2nd Quarter 2020, including volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), and metals;
- Headspace vapor measurements recorded on May 11, 2020 from select site groundwater wells to monitor for the presence of 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 onsite 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 the 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 was connected to an AlexRenew sanitary sewer tie-in location. 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 the 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.

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.

Cycling of the TPE system with shallow and deep recovery wells stopped on September 29, 2019 due to a lack of measureable LNAPL in any Site well, low hydrocarbon recovery by the TPE system, and generally declining TPH concentrations across the Site. Shutting down the TPE

system initiated a minimum two-year post-remedial monitoring period, beginning with the 4th Quarter 2019.

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 2nd Quarter 2020 sampling of Site monitoring and recovery wells. The following site characterization and monitoring activities were conducted during the 2nd Quarter 2020:

- May 11, 2020:
    - Site-wide gauging and headspace vapor monitoring of select groundwater wells.
- May 11-14, 2020:
    - Gauging and groundwater sampling of accessible site groundwater wells in accordance with the Groundwater Monitoring and Sampling Plan. Additional analytes (VOCs, SVOCs, and metals) were requested by a third party and were analyzed in conjunction with the samples collected 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 2nd Quarter 2020, accessible site groundwater wells were gauged during a comprehensive gauging event on May 11, 2020, in accordance with the Groundwater Monitoring and Sampling Plan. Historical and 2nd Quarter 2020 groundwater and LNAPL elevation data are presented in **Table 3** – Historical Groundwater Monitoring and Analytical Data Summary.

Site-wide gauging was conducted on May 11, 2020 in accordance with the tidal cycle of the Potomac River. On May 11, 2020, high tide at the site occurred at 12:02 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 May 11, 2020, measured groundwater depths ranged from 2.00 feet below ground surface (bgs) in MW-105 to 27.52 feet bgs in MW-27.

May 11, 2020 comprehensive gauging event data are presented as **Figure 4** and **Figure 5.** The shallow zone groundwater contour map shows flow is generally to the east towards the Potomac

River. The deep zone groundwater contour map shows flow is generally to the east-northeast towards the Potomac River with mounding observed at RW-05 and RW-25. The calculated hydraulic gradient at the site was approximately 0.06 feet per foot in the shallow zone during the 2nd Quarter 2020 monitoring event and 0.02 feet per foot in the deep zone.

2.1 Headspace Vapor Monitoring

Monitoring well vapor headspace readings were collected at select groundwater wells on May 11, 2020 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 May 11 – 14, 2020, groundwater samples were collected from 24 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/RW-72S, MW/RW-72, MW-106, MW-121, MW-122, MW/RW-123S, RW-1, RW-05S, RW-28S, RW-116S, RW-118S, and RW-119S) and 7 temporary wells (TW-02, TW-03, TW-04, TW-05, TW-06, TW-07, and TW-14). Monitoring/recovery wells MW-108, RW-25S, RW-117S, and temporary well TW-12S could not be sampled due to insufficient water. During the 2nd Quarter 2020 sampling event, wells with sufficient water 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. One well, RW-118S, had under two feet of water and a grab sample was collected. 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. 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 to be removed by Triumvirate Environmental at a later date for treatment and disposal**.** Groundwater samples were collected directly into 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
- At the request of a third party, samples were also analyzed for VOCs, SVOCs, and metals.

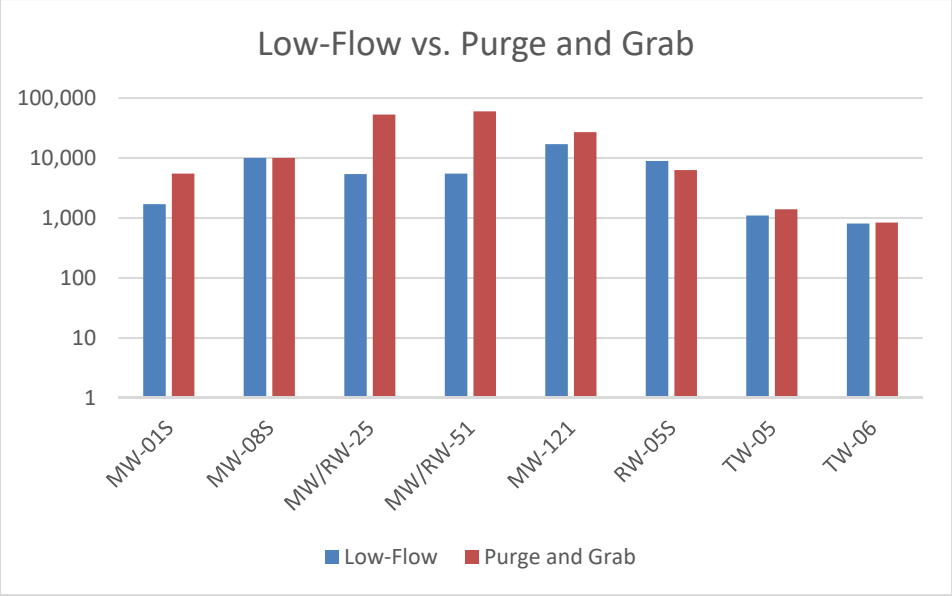
TPH-DRO analytical results are presented in the Historical Groundwater Monitoring and Analytical Data Summary included as **Table 3** and discussed further in **Section 2.3**. **Table 3** also contains results for the additional parameters collected at the request of a third party, if those analytes are contaminants of concern at the site (i.e. VOCs, naphthalene). 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 May 2020 are included in **Attachment C**.

2.3 Groundwater Analytical Findings

During the 2nd Quarter 2020, 31 monitoring, recovery and temporary wells were sampled for TPH-DRO during the quarterly groundwater sampling event in May. 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 2nd Quarter 2020 sampling event, are presented as **Figure 6** and **Figure 7**. The results from the collection and analysis of groundwater samples during the 2nd Quarter 2020 are presented below:

- TPH-DRO was detected in 21 of the 24 groundwater monitoring wells sampled during the quarterly sampling event in May. The maximum detected concentration for samples collected by low-flow sampling was 17,000 micrograms per liter (µg/L) in well MW/RW-10S and MW-121.
- TPH-DRO was detected in five temporary wells sampled (TW-03, TW-04, TW-05, TW-06, and TW-07), with a maximum concentration collected by low-flow sampling of 1,100 µg/L in temporary well TW-05.
- 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 60,000 µg/L, in monitoring well MW/RW-51. Concentrations of TPH-DRO were higher in six of the eight samples collected using the purge and grab method than when sampled using low-flow, as shown in the chart below; however, in some samples the concentration difference was negligible between the two methods. One well, RW-05S, had a higher concentration of TPH-DRO in samples collected using the low-flow sampling method than samples collected using the purge and grab method. In MW-08S, the results were the same between both sampling methods.



- Naphthalene was detected in 3 of the 21 monitoring wells, with a maximum concentration of 14 µg/L in MW/RW-72. Naphthalene was detected in 2 of the 7 temporary wells sampled, with a maximum concentration of 0.6 µg/L.
- Benzene was detected in 7 of the 21 monitoring wells, with a maximum concentration of 7 µg/L. Benzene was detected in 1 of the 7 temporary wells sampled, at a concentration of 0.2 J µg/L.

Concentration trend graphs are presented in **Attachment A**, showing historical and current benzene, naphthalene, and TPH-DRO concentrations, depths to water, and depths to LNAPL for select monitoring, recovery, and temporary wells. 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 2nd Quarter 2020 are presented below:

- TPH-DRO concentrations have an overall increasing trend in wells MW/RW-25, MW/RW-51, MW/RW-72, and RW-118S.
- TPH-DRO concentrations have an overall decreasing trend in wells MW-01S, MW-08S, 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-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-51S, MW/RW-72S, RW-117S, RW-119S, MW-121, MW-122, TW-03, and TW-04.
- In wells that have been sampled for naphthalene enough times to establish a trend, an overall decreasing trend is observed in wells MW-01S, MW/RW-05, MW-08S, MW/RW-10S, MW-25S, MW/RW-25, MW-27, MW/RW-31, MW/RW-72, MW/RW-72S, MW-106, MW-121, MW-122, TW-03, TW-04, TW-05, TW-06, and TW-07. An overall increasing trend is observed in well MW/RW-51.
- In wells that have been sampled for benzene enough times to establish a trend, an overall decreasing trend is observed in wells MW-01S, MW-08S, MW/RW-72S, MW/RW-72, TW-05, and TW-07. Wells MW/RW-05, MW/RW-10S, MW/RW-25, MW-25S, MW-27, MW/RW-31, MW/RW-51, MW-106, MW-121, MW-122, TW-03, TW-04, and TW-06 have a generally stable trend or low or non-detect concentrations. An overall increasing trend is observed in well MW/RW-05.

The low-flow data collected during the 2nd Quarter 2020 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, although the difference between the two concentrations was negligible in some instances.

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 Field Parameters Data Summary is presented as **Table 4,** and a Historical Groundwater Biostimulation Analytical Data Summary is presented as **Table 5.** 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. Cycling of the total phase extraction system between September 2018 and September 2019 showed some increases in aerobic conditions, but not to the degree seen during full time operation of the complete system. The system has been completely shut down since September 2019. 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 2nd Quarter 2020, DO concentrations were considered anaerobic (< 1.0 mg/L) in 11 of the 12 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-28S, RW-116S, and RW-119S) and in 14 of the 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, TW-03, and TW-06).

ORP

- ORP values were positive in 2 of the 12 measured shallow zone aquifer wells (MW/RW-72S and RW-28S) and in 6 of the 18 measured deep zone aquifer wells (MW-16, MW/RW-72, MW-106, TW-03, TW-04, and TW-05) during the quarterly groundwater monitoring event in May. Positive ORP values are indicative of aerobic conditions.A number of wells had increasing ORP values immediately following the system being turned off, although concentrations have begun to decrease in many wells since that time.

Alkalinity

- During the 2nd Quarter 2020, detected concentrations of alkalinity tended to decrease in the shallow zone but a number of increases were measured in the deep zone. Alkalinity was not detected in three of the 23 wells where it was measured (MW/RW-72S, MW/RW-72, and MW-106).

pH

- Measured pH in site wells was generally above 5.0 during the 2nd Quarter 2020, with only three wells having measured pH below 5.0 (MW/RW-72S, MW/RW-72, and MW-106). Maps showing pH levels in the shallow and deep wells, respectively, are provided as **Figure 8** and **Figure 9**.

Nitrate

- Nitrate was not detected in any of the shallow zone aquifer wells or deep zone aquifer wells where it was measured.

Nitrite

- Nitrite, an intermediate in denitrification, was not detected in any of the shallow zone aquifer wells or deep zone aquifer wells where it was measured. Based on the nitrate and nitrite data, nitrate reduction is not currently a mechanism of degradation at the site.

Manganese

- Concentrations of dissolved manganese are generally decreasing in both the shallow zone and deep zone wells, suggesting manganese reduction is not currently a significant mechanism of degradation. There are a few wells that show moderate increases, indicating that manganese reduction could play a limited role in degradation of contaminants at the site.

Ferrous Iron

- Some increases in ferrous iron were observed in both shallow and deep zone wells, although more so in deep zone wells, suggesting that iron reduction is occurring in some parts of both aquifers.

Sulfate

- Sulfate concentrations during the 2nd Quarter 2020 remained generally high in a number of wells in both the shallow and deep zones. Increasing concentrations of sulfate were observed in a subset of both the shallow and deep zone wells, although other wells are beginning to decrease. The decreasing concentrations suggest sulfate reduction is contributing to anaerobic biodegradation in some deep zone aquifer wells at the site. As noted in previous reports, the predominance of sulfur in the system is likely associated with historical power plant operations. **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, increases in methane have been recently measured in wells MW-01S, MW/RW-14, MW/RW-51, and MW-122. Smaller increases have been measured in a number of other wells. Methanogenesis is likely playing a role in anaerobic degradation in some areas of the site, and with the system turned off will likely eventually become a dominant process in the degradation of the remaining hydrocarbons on site.

2.4 Bulkhead Seep Inspection

During the 2nd Quarter 2020 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

No part of the remediation system operated during the 2nd Quarter 2020. The remediation system consists of three separate systems: total phase extraction (TPE), pump and treat (P&T), and biosparge. The TPE system has been shut down since September 29, 2019. 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 2nd Quarter 2020 was from April 1, 2020 to June 30, 2020. Activities of note completed during the 2nd Quarter 2020 included:

- Monthly emails were submitted to Alex Renew for the months of April and May indicating that there was no flow from the system; and
- The Quarterly Self-Monitoring Report (SMR) for the 2nd Quarter 2020 was submitted to AlexRenew by July 10, 2020.

The TPE was not operated during the reporting period. The cumulative groundwater flow, including flow data from before the initial trial system shutdown, is 888,325 gallons. 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**.

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): **0 lbs / 199 lbs**

Vapor-Phase Hydrocarbons (Period/Cumulative): **0 lbs / 3,018 lbs**

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

Total Hydrocarbon Recovery (Period/Cumulative): **0 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 October 29, 2019. In accordance with the requirements of the new permit, SMR submittals will occur quarterly. Monthly flow meter certifications indicating that there was no flow are submitted by the 10th of each month, in months when an SMR is not submitted.

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

4 REMEDIAL STRATEGY EVALUATION & RECOMMENDATIONS

The remediation system was shut down on September 29, 2019. Based on the results from the 3rd Quarter 2019 sampling, it was 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. Some rebound in concentration was expected following system shutdown.

In the 4th Quarter 2019, only one well (MW/RW-10S) exceeded the remedial goal for TPH-DRO when sampled via low-flow sampling methods with a concentration of 26,000 µg/L. Only two wells (MW/RW-25 and MW-121) exceeded the remedial goal for TPH-DRO when sampled using the purge and grab method.

In the 1st Quarter 2020, MW/RW-10S remained the only well over the remedial goal when sampled via low-flow but its concentration had dropped to 18,000 µg/L. Similarly, MW/RW-25 and MW-121 stayed above the remedial goal when sampled by purge and grab, but had decreased.

In the 2nd Quarter 2020, concentrations of TPH-DRO in MW/RW-10S and MW-121 exceeded the remedial goal when sampled via low-flow, both with a concentration of 17,000 µg/L. Both MW/RW-25 and MW-121 were above the remedial goal when sampled by purge and grab. TPH-DRO concentrations in wells located along the Potomac River are all well below the goal of 15 mg/L TPH-DRO.

One well, MW/RW-72, exceeded the cleanup criteria for naphthalene, with a concentration of 14 µg/L, as measured during the 2nd Quarter 2020. This was a slight decrease from the concentration of 17 µg/L in the 4th Quarter 2019. Since this well also exceeded the cleanup criteria for naphthalene in the 4th Quarter 2018, it was recommended that naphthalene be analyzed from this well on a quarterly basis to determine if concentrations remain above 10 µg/L year round. This was not completed during the 1st Quarter 2020, but began in the 2nd Quarter 2020.

Concentrations of all contaminants across the site are generally stable or decreasing, with limited exceptions. Measurable LNAPL has not been observed since August 2018. The lack of significant contaminant concentrations in the TW wells located along the Potomac River indicates that the current monitored natural attenuation remedy is protective of the receptor. It is not recommended at this time to turn the system back on.

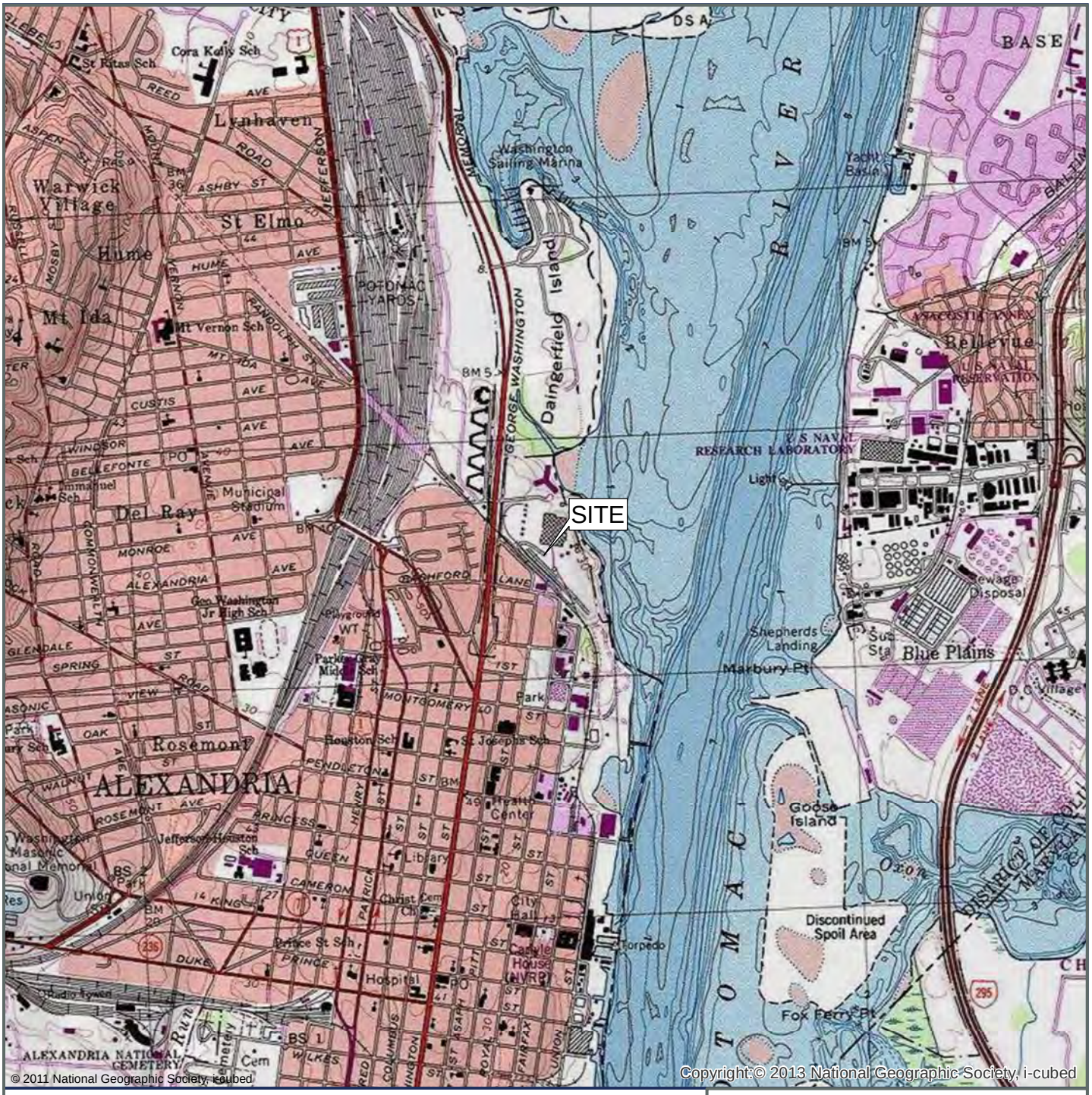
In accordance with the CAP Approval letter dated March 17, 2015, monitored natural attenuation will continue for a minimum of five additional quarters. While in this period of monitored natural

attenuation, the groundwater conditions will continue to be evaluated for indications of significant rebound in the groundwater concentrations or presence of LNAPL.

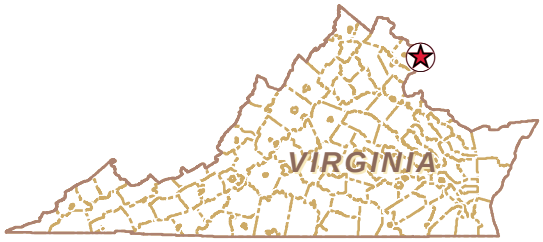
5 FUTURE ACTIVITIES (3rd Quarter 2020)

- 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 (in months when an SMR is not submitted); 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

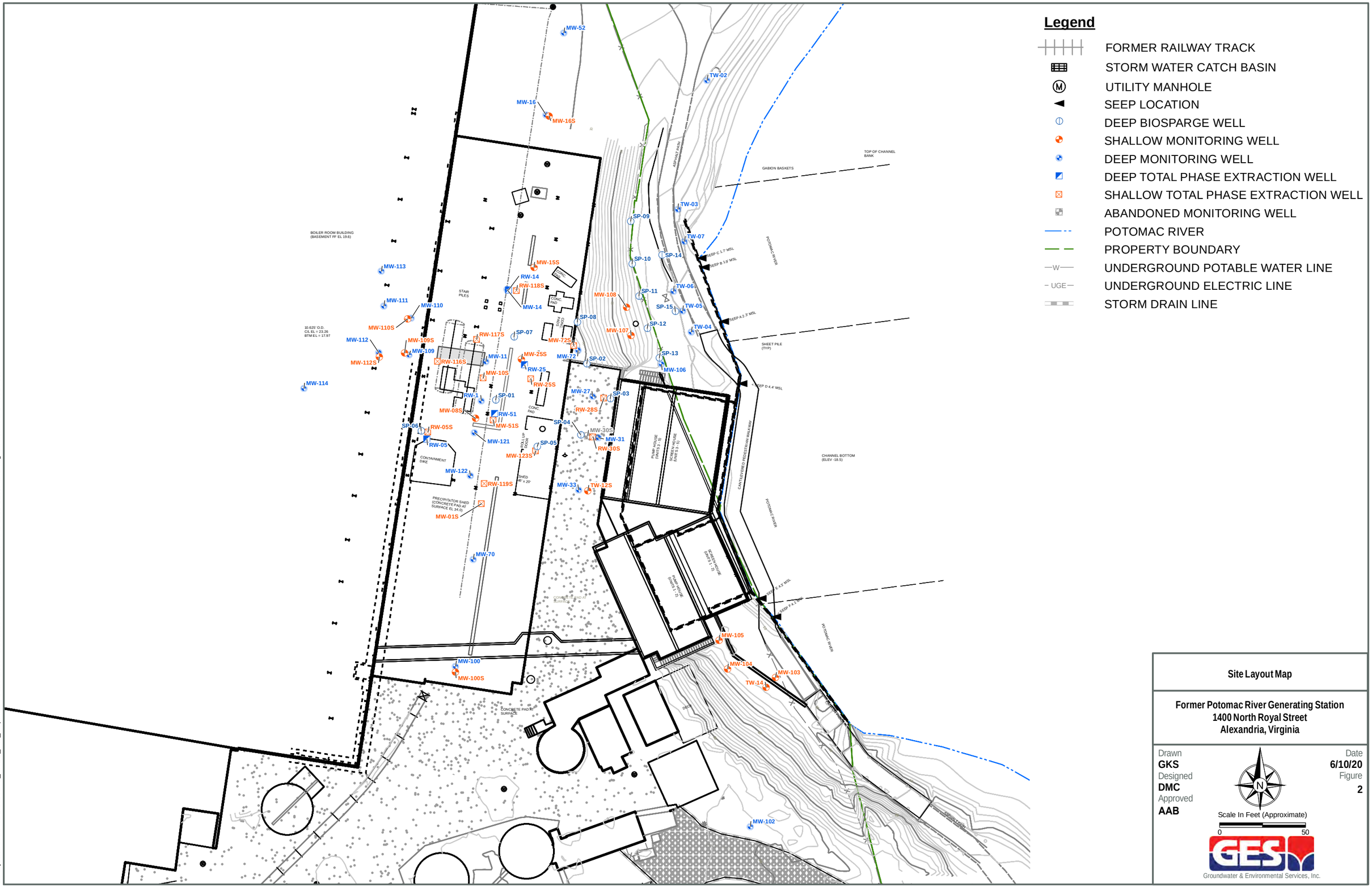
Drawn	Designed	Approved	Date	Figure
GKS	DMC	AAB	4-17-18	1

N
W E
S

Scale In Feet (Approximate)
0 2,000

GES®
Groundwater & Environmental Services, Inc.

L:\Projects\NRG\PRGS\GIS\NRG_PRGS_SLM.mxd - Scale 1:24,000 - 4/17/2018 1:05:05 PM - GStewart - NAD 1983 StatePlane Virginia North FIPS 4501 Feet



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Site Layout Map

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

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

Date **6/10/20**
Figure **2**

Scale In Feet (Approximate)
0 50

Groundwater & Environmental Services, Inc.

L:\Projects\NRG\PRGS\GIS\NRG_PRGS_Site_Map.mxd - Scale 1:360 - 6/10/2020 3:43:43 PM - GStewart - NAD 1983 StatePlane Virginia North FIPS 4501 Feet

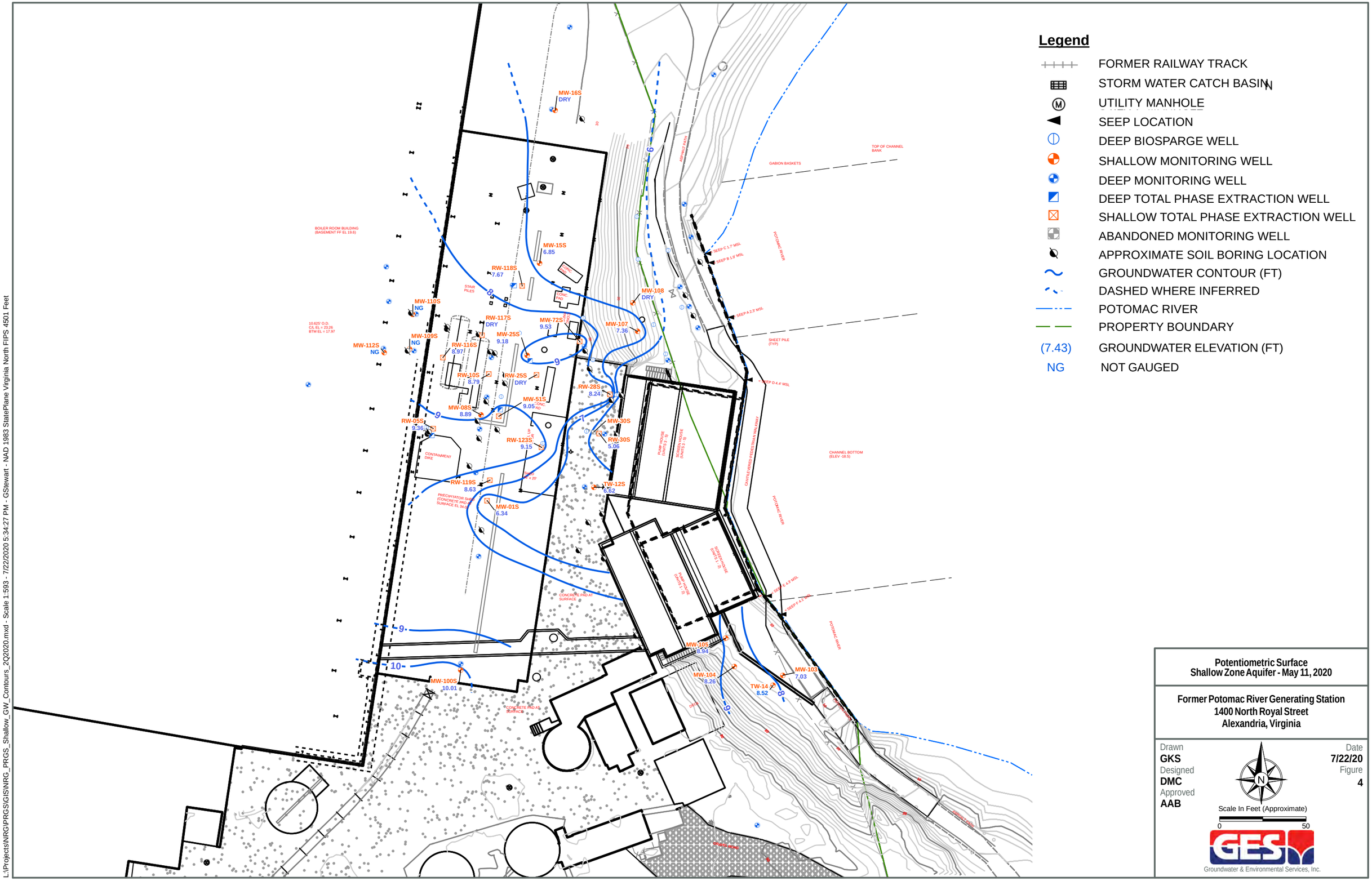
Site Map

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

Drawn	Date
GKS	**6/10/20**
Designed	Figure
DMC	**3**
Approved	
AAB	

Scale In Feet (Approximate)

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
- APPROXIMATE SOIL BORING LOCATION
- GROUNDWATER CONTOUR (FT)
- DASHED WHERE INFERRED
- POTOMAC RIVER
- PROPERTY BOUNDARY
- (7.43) GROUNDWATER ELEVATION (FT)
- NG NOT GAUGED

Potentiometric Surface
Shallow Zone Aquifer - May 11, 2020

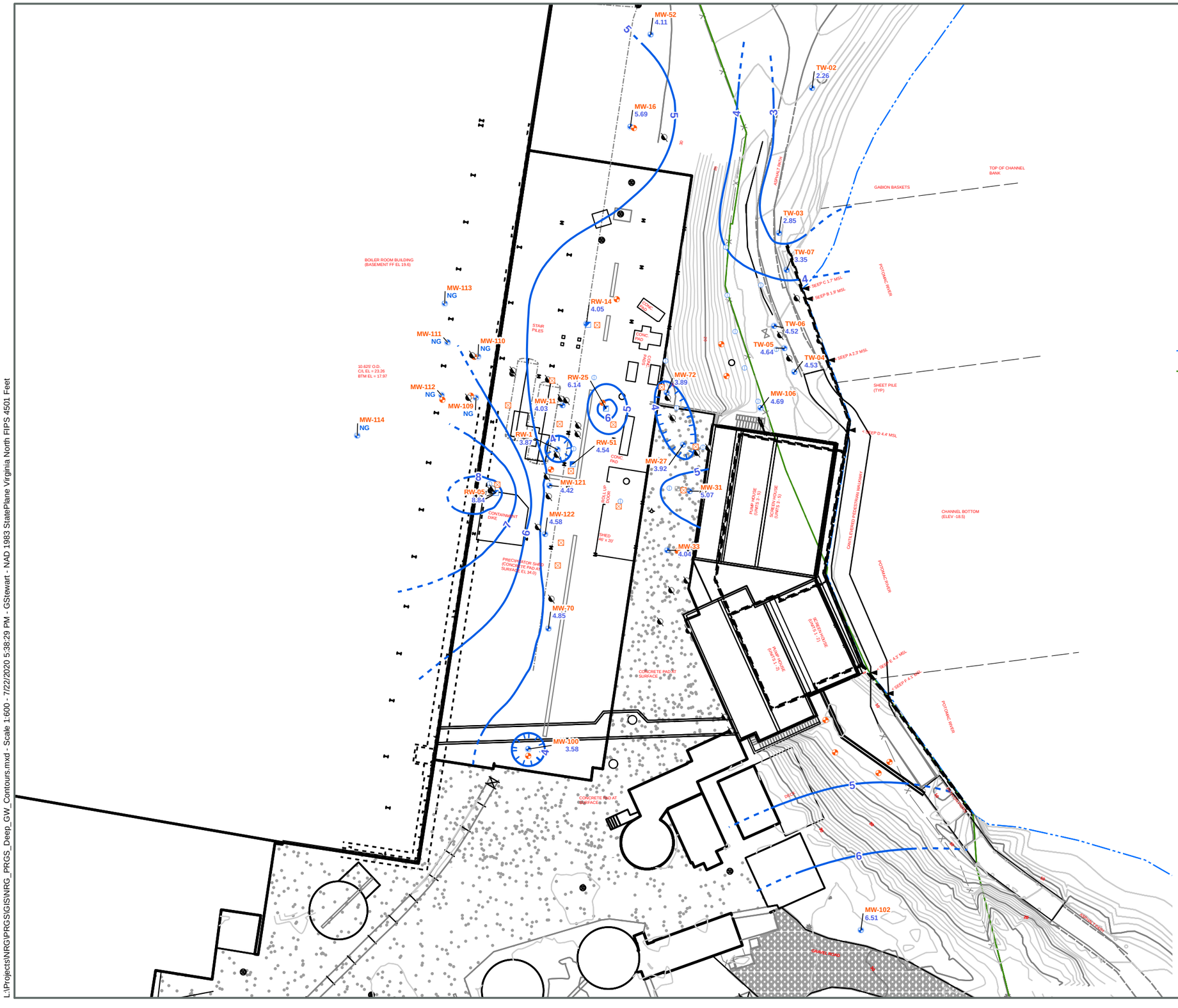
Former Potomac River Generating Station
1400 North Royal Street
Alexandria, Virginia

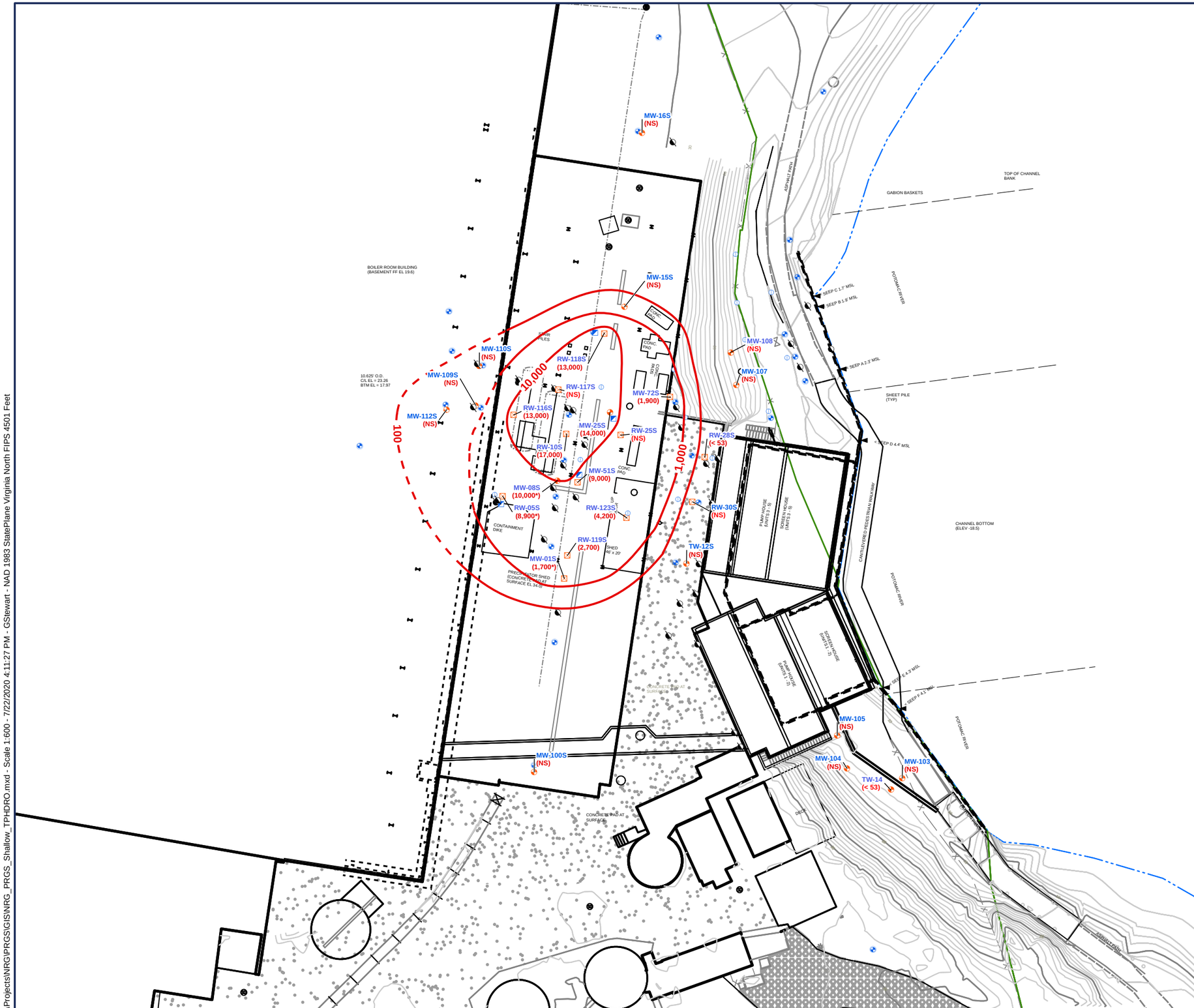
Drawn **GKS**
Designed **DMC**
Approved **AAB**
Date **7/22/20**
Figure **4**

Scale In Feet (Approximate)
0 50

Groundwater & Environmental Services, Inc.

L:\Projects\NRG\PRGS\GIS\NRG_PRGS_Shallow_GW_Contours_2Q2020.mxd - Scale 1:593 - 7/22/2020 5:34:27 PM - GStewart - NAD 1983 StatePlane Virginia North FIPS 4501 Feet


MW-52
4.11
TW-02
2.26
MW-16
5.69
TW-03
2.85
TW-07
3.35
TW-06
4.52
TW-05
4.64
TW-04
4.53
MW-106
4.69
MW-72
3.89
RW-25
6.14
RW-14
4.05
MW-113
NG
MW-111
NG
MW-110
NG
MW-112
NG
MW-109
NG
MW-114
NG
MW-11
4.03
RW-1
3.87
RW-51
4.54
MW-27
3.92
MW-31
5.07
MW-121
4.42
RW-05
8.64
MW-122
4.58
MW-33
4.04
MW-70
4.85
MW-100
3.58
MW-102
6.51
BOILER ROOM BUILDING (BASEMENT FF EL 19.6)
10.625' O.D. C/L EL = 23.26 BTM EL = 17.97
CONTAINMENT DIKE
PRECIPITATOR SHED (CONCRETE PAD AT SURFACE EL 34.0)
CONC PAD
STAIR PILES
ROLL-UP DOOR
PUMP HOUSE (UNITS 1-3)
SCREEN HOUSE (UNITS 3 - 5)
SCREEN HOUSE (UNITS 1 - 2)
PUMP HOUSE (UNITS 1-3)
CONCRETE PAD AT SURFACE
ASPHALT PATH
GABION BASKETS
TOP OF CHANNEL BANK
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 4.3' MSL
SHEET PILE (TYP)
CHANNEL BOTTOM (ELEV -18.5)
CANTILEVERED PEDESTRIAN WALKWAY
DRIVE
POTOMAC RIVER
POTOMAC RIVER
SLOPE
SLOPE
SLOPE



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)
- DASHED WHERE INFERRED
- (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

TPH-DRO Concentration Contours
Shallow Zone Aquifer - Second Quarter 2020

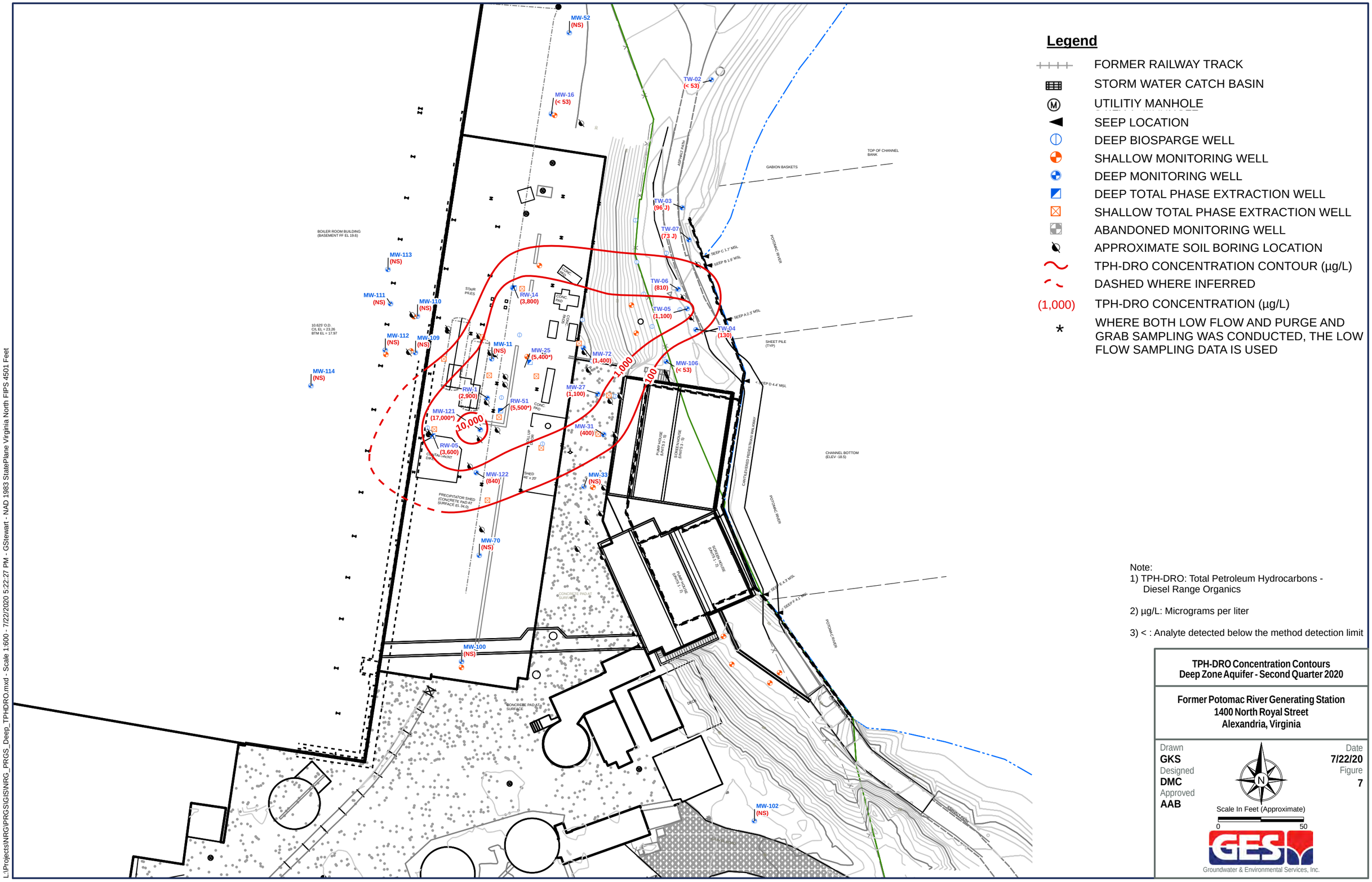
Former Potomac River Generating Station
1400 North Royal Street
Alexandria, Virginia

Drawn **GKS**
Designed **DMC**
Approved **AAB**
Date **7/22/20**
Figure **6**

Scale In Feet (Approximate)
0 50

Groundwater & Environmental Services, Inc.

L:\Projects\NRG\PRGS\GIS\NRG_PRGS_Shallow_TPHDRO.mxd - Scale 1:600 - 7/22/2020 4:11:27 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)
- DASHED WHERE INFERRED
- (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

TPH-DRO Concentration Contours
Deep Zone Aquifer - Second Quarter 2020

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

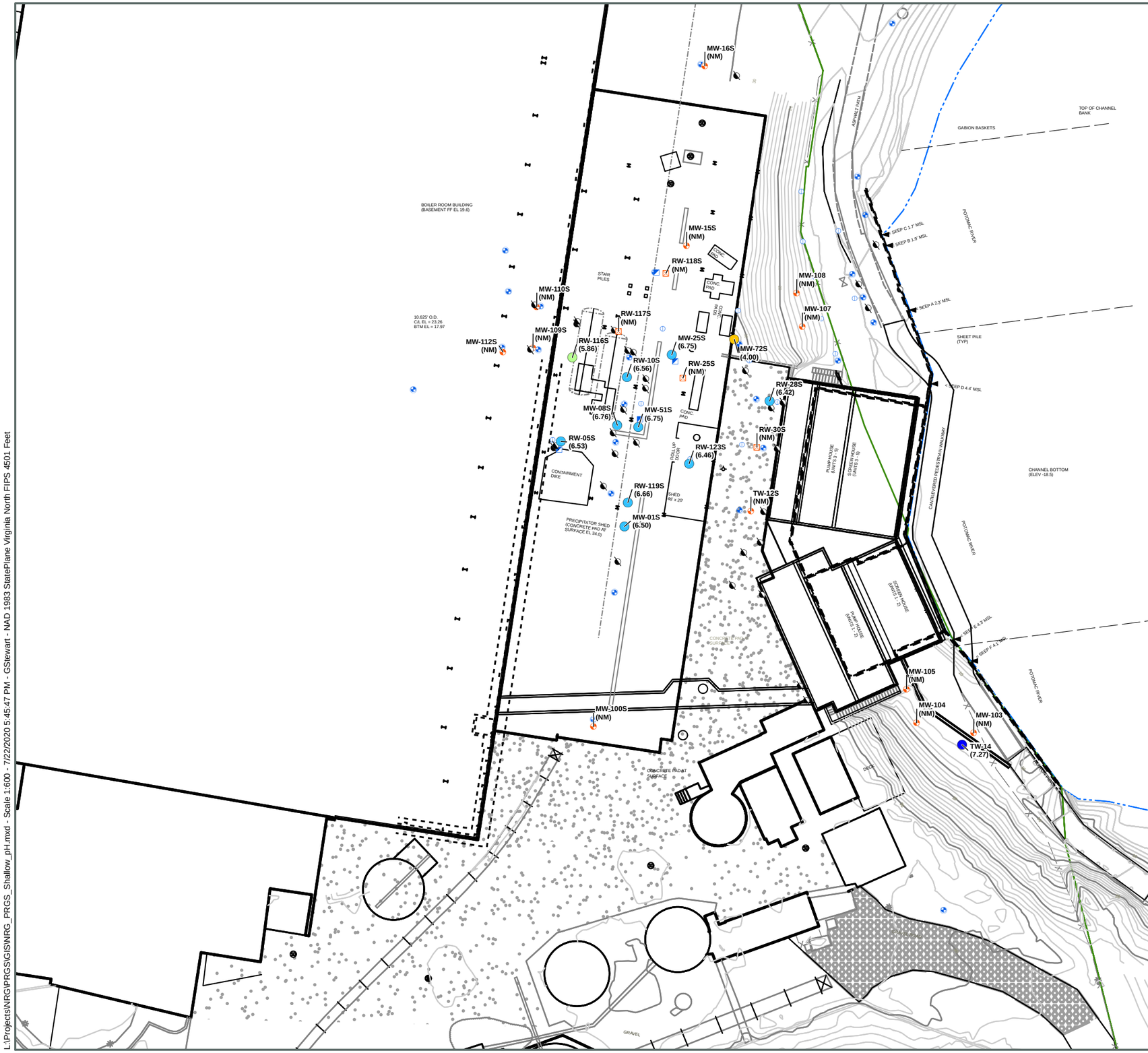
Drawn **GKS**
Designed **DMC**
Approved **AAB**

Date **7/22/20**
Figure **7**

Scale In Feet (Approximate)
0 50

Groundwater & Environmental Services, Inc.

L:\Projects\NRG\PRGS\GIS\NRG_PRGS_Deep_TPHDRO.mxd - Scale 1:600 - 7/22/2020 5:22:27 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
- APPROXIMATE SOIL BORING LOCATION

pH OBSERVATIONS (S.U.)

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

(6.56) pH OBSERVATION (S.U.)

(NM) NOT MEASURED

Note:
S.U.: Standard Units

pH Levels Shallow Zone Aquifer
Second Quarter 2020

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

Drawn **GKS**
Designed **DMC**
Approved **AAB**
Date **7/22/20**
Figure **8**

Scale In Feet (Approximate)
0 50

Groundwater & Environmental Services, Inc.

L:\Projects\NRG\PRGS\GIS\NRG_PRGS_Shallow_pH.mxd - Scale 1:600 - 7/22/2020 5:45:47 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
- APPROXIMATE SOIL BORING LOCATION

pH OBSERVATIONS (S.U.)

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

(6.24) pH OBSERVATION (S.U.)

(NM) NOT MEASURED

Note:
S.U.: Standard Units

pH Levels Deep Zone Aquifer
Second Quarter 2020

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

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

Date **7/22/20**
Figure **9**

Scale In Feet (Approximate)
0 50

Groundwater & Environmental Services, Inc.

L:\Projects\NRG\PRGS\GIS\NRG_PRGS_Deep_pH.mxd - Scale 1:600 - 7/22/2020 5:39:41 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
- (197) SULFATE CONCENTRATION (mg/L)
- (NS) NOT SAMPLED

Note:
mg/L: Milligrams per liter

Sulfate Concentration Shallow Zone Aquifer - Second Quarter 2020

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

Drawn **GKS**
Designed **DMC**
Approved **-**
Date **7/1/20**
Figure **10**

Scale In Feet (Approximate)
0 50

Groundwater & Environmental Services, Inc.

L:\Projects\NRG\PRGS\GIS\NRG_PRGS_Shallow_Sulfate.mxd - Scale 1:600 - 7/1/2020 9:18:08 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
- (210) SULFATE CONCENTRATION (mg/L)
- (NS) NOT SAMPLED

Note:
mg/L: Milligrams per liter

Sulfate Concentration Deep Zone Aquifer - Second Quarter 2020

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

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

Date **7/22/20**
Figure **11**

Scale In Feet (Approximate)
0 50

Groundwater & Environmental Services, Inc.

L:\Projects\NRG\PRGS\GIS\NRG_PRGS_Deep_Sulfate.mxd - Scale 1:600 - 7/22/2020 4:03:34 PM - GStewart - NAD 1983 StatePlane Virginia North FIPS 4501 Feet

Tables

Table 1

WELL CONSTRUCTION TABLE

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

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

Table 1

WELL CONSTRUCTION TABLE

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

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

Table 1

WELL CONSTRUCTION TABLE

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

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

Table 1

WELL CONSTRUCTION TABLE

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

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

Notes:

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

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

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

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

Table 2

GROUNDWATER MONITORING AND SAMPLING PLAN

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

		Field Parameters								Laboratory Parameters									
Well ID	**Aquifer Zone**	**pH**	**Specific Conductance**	**Temperature**	**Oxidation Reduction Potential**	**Dissolved Oxygen**	**Headspace CO2 concentration**	**Headspace VOC concentration**	**Headspace O2**	**TPH-DRO C10-C28 (SW-846 8015B)**	**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	

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-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	

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**
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	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	

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	08/24/2015	30.87	22.69	-	-	-	-	8.18	10:43	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	09/02/2015	30.87	22.90	22.88	0.02	TRACE	26.62	7.99	9:32	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	09/09/2015	30.87	22.96	22.95	0.01	-	26.60	7.92	11:17	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW-01S	09/17/2015	30.87	23.19	23.18	0.01	-	26.62	7.69	10:58	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW-01S	09/23/2015	30.87	23.07	23.06	0.01	TRACE	-	7.81	11:01	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	09/28/2015	30.87	23.10	23.10	TRACE	-	26.10	7.77	10:08	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW-01S	10/05/2015	30.87	23.09	23.09	TRACE	-	26.60	7.78	11:07	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW-01S	11/10/2015	30.87	23.59	-	-	-	-	7.28	13:10	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	12/01/2015	30.87	24.05	24.04	0.01	-	26.57	6.83	12:02	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW-01S	01/27/2016	30.87	23.98	23.98	TRACE	-	-	6.89	9:54	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW-01S	02/15/2016	30.87	23.54	-	-	-	-	7.33	9:40	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	03/14/2016	30.87	23.27	-	-	-	26.60	7.60	11:45	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	03/16/2016	30.87	23.16	-	-	-	26.60	7.71	12:46	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	04/21/2016	30.87	23.48	-	-	-	26.59	7.39	11:05	-	-	-	-	-	-	-	-	-	-	-	56,000	
MW-01S	05/23/2016	30.87	23.69	23.68	0.01	-	-	7.19	12:00	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW-01S	06/21/2016	30.87	22.93	-	-	-	-	7.94	11:17	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	07/21/2016	30.87	22.57	-	-	-	-	8.30	10:40	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	08/24/2016	30.87	22.96	-	-	-	26.67	7.91	11:07	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	08/25/2016	30.87	23.08	-	-	-	26.75	7.79	10:55	-	-	-	-	-	-	-	-	-	-	-	140,000	
MW-01S	11/28/2016	30.87	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	11/29/2016	30.87	25.61	25.48	0.13	0.02	26.58	5.37	11:50	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	12/22/2016	30.87	25.78	25.78	TRACE	TRACE	-	5.09	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	01/30/2017	30.87	23.57	-	-	-	-	7.30	10:40	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	02/21/2017	30.87	23.07	-	-	-	26.50	7.80	10:17	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	02/22/2017	30.87	23.27	-	-	-	-	7.60	9:43	-	-	-	-	-	-	-	-	-	-	-	720,000	Strong odor, oily bailer
MW-01S	03/28/2017	30.87	24.23	-	-	-	26.65	6.64	15:00	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	03/29/2017	32.69	26.13	-	-	-	27.90	6.56	12:50	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	04/18/2017	32.69	27.50	-	-	-	27.89	5.19	11:20	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	05/22/2017	32.69	24.07	-	-	-	24.87	8.62	10:13	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	05/24/2017	32.69	22.22	-	-	-	27.90	10.47	9:03	-	-	-	-	-	-	-	-	-	-	-	72,600	
MW-01S	06/22/2017	32.69	27.90	-	-	-	27.90	4.79	11:30	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	07/19/2017	32.69	27.62	-	-	-	27.87	5.07	11:15	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	08/21/2017	32.69	22.73	-	-	-	27.90	9.96	9:00	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	08/28/2017	32.69	23.12	-	-	-	27.87	9.57	10:43	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes, Total (µg/L)	Methyl tert-butyl ether (µg/L)	tert-Butyl alcohol (µg/L)	1,2-Dibromoethane (µg/L)	1,2-Dichloroethane (µg/L)	Naphthalene (µg/L)	TPH-GRO (µg/L)	TPH-DRO - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
MW-01S	11/02/2017	32.69	23.96	-	-	-	-	8.73	11:30	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	11/28/2017	32.69	23.99	-	-	-	27.90	8.70	13:17	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	11/29/2017	32.69	24.13	-	-	-	-	8.56	9:39	<0.5	<1.0	<1.0	<1.0	-	-	-	-	<5.0	-	3,760	3,760	
MW-01S	12/05/2017	32.69	24.07	-	-	-	-	8.62	10:19	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	12/19/2017	32.69	24.23	-	-	-	-	8.46	10:20	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	01/03/2018	32.69	24.88	-	-	-	-	7.81	10:38	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	01/26/2018	32.69	26.97	-	-	-	-	5.72	11:34	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	02/01/2018	32.69	25.48	-	-	-	-	7.21	10:34	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	02/20/2018	32.69	23.55	-	-	-	27.85	9.14	12:27	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	02/22/2018	32.69	23.66	-	-	-	-	9.03	9:47	-	-	-	-	-	-	-	-	-	-	248	6,230	
MW-01S	03/06/2018	32.69	23.58	-	-	-	-	9.11	11:44	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	03/29/2018	32.69	23.58	-	-	-	-	9.11	10:07	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	04/11/2018	32.69	23.84	-	-	-	-	8.85	11:20	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	04/23/2018	32.69	23.67	-	-	-	-	9.02	9:56	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	05/03/2018	32.69	23.71	-	-	-	-	8.98	9:38	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	05/03/2018	31.04	22.50	-	-	-	-	8.54	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	05/21/2018	31.04	22.26	-	-	-	26.67	8.78	9:39	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	05/24/2018	31.04	22.21	-	-	-	26.64	8.83	8:00	-	-	-	-	-	-	-	-	-	-	-	109,000	
MW-01S	06/12/2018	31.04	21.86	-	-	-	-	9.18	10:12	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	06/26/2018	31.04	21.71	-	-	-	26.49	9.33	9:29	-	-	-	-	-	-	-	-	-	-	69,200 B	96,300	
MW-01S	07/02/2018	31.04	21.71	-	-	-	-	9.33	11:00	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	07/17/2018	31.04	21.80	-	-	-	-	9.24	9:25	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	07/30/2018	31.04	20.31	-	-	-	-	10.73	9:56	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	08/09/2018	31.04	20.90	-	-	-	-	10.14	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	08/13/2018	31.04	20.95	-	-	-	26.63	10.09	11:55	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	08/14/2018	31.04	20.93	-	-	-	26.63	10.11	12:53	-	-	-	-	-	-	-	-	-	-	-	92,000	
MW-01S	09/04/2018	31.04	20.11	-	-	-	-	10.93	9:38	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	09/21/2018	31.04	20.06	-	-	-	26.54	10.98	9:18	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	09/25/2018	31.04	21.58	-	-	-	-	9.46	13:38	-	-	-	-	-	-	-	-	-	-	-	-	See Notes
MW-01S	10/02/2018	31.04	22.24	-	-	-	28.42	8.80	9:35	-	-	-	-	-	-	-	-	-	-	-	-	See Notes
MW-01S	10/25/2018	31.04	27.54	-	-	-	27.58	3.50	9:44	-	-	-	-	-	-	-	-	-	-	-	-	See Notes
MW-01S	11/12/2018	32.40	25.14	-	-	-	35.15	7.26	10:40	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	

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	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-01S	10/01/2019	32.40	24.10	-	-	-	-	8.30	9:25	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	11/18/2019	31.04	23.60	-	-	-	26.44	7.44	11:38	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	11/20/2019	31.04	23.66	-	-	-	-	7.38	13:20	<0.2	<0.2	<0.2	<0.8	-	-	-	-	<4	-	-	4,600	
MW-01S	11/21/2019	31.04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4,100	Grab
MW-01S	12/05/2019	31.04	24.20	-	-	-	-	6.84	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	01/14/2020	31.04	24.37	-	-	-	-	6.67	11:23	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	02/17/2020	31.04	24.45	-	-	-	26.65	6.59	11:36	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	02/18/2020	31.04	24.48	-	-	-	-	6.56	9:20	-	-	-	-	-	-	-	-	-	-	-	2,100	
MW-01S	02/18/2020	31.04	-	-	-	-	-	-	14:45	-	-	-	-	-	-	-	-	-	-	-	5,100	Grab
MW-01S	03/10/2020	31.04	24.79	-	-	-	-	6.25	8:50	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	05/11/2020	31.04	24.70	-	-	-	26.86	6.34	10:28	<0.2	<0.2	<0.2	<0.5	<0.2	-	<0.3	<2	-	-	-	1,700	
MW-01S	05/11/2020	31.04	-	-	-	-	-	-	14:20	-	-	-	-	-	-	-	-	-	-	-	5,500	Grab
MW-08S	07/24/2014	30.86	26.59	-	-	-	-	4.27	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-08S	07/31/2014	30.86	22.08	-	-	-	24.35	8.78	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-08S	08/08/2014	30.86	21.33	-	-	-	24.64	9.53	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-08S	08/11/2014	30.86	21.42	-	-	-	-	9.44	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-08S	08/15/2014	30.86	21.41	-	-	-	-	9.45	-	-	-	-	-	-	-	-	-	-	-	-	7,540	
MW-08S	08/18/2014	30.86	21.46	-	-	-	-	9.40	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-08S	08/25/2014	30.86	21.49	-	-	-	-	9.37	-	-	-	-	-	-	-	-	-	-	-	-	-	

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

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

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	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-08S	11/18/2019	30.86	21.90	-	-	-	24.67	8.96	10:31	-	-	-	-	-	-	-	-	-	-	-	-	
MW-08S	11/21/2019	30.86	21.94	-	-	-	24.66	8.92	21:29	5 J	<2	<2	<8	-	-	-	-	<40	-	-	9,100	
MW-08S	11/22/2019	30.86	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9,900	Grab
MW-08S	02/17/2020	30.86	22.16	-	-	-	-	8.70	9:27	-	-	-	-	-	-	-	-	-	-	-	10,000	
MW-08S	02/17/2020	30.86	-	-	-	-	-	-	14:30	-	-	-	-	-	-	-	-	-	-	-	11,000	Grab
MW-08S	05/11/2020	30.86	21.97	-	-	-	-	8.89	10:12	7	0.3 J	<0.2	<0.5	<0.2	-	<0.3	<2	-	-	-	10,000	
MW-08S	05/11/2020	30.86	-	-	-	-	-	-	14:00	-	-	-	-	-	-	-	-	-	-	-	10,000	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	-	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	-	

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	11/21/2014	31.24	22.38	-	-	-	-	8.86	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	11/26/2014	31.24	22.35	-	-	-	-	8.89	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	12/05/2014	31.24	22.40	22.38	0.02	TRACE	-	8.86	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	12/11/2014	31.24	22.33	22.33	TRACE	-	-	8.91	-	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-10S	12/16/2014	31.24	22.36	22.36	TRACE	-	-	8.88	-	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-10S	12/23/2014	31.24	22.37	-	-	-	-	8.87	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	12/30/2014	31.24	22.42	22.42	TRACE	-	-	8.82	-	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-10S	01/09/2015	31.24	22.44	22.43	0.01	TRACE	-	8.81	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	01/16/2015	31.24	22.41	22.40	0.01	TRACE	-	8.84	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	01/19/2015	31.24	22.43	22.42	0.01	TRACE	-	8.82	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	01/26/2015	31.24	22.23	22.22	0.01	TRACE	-	9.02	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	02/03/2015	31.24	22.50	-	-	-	26.11	8.74	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	02/09/2015	31.24	22.43	22.42	0.01	-	-	8.82	-	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-10S	02/18/2015	31.24	22.44	22.43	0.01	-	-	8.81	-	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-10S	02/24/2015	31.24	22.50	22.49	0.01	-	26.11	8.75	15:44	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-10S	03/04/2015	31.24	22.50	22.48	0.02	-	-	8.76	14:28	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-10S	03/11/2015	31.24	22.51	22.48	0.03	-	-	8.76	12:54	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-10S	03/18/2015	31.24	22.56	22.52	0.04	-	-	8.72	11:23	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-10S	03/26/2015	31.24	22.53	22.50	0.03	-	26.10	8.74	11:27	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-10S	04/02/2015	31.24	22.55	22.51	0.04	-	26.05	8.73	11:52	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-10S	04/08/2015	31.24	22.53	22.52	0.01	-	26.10	8.72	9:05	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-10S	04/13/2015	31.24	22.56	22.53	0.03	-	-	8.71	10:59	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-10S	04/23/2015	31.24	22.53	22.51	0.02	-	26.05	8.73	12:22	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-10S	04/29/2015	31.24	23.53	23.50	0.03	-	26.00	7.74	14:43	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-10S	05/04/2015	31.24	22.57	22.54	0.03	-	-	8.70	11:59	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-10S	05/11/2015	31.24	22.86	22.84	0.02	-	26.10	8.40	10:00	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-10S	05/21/2015	31.24	22.59	22.56	0.03	-	-	8.68	12:46	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-10S	05/28/2015	31.24	22.60	22.56	0.04	-	26.00	8.68	12:01	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-10S	06/02/2015	31.24	22.60	22.56	0.04	-	-	8.68	13:20	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-10S	06/09/2015	31.24	22.54	22.53	0.01	-	-	8.71	10:40	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-10S	06/19/2015	31.24	22.54	22.53	0.01	-	-	8.71	11:34	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
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	-	-	-	-	-	-	-	-	-	-	-	-	

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	08/18/2015	31.24	21.76	21.59	0.17	0.02	-	9.63	10:40	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	08/24/2015	31.24	21.80	21.68	0.12	0.01	-	9.55	10:50	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	09/02/2015	31.24	21.95	21.81	0.14	0.01	26.10	9.41	10:00	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	09/09/2015	31.24	22.05	21.91	0.14	0.02	26.11	9.31	11:08	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	09/17/2015	31.24	22.10	22.00	0.10	TRACE	-	9.23	10:35	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	09/23/2015	31.24	22.06	22.02	0.04	TRACE	-	9.22	11:10	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	09/28/2015	31.24	22.14	22.07	0.07	TRACE	26.10	9.16	10:00	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	10/05/2015	31.24	22.12	-	-	-	26.10	9.12	9:26	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	11/10/2015	31.24	24.00	24.00	TRACE	-	-	7.24	13:25	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-10S	12/01/2015	33.02	24.10	-	-	-	27.85	8.92	10:53	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	01/27/2016	33.02	24.18	24.18	TRACE	-	-	8.84	10:52	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-10S	02/15/2016	33.02	24.37	24.36	0.01	-	-	8.66	10:35	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-10S	03/14/2016	33.02	24.07	-	-	-	27.87	8.95	12:50	-	-	-	-	-	-	-	-	-	-	-	29,000	
MW/RW-10S	04/21/2016	33.02	25.99	25.95	0.04	-	-	7.07	11:27	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-10S	05/23/2016	33.02	25.55	-	-	-	27.90	7.47	11:40	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	05/24/2016	33.02	25.57	-	-	-	27.89	7.45	10:00	-	-	-	-	-	-	-	-	-	-	-	270,000	
MW/RW-10S	06/21/2016	33.02	25.62	-	-	-	-	7.40	10:40	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	07/21/2016	33.02	25.57	-	-	-	-	7.45	10:15	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	08/24/2016	33.02	25.61	-	-	-	27.80	7.41	11:11	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	08/25/2016	33.02	24.97	-	-	-	-	8.05	11:55	-	-	-	-	-	-	-	-	-	-	-	25,000	
MW/RW-10S	09/22/2016	33.02	25.68	-	-	-	27.89	7.34	12:24	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	10/20/2016	33.02	25.68	-	-	-	-	7.34	11:55	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	11/28/2016	33.02	25.68	-	-	-	-	7.34	9:56	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	11/29/2016	33.02	25.71	-	-	-	27.95	7.31	-	<3	<3	<3	<3	-	-	-	-	<5	-	-	240,000	
MW/RW-10S	12/22/2016	33.02	25.66	-	-	-	27.72	7.36	10:18	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	01/30/2017	33.02	25.61	-	-	-	27.97	7.41	10:34	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	02/21/2017	33.02	25.55	-	-	-	26.94	7.47	10:09	-	-	-	-	-	-	-	-	-	-	-	1,200,000	
MW/RW-10S	03/29/2017	32.11	25.55	-	-	-	26.97	6.56	12:05	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	04/18/2017	32.11	25.77	-	-	-	27.10	6.34	11:10	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	

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	11/02/2017	32.11	23.20	-	-	-	-	8.91	11:18	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	11/28/2017	32.11	23.19	-	-	-	26.98	8.92	14:00	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	11/30/2017	32.11	23.12	-	-	-	26.38	8.99	9:21	<0.50	<1.0	<1.0	<1.0	-	-	-	-	<5.0	-	48,400	48,900	
MW/RW-10S	12/05/2017	32.11	23.20	-	-	-	-	8.91	10:08	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	12/19/2017	32.11	23.24	-	-	-	-	8.87	9:50	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	01/03/2018	32.11	23.25	-	-	-	-	8.86	12:04	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	01/26/2018	32.11	23.33	-	-	-	-	8.78	11:12	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	02/01/2018	32.11	23.27	-	-	-	-	8.84	10:23	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	02/20/2018	32.11	DRY	-	-	-	-	-	12:09	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	02/21/2018	32.11	23.22	-	-	-	26.98	8.89	10:44	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	02/22/2018	32.11	23.25	-	-	-	27.96	8.86	12:32	-	-	-	-	-	-	-	-	-	-	9,350	62,100	
MW/RW-10S	03/06/2018	32.11	23.15	-	-	-	-	8.96	11:24	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	03/29/2018	32.11	23.15	-	-	-	-	8.96	9:21	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	04/11/2018	32.11	23.17	-	-	-	-	8.94	8:56	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	04/23/2018	32.11	23.13	-	-	-	-	8.98	9:35	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	05/03/2018	32.11	23.12	-	-	-	-	8.99	9:32	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	05/03/2018	31.24	22.25	-	-	-	-	8.99	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	05/21/2018	31.24	22.26	-	-	-	26.10	8.98	10:08	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	05/24/2018	31.24	22.21	-	-	-	26.15	9.03	8:12	-	-	-	-	-	-	-	-	-	-	-	520,000	
MW/RW-10S	06/12/2018	31.24	22.20	-	-	-	-	9.04	10:22	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	06/26/2018	31.24	22.05	-	-	-	26.10	9.19	9:49	-	-	-	-	-	-	-	-	-	-	28,100 B	103,000	
MW/RW-10S	07/02/2018	31.24	22.07	-	-	-	-	9.17	10:40	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	07/17/2018	31.24	22.06	-	-	-	-	9.18	9:53	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	07/30/2018	31.24	21.51	-	-	-	-	9.73	10:28	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	08/09/2018	31.24	21.44	-	-	-	-	9.80	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	08/13/2018	31.24	21.37	-	-	-	26.03	9.87	11:51	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	08/14/2018	31.24	21.33	-	-	-	27.95	9.91	10:35	-	-	-	-	-	-	-	-	-	-	-	77,000	
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	-	-	-	-	-	-	-	-	-	-	-	-	

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	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	-	-	-	-	-	-	-	-	-	-	-	-	
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/RW-10S	10/01/2019	32.82	25.28	-	-	-	-	7.54	10:12	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	11/18/2019	31.24	22.35	-	-	-	26.11	8.89	11:15	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	11/21/2019	31.24	22.38	-	-	-	26.09	8.86	11:05	<2	<2	<2	<8	-	-	-	-	<40	-	-	26,000	
MW/RW-10S	12/05/2019	31.24	22.38	-	-	-	-	8.86	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	01/14/2020	31.24	22.47	-	-	-	-	8.77	11:40	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	02/17/2020	31.24	22.52	-	-	-	26.17	8.72	12:02	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	02/19/2020	31.24	22.58	-	-	-	-	8.66	14:36	-	-	-	-	-	-	-	-	-	-	-	18,000	
MW/RW-10S	03/10/2020	31.24	22.53	-	-	-	-	8.71	9:32	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	05/11/2020	31.24	22.45	-	-	-	26.28	8.79	10:33	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	05/14/2020	31.24	22.48	-	-	-	-	8.76	8:44	<1	<1	<1	<3	<1	-	<2	<10	-	-	-	17,000	
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	-	-	-	-	-	-	-	-	-	-	-	-	-	

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

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	05/23/2016	30.85	27.68	-	-	-	32.83	3.17	9:59	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	06/21/2016	30.85	26.03	-	-	-	-	4.82	10:36	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	07/21/2016	30.85	25.75	-	-	-	-	5.10	10:18	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	08/24/2016	30.85	25.35	-	-	-	30.69	5.50	9:22	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	11/28/2016	30.85	26.25	-	-	-	-	4.60	8:10	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	11/29/2016	30.85	26.53	-	-	-	29.60	4.32	9:43	-	-	-	-	-	-	-	-	-	-	-	770	
MW-11	02/21/2017	30.85	26.25	-	-	-	29.40	4.60	12:15	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	05/22/2017	30.85	26.88	-	-	-	-	3.97	12:59	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	08/28/2017	30.85	DRY	-	-	-	29.21	-	9:40	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	09/05/2017	30.85	DRY	-	-	-	29.03	-	14:00	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	09/20/2017	30.85	DRY	-	-	-	29.03	-	10:34	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	10/03/2017	30.85	DRY	-	-	-	29.03	-	11:10	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	10/17/2017	30.85	DRY	-	-	-	29.03	-	11:53	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	11/02/2017	30.85	DRY	-	-	-	29.03	-	11:15	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	11/28/2017	30.85	DRY	-	-	-	29.03	-	11:17	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	12/05/2017	30.85	DRY	-	-	-	29.03	-	10:05	-	-	-	-	-	-	-	-	-	-	-	-	
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	

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	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	-	-	-	-	-	-	-	-	-	-	-	-	
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-11	10/01/2019	30.85	26.07	-	-	-	-	4.78	9:59	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	11/18/2019	30.85	25.89	-	-	-	29.07	4.96	12:15	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	11/21/2019	30.85	26.48	-	-	-	29.17	4.37	14:15	-	-	-	-	-	-	-	-	-	-	-	5,000	
MW-11	12/05/2019	30.85	26.45	-	-	-	-	4.40	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	01/14/2020	30.85	26.68	-	-	-	-	4.17	11:43	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	02/17/2020	30.85	26.34	-	-	-	28.82	4.51	10:38	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	03/10/2020	30.85	26.47	-	-	-	-	4.38	9:29	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	05/11/2020	30.85	26.82	-	-	-	-	4.03	12:59	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-14	07/31/2014	31.22	28.04	-	-	-	38.15	3.18	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-14	08/08/2014	31.22	28.21	-	-	-	38.14	3.01	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-14	08/11/2014	31.22	27.81	-	-	-	-	3.41	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-14	08/15/2014	31.22	27.43	-	-	-	-	3.79	-	-	-	-	-	-	-	-	-	-	-	-	305	
MW/RW-14	08/18/2014	31.22	27.17	-	-	-	-	4.05	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-14	08/25/2014	31.22	26.83	-	-	-	-	4.39	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-14	09/02/2014	31.22	27.25	-	-	-	-	3.97	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-14	09/15/2014	31.22	27.15	-	-	-	-	4.07	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-14	09/22/2014	31.22	27.04	-	-	-	-	4.18	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-14	10/01/2014	31.22	27.23	-	-	-	37.28	3.99	-	-	-	-	-	-	-	-	-	-	-	-	-	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

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

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	09/22/2016	31.33	31.30	-	-	-	-	0.03	13:10	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-14	10/20/2016	31.33	31.22	-	-	-	-	0.11	11:14	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-14	11/28/2016	31.33	30.87	-	-	-	-	0.46	10:12	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-14	11/29/2016	31.33	27.47	-	-	-	-	3.86	12:25	-	-	-	-	-	-	-	-	-	-	-	110,000	pump in well
MW/RW-14	12/22/2016	31.33	30.25	-	-	-	-	1.08	-	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-14	01/30/2017	31.33	27.67	-	-	-	-	3.66	12:16	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-14	02/21/2017	31.33	30.20	-	-	-	-	1.13	12:40	-	-	-	-	-	-	-	-	-	-	-	5,600	pump in well
MW/RW-14	03/29/2017	31.33	31.35	-	-	-	-	-0.02	12:27	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-14	04/18/2017	31.33	31.35	-	-	-	-	-0.02	12:00	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-14	05/18/2017	31.33	31.40	-	-	-	-	-0.07	-	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-14	05/22/2017	31.33	27.11	-	-	-	-	4.22	12:57	-	-	-	-	-	-	-	-	-	-	-	1,390	pump in well
MW/RW-14	06/22/2017	31.33	31.45	-	-	-	-	-0.12	12:08	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-14	07/06/2017	31.33	31.10	-	-	-	-	0.23	13:10	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-14	08/21/2017	31.33	32.20	-	-	-	-	-0.87	9:48	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-14	08/28/2017	31.33	32.20	-	-	-	-	-0.87	9:15	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-14	08/31/2017	31.33	32.50	-	-	-	36.48	-1.17	9:15	-	-	-	-	-	-	-	-	-	-	-	7,380	pump in well
MW/RW-14	09/20/2017	31.33	32.18	-	-	-	-	-0.85	10:25	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-14	10/17/2017	31.33	31.40	-	-	-	-	-0.07	11:47	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-14	11/28/2017	31.33	31.47	-	-	-	-	-0.14	11:40	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-14	11/30/2017	31.33	NR	-	-	-	-	-	11:00	-	-	-	-	-	-	-	-	-	-	218	1,000	pump in well
MW/RW-14	01/26/2018	31.33	31.35	-	-	-	-	-0.02	12:45	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-14	02/20/2018	31.33	31.42	-	-	-	-	-0.09	11:10	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-14	02/21/2018	31.33	-	-	-	-	-	-	14:30	-	-	-	-	-	-	-	-	-	-	-	<83	pump in well
MW/RW-14	03/06/2018	31.33	27.5	-	-	-	-	3.83	12:23	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-14	03/29/2018	31.33	27.22	-	-	-	-	4.11	9:31	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-14	04/11/2018	31.33	27.75	-	-	-	-	3.58	9:00	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-14	04/23/2018	31.33	27.73	-	-	-	-	3.60	9:08	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-14	05/03/2018	31.33	27.6	-	-	-	-	3.73	9:24	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-14	05/24/2018	31.33	26.62	-	-	-	36.53	4.71	8:15	-	-	-	-	-	-	-	-	-	-	-	16,500	
MW/RW-14	06/12/2018	31.33	26.4	-	-	-	-	4.93	10:20	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-14	06/26/2018	31.33	26.55	-	-	-	36.52	4.78	9:59	-	-	-	-	-	-	-	-	-	-	6,720 B	41,700	
MW/RW-14	07/02/2018	31.33	26.69	-	-	-	-	4.64	10:10	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-14	07/17/2018	31.33	26.75	-	-	-	-	4.58	10:14	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-14	07/30/2018	31.33	26.27	-	-	-	39.54	5.06	10:59	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-14	08/09/2018	31.33	26.38	-	-	-	-	4.95	-	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
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

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes, Total (µg/L)	Methyl tert-butyl ether (µg/L)	tert-Butyl alcohol (µg/L)	1,2-Dibromoethane (µg/L)	1,2-Dichloroethane (µg/L)	Naphthalene (µg/L)	TPH-GRO (µg/L)	TPH-DRO - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
MW/RW-14	10/02/2018	31.33	25.76	-	-	-	-	5.57	12:04	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-14	10/24/2018	31.33	26.59	-	-	-	-	4.74	9:55	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-14	11/12/2018	32.92	27.20	-	-	-	-	5.72	13:12	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-14	11/13/2018	32.92	26.93	-	-	-	-	5.99	13:30	-	-	-	-	-	-	-	-	-	-	-	3,300	
MW/RW-14	11/27/2018	32.92	26.55	-	-	-	-	6.37	9:57	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-14	12/11/2018	32.92	27.4	-	-	-	-	5.52	10:06	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-14	12/27/2018	32.92	27.22	-	-	-	-	5.70	9:44	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-14	01/10/2019	32.92	28.12	-	-	-	-	4.80	9:41	-	-	-	-	-	-	-	-	-	-	-	-	
MW/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/RW-14	10/01/2019	32.92	29.10	-	-	-	-	3.82	9:47	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-14	11/18/2019	31.33	26.28	26.28	TRACE	-	37.27	5.05	12:13	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-14	11/19/2019	31.33	26.26	-	-	-	-	5.07	10:13	-	-	-	-	-	-	-	-	-	-	-	3,600	
MW/RW-14	12/05/2019	31.33	27.05	-	-	-	-	4.28	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-14	01/14/2020	31.33	26.94	-	-	-	-	4.39	11:50	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-14	02/17/2020	31.33	27.06	-	-	-	31..49	4.27	10:57	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-14	02/19/2020	31.33	27.07	-	-	-	-	4.26	12:10	-	-	-	-	-	-	-	-	-	-	-	2,500	
MW/RW-14	03/10/2020	31.33	26.84	-	-	-	-	4.49	9:46	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-14	05/11/2020	31.33	27.28	-	-	-	36.57	4.05	13:01	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-14	05/14/2020	31.33	28.10	-	-	-	-	3.23	11:17	<0.2	0.5 J	<0.2	<0.5	<0.2	-	<0.3	<2	-	-	-	3,800	
MW-15S	08/08/2014	31.03	26.11	-	-	-	26.20	4.92	-	-	-	-	-	-	-	-	-	-	-	-	-	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes, Total (µg/L)	Methyl tert-butyl ether (µg/L)	tert-Butyl alcohol (µg/L)	1,2-Dibromoethane (µg/L)	1,2-Dichloroethane (µg/L)	Naphthalene (µg/L)	TPH-GRO (µg/L)	TPH-DRO - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
MW-15S	08/11/2014	31.03	26.11	-	-	-	-	4.92	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-15S	08/15/2014	31.03	24.00	-	-	-	-	7.03	-	-	-	-	-	-	-	-	-	-	-	-	909	
MW-15S	08/18/2014	31.03	24.67	-	-	-	-	6.36	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-15S	08/25/2014	31.03	24.82	-	-	-	-	6.21	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-15S	09/02/2014	31.03	24.82	-	-	-	-	6.21	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-15S	09/15/2014	31.03	24.96	-	-	-	-	6.07	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-15S	09/22/2014	31.03	25.06	-	-	-	-	5.97	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-15S	10/01/2014	31.03	25.20	-	-	-	25.88	5.83	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-15S	10/13/2014	31.03	26.37	-	-	-	-	4.66	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-15S	10/20/2014	31.03	25.45	-	-	-	25.90	5.58	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-15S	10/22/2014	31.03	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,800	
MW-15S	02/26/2015	31.03	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,800	
MW-15S	05/11/2015	31.03	25.33	-	-	-	26.00	5.70	9:10	-	-	-	-	-	-	-	-	-	-	-	-	
MW-15S	05/12/2015	31.03	25.35	-	-	-	-	5.68	12:10	-	-	-	-	-	-	-	-	-	-	-	1,800	
MW-15S	08/04/2015	31.03	22.16	-	-	-	25.90	8.87	9:47	-	-	-	-	-	-	-	-	-	-	-	5,900	
MW-15S	12/01/2015	31.03	25.46	-	-	-	25.88	5.57	11:03	-	-	-	-	-	-	-	-	-	-	-	4,200	
MW-15S	03/14/2016	31.03	25.58	-	-	-	26.00	5.45	8:55	-	-	-	-	-	-	-	-	-	-	-	-	
MW-15S	05/23/2016	31.03	25.29	-	-	-	26.00	5.74	11:08	-	-	-	-	-	-	-	-	-	-	-	-	
MW-15S	07/21/2016	31.03	25.44	-	-	-	-	5.59	11:26	-	-	-	-	-	-	-	-	-	-	-	-	
MW-15S	08/24/2016	31.03	22.07	-	-	-	25.86	8.96	12:16	-	-	-	-	-	-	-	-	-	-	-	-	
MW-15S	11/28/2016	31.03	25.15	-	-	-	26.70	5.88	10:34	-	-	-	-	-	-	-	-	-	-	-	-	
MW-15S	11/29/2016	31.03	25.14	-	-	-	25.94	5.89	9:47	-	-	-	-	-	-	-	-	-	-	-	160	
MW-15S	02/21/2017	31.03	25.45	-	-	-	25.90	5.58	11:07	-	-	-	-	-	-	-	-	-	-	-	-	
MW-15S	05/22/2017	31.03	24.60	-	-	-	25.90	6.43	11:08	-	-	-	-	-	-	-	-	-	-	-	-	
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-15S	11/18/2019	31.03	23.49	-	-	-	26.18	7.54	10:22	-	-	-	-	-	-	-	-	-	-	-	-	
MW-15S	11/22/2019	31.03	23.59	-	-	-	25.92	7.44	9:43	-	-	-	-	-	-	-	-	-	-	-	160	

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	02/17/2020	31.03	25.02	-	-	-	25.88	6.01	11:01	-	-	-	-	-	-	-	-	-	-	-	-	
MW-15S	05/11/2020	31.03	24.18	-	-	-	25.91	6.85	9:55	-	-	-	-	-	-	-	-	-	-	-	-	
MW-16S	08/15/2014	31.03	24.13	-	-	-	24.61	6.90	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-16S	08/16/2014	31.03	24.12	-	-	-	24.48	6.91	-	-	-	-	-	-	-	-	-	-	-	-	1,720	
MW-16S	08/18/2014	31.03	24.13	-	-	-	-	6.90	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-16S	08/25/2014	31.03	24.24	-	-	-	-	6.79	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-16S	09/02/2014	31.03	DRY	-	-	-	24.65	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-16S	09/15/2014	31.03	DRY	-	-	-	24.64	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-16S	09/22/2014	31.03	DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-16S	10/01/2014	31.03	DRY	-	-	-	24.64	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-16S	10/10/2014	31.03	DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-16S	10/20/2014	31.03	DRY	-	-	-	24.64	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-16S	02/24/2015	31.03	DRY	-	-	-	24.70	-	15:36	-	-	-	-	-	-	-	-	-	-	-	-	
MW-16S	05/11/2015	31.03	DRY	-	-	-	24.70	-	10:15	-	-	-	-	-	-	-	-	-	-	-	-	
MW-16S	08/04/2015	31.03	22.63	-	-	-	24.62	8.40	9:54	-	-	-	-	-	-	-	-	-	-	-	-	
MW-16S	09/09/2015	31.03	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100	
MW-16S	12/01/2015	31.03	DRY	-	-	-	24.64	-	11:07	-	-	-	-	-	-	-	-	-	-	-	-	
MW-16S	03/14/2016	31.03	DRY	-	-	-	24.70	-	8:45	-	-	-	-	-	-	-	-	-	-	-	-	
MW-16S	05/23/2016	31.03	DRY	-	-	-	24.82	-	11:15	-	-	-	-	-	-	-	-	-	-	-	-	
MW-16S	08/24/2016	31.03	DRY	-	-	-	24.65	-	12:18	-	-	-	-	-	-	-	-	-	-	-	-	
MW-16S	11/28/2016	31.03	DRY	-	-	-	24.68	-	8:21	-	-	-	-	-	-	-	-	-	-	-	-	
MW-16S	02/21/2017	31.03	DRY	-	-	-	24.67	-	11:10	-	-	-	-	-	-	-	-	-	-	-	-	
MW-16S	05/22/2017	31.03	DRY	-	-	-	24.55	-	11:10	-	-	-	-	-	-	-	-	-	-	-	-	
MW-16S	08/28/2017	31.03	DRY	-	-	-	24.69	-	11:05	-	-	-	-	-	-	-	-	-	-	-	-	
MW-16S	11/28/2017	31.03	DRY	-	-	-	24.62	-	11:33	-	-	-	-	-	-	-	-	-	-	-	-	
MW-16S	02/20/2018	31.03	DRY	-	-	-	25.87	-	10:40	-	-	-	-	-	-	-	-	-	-	-	-	
MW-16S	05/21/2018	31.03	DRY	-	-	-	24.68	-	11:37	-	-	-	-	-	-	-	-	-	-	-	-	
MW-16S	08/13/2018	31.03	DRY	-	-	-	25.29	-	10:00	-	-	-	-	-	-	-	-	-	-	-	-	
MW-16S	11/12/2018	31.03	21.21	-	-	-	24.62	9.82	9:44	-	-	-	-	-	-	-	-	-	-	-	-	
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-16S	11/18/2019	31.03	DRY	-	-	-	24.69	-	10:20	-	-	-	-	-	-	-	-	-	-	-	-	
MW-16S	02/17/2020	31.03	DRY	-	-	-	24.68	-	11:03	-	-	-	-	-	-	-	-	-	-	-	-	
MW-16S	05/11/2020	31.03	DRY	-	-	-	24.69	-	9:53	-	-	-	-	-	-	-	-	-	-	-	-	DRY
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	-	-	-	-	-	-	-	-	-	-	-	-	-	

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	09/15/2014	30.97	26.76	-	-	-	-	4.21	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-16	09/22/2014	30.97	26.80	-	-	-	-	4.17	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-16	10/01/2014	30.97	26.95	-	-	-	35.53	4.02	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-16	10/10/2014	30.97	26.85	-	-	-	-	4.12	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-16	10/20/2014	30.97	27.19	-	-	-	35.61	3.78	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-16	10/22/2014	30.97	NR	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.02	<20	-	<45	
MW-16	02/24/2015	30.97	27.25	-	-	-	35.61	3.72	13:34	-	-	-	-	-	-	-	-	-	-	-	-	
MW-16	02/25/2015	30.97	27.23	-	-	-	35.62	3.74	11:14	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.03	<20	-	<45	
MW-16	05/11/2015	30.97	26.43	-	-	-	35.60	4.54	14:50	-	-	-	-	-	-	-	-	-	-	-	-	
MW-16	05/12/2015	30.97	26.90	-	-	-	-	4.07	9:52	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<1	<20	-	<45	
MW-16	08/04/2015	30.97	24.75	-	-	-	35.55	6.22	12:06	-	-	-	-	-	-	-	-	-	-	-	-	
MW-16	08/05/2015	30.97	25.04	-	-	-	35.53	5.93	9:51	-	-	-	-	-	-	-	-	-	-	-	<45	
MW-16	12/01/2015	30.97	26.55	-	-	-	27.90	4.42	13:30	-	-	-	-	-	-	-	-	-	-	-	-	
MW-16	03/14/2016	30.97	26.67	-	-	-	35.55	4.30	9:00	-	-	-	-	-	-	-	-	-	-	-	-	
MW-16	05/23/2016	30.97	26.65	-	-	-	35.82	4.32	10:35	-	-	-	-	-	-	-	-	-	-	-	-	
MW-16	08/24/2016	30.97	26.75	-	-	-	35.55	4.22	9:42	-	-	-	-	-	-	-	-	-	-	-	-	
MW-16	11/28/2016	30.97	27.24	-	-	-	35.49	3.73	8:17	-	-	-	-	-	-	-	-	-	-	-	-	
MW-16	11/29/2016	30.97	27.05	-	-	-	35.80	3.92	-	<0.5	<0.5	<0.5	<0.5	-	-	-	-	<1	-	-	<45	
MW-16	02/21/2017	30.97	27.73	-	-	-	35.63	3.24	12:19	-	-	-	-	-	-	-	-	-	-	-	-	
MW-16	02/22/2017	30.97	27.39	-	-	-	-	3.58	10:00	-	-	-	-	-	-	-	-	-	-	-	<45	
MW-16	05/22/2017	30.97	26.64	-	-	-	-	4.33	12:51	-	-	-	-	-	-	-	-	-	-	-	<64	
MW-16	08/28/2017	30.97	31.87	-	-	-	35.05	-0.90	9:30	-	-	-	-	-	-	-	-	-	-	-	-	
MW-16	08/30/2017	30.97	31.69	-	-	-	35.57	-0.72	12:44	-	-	-	-	-	-	-	-	-	-	-	<83	
MW-16	11/28/2017	30.97	29.93	-	-	-	35.59	1.04	11:30	-	-	-	-	-	-	-	-	-	-	-	-	
MW-16	11/30/2017	30.97	29.85	-	-	-	35.59	1.12	10:15	<0.50	<1.0	<1.0	<1.0	-	-	-	-	<5.0	-	-	103	
MW-16	02/20/2018	30.97	27.86	-	-	-	36.16	3.11	10:37	-	-	-	-	-	-	-	-	-	-	-	-	
MW-16	02/20/2018	30.97	27.91	-	-	-	35.55	3.06	13:28	-	-	-	-	-	-	-	-	-	-	-	103	
MW-16	05/21/2018	30.97	26.17	-	-	-	35.69	4.80	14:14	-	-	-	-	-	-	-	-	-	-	-	-	
MW-16	05/22/2018	30.97	26.41	-	-	-	35.60	4.56	9:48	-	-	-	-	-	-	-	-	-	-	-	<83	
MW-16	08/13/2018	30.97	24.17	-	-	-	35.55	6.80	11:40	-	-	-	-	-	-	-	-	-	-	-	66 J	
MW-16	11/12/2018	30.97	21.92	-	-	-	35.38	9.05	12:47	-	-	-	-	-	-	-	-	-	-	-	-	
MW-16	11/14/2018	30.97	22.02	-	-	-	35.57	8.95	9:30	<0.2	<0.2	<0.2	<0.5	-	-	-	-	<4	-	-	230	
MW-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-16	11/18/2019	30.97	25.03	-	-	-	35.23	5.94	12:10	-	-	-	-	-	-	-	-	-	-	-	-	

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-16	11/22/2019	30.97	25.06	-	-	-	35.51	5.91	8:55	<0.2	<0.2	<0.2	<0.8	-	-	-	-	<4	-	-	<53	
MW-16	02/17/2020	30.97	25.15	-	-	-	35.49	5.82	11:04	-	-	-	-	-	-	-	-	-	-	-	-	
MW-16	02/18/2020	30.97	25.08	-	-	-	-	5.89	9:20	-	-	-	-	-	-	-	-	-	-	-	<53	
MW-16	05/11/2020	30.97	25.28	-	-	-	35.48	5.69	13:02	-	-	-	-	-	-	-	-	-	-	-	-	
MW-16	05/13/2020	30.97	25.81	-	-	-	-	5.16	21:26	<0.2	<0.2	<0.2	<0.5	<0.2	-	<0.3	<2	-	-	-	<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
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

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	03/18/2015	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
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	-	-	-	-	-	-	-	-	-	-	-	-	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes, Total (µg/L)	Methyl tert-butyl ether (µg/L)	tert-Butyl alcohol (µg/L)	1,2-Dibromoethane (µg/L)	1,2-Dichloroethane (µg/L)	Naphthalene (µg/L)	TPH-GRO (µg/L)	TPH-DRO - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
MW-25S	08/24/2016	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	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	03/29/2017	33.28	25.35	-	-	-	25.57	7.93	12:16	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	04/18/2017	33.28	27.08	-	-	-	27.17	6.20	11:43	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	05/22/2017	33.28	23.67	-	-	-	27.16	9.61	10:37	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	05/23/2017	33.28	22.03	-	-	-	27.20	11.25	13:10	-	-	-	-	-	-	-	-	-	-	-	42,500	
MW-25S	06/22/2017	33.28	27.05	-	-	-	27.19	6.23	11:52	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	07/19/2017	33.28	27.08	-	-	-	27.15	6.20	11:47	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	08/21/2017	33.28	23.56	-	-	-	27.32	9.72	9:40	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	08/28/2017	33.28	23.70	-	-	-	27.35	9.58	11:10	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	08/31/2017	33.28	23.68	-	-	-	27.34	9.60	9:23	-	-	-	-	-	-	-	-	-	-	1,640	32,200	
MW-25S	09/05/2017	33.28	23.63	-	-	-	-	9.65	13:53	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	09/20/2017	33.28	23.74	-	-	-	-	9.54	10:08	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	10/03/2017	33.28	23.88	-	-	-	-	9.40	11:16	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	10/17/2017	33.28	23.92	-	-	-	-	9.36	11:29	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	11/02/2017	33.28	23.98	-	-	-	-	9.30	11:22	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	11/28/2017	33.28	24.00	-	-	-	27.28	9.28	14:10	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	11/29/2017	33.28	24.00	-	-	-	27.33	9.28	13:27	<0.50	<1.0	<1.0	<1.0	-	-	-	-	1.3 J	-	55,900	56,500	
MW-25S	12/05/2017	33.28	DRY	-	-	-	24.02	-	10:12	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	12/19/2017	33.28	24.13	-	-	-	-	9.15	10:02	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	01/18/2018	33.28	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	834	34,600	
MW-25S	01/18/2018	33.28	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	27,500	30,300	
MW-25S	01/18/2018	33.28	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3,670	34,200	
MW-25S	01/03/2018	33.28	24.25	-	-	-	-	9.03	12:07	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	01/26/2018	33.28	24.55	-	-	-	-	8.73	11:16	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	02/01/2018	33.28	24.43	-	-	-	-	8.85	10:26	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	02/20/2018	33.28	24.10	-	-	-	27.24	9.18	12:12	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	02/21/2018	33.28	24.08	-	-	-	27.35	9.20	14:45	-	-	-	-	-	-	-	-	-	-	4,660	36,000	
MW-25S	03/06/2018	33.28	23.95	-	-	-	-	9.33	11:16	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	03/29/2018	33.28	23.88	-	-	-	-	9.40	9:35	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	04/11/2018	33.28	24.02	-	-	-	-	9.26	9:03	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	04/23/2018	33.28	23.88	-	-	-	-	9.40	9:12	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	05/03/2018	33.28	23.85	-	-	-	-	9.43	9:26	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	05/03/2018	31.22	22.08	-	-	-	-	9.14	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	05/21/2018	31.22	21.81	-	-	-	25.44	9.41	9:58	-	-	-	-	-	-	-	-	-	-	-	64,100	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes, Total (µg/L)	Methyl tert-butyl ether (µg/L)	tert-Butyl alcohol (µg/L)	1,2-Dibromoethane (µg/L)	1,2-Dichloroethane (µg/L)	Naphthalene (µg/L)	TPH-GRO (µg/L)	TPH-DRO - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
MW-25S	06/12/2018	31.22	21.91	-	-	-	-	9.31	10:26	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	06/26/2018	31.22	21.84	-	-	-	25.43	9.38	10:02	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	07/02/2018	31.22	21.85	-	-	-	-	9.37	10:16	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	07/17/2018	31.22	21.89	-	-	-	-	9.33	10:06	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	07/30/2018	31.22	21.33	-	-	-	-	9.89	10:46	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	08/09/2018	31.22	21.27	-	-	-	-	9.95	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	08/13/2018	31.22	21.20	-	-	-	25.46	10.02	11:54	-	-	-	-	-	-	-	-	-	-	-	34,000	
MW-25S	09/04/2018	31.22	20.88	-	-	-	-	10.34	10:17	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	09/25/2018	31.22	24.76	-	-	-	-	-	13:24	-	-	-	-	-	-	-	-	-	-	-	-	See Notes
MW-25S	10/02/2018	31.22	22.05	-	-	-	26.87	-	10:25	-	-	-	-	-	-	-	-	-	-	-	-	See Notes
MW-25S	10/24/2018	31.22	26.70	-	-	-	27.02	-	9:56	-	-	-	-	-	-	-	-	-	-	-	-	See Notes
MW-25S	11/12/2018	32.44	22.34	-	-	-	-	10.10	9:47	<0.2	0.3 J	<0.2	<0.5	-	-	-	-	<4	-	-	11,000	
MW-25S	11/27/2018	32.44	22.57	-	-	-	-	9.87	9:53	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	12/11/2018	32.44	22.32	-	-	-	-	10.12	9:58	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	12/27/2018	32.44	22.17	-	-	-	-	10.27	9:47	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	01/10/2019	32.44	22.27	-	-	-	-	10.17	9:42	-	-	-	-	-	-	-	-	-	-	-	-	
MW-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-25S	10/01/2019	32.44	23.48	-	-	-	-	8.96	9:58	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	11/18/2019	31.22	22.18	-	-	-	25.49	9.04	10:26	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	11/19/2019	31.22	22.18	-	-	-	25.49	9.04	11:24	0.8 J	<0.2	0.3 J	<0.8	-	-	-	-	<4	-	-	13,000	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes, Total (µg/L)	Methyl tert-butyl ether (µg/L)	tert-Butyl alcohol (µg/L)	1,2-Dibromoethane (µg/L)	1,2-Dichloroethane (µg/L)	Naphthalene (µg/L)	TPH-GRO (µg/L)	TPH-DRO - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
MW-25S	12/05/2019	31.22	22.29	-	-	-	-	8.93	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	01/14/2020	31.22	22.31	-	-	-	-	8.91	11:53	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	02/17/2020	31.22	22.27	-	-	-	25.49	8.95	11:09	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	02/19/2020	31.22	22.30	-	-	-	-	8.92	10:00	-	-	-	-	-	-	-	-	-	-	-	13,000	
MW-25S	03/10/2020	31.22	22.37	-	-	-	-	8.85	9:15	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	05/11/2020	31.22	22.04	-	-	-	25.49	9.18	10:04	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	05/14/2020	31.22	22.08	-	-	-	-	9.14	10:15	1 J	<1	<1	<3	<1	-	<2	<10	-	-	-	14,000	
MW/RW-25	08/08/2014	31.13	27.97	27.60	0.37	0.08	36.69	3.48	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-25	08/11/2014	31.13	27.61	27.37	0.24	NA	-	3.73	-	-	-	-	-	-	-	-	-	-	-	-	-	Transducer installed for pump test
MW/RW-25	08/13/2014	31.13	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,280	
MW/RW-25	08/15/2014	31.13	28.11	28.05	0.06	NA	-	3.07	-	-	-	-	-	-	-	-	-	-	-	-	-	Transducer installed for pump test
MW/RW-25	08/16/2014	31.13	27.81	27.75	0.06	NA	-	3.37	-	-	-	-	-	-	-	-	-	-	-	-	-	Transducer installed for pump test
MW/RW-25	08/18/2014	31.13	27.94	27.71	0.23	NA	-	3.39	-	-	-	-	-	-	-	-	-	-	-	-	-	Transducer installed for pump test
MW/RW-25	08/25/2014	31.13	26.89	26.74	0.15	0.05	-	4.37	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-25	09/02/2014	31.13	27.77	27.03	0.74	0.50	-	4.01	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-25	09/15/2014	31.13	27.69	26.87	0.82	NR	-	4.16	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-25	09/19/2014	31.13	28.10	26.95	1.15	0.93	-	4.04	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-25	09/22/2014	31.13	27.53	26.91	0.62	0.38	-	4.14	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-25	09/24/2014	31.13	27.73	27.23	0.50	NR	-	3.84	-	-	-	-	-	-	-	-	-	-	-	-	-	HIT event
MW/RW-25	10/01/2014	31.13	27.47	27.02	0.45	0.19	35.90	4.06	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-25	10/10/2014	31.13	27.65	26.91	0.74	0.50	-	4.13	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-25	10/13/2014	31.13	27.60	27.03	0.57	NR	-	4.03	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-25	10/20/2014	31.13	27.49	27.19	0.30	0.13	-	3.90	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-25	10/27/2014	31.13	27.87	27.25	0.62	NR	-	3.80	-	-	-	-	-	-	-	-	-	-	-	-	-	HIT event
MW/RW-25	11/07/2014	31.13	27.53	27.08	0.45	0.19	-	4.00	-	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	-	

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	01/26/2015	31.13	27.27	26.98	0.29	0.05	-	4.11	-	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-25	02/03/2015	31.13	28.10	27.52	0.58	-	35.86	3.54	-	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-25	02/09/2015	31.13	27.43	27.06	0.37	-	-	4.02	-	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-25	02/18/2015	31.13	27.63	27.24	0.39	-	-	3.84	-	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-25	02/24/2015	31.13	27.68	27.18	0.50	-	-	3.89	14:00	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-25	03/04/2015	31.13	27.85	27.19	0.66	-	-	3.86	14:35	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-25	03/11/2015	31.13	27.27	26.76	0.51	-	-	4.31	13:08	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-25	03/18/2015	31.13	27.63	26.93	0.70	-	-	4.11	11:30	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-25	03/26/2015	31.13	27.31	26.70	0.61	-	35.90	4.36	12:03	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-25	04/02/2015	31.13	27.60	26.85	0.75	-	35.80	4.19	12:09	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-25	04/08/2015	31.13	28.00	27.15	0.85	-	35.90	3.88	9:10	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-25	04/13/2015	31.13	27.98	27.05	0.93	-	-	3.97	11:06	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-25	04/23/2015	31.13	27.21	26.47	0.74	-	35.90	4.57	12:28	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-25	04/29/2015	31.13	27.50	26.67	0.83	-	35.90	4.36	14:52	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-25	05/04/2015	31.13	27.37	26.57	0.80	-	-	4.46	12:08	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-25	05/11/2015	31.13	27.50	27.43	0.07	-	-	3.69	15:10	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-25	05/13/2015	31.13	28.31	27.19	1.12	1.50	-	3.80	12:53	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-25	05/21/2015	31.13	26.85	26.82	0.03	-	-	4.31	12:50	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-25	05/28/2015	31.13	27.55	27.09	0.46	-	35.80	3.98	12:10	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-25	06/02/2015	31.13	27.10	26.74	0.36	-	-	4.35	13:28	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-25	06/09/2015	31.13	26.91	26.46	0.45	-	-	4.62	10:50	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-25	06/16/2015	31.13	26.86	26.56	0.30	-	-	4.53	11:43	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-25	06/26/2015	31.13	26.91	26.48	0.43	-	35.80	4.60	11:31	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-25	07/01/2015	31.13	26.43	25.98	0.45	-	-	5.10	12:22	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-25	07/08/2015	31.13	26.63	26.13	0.50	0.25	-	4.94	12:00	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-25	07/13/2015	31.13	26.13	25.89	0.24	-	-	5.21	9:50	-	-	-	-	-	-	-	-	-	-	-	-	HIT event
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
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	-	-	-	-	-	-	-	-	-	-	-	-	

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	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
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

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	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/RW-25	10/01/2019	34.00	27.61	-	-	-	-	6.39	10:04	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-25	11/18/2019	32.75	25.53	-	-	-	34.80	7.22	12:18	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-25	11/19/2019	32.75	25.43	-	-	-	34.77	7.32	12:14	0.3 J	<0.2	<0.2	<0.8	-	-	-	-	<4	-	-	5,400	
MW/RW-25	11/22/2019	32.75	25.83	-	-	-	-	6.92	8:48	-	-	-	-	-	-	-	-	-	-	-	330,000	Grab
MW/RW-25	12/05/2019	32.75	26.19	-	-	-	-	6.56	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-25	01/14/2020	32.75	26.37	-	-	-	-	6.38	11:56	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-25	02/17/2020	32.75	26.32	-	-	-	34.81	6.43	10:34	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-25	02/19/2020	32.75	26.26	-	-	-	-	6.49	10:55	-	-	-	-	-	-	-	-	-	-	-	5,700	
MW/RW-25	02/19/2020	32.75	-	-	-	-	-	-	13:35	-	-	-	-	-	-	-	-	-	-	-	21,000	Grab
MW/RW-25	03/10/2020	32.75	26.14	-	-	-	-	6.61	9:11	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-25	05/11/2020	32.75	26.61	-	-	-	34.74	6.14	13:27	<0.2	<0.2	<0.2	<0.5	<0.2	-	<0.3	<2	-	-	-	5,400	
MW/RW-25	05/12/2020	32.75	-	-	-	-	-	-	10:10	-	-	-	-	-	-	-	-	-	-	-	53,000	Grab
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	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	

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	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	
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	

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	05/20/2019	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-27	11/18/2019	31.44	26.45	-	-	-	33.69	4.99	12:46	-	-	-	-	-	-	-	-	-	-	-	-	
MW-27	11/21/2019	31.44	27.27	-	-	-	-	4.17	12:30	<0.2	<0.2	<0.2	<0.8	-	-	-	-	<4	-	-	1,100	
MW-27	02/17/2020	31.44	27.23	-	-	-	-	4.21	10:51	-	-	-	-	-	-	-	-	-	-	-	910	
MW-27	05/11/2020	31.44	27.52	-	-	-	33.71	3.92	13:08	-	-	-	-	-	-	-	-	-	-	-	-	
MW-27	05/12/2020	31.44	28.36	-	-	-	-	3.08	12:20	<0.2	<0.2	<0.2	<0.5	<0.2	-	<0.3	<2	-	-	-	1,100	
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	-	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	

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

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

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes, Total (µg/L)	Methyl tert-butyl ether (µg/L)	tert-Butyl alcohol (µg/L)	1,2-Dibromoethane (µg/L)	1,2-Dichloroethane (µg/L)	Naphthalene (µg/L)	TPH-GRO (µg/L)	TPH-DRO - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
MW/RW-31	08/24/2015	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
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

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	09/20/2017	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	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes, Total (µg/L)	Methyl tert-butyl ether (µg/L)	tert-Butyl alcohol (µg/L)	1,2-Dibromoethane (µg/L)	1,2-Dichloroethane (µg/L)	Naphthalene (µg/L)	TPH-GRO (µg/L)	TPH-DRO - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
MW/RW-31	04/22/2019	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	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	09/17/2019	31.42	26.25	-	-	-	-	5.17	10:25	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	10/01/2019	31.42	26.33	-	-	-	-	5.09	9:39	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	11/18/2019	31.42	26.14	-	-	-	33.53	5.28	12:45	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	11/21/2019	31.42	26.50	-	-	-	-	4.92	11:47	-	-	-	-	-	-	-	-	-	-	-	260	
MW/RW-31	12/05/2019	31.42	26.16	-	-	-	-	5.26	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	01/14/2020	31.42	26.28	-	-	-	-	5.14	11:10	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	02/17/2020	31.42	25.95	-	-	-	33.63	5.47	10:46	-	-	-	-	-	-	-	-	-	-	-	190	
MW/RW-31	03/10/2020	31.42	26.41	-	-	-	-	5.01	9:44	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	05/11/2020	31.42	26.35	-	-	-	33.65	5.07	13:06	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	05/12/2020	31.42	27.30	-	-	-	-	4.12	9:30	<0.2	<0.2	<0.2	<0.5	<0.2	-	<0.3	<2	-	-	-	400	
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	-	-	-	-	-	-	-	-	-	-	-	-	

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	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	-	-	-	-	-	-	-	-	-	-	-	-	
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-33	11/18/2019	30.88	25.76	-	-	-	34.41	5.12	12:52	-	-	-	-	-	-	-	-	-	-	-	-	
MW-33	11/21/2019	30.88	26.58	-	-	-	-	4.30	10:50	-	-	-	-	-	-	-	-	-	-	-	<53	
MW-33	02/17/2020	30.88	26.48	-	-	-	34.38	4.40	10:42	-	-	-	-	-	-	-	-	-	-	-	-	
MW-33	05/11/2020	30.88	26.84	-	-	-	-	4.04	13:10	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	-	

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

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

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	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	
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	

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	02/21/2019	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	-	-	-	-	-	-	-	-	-	-	-	-	
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-51S	10/01/2019	32.98	23.72	-	-	-	-	9.26	10:27	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	11/18/2019	31.00	21.80	-	-	-	24.98	9.20	10:59	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	11/20/2019	31.00	21.75	-	-	-	25.35	9.25	12:50	-	-	-	-	-	-	-	-	-	-	-	4,800	
MW-51S	12/05/2019	31.00	22.00	-	-	-	-	9.00	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	01/14/2020	31.00	22.20	-	-	-	-	8.80	12:03	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	02/17/2020	31.00	22.24	-	-	-	25.35	8.76	10:27	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	02/18/2020	31.00	22.29	-	-	-	-	8.71	13:00	-	-	-	-	-	-	-	-	-	-	-	7,400	
MW-51S	03/10/2020	31.00	22.33	-	-	-	-	8.67	9:01	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	05/11/2020	31.00	21.95	-	-	-	25.31	9.05	10:35	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	05/13/2020	31.00	21.96	-	-	-	-	9.04	9:04	2 J	<1	<1	<3	<1	-	<2	<10	-	-	-	9,000	
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

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	10/01/2014	30.97	26.93	26.93	TRACE	-	36.15	4.04	-	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-51	10/10/2014	30.97	26.84	26.81	0.03	-	-	4.16	-	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-51	10/13/2014	30.97	27.01	26.94	0.07	-	-	4.02	-	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-51	10/20/2014	30.97	27.05	27.03	0.02	TRACE	-	3.94	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	10/27/2014	30.97	27.16	27.12	0.04	TRACE	-	3.85	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	11/07/2014	30.97	27.11	27.07	0.04	TRACE	-	3.90	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	11/12/2014	30.97	26.92	26.90	0.02	TRACE	-	4.07	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	11/21/2014	30.97	27.57	27.50	0.07	TRACE	-	3.46	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	11/26/2014	30.97	27.20	27.17	0.03	TRACE	-	3.80	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	12/05/2014	30.97	26.98	26.96	0.02	TRACE	-	4.01	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	12/11/2014	30.97	26.88	26.87	0.01	TRACE	-	4.10	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	12/16/2014	30.97	26.83	26.80	0.03	TRACE	-	4.17	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	12/23/2014	30.97	26.83	26.83	TRACE	TRACE	-	4.14	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	12/30/2014	30.97	27.28	27.22	0.06	TRACE	-	3.74	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	01/09/2015	30.97	27.20	27.15	0.05	TRACE	-	3.81	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	01/16/2015	30.97	26.95	26.91	0.04	TRACE	-	4.06	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	01/19/2015	30.97	26.88	26.83	0.05	TRACE	-	4.13	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	01/26/2015	30.97	26.98	26.92	0.06	TRACE	-	4.04	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	02/03/2015	30.97	27.52	27.45	0.07	-	36.15	3.51	-	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-51	02/09/2015	30.97	26.93	26.91	0.02	-	-	4.06	-	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-51	02/18/2015	30.97	27.07	27.02	0.05	-	-	3.94	-	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-51	02/24/2015	30.97	27.07	27.06	0.01	TRACE	-	3.91	13:46	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	03/04/2015	30.97	27.24	27.17	0.07	-	-	3.79	14:25	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-51	03/11/2015	30.97	26.68	26.65	0.03	-	-	4.32	12:51	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-51	03/18/2015	30.97	26.94	26.84	0.10	-	-	4.12	11:11	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-51	03/26/2015	30.97	26.74	26.60	0.14	-	36.10	4.35	11:50	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-51	04/02/2015	30.97	27.78	27.75	0.03	-	36.05	3.22	11:46	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-51	04/08/2015	30.97	27.15	27.02	0.13	-	36.11	3.93	9:00	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-51	04/13/2015	30.97	27.09	26.98	0.11	-	-	3.98	10:47	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
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

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	06/26/2015	30.97	26.44	26.31	0.13	-	36.00	4.64	11:23	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-51	07/01/2015	30.97	25.86	25.85	0.01	-	-	5.12	12:30	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-51	07/08/2015	30.97	26.28	26.05	0.23	0.05	-	4.89	11:54	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	07/13/2015	30.97	26.03	25.90	0.13	-	-	5.05	9:46	-	-	-	-	-	-	-	-	-	-	-	-	HIT event
MW/RW-51	07/20/2015	30.97	25.97	25.92	0.05	TRACE	-	5.04	9:52	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	07/28/2015	30.97	26.16	26.10	0.06	TRACE	36.18	4.86	11:55	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	08/04/2015	30.97	26.11	26.02	0.09	0.01	-	4.94	12:28	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	08/11/2015	30.97	25.78	25.70	0.08	0.01	36.14	5.26	11:07	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	08/18/2015	30.97	27.29	27.23	0.06	TRACE	-	3.73	10:43	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	08/24/2015	30.97	26.18	26.16	0.02	TRACE	-	4.81	10:46	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	09/02/2015	30.97	26.42	26.40	0.02	0.01	36.10	4.57	10:50	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	09/09/2015	30.97	26.35	26.27	0.08	0.02	36.12	4.69	10:35	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	09/17/2015	30.97	26.61	-	-	-	36.14	4.36	10:54	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	09/23/2015	30.97	26.49	26.47	0.02	TRACE	-	4.50	11:06	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	09/28/2015	30.97	26.00	26.00	TRACE	-	36.10	4.97	10:01	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-51	10/05/2015	30.97	26.67	-	-	-	36.15	4.30	12:15	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	11/10/2015	30.97	26.52	26.48	0.04	-	-	4.49	13:42	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-51	12/01/2015	30.97	26.57	26.55	0.02	-	-	4.42	13:53	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-51	01/27/2016	31.62	26.86	26.73	0.13	-	-	4.87	10:48	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-51	02/15/2016	31.62	27.22	27.14	0.08	-	-	4.47	10:23	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-51	03/14/2016	31.62	26.72	26.63	0.09	-	-	4.98	10:25	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-51	03/30/2016	31.62	33.60	-	-	-	-	-1.98	-	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-51	04/21/2016	31.62	33.00	-	-	-	-	-1.38	10:13	-	-	-	-	-	-	-	-	-	-	-	2,900	pump in well
MW/RW-51	05/23/2016	31.62	33.31	-	-	-	34.52	-1.69	11:30	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-51	05/24/2016	31.62	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	780	pump in well
MW/RW-51	06/21/2016	31.62	33.00	-	-	-	-	-1.38	11:05	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-51	07/21/2016	31.62	33.70	-	-	-	-	-2.08	11:05	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
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

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	07/06/2017	31.62	33.50	-	-	-	-	-1.88	13:00	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-51	07/19/2017	31.62	33.80	-	-	-	-	-2.18	12:05	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-51	08/21/2017	31.62	33.80	-	-	-	-	-2.18	9:12	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-51	08/28/2017	31.62	32.65	-	-	-	-	-1.03	9:35	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-51	08/31/2017	31.62	32.42	-	-	-	36.18	-0.80	9:31	-	-	-	-	-	-	-	-	-	-	-	2,500	pump in well
MW/RW-51	09/20/2017	31.62	33.80	-	-	-	-	-2.18	9:40	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-51	10/17/2017	31.62	33.80	-	-	-	-	-2.18	11:00	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-51	11/28/2017	31.62	33.76	-	-	-	34.20	-2.14	12:39	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-51	11/30/2017	31.62	NR	-	-	-	-	-	11:20	<0.50	<1.0	<1.0	<1.0	-	-	-	-	<5.0	-	-	149	pump in well
MW/RW-51	01/26/2018	31.62	33.45	-	-	-	-	-1.83	12:35	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-51	02/20/2018	31.62	33.80	-	-	-	-	-2.18	10:45	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-51	02/21/2018	31.62	-	-	-	-	-	-	14:10	-	-	-	-	-	-	-	-	-	-	-	<83	pump in well
MW/RW-51	03/06/2018	31.62	27.30	-	-	-	-	4.32	12:15	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-51	03/29/2018	31.62	26.92	-	-	-	-	4.70	9:47	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-51	04/11/2018	31.62	27.57	-	-	-	-	4.05	11:02	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	04/23/2018	31.62	27.42	-	-	-	-	4.20	9:27	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	05/03/2018	31.62	27.28	-	-	-	-	4.34	9:29	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	05/21/2018	31.62	26.38	-	-	-	36.18	5.24	14:01	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	05/22/2018	31.62	26.32	-	-	-	36.10	5.30	10:03	-	-	-	-	-	-	-	-	-	-	-	19,500	
MW/RW-51	06/12/2018	31.62	26.27	-	-	-	-	5.35	10:30	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	06/26/2018	31.62	26.21	-	-	-	36.47	5.41	9:47	-	-	-	-	-	-	-	-	-	-	4,930 B	32,400	
MW/RW-51	07/02/2018	31.62	26.28	-	-	-	-	5.34	10:48	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	07/17/2018	31.62	26.51	-	-	-	-	5.11	9:35	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	07/30/2018	31.62	26.14	-	-	-	38.55	5.48	10:15	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	08/09/2018	31.62	26.02	-	-	-	-	5.60	-	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
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	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	02/11/2019	32.87	27.17	-	-	-	37.12	5.70	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	02/14/2019	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/RW-51	10/01/2019	32.87	28.33	-	-	-	-	4.54	10:31	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	11/18/2019	31.62	25.98	-	-	-	35.93	5.64	12:28	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	11/20/2019	31.62	26.22	-	-	-	35.94	5.40	13:47	0.4 J	<0.2	<0.2	<0.8	-	-	-	-	<4	-	-	2,000	
MW/RW-51	11/22/2019	31.62	26.24	-	-	-	-	5.38	8:45	-	-	-	-	-	-	-	-	-	-	-	3,200	Grab
MW/RW-51	12/05/2019	31.62	26.75	-	-	-	-	4.87	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	01/14/2020	31.62	26.79	-	-	-	-	4.83	12:06	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	02/17/2020	31.62	26.73	-	-	-	35.87	4.89	10:28	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	02/18/2020	31.62	26.64	-	-	-	-	4.98	11:45	-	-	-	-	-	-	-	-	-	-	-	1,700	
MW/RW-51	02/18/2020	31.62	-	-	-	-	-	-	14:35	-	-	-	-	-	-	-	-	-	-	-	11,000	Grab
MW/RW-51	03/10/2020	31.62	26.60	-	-	-	-	5.02	9:05	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	05/11/2020	31.62	27.08	-	-	-	35.04	4.54	12:53	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	05/13/2020	31.62	27.94	-	-	-	-	3.68	10:10	0.6 J	<0.2	1	0.5 J	<0.2	-	<0.3	<2	5 J	-	-	5,500	
MW/RW-51	05/13/2020	31.62	-	-	-	-	-	-	13:30	-	-	-	-	-	-	-	-	-	-	-	60,000	Grab
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	-	-	-	-	-	-	-	-	-	-	-	-	-	

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	09/22/2014	30.17	26.00	-	-	-	-	4.17	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-52	10/01/2014	30.17	26.03	-	-	-	35.65	4.14	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-52	10/10/2014	30.17	26.07	-	-	-	-	4.10	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-52	10/20/2014	30.17	26.24	-	-	-	35.64	3.93	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-52	10/22/2014	30.17	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	120	
MW-52	05/11/2015	30.17	25.81	-	-	-	35.65	4.36	14:45	-	-	-	-	-	-	-	-	-	-	-	-	
MW-52	05/12/2015	30.17	26.10	-	-	-	-	4.07	9:50	-	-	-	-	-	-	-	-	-	-	-	<45	
MW-52	08/04/2015	30.17	25.21	-	-	-	35.55	4.96	12:01	-	-	-	-	-	-	-	-	-	-	-	-	
MW-52	08/05/2015	30.17	25.68	-	-	-	35.49	4.49	9:47	-	-	-	-	-	-	-	-	-	-	-	110	
MW-52	12/01/2015	30.17	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Manhole flooded
MW-52	03/14/2016	30.17	26.61	-	-	-	35.30	3.56	9:10	-	-	-	-	-	-	-	-	-	-	-	-	
MW-52	05/23/2016	30.17	26.29	-	-	-	35.22	3.88	10:40	-	-	-	-	-	-	-	-	-	-	-	-	
MW-52	08/24/2016	30.17	26.38	-	-	-	35.30	3.79	9:46	-	-	-	-	-	-	-	-	-	-	-	-	
MW-52	11/28/2016	30.17	26.62	-	-	-	35.24	3.55	8:33	-	-	-	-	-	-	-	-	-	-	-	-	
MW-52	02/21/2017	30.17	26.78	-	-	-	35.27	3.39	12:22	-	-	-	-	-	-	-	-	-	-	-	-	
MW-52	05/22/2017	30.17	24.98	-	-	-	-	5.19	13:19	-	-	-	-	-	-	-	-	-	-	-	-	
MW-52	08/28/2017	30.17	30.97	-	-	-	35.04	-0.80	9:33	-	-	-	-	-	-	-	-	-	-	-	-	
MW-52	11/28/2017	30.17	28.97	-	-	-	35.03	1.20	12:23	-	-	-	-	-	-	-	-	-	-	-	-	
MW-52	02/20/2018	30.17	27.05	-	-	-	35.69	3.12	10:42	-	-	-	-	-	-	-	-	-	-	-	-	
MW-52	05/21/2018	30.17	25.39	-	-	-	35.15	4.78	14:09	-	-	-	-	-	-	-	-	-	-	-	-	
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-52	11/18/2019	30.17	25.28	-	-	-	34.98	4.89	12:08	-	-	-	-	-	-	-	-	-	-	-	-	
MW-52	02/17/2020	30.17	26.01	-	-	-	34.92	4.16	11:06	-	-	-	-	-	-	-	-	-	-	-	-	
MW-52	05/11/2020	30.17	26.06	-	-	-	34.96	4.11	13:04	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	

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	02/26/2015	30.86	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3,200	
MW-70	05/11/2015	30.86	26.02	-	-	-	35.15	4.84	14:55	-	-	-	-	-	-	-	-	-	-	-	-	
MW-70	05/12/2015	30.86	26.21	-	-	-	-	4.65	14:05	-	-	-	-	-	-	-	-	-	-	-	100	
MW-70	08/04/2015	30.86	25.73	-	-	-	35.16	5.13	12:28	-	-	-	-	-	-	-	-	-	-	-	-	
MW-70	08/05/2015	30.86	26.10	-	-	-	35.05	4.76	9:55	-	-	-	-	-	-	-	-	-	-	-	<45	
MW-70	12/01/2015	30.86	26.23	-	-	-	35.05	4.63	13:32	-	-	-	-	-	-	-	-	-	-	-	-	
MW-70	03/14/2016	30.86	26.45	-	-	-	35.11	4.41	9:45	-	-	-	-	-	-	-	-	-	-	-	-	
MW-70	05/23/2016	30.86	26.71	-	-	-	35.05	4.15	10:22	-	-	-	-	-	-	-	-	-	-	-	-	
MW-70	08/24/2016	30.86	26.64	-	-	-	35.05	4.22	9:52	-	-	-	-	-	-	-	-	-	-	-	-	
MW-70	11/28/2016	30.86	26.91	-	-	-	35.04	3.95	8:27	-	-	-	-	-	-	-	-	-	-	-	-	
MW-70	02/21/2017	30.86	27.08	-	-	-	35.13	3.78	12:06	-	-	-	-	-	-	-	-	-	-	-	-	
MW-70	05/22/2017	30.86	25.92	-	-	-	33.05	4.94	12:53	-	-	-	-	-	-	-	-	-	-	-	-	
MW-70	08/28/2017	30.86	32.22	-	-	-	35.05	-1.36	9:23	-	-	-	-	-	-	-	-	-	-	-	-	
MW-70	11/28/2017	30.86	29.64	-	-	-	35.09	1.22	12:20	-	-	-	-	-	-	-	-	-	-	-	-	
MW-70	02/20/2018	30.86	27.01	-	-	-	35.78	3.85	10:24	-	-	-	-	-	-	-	-	-	-	-	-	
MW-70	05/21/2018	30.86	25.25	-	-	-	35.19	5.61	13:55	-	-	-	-	-	-	-	-	-	-	-	-	
MW-70	08/13/2018	30.86	25.11	-	-	-	35.91	5.75	12:39	-	-	-	-	-	-	-	-	-	-	-	-	
MW-70	11/12/2018	30.86	25.08	-	-	-	35.12	5.78	12:50	-	-	-	-	-	-	-	-	-	-	-	-	
MW-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-70	11/18/2019	30.86	25.32	-	-	-	35.09	5.54	12:35	-	-	-	-	-	-	-	-	-	-	-	-	
MW-70	02/17/2020	30.86	25.50	-	-	-	35.03	5.36	10:14	-	-	-	-	-	-	-	-	-	-	-	-	
MW-70	05/11/2020	30.86	26.01	-	-	-	35.10	4.85	12:47	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	-	

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	11/21/2014	30.63	22.04	-	-	-	-	8.59	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	11/26/2014	30.63	22.10	-	-	-	-	8.53	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	12/05/2014	30.63	22.23	-	-	-	-	8.40	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	12/11/2014	30.63	22.11	-	-	-	-	8.52	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	12/16/2014	30.63	22.00	-	-	-	-	8.63	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	12/23/2014	30.63	21.99	-	-	-	-	8.64	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	12/30/2014	30.63	21.98	-	-	-	-	8.65	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	01/09/2015	30.63	21.94	-	-	-	-	8.69	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	01/16/2015	30.63	21.93	-	-	-	-	8.70	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	01/19/2015	30.63	21.88	-	-	-	-	8.75	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	01/26/2015	30.63	21.78	-	-	-	-	8.85	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	02/03/2015	30.63	21.79	-	-	-	23.93	8.84	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	02/09/2015	30.63	21.77	-	-	-	-	8.86	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	02/18/2015	30.63	21.85	-	-	-	-	8.78	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	02/24/2015	30.63	21.90	-	-	-	23.89	8.73	15:53	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	02/25/2015	30.63	21.87	-	-	-	23.75	8.76	14:10	-	-	-	-	-	-	-	-	-	-	-	3,400	
MW/RW-72S	03/04/2015	30.63	21.79	-	-	-	-	8.84	13:45	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	03/11/2015	30.63	21.75	-	-	-	-	8.88	12:12	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	03/18/2015	30.63	21.70	-	-	-	-	8.93	10:35	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	03/26/2015	30.63	21.73	-	-	-	23.90	8.90	11:10	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	04/02/2015	30.63	21.78	-	-	-	23.90	8.85	10:55	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	04/08/2015	30.63	21.82	-	-	-	23.87	8.81	9:35	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	04/13/2015	30.63	21.86	-	-	-	-	8.77	10:08	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	04/23/2015	30.63	21.86	-	-	-	23.87	8.77	11:12	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	04/29/2015	30.63	21.85	-	-	-	23.85	8.78	13:56	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	05/04/2015	30.63	21.84	-	-	-	-	8.79	11:06	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	05/11/2015	30.63	21.91	-	-	-	23.90	8.72	10:48	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	05/13/2015	30.63	21.90	-	-	-	-	8.73	9:57	13	<0.5	24	<0.5	<0.5	<2	<0.5	<0.5	16.00	-	-	4,000	
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	

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	03/14/2016	30.63	23.71	-	-	-	26.02	6.92	12:25	-	-	-	-	-	-	-	-	-	-	-	8,200	
MW/RW-72S	05/23/2016	30.63	25.75	-	-	-	-	4.88	11:43	-	-	-	-	-	-	-	-	-	-	-	-	Obstruction during gauging
MW/RW-72S	05/25/2016	30.63	24.22	-	-	-	25.85	6.41	-	-	-	-	-	-	-	-	-	-	-	-	3,800	
MW/RW-72S	06/21/2016	30.63	26.04	-	-	-	-	4.59	10:17	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	07/21/2016	30.63	26.02	-	-	-	-	4.61	10:04	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	08/24/2016	30.63	25.60	-	-	-	26.15	5.03	11:40	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	08/25/2016	30.63	23.95	-	-	-	-	6.68	13:00	-	-	-	-	-	-	-	-	-	-	-	5,300	
MW/RW-72S	09/22/2016	30.63	26.07	-	-	-	26.13	4.56	12:16	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	10/20/2016	30.63	26.02	-	-	-	-	4.61	11:02	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	11/28/2016	30.63	DRY	-	-	-	25.79	-	9:59	-	-	-	-	-	-	-	-	-	-	-	-	DRY
MW/RW-72S	11/29/2016	30.63	26.04	-	-	-	26.10	4.59	13:30	-	-	-	-	-	-	-	-	-	-	-	-	Insufficient GW Vol.
MW/RW-72S	12/07/2016	30.63	26.07	-	-	-	26.13	4.56	12:26	-	-	-	-	-	-	-	-	-	-	-	-	Insufficient GW Vol.
MW/RW-72S	12/22/2016	30.63	DRY	-	-	-	26.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	DRY
MW/RW-72S	01/30/2017	30.63	26.06	-	-	-	26.23	4.57	10:11	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	02/21/2017	30.63	26.01	-	-	-	26.19	4.62	10:22	-	-	-	-	-	-	-	-	-	-	-	-	Insufficient GW Vol.
MW/RW-72S	02/22/2017	30.63	26.03	-	-	-	26.19	4.60	-	-	-	-	-	-	-	-	-	-	-	-	-	Insufficient GW Vol.
MW/RW-72S	03/29/2017	30.63	22.90	-	-	-	23.83	7.73	12:37	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	05/22/2017	30.63	21.23	-	-	-	21.23	9.40	11:23	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	05/23/2017	30.63	21.30	-	-	-	23.90	9.33	13:00	-	-	-	-	-	-	-	-	-	-	-	55,500	
MW/RW-72S	08/28/2017	30.63	21.29	-	-	-	23.98	9.34	11:47	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	08/30/2017	30.63	21.22	-	-	-	23.93	9.41	12:53	-	-	-	-	-	-	-	-	<0.66	-	4,870	15,800	
MW/RW-72S	11/28/2017	30.63	21.57	-	-	-	23.91	9.06	14:19	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	11/30/2017	30.63	21.69	-	-	-	23.92	8.94	9:25	<0.50	<1.0	<1.0	<1.0	-	-	-	-	<5.0	-	8,070	9,100	
MW/RW-72S	02/20/2018	30.63	21.22	-	-	-	23.92	9.41	12:18	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	02/21/2018	30.63	21.25	-	-	-	23.83	9.38	9:35	-	-	-	-	-	-	-	-	-	-	6,050	26,900	
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	
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-72S	11/18/2019	30.63	22.20	-	-	-	23.85	8.43	11:05	-	-	-	-	-	-	-	-	-	-	-	-	

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-72S	11/19/2019	30.63	22.18	-	-	-	23.91	8.45	13:22	<0.2	<0.2	<0.2	<0.8	-	-	-	-	<4	-	-	3,300	
MW/RW-72S	02/17/2020	30.63	21.77	-	-	-	23.91	8.86	10:49	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	02/18/2020	30.63	21.75	-	-	-	-	8.88	12:15	-	-	-	-	-	-	-	-	-	-	-	2,000	
MW/RW-72S	05/11/2020	30.63	21.10	-	-	-	23.91	9.53	10:40	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	05/13/2020	30.63	21.18	-	-	-	-	9.45	9:25	<0.2	<0.2	<0.2	<0.5	<0.2	-	<0.3	<2	-	-	-	1,900	
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	
MW/RW-72	03/04/2015	31.06	27.17	-	-	-	-	3.89	13:48	-	-	-	-	-	-	-	-	-	-	-	-	

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-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
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	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes, Total (µg/L)	Methyl tert-butyl ether (µg/L)	tert-Butyl alcohol (µg/L)	1,2-Dibromoethane (µg/L)	1,2-Dichloroethane (µg/L)	Naphthalene (µg/L)	TPH-GRO (µg/L)	TPH-DRO - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
MW/RW-72	02/21/2017	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/RW-72	11/18/2019	31.03	26.11	-	-	-	32.99	4.92	12:50	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72	11/19/2019	31.03	25.91	-	-	-	33.10	5.12	14:23	0.5 J	<0.2	2.00	7	-	-	-	-	17	-	-	1,500	
MW/RW-72	02/17/2020	31.03	26.78	-	-	-	33.02	4.25	10:50	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72	02/18/2020	31.03	26.64	-	-	-	-	4.39	10:51	-	-	-	-	-	-	-	-	-	-	-	890	
MW/RW-72	05/11/2020	31.03	27.14	-	-	-	33.08	3.89	13:06	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72	05/13/2020	31.03	28.07	-	-	-	-	2.96	10:42	0.4 J	<0.2	2	6	<0.2	-	<0.3	<2	14	-	-	1,400	
MW-100S	08/15/2014	31.06	21.32	-	-	-	24.22	9.74	-	-	-	-	-	-	-	-	-	-	-	-	<300	
MW-100S	08/18/2014	31.06	21.28	-	-	-	-	9.78	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-100S	08/25/2014	31.06	21.31	-	-	-	-	9.75	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-100S	09/02/2014	31.06	21.39	-	-	-	-	9.67	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-100S	09/15/2014	31.06	21.39	-	-	-	-	9.67	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-100S	09/22/2014	31.06	21.52	-	-	-	-	9.54	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-100S	10/01/2014	31.06	21.62	-	-	-	24.16	9.44	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-100S	10/10/2014	31.06	21.61	-	-	-	-	9.45	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-100S	10/20/2014	31.06	21.67	-	-	-	24.17	9.39	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-100S	10/21/2014	31.06	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<45	
MW-100S	02/24/2015	31.06	21.75	-	-	-	24.18	9.31	15:18	-	-	-	-	-	-	-	-	-	-	-	-	

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	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-100S	11/18/2019	31.03	20.97	-	-	-	24.18	10.06	11:41	-	-	-	-	-	-	-	-	-	-	-	-	
MW-100S	11/20/2019	31.03	21.01	-	-	-	24.18	10.02	9:26	-	-	-	-	-	-	-	-	-	-	-	<53	
MW-100S	02/17/2020	31.03	20.95	-	-	-	24.18	10.08	10:10	-	-	-	-	-	-	-	-	-	-	-	-	
MW-100S	05/11/2020	31.03	21.02	-	-	-	24.17	10.01	10:08	-	-	-	-	-	-	-	-	-	-	-	-	
MW-100	08/15/2014	30.78	26.80	-	-	-	36.90	3.98	-	-	-	-	-	-	-	-	-	-	-	-	<152	
MW-100	08/18/2014	30.78	26.66	-	-	-	-	4.12	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-100	08/25/2014	30.78	26.26	-	-	-	-	4.52	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-100	09/02/2014	30.78	26.70	-	-	-	-	4.08	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-100	09/15/2014	30.78	26.65	-	-	-	-	4.13	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-100	09/22/2014	30.78	26.48	-	-	-	-	4.30	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-100	10/01/2014	30.78	26.69	-	-	-	36.68	4.09	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-100	10/10/2014	30.78	26.60	-	-	-	-	4.18	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-100	10/20/2014	30.78	26.86	-	-	-	36.58	3.92	-	-	-	-	-	-	-	-	-	-	-	-	-	

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	10/21/2014	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-100	11/18/2019	30.78	25.69	-	-	-	36.18	5.09	12:37	-	-	-	-	-	-	-	-	-	-	-	-	
MW-100	11/20/2019	30.78	26.06	-	-	-	-	4.72	10:28	-	-	-	-	-	-	-	-	-	-	-	<53	
MW-100	02/17/2020	30.78	26.40	-	-	-	36.19	4.38	10:12	-	-	-	-	-	-	-	-	-	-	-	-	
MW-100	05/11/2020	30.78	27.20	-	-	-	-	3.58	12:45	-	-	-	-	-	-	-	-	-	-	-	-	
MW-102	08/15/2014	29.72	29.91	-	-	-	36.64	-0.19	-	-	-	-	-	-	-	-	-	-	-	-	<1,500	
MW-102	08/18/2014	29.72	29.81	-	-	-	-	-0.09	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-102	08/25/2014	29.72	28.40	-	-	-	-	1.32	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-102	09/02/2014	29.72	27.23	-	-	-	-	2.49	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-102	09/15/2014	29.72	24.97	-	-	-	-	4.75	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-102	09/22/2014	29.72	24.83	-	-	-	-	4.89	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-102	10/01/2014	29.72	24.73	-	-	-	36.45	4.99	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-102	10/10/2014	29.72	24.66	-	-	-	-	5.06	-	-	-	-	-	-	-	-	-	-	-	-	-	

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	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-102	11/18/2019	29.72	23.68	-	-	-	36.38	6.04	12:56	-	-	-	-	-	-	-	-	-	-	-	-	
MW-102	02/17/2020	29.72	22.61	-	-	-	36.41	7.11	10:06	-	-	-	-	-	-	-	-	-	-	-	-	
MW-102	05/11/2020	29.72	23.21	-	-	-	36.38	6.51	12:40	-	-	-	-	-	-	-	-	-	-	-	-	
MW-103	07/24/2014	11.07	7.87	-	-	-	-	3.20	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-103	08/08/2014	11.07	4.61	-	-	-	15.06	6.46	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-103	08/11/2014	11.07	4.63	-	-	-	-	6.44	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-103	08/15/2014	11.07	4.26	-	-	-	14.95	6.81	-	-	-	-	-	-	-	-	-	-	-	-	479	
MW-103	08/18/2014	11.07	4.48	-	-	-	-	6.59	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-103	08/25/2014	11.07	4.45	-	-	-	-	6.62	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-103	09/02/2014	11.07	4.50	-	-	-	-	6.57	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-103	09/15/2014	11.07	4.63	-	-	-	-	6.44	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-103	09/22/2014	11.07	4.76	-	-	-	-	6.31	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-103	10/01/2014	11.07	4.85	-	-	-	14.88	6.22	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-103	10/10/2014	11.07	4.93	-	-	-	-	6.14	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-103	10/20/2014	11.07	4.70	-	-	-	14.88	6.37	-	-	-	-	-	-	-	-	-	-	-	-	-	

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	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-103	11/18/2019	11.07	4.84	-	-	-	14.87	6.23	10:42	-	-	-	-	-	-	-	-	-	-	-	-	
MW-103	02/17/2020	11.07	4.10	-	-	-	14.87	6.97	9:07	-	-	-	-	-	-	-	-	-	-	-	-	
MW-103	05/11/2020	11.07	4.04	-	-	-	14.88	7.03	10:16	-	-	-	-	-	-	-	-	-	-	-	-	
MW-104	07/24/2014	12.00	5.24	-	-	-	-	6.76	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-104	08/08/2014	12.00	4.28	-	-	-	12.05	7.72	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-104	08/11/2014	12.00	4.40	-	-	-	-	7.60	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-104	08/15/2014	12.00	3.95	-	-	-	12.20	8.05	-	-	-	-	-	-	-	-	-	-	-	-	1,630	
MW-104	08/18/2014	12.00	4.22	-	-	-	-	7.78	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-104	08/25/2014	12.00	4.29	-	-	-	-	7.71	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-104	09/02/2014	12.00	4.38	-	-	-	-	7.62	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-104	09/15/2014	12.00	4.52	-	-	-	-	7.48	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-104	09/22/2014	12.00	4.73	-	-	-	-	7.27	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-104	10/01/2014	12.00	4.73	-	-	-	11.98	7.27	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-104	10/10/2014	12.00	4.77	-	-	-	-	7.23	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-104	10/20/2014	12.00	3.98	-	-	-	12.07	8.02	-	-	-	-	-	-	-	-	-	-	-	-	-	

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	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-104	11/18/2019	12.00	4.57	-	-	-	11.58	7.43	10:39	-	-	-	-	-	-	-	-	-	-	-	-	
MW-104	02/17/2020	12.00	3.74	-	-	-	12.01	8.26	9:09	-	-	-	-	-	-	-	-	-	-	-	-	
MW-104	05/11/2020	12.00	3.74	-	-	-	11.93	8.26	10:14	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	-	

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	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-105	11/18/2019	10.94	2.43	-	-	-	8.78	8.51	10:37	-	-	-	-	-	-	-	-	-	-	-	-	
MW-105	02/17/2020	10.94	1.67	-	-	-	8.89	9.27	9:11	-	-	-	-	-	-	-	-	-	-	-	-	
MW-105	05/11/2020	10.94	2.00	-	-	-	8.91	8.94	10:11	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	08/08/2014	11.12	8.30	-	-	-	10.27	2.82	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	08/11/2014	11.12	8.27	-	-	-	-	2.85	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	08/15/2014	11.12	7.63	-	-	-	9.88	3.49	-	-	-	-	-	-	-	-	-	-	-	-	89,200	
MW-106	08/18/2014	11.12	7.58	-	-	-	-	3.54	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	08/25/2014	11.12	7.52	-	-	-	-	3.60	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	09/02/2014	11.12	7.79	-	-	-	-	3.33	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	09/15/2014	11.12	7.90	-	-	-	-	3.22	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	09/22/2014	11.12	7.87	-	-	-	-	3.25	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	10/01/2014	11.12	7.93	-	-	-	9.88	3.19	-	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	-	

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	11/07/2014	11.12	7.83	-	-	-	-	3.29	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	11/12/2014	11.12	7.88	-	-	-	-	3.24	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	11/21/2014	11.12	8.23	-	-	-	-	2.89	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	11/26/2014	11.12	8.03	-	-	-	-	3.09	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	12/05/2014	11.12	7.21	-	-	-	-	3.91	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	12/11/2014	11.12	6.95	-	-	-	-	4.17	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	12/16/2014	11.12	7.18	-	-	-	-	3.94	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	12/23/2014	11.12	7.31	-	-	-	-	3.81	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	12/30/2014	11.12	6.97	-	-	-	-	4.15	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	01/09/2015	11.12	7.34	-	-	-	-	3.78	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	01/16/2015	11.12	6.88	-	-	-	-	4.24	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	01/19/2015	11.12	6.77	-	-	-	-	4.35	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	01/26/2015	11.12	5.79	-	-	-	-	5.33	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	02/03/2015	11.12	7.24	-	-	-	9.90	3.88	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	02/09/2015	11.12	7.42	-	-	-	-	3.70	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	02/18/2015	11.12	7.63	-	-	-	-	3.49	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	02/24/2015	11.12	7.76	-	-	-	9.84	3.36	13:18	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	02/25/2015	11.12	7.80	-	-	-	9.79	3.32	10:20	<0.5	<0.5	2	<0.5	<0.5	<2	<0.5	<0.5	4.1	130	-	9,500	
MW-106	03/04/2015	11.12	7.57	-	-	-	-	3.55	13:52	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	03/11/2015	11.12	5.17	-	-	-	-	5.95	12:19	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	03/18/2015	11.12	6.39	-	-	-	-	4.73	10:42	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	03/26/2015	11.12	7.02	-	-	-	9.90	4.10	11:02	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	04/02/2015	11.12	7.15	-	-	-	9.85	3.97	10:47	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	04/08/2015	11.12	7.55	-	-	-	9.87	3.57	9:46	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	04/13/2015	11.12	7.63	-	-	-	-	3.49	10:18	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	04/23/2015	11.12	6.70	-	-	-	9.85	4.42	11:00	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	04/29/2015	11.12	7.15	-	-	-	9.85	3.97	13:34	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	05/04/2015	11.12	7.23	-	-	-	-	3.89	11:17	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	05/11/2015	11.12	7.43	-	-	-	9.85	3.69	14:51	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	05/12/2015	11.12	7.50	-	-	-	-	3.62	10:35	<0.5	<0.5	5	<0.5	<0.5	<2	<0.5	<0.5	2 J	75	-	7,800	
MW-106	05/28/2015	11.12	7.81	-	-	-	9.80	3.31	11:11	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	06/02/2015	11.12	6.66	-	-	-	-	4.46	12:38	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	

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	12/03/2015	11.12	NR	-	-	-	-	-	-	<0.5	<0.5	1	<0.5	-	-	-	-	<1	-	-	3,300	
MW-106	03/14/2016	11.12	7.33	-	-	-	9.84	3.79	9:10	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	03/15/2016	11.12	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,900	
MW-106	04/21/2016	11.12	7.85	-	-	-	9.80	3.27	9:42	-	-	-	-	-	-	-	-	-	-	-	2,000	
MW-106	05/05/2016	11.12	6.97	-	-	-	-	4.15	12:17	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	05/23/2016	11.12	6.52	-	-	-	9.80	4.60	10:21	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	05/24/2016	11.12	6.26	-	-	-	9.60	4.86	13:00	-	-	-	-	-	-	-	-	-	-	-	1,100	
MW-106	06/21/2016	11.12	7.90	-	-	-	-	3.22	9:45	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	07/21/2016	11.12	7.63	-	-	-	-	3.49	9:37	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	08/24/2016	11.12	7.90	-	-	-	9.60	3.22	9:37	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	08/25/2016	11.12	7.80	-	-	-	-	3.32	14:15	-	-	-	-	-	-	-	-	-	-	-	1,800	
MW-106	09/22/2016	11.12	7.87	-	-	-	-	3.25	14:20	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	11/28/2016	11.12	8.51	-	-	-	9.50	2.61	8:31	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	11/29/2016	11.12	8.15	-	-	-	9.45	2.97	-	<0.5	<0.5	<0.5	<0.5	-	-	-	-	<1	-	-	8,800	
MW-106	02/21/2017	11.12	DRY	-	-	-	9.50	-	12:25	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	02/22/2017	11.12	7.94	-	-	-	9.50	3.18	11:49	-	-	-	-	-	-	-	-	-	-	-	670	Very muddy
MW-106	05/22/2017	11.12	6.81	-	-	-	8.98	4.31	13:25	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	05/23/2017	11.12	6.86	-	-	-	8.89	4.26	13:40	-	-	-	-	-	-	-	-	-	-	-	414	
MW-106	08/28/2017	11.12	DRY	-	-	-	8.73	-	10:00	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	11/28/2017	11.12	DRY	-	-	-	8.80	-	10:47	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	02/20/2018	11.12	6.90	-	-	-	8.79	4.22	9:57	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	02/21/2018	11.12	6.98	-	-	-	8.79	4.14	11:20	-	-	-	-	-	-	-	-	-	-	-	560	
MW-106	05/21/2018	11.12	4.15	-	-	-	8.81	6.97	14:00	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	05/24/2018	11.12	4.55	-	-	-	8.81	6.57	8:30	-	-	-	-	-	-	-	-	-	-	-	422	
MW-106	08/13/2018	11.12	6.23	-	-	-	8.80	4.89	11:20	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	08/14/2018	11.12	6.25	-	-	-	8.80	4.87	12:23	-	-	-	-	-	-	-	-	-	-	-	<45	
MW-106	11/12/2018	11.12	5.22	-	-	-	7.81	5.90	12:59	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	11/14/2018	11.12	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-106	11/18/2019	11.12	6.73	-	-	-	8.90	4.39	13:06	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	11/20/2019	11.12	6.75	-	-	-	8.93	4.37	11:36	0.40	<0.2	<0.2	<0.8	-	-	-	-	<4	-	-	710	
MW-106	02/17/2020	11.12	5.80	-	-	-	8.90	5.32	10:25	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	02/18/2020	11.12	5.83	-	-	-	-	5.29	13:45	-	-	-	-	-	-	-	-	-	-	-	<53	
MW-106	05/11/2020	11.12	6.43	-	-	-	8.90	4.69	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-106	05/14/2020	11.12	7.17	-	-	-	-	3.95	11:48	<0.2	<0.2	<0.2	<0.5	<0.2	-	<0.3	<2	-	-	-	<53	
MW-107	08/08/2014	15.74	10.62	-	-	-	11.57	5.12	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-107	08/11/2014	15.74	9.02	-	-	-	-	6.72	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-107	08/15/2014	15.74	8.94	-	-	-	-	6.80	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-107	08/16/2014	15.74	8.93	-	-	-	11.57	6.81	-	-	-	-	-	-	-	-	-	-	-	-	8,540	
MW-107	08/18/2014	15.74	8.89	-	-	-	-	6.85	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-107	08/25/2014	15.74	8.38	-	-	-	-	7.36	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-107	09/02/2014	15.74	8.43	-	-	-	-	7.31	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-107	09/15/2014	15.74	9.39	-	-	-	-	6.35	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-107	09/22/2014	15.74	9.92	-	-	-	-	5.82	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-107	10/01/2014	15.74	10.32	-	-	-	11.03	5.42	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-107	10/10/2014	15.74	10.53	-	-	-	-	5.21	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-107	10/13/2014	15.74	10.67	-	-	-	-	5.07	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-107	10/20/2014	15.74	8.43	-	-	-	11.04	7.31	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-107	10/22/2014	15.74	NR	-	-	-	-	-	-	<0.5	<0.5	2	2	<0.5	<2	<0.5	<0.5	0.9	49	-	840	
MW-107	10/27/2014	15.74	7.97	-	-	-	-	7.77	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-107	11/07/2014	15.74	8.32	-	-	-	-	7.42	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-107	11/12/2014	15.74	8.63	-	-	-	-	7.11	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-107	11/21/2014	15.74	9.38	-	-	-	-	6.36	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-107	11/26/2014	15.74	8.93	-	-	-	-	6.81	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-107	12/05/2014	15.74	7.47	-	-	-	-	8.27	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-107	12/11/2014	15.74	7.43	-	-	-	-	8.31	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-107	12/16/2014	15.74	8.28	-	-	-	-	7.46	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-107	12/23/2014	15.74	8.35	-	-	-	-	7.39	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-107	12/30/2014	15.74	8.20	-	-	-	-	7.54	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-107	01/09/2015	15.74	8.03	-	-	-	-	7.71	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-107	01/16/2015	15.74	7.68	-	-	-	-	8.06	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-107	01/19/2015	15.74	6.76	-	-	-	-	8.98	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-107	01/26/2015	15.74	5.84	-	-	-	-	9.90	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-107	02/03/2015	15.74	8.63	-	-	-	11.04	7.11	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-107	02/09/2015	15.74	8.73	-	-	-	-	7.01	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-107	02/18/2015	15.74	9.21	-	-	-	-	6.53	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-107	02/24/2015	15.74	9.78	-	-	-	11.00	5.96	13:23	-	-	-	-	-	-	-	-	-	-	-	-	
MW-107	02/25/2015	15.74	9.64	-	-	-	11.00	6.10	11:40	1	<0.5	0.7	0.7	<0.5	<2	<0.5	<0.5	-	37	-	480	
MW-107	03/04/2015	15.74	9.48	-	-	-	-	6.26	13:55	-	-	-	-	-	-	-	-	-	-	-	-	
MW-107	03/11/2015	15.74	4.08	-	-	-	-	11.66	12:22	-	-	-	-	-	-	-	-	-	-	-	-	
MW-107	03/18/2015	15.74	7.44	-	-	-	-	8.30	10:45	-	-	-	-	-	-	-	-	-	-	-	-	
MW-107	03/26/2015	15.74	8.98	-	-	-	11.00	6.76	11:05	-	-	-	-	-	-	-	-	-	-	-	-	
MW-107	04/02/2015	15.74	8.63	-	-	-	11.00	7.11	10:49	-	-	-	-	-	-	-	-	-	-	-	-	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes, Total (µg/L)	Methyl tert-butyl ether (µg/L)	tert-Butyl alcohol (µg/L)	1,2-Dibromoethane (µg/L)	1,2-Dichloroethane (µg/L)	Naphthalene (µg/L)	TPH-GRO (µg/L)	TPH-DRO - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
MW-107	04/08/2015	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
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-107	11/18/2019	15.74	10.60	-	-	-	11.05	5.14	13:03	-	-	-	-	-	-	-	-	-	-	-	-	Insufficient GW Vol.
MW-107	02/17/2020	15.74	8.24	-	-	-	11.02	7.50	10:28	-	-	-	-	-	-	-	-	-	-	-	-	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes, Total (µg/L)	Methyl tert-butyl ether (µg/L)	tert-Butyl alcohol (µg/L)	1,2-Dibromoethane (µg/L)	1,2-Dichloroethane (µg/L)	Naphthalene (µg/L)	TPH-GRO (µg/L)	TPH-DRO - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
MW-107	05/11/2020	15.74	8.38	-	-	-	11.04	7.36	12:37	-	-	-	-	-	-	-	-	-	-	-	-	
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
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	-	-	-	-	-	-	-	-	-	-	-	-	DRY
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	-	-	-	-	-	-	-	-	-	-	-	-	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes, Total (µg/L)	Methyl tert-butyl ether (µg/L)	tert-Butyl alcohol (µg/L)	1,2-Dibromoethane (µg/L)	1,2-Dichloroethane (µg/L)	Naphthalene (µg/L)	TPH-GRO (µg/L)	TPH-DRO - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
MW-108	08/19/2019	15.61	DRY	-	-	-	9.27	-	10:11	-	-	-	-	-	-	-	-	-	-	-	-	DRY
MW-108	11/18/2019	15.61	DRY	-	-	-	9.23	-	13:00	-	-	-	-	-	-	-	-	-	-	-	-	DRY
MW-108	02/17/2020	15.61	8.91	-	-	-	9.23	6.70	10:31	-	-	-	-	-	-	-	-	-	-	-	<53	Grab
MW-108	05/11/2020	15.61	DRY	-	-	-	9.25	-	12:41	-	-	-	-	-	-	-	-	-	-	-	-	DRY
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	
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-109S	11/18/2019	19.27	10.25	-	-	-	12.24	9.02	12:46	-	-	-	-	-	-	-	-	-	-	-	-	
MW-109S	11/19/2019	19.27	10.28	-	-	-	-	8.99	14:35	-	-	-	-	-	-	-	-	-	-	-	2,500	
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	-	-	-	-	-	-	-	-	-	-	-	-	-	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes, Total (µg/L)	Methyl tert-butyl ether (µg/L)	tert-Butyl alcohol (µg/L)	1,2-Dibromoethane (µg/L)	1,2-Dichloroethane (µg/L)	Naphthalene (µg/L)	TPH-GRO (µg/L)	TPH-DRO - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
MW-109	11/21/2014	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-109	11/18/2019	19.16	14.30	-	-	-	22.70	4.86	12:42	-	-	-	-	-	-	-	-	-	-	-	-	
MW-109	11/19/2019	19.16	14.23	-	-	-	-	4.93	13:55	-	-	-	-	-	-	-	-	-	-	-	<53	
MW-110S	08/25/2014	19.13	10.05	-	-	-	12.70	9.08	-	-	-	-	-	-	-	-	-	-	-	-	6,630	
MW-110S	09/15/2014	19.13	10.23	-	-	-	-	8.90	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-110S	09/22/2014	19.13	10.28	-	-	-	-	8.85	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-110S	10/01/2014	19.13	10.33	-	-	-	12.65	8.80	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-110S	10/10/2014	19.13	10.41	-	-	-	-	8.72	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-110S	10/20/2014	19.13	10.45	-	-	-	12.66	8.68	-	-	-	-	-	-	-	-	-	-	-	-	8,500	
MW-110S	10/27/2014	19.13	10.48	-	-	-	-	8.65	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-110S	11/07/2014	19.13	10.50	-	-	-	-	8.63	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-110S	11/12/2014	19.13	10.53	-	-	-	-	8.60	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-110S	11/21/2014	19.13	10.60	-	-	-	-	8.53	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-110S	11/26/2014	19.13	10.60	-	-	-	-	8.53	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-110S	02/24/2015	19.13	11.53	-	-	-	12.67	7.60	13:49	-	-	-	-	-	-	-	-	-	-	-	-	
MW-110S	02/26/2015	19.13	11.59	-	-	-	12.67	7.54	10:33	-	-	-	-	-	-	-	-	-	-	-	6,700	
MW-110S	05/11/2015	19.13	12.24	-	-	-	12.65	6.89	14:56	-	-	-	-	-	-	-	-	-	-	-	-	
MW-110S	05/12/2015	19.13	12.24	-	-	-	12.65	6.89	9:47	-	-	-	-	-	-	-	-	-	-	-	2,300	
MW-110S	05/21/2015	19.13	11.55	-	-	-	12.67	7.58	12:38	-	-	-	-	-	-	-	-	-	-	-	-	
MW-110S	11/28/2016	19.13	11.98	-	-	-	12.70	7.15	9:19	-	-	-	-	-	-	-	-	-	-	-	5,900	
MW-110S	11/28/2017	19.13	12.27	-	-	-	12.70	6.86	12:31	-	-	-	-	-	-	-	-	-	-	-	-	
MW-110S	11/29/2017	19.13	12.28	-	-	-	12.70	6.85	9:59	-	-	-	-	-	-	-	-	-	-	44,400	-	Insufficient GW Vol. to analyze for TPH-DRO
MW-110S	11/12/2018	19.13	9.17	-	-	-	12.70	9.96	12:22	-	-	-	-	-	-	-	-	-	-	-	-	
MW-110S	11/13/2018	19.13	9.13	-	-	-	12.70	10.00	10:41	-	-	-	-	-	-	-	-	-	-	-	460	
MW-110S	11/18/2019	19.13	10.32	-	-	-	12.70	8.81	12:35	-	-	-	-	-	-	-	-	-	-	-	-	
MW-110S	11/20/2019	19.13	10.35	-	-	-	-	8.78	10:10	-	-	-	-	-	-	-	-	-	-	-	720	
MW-110	08/25/2014	19.51	14.70	-	-	-	24.40	4.81	-	-	-	-	-	-	-	-	-	-	-	-	<153	

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	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	-	-	-	-	-	-	-	-	-	-	-	-	
MW-110	11/13/2018	19.51	13.58	-	-	-	23.60	5.93	10:44	-	-	-	-	-	-	-	-	-	-	-	<53	
MW-110	11/18/2019	19.51	14.16	-	-	-	23.47	5.35	12:38	-	-	-	-	-	-	-	-	-	-	-	-	
MW-110	11/20/2019	19.51	14.38	-	-	-	-	5.13	9:25	-	-	-	-	-	-	-	-	-	-	-	<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-111	11/18/2019	19.17	13.82	-	-	-	21.55	5.35	12:25	-	-	-	-	-	-	-	-	-	-	-	-	
MW-111	11/19/2019	19.17	13.80	-	-	-	-	5.37	11:30	-	-	-	-	-	-	-	-	-	-	-	<53	
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	-	-	-	-	-	-	-	-	-	-	-	-	-	

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-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-112S	11/18/2019	19.22	10.31	-	-	-	12.45	8.91	12:50	-	-	-	-	-	-	-	-	-	-	-	-	
MW-112S	11/19/2019	19.22	10.35	-	-	-	-	8.87	13:00	-	-	-	-	-	-	-	-	-	-	-	3,100	
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	-	-	-	-	-	-	-	-	-	-	-	-	-	
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-112	11/18/2019	19.08	14.00	-	-	-	22.82	5.08	12:20	-	-	-	-	-	-	-	-	-	-	-	-	
MW-112	11/19/2019	19.08	13.92	-	-	-	-	5.16	12:12	-	-	-	-	-	-	-	-	-	-	-	<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	

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-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-113	11/18/2019	19.11	12.96	-	-	-	22.80	6.15	12:30	-	-	-	-	-	-	-	-	-	-	-	-	
MW-113	11/19/2019	19.11	12.93	-	-	-	-	6.18	10:51	-	-	-	-	-	-	-	-	-	-	-	<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	
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-114	11/18/2019	19.26	13.75	-	-	-	22.73	5.51	12:15	-	-	-	-	-	-	-	-	-	-	-	-	
MW-114	11/19/2019	19.26	13.75	-	-	-	-	5.51	10:01	-	-	-	-	-	-	-	-	-	-	-	<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	-	-	-	-	-	-	-	-	-	-	-	-	

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	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	
MW-121	02/21/2017	31.43	27.87	-	-	-	36.37	3.56	12:12	-	-	-	-	-	-	-	-	-	-	-	-	
MW-121	02/22/2017	31.43	29.66	-	-	-	-	1.77	9:49	-	-	-	-	-	-	-	-	-	-	-	720,000	
MW-121	03/07/2017	31.43	29.10	-	-	-	36.35	2.33	11:13	-	-	-	-	-	-	-	-	<1	-	-	21,000	
MW-121	05/22/2017	31.43	26.60	-	-	-	-	4.83	13:04	-	-	-	-	-	-	-	-	-	-	-	-	
MW-121	05/24/2017	31.43	26.17	-	-	-	36.35	5.26	9:55	0.38	<1	0.81 J	<1	-	-	-	-	12.50	-	-	57,100	
MW-121	08/28/2017	31.43	32.50	-	-	-	36.35	-1.07	9:22	-	-	-	-	-	-	-	-	-	-	-	-	
MW-121	08/29/2017	31.43	32.40	-	-	-	36.35	-0.97	10:56	-	-	-	-	-	-	-	-	<0.66	-	5,030	4,600	
MW-121	11/28/2017	31.43	30.61	-	-	-	38.47	0.82	10:59	-	-	-	-	-	-	-	-	-	-	-	-	
MW-121	11/29/2017	31.43	30.32	-	-	-	36.34	1.11	10:58	<0.50	<1.0	<1.0	<1.0	-	-	-	-	<5.0	-	18,400	15,900	
MW-121	02/20/2018	31.43	28.30	-	-	-	38.21	3.13	9:59	-	-	-	-	-	-	-	-	-	-	-	-	
MW-121	02/22/2018	31.43	28.65	-	-	-	36.40	2.78	9:10	-	-	-	-	-	-	-	-	-	-	2,860	3,180	
MW-121	05/24/2018	31.43	26.23	-	-	-	36.35	5.20	8:06	-	-	-	-	-	-	-	-	-	-	-	51,400	
MW-121	06/26/2018	31.43	26.22	-	-	-	36.27	5.21	9:32	-	-	-	-	-	-	-	-	-	-	1,700 B	32,200	
MW-121	08/13/2018	31.43	25.92	-	-	-	36.40	5.51	12:05	-	-	-	-	-	-	-	-	-	-	-	-	
MW-121	08/15/2018	31.43	27.62	-	-	-	38.92	3.81	10:51	-	-	-	-	-	-	-	-	-	-	-	44,000	
MW-121	11/12/2018	31.43	25.82	-	-	-	36.38	5.61	12:53	-	-	-	-	-	-	-	-	-	-	-	-	
MW-121	11/14/2018	31.43	26.23	-	-	-	36.38	5.20	10:27	<0.2	<0.2	<0.2	<0.5	-	-	-	-	<4	-	-	7,900	
MW-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	

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	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-121	11/18/2019	31.43	25.88	-	-	-	36.34	5.55	12:24	-	-	-	-	-	-	-	-	-	-	-	-	
MW-121	11/20/2019	31.43	26.22	-	-	-	-	5.21	11:05	<0.2	<0.2	<0.2	<0.8	-	-	-	-	6 J	-	-	15,000	
MW-121	11/21/2019	31.43	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	33,000	Grab
MW-121	02/17/2020	31.43	26.61	-	-	-	36.86	4.82	10:24	-	-	-	-	-	-	-	-	-	-	-	11,000	
MW-121	02/17/2020	31.43	-	-	-	-	-	-	14:15	-	-	-	-	-	-	-	-	-	-	-	28,000	Grab
MW-121	05/11/2020	31.43	27.01	-	-	-	-	4.42	13:10	<0.2	0.6 J	<0.2	<0.5	<0.2	-	<0.3	<2	-	-	-	17,000	
MW-121	05/12/2020	31.43	-	-	-	-	-	-	10:00	-	-	-	-	-	-		-	-	-	-	27,000	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	-	-	-	-	-	-	-	-	-	-	-	-	
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	

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	09/22/2016	31.64	27.03	-	-	-	-	4.61	14:00	-	-	-	-	-	-	-	-	-	-	-	-	
MW-122	11/28/2016	31.64	27.24	-	-	-	35.80	4.40	8:55	-	-	-	-	-	-	-	-	-	-	-	-	
MW-122	11/29/2016	31.64	27.28	-	-	-	34.78	4.36	9:30	2	<0.5	<0.5	<0.5	-	-	-	-	<1	-	-	1,300	
MW-122	02/21/2017	31.64	27.60	-	-	-	34.80	4.04	12:09	-	-	-	-	-	-	-	-	-	-	-	-	
MW-122	02/22/2017	31.64	27.36	-	-	-	-	4.28	9:46	-	-	-	-	-	-	-	-	-	-	-	1,900	
MW-122	05/22/2017	31.64	26.61	-	-	-	-	5.03	13:06	-	-	-	-	-	-	-	-	-	-	-	-	
MW-122	05/24/2017	31.64	25.52	-	-	-	34.70	6.12	9:50	-	-	-	-	-	-	-	-	-	-	-	5,340	
MW-122	08/28/2017	31.64	32.76	-	-	-	34.80	-1.12	9:27	-	-	-	-	-	-	-	-	-	-	-	-	
MW-122	08/29/2017	31.64	32.72	-	-	-	34.80	-1.08	11:00	-	-	-	-	-	-	-	-	-	-	-	-	
MW-122	08/30/2017	31.64	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,780	
MW-122	11/28/2017	31.64	30.61	-	-	-	37.25	1.03	11:02	-	-	-	-	-	-	-	-	-	-	-	-	
MW-122	11/29/2017	31.64	30.42	-	-	-	37.25	1.22	10:55	<0.50	0.47 J	0.84 J	1.4	-	-	-	-	<5.0	-	-	950	
MW-122	02/20/2018	31.64	28.39	-	-	-	37.83	3.25	10:01	-	-	-	-	-	-	-	-	-	-	-	-	
MW-122	02/22/2018	31.64	28.55	-	-	-	34.80	3.09	9:05	-	-	-	-	-	-	-	-	-	-	-	6,280	
MW-122	05/24/2018	31.64	26.33	-	-	-	34.82	5.31	8:03	-	-	-	-	-	-	-	-	-	-	-	11,200	
MW-122	06/26/2018	31.64	26.22	-	-	-	36.27	5.42	9:43	-	-	-	-	-	-	-	-	-	-	-	-	
MW-122	08/13/2018	31.64	26.07	-	-	-	34.83	5.57	12:02	-	-	-	-	-	-	-	-	-	-	-	-	
MW-122	08/15/2018	31.64	26.22	-	-	-	37.13	5.42	11:29	-	-	-	-	-	-	-	-	-	-	-	2,600	
MW-122	11/12/2018	31.64	25.90	-	-	-	34.83	5.74	12:50	-	-	-	-	-	-	-	-	-	-	-	-	
MW-122	11/14/2018	31.64	26.15	-	-	-	34.83	5.49	10:23	<0.2	<0.2	0.9 J	1 J	-	-	-	-	<4	-	-	6,300	
MW-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-122	11/18/2019	31.64	25.98	-	-	-	34.73	5.66	12:32	-	-	-	-	-	-	-	-	-	-	-	-	
MW-122	11/19/2019	31.64	26.20	-	-	-	-	5.44	12:25	<0.2	<0.2	<0.2	<0.8	-	-	-	-	<4	-	-	1,200	
MW-122	02/17/2020	31.64	26.51	-	-	-	34.72	5.13	10:16	-	-	-	-	-	-	-	-	-	-	-	-	
MW-122	02/18/2020	31.64	26.52	-	-	-	-	5.12	10:30	-	-	-	-	-	-	-	-	-	-	-	920	
MW-122	05/11/2020	31.64	27.06	-	-	-	36.71	4.58	12:48	-	-	-	-	-	-	-	-	-	-	-	-	
MW-122	05/12/2020	31.43	27.84	-	-	-	-	3.59	10:25	<0.2	<0.2	<0.2	<0.5	<0.2	-	<0.3	<2	-	-	-	840	
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	-	-	-	-	-	-	-	-	-	-	-	-	

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	08/24/2015	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	
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	-	-	-	-	-	-	-	-	-	-	-	-	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes, Total (µg/L)	Methyl tert-butyl ether (µg/L)	tert-Butyl alcohol (µg/L)	1,2-Dibromoethane (µg/L)	1,2-Dichloroethane (µg/L)	Naphthalene (µg/L)	TPH-GRO (µg/L)	TPH-DRO - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
MW/RW-123S	11/28/2017	33.54	23.75	-	-	-	26.57	9.79	13:43	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	11/29/2017	33.54	23.93	-	-	-	26.50	9.61	14:16	-	-	-	-	-	-	-	-	-	-	10,600	11,900	
MW/RW-123S	12/05/2017	33.54	24.03	-	-	-	-	9.51	10:23	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	12/19/2017	33.54	24.25	-	-	-	-	9.29	10:30	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	01/03/2018	33.54	24.48	-	-	-	-	9.06	12:23	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	01/26/2018	33.54	24.91	-	-	-	-	8.63	11:37	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	02/01/2018	33.54	24.83	-	-	-	-	8.71	10:37	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	02/20/2018	33.54	23.32	-	-	-	26.56	10.22	12:29	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	02/22/2018	33.54	24.40	-	-	-	26.61	9.14	11:19	-	-	-	-	-	-	-	-	-	-	363	11,900	
MW/RW-123S	03/06/2018	33.54	23.70	-	-	-	-	9.84	11:51	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	03/29/2018	33.54	23.45	-	-	-	-	10.09	10:12	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	04/11/2018	33.54	23.85	-	-	-	-	9.69	11:24	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	04/23/2018	33.54	23.78	-	-	-	-	9.76	10:00	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	05/03/2018	33.54	23.84	-	-	-	-	9.70	9:40	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	05/03/2018	31.22	22.34	-	-	-	-	8.88	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	05/21/2018	31.22	22.07	-	-	-	24.97	9.15	9:44	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	05/22/2018	31.22	21.99	-	-	-	24.97	9.23	9:33	-	-	-	-	-	-	-	-	-	-	-	23,600	
MW/RW-123S	06/12/2018	31.22	21.76	-	-	-	-	9.46	10:33	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	06/26/2018	31.22	22.71	-	-	-	24.93	8.51	10:09	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	07/02/2018	31.22	21.82	-	-	-	-	9.40	11:04	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	07/17/2018	31.22	22.03	-	-	-	-	9.19	9:32	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	07/30/2018	31.22	20.60	-	-	-	-	10.62	10:23	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	08/09/2018	31.22	20.97	-	-	-	-	10.25	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	08/13/2018	31.22	20.12	-	-	-	24.97	11.10	12:18	-	-	-	-	-	-	-	-	-	-	-	28,000	
MW/RW-123S	09/04/2018	31.22	20.41	-	-	-	-	10.81	9:30	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	09/25/2018	31.22	26.73	-	-	-	-	-	13:42	-	-	-	-	-	-	-	-	-	-	-	-	See Notes
MW/RW-123S	10/02/2018	31.22	22.23	-	-	-	26.83	-	9:50	-	-	-	-	-	-	-	-	-	-	-	-	See Notes
MW/RW-123S	10/24/2018	31.22	26.75	-	-	-	26.80	-	9:43	-	-	-	-	-	-	-	-	-	-	-	-	See Notes
MW/RW-123S	11/12/2018	33.00	22.60	-	-	-	-	10.40	10:37	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	11/13/2018	33.00	22.57	-	-	-	-	10.43	9:50	-	-	-	-	-	-	-	-	-	-	-	6,400	
MW/RW-123S	11/27/2018	33.00	22.33	-	-	-	-	10.67	9:19	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	12/11/2018	33.00	22.93	-	-	-	-	10.07	9:20	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	12/27/2018	33.00	22.84	-	-	-	-	10.16	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	01/10/2019	33.00	22.82	-	-	-	-	10.18	10:59	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	

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	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	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	10/01/2019	33.00	25.48	-	-	-	-	7.52	9:32	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	11/18/2019	31.22	22.45	-	-	-	24.42	8.77	10:58	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	11/21/2019	31.22	22.60	-	-	-	-	8.62	13:17	-	-	-	-	-	-	-	-	-	-	-	5,000	
MW/RW-123S	12/05/2019	31.22	22.65	-	-	-	-	8.57	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	01/14/2020	31.22	22.57	-	-	-	-	8.65	11:20	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	02/17/2020	31.22	22.67	-	-	-	24.99	8.55	11:31	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	02/19/2020	31.22	22.65	-	-	-	-	8.57	10:24	-	-	-	-	-	-	-	-	-	-	-	3,400	
MW/RW-123S	03/10/2020	31.22	22.83	-	-	-	-	8.39	8:57	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	05/11/2020	31.22	22.07	-	-	-	24.92	9.15	11:50	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	05/12/2020	31.22	22.17	-	-	-	-	9.05	13:48	<0.2	<0.2	<0.2	<0.5	<0.2	-	<0.3	<2	-	-	-	4,200	
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	-	-	-	-	-	-	-	-	-	-	-	-	-	

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	01/09/2015	31.19	27.37	-	-	-	-	3.82	-	-	-	-	-	-	-	-	-	-	-	-	-	
RW-1	01/16/2015	31.19	27.08	-	-	-	-	4.11	-	-	-	-	-	-	-	-	-	-	-	-	-	
RW-1	01/19/2015	31.19	27.07	-	-	-	-	4.12	-	-	-	-	-	-	-	-	-	-	-	-	-	
RW-1	01/26/2015	31.19	27.03	-	-	-	-	4.16	-	-	-	-	-	-	-	-	-	-	-	-	-	
RW-1	02/03/2015	31.19	27.80	-	-	-	40.75	3.39	-	-	-	-	-	-	-	-	-	-	-	-	-	
RW-1	02/09/2015	31.19	27.18	-	-	-	-	4.01	-	-	-	-	-	-	-	-	-	-	-	-	-	
RW-1	02/18/2015	31.19	27.22	-	-	-	-	3.97	-	-	-	-	-	-	-	-	-	-	-	-	-	
RW-1	02/24/2015	31.19	27.42	-	-	-	40.35	3.77	13:49	-	-	-	-	-	-	-	-	-	-	-	-	
RW-1	02/26/2015	31.19	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6,200	
RW-1	03/04/2015	31.19	27.27	-	-	-	-	3.92	14:12	-	-	-	-	-	-	-	-	-	-	-	-	
RW-1	03/11/2015	31.19	26.90	-	-	-	-	4.29	12:42	-	-	-	-	-	-	-	-	-	-	-	-	
RW-1	03/18/2015	31.19	27.04	-	-	-	-	4.15	11:02	-	-	-	-	-	-	-	-	-	-	-	-	
RW-1	03/26/2015	31.19	26.87	-	-	-	40.70	4.32	11:35	-	-	-	-	-	-	-	-	-	-	-	-	
RW-1	04/02/2015	31.19	27.02	-	-	-	40.60	4.17	11:23	-	-	-	-	-	-	-	-	-	-	-	-	
RW-1	04/08/2015	31.19	27.30	-	-	-	40.55	3.89	8:45	-	-	-	-	-	-	-	-	-	-	-	-	
RW-1	04/13/2015	31.19	27.18	-	-	-	-	4.01	10:38	-	-	-	-	-	-	-	-	-	-	-	-	
RW-1	04/23/2015	31.19	26.67	-	-	-	40.65	4.52	11:52	-	-	-	-	-	-	-	-	-	-	-	-	
RW-1	04/29/2015	31.19	26.87	-	-	-	40.70	4.32	14:19	-	-	-	-	-	-	-	-	-	-	-	-	
RW-1	05/04/2015	31.19	26.72	-	-	-	-	4.47	11:36	-	-	-	-	-	-	-	-	-	-	-	-	
RW-1	05/11/2015	31.19	26.70	-	-	-	40.78	4.49	15:03	-	-	-	-	-	-	-	-	-	-	-	-	
RW-1	05/12/2015	31.19	26.92	-	-	-	40.63	4.27	14:15	-	-	-	-	-	-	-	-	-	-	-	8,400	
RW-1	05/21/2015	31.19	26.90	-	-	-	40.70	4.29	12:20	-	-	-	-	-	-	-	-	-	-	-	-	
RW-1	05/28/2015	31.19	27.11	-	-	-	40.60	4.08	11:43	-	-	-	-	-	-	-	-	-	-	-	-	
RW-1	06/02/2015	31.19	26.79	-	-	-	-	4.40	13:01	-	-	-	-	-	-	-	-	-	-	-	-	
RW-1	06/09/2015	31.19	26.57	-	-	-	-	4.62	10:27	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	

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	08/24/2016	31.19	27.42	-	-	-	40.70	3.77	10:00	-	-	-	-	-	-	-	-	-	-	-	1,500	
RW-1	11/28/2016	31.19	27.68	-	-	-	41.93	3.51	8:52	-	-	-	-	-	-	-	-	-	-	-	-	
RW-1	11/29/2016	31.19	27.45	-	-	-	40.78	3.74	9:40	-	-	-	-	-	-	-	-	-	-	-	970	
RW-1	02/21/2017	31.19	28.11	-	-	-	40.80	3.08	11:55	-	-	-	-	-	-	-	-	-	-	-	-	
RW-1	02/22/2017	31.19	28.17	-	-	-	-	3.02	9:56	-	-	-	-	-	-	-	-	-	-	-	4,000	Sheen during purge
RW-1	03/29/2017	31.19	26.13	-	-	-	27.90	5.06	-	-	-	-	-	-	-	-	-	-	-	-	-	
RW-1	05/22/2017	31.19	26.81	-	-	-	-	4.38	13:00	-	-	-	-	-	-	-	-	-	-	-	-	
RW-1	05/24/2017	31.19	26.50	-	-	-	46.65	4.69	10:00	-	-	-	-	-	-	-	-	-	-	-	36,100	
RW-1	08/28/2017	31.19	32.83	-	-	-	40.71	-1.64	9:17	-	-	-	-	-	-	-	-	-	-	-	-	
RW-1	08/29/2017	31.19	32.73	-	-	-	40.70	-1.54	10:50	-	-	-	-	-	-	-	-	<0.66	-	11,300	15,300	
RW-1	11/28/2017	31.19	30.84	-	-	-	43.65	0.35	11:11	-	-	-	-	-	-	-	-	-	-	-	-	
RW-1	11/29/2017	31.19	30.57	-	-	-	40.75	0.62	11:05	-	-	-	-	-	-	-	-	-	-	4,920	6,640	
RW-1	02/20/2018	31.19	28.52	-	-	-	43.08	2.67	9:55	-	-	-	-	-	-	-	-	-	-	-	-	
RW-1	02/22/2018	31.19	28.87	-	-	-	40.75	2.32	9:15	-	-	-	-	-	-	-	-	-	-	6,850	5,200	
RW-1	05/22/2018	31.19	26.55	-	-	-	40.73	4.64	9:59	-	-	-	-	-	-	-	-	-	-	-	7,980	
RW-1	08/13/2018	31.19	26.22	-	-	-	40.62	4.97	11:57	-	-	-	-	-	-	-	-	-	-	-	-	
RW-1	08/15/2018	31.19	26.75	-	-	-	43.53	4.44	12:07	-	-	-	-	-	-	-	-	-	-	-	120,000	
RW-1	11/12/2018	31.19	26.22	-	-	-	40.74	4.97	13:00	-	-	-	-	-	-	-	-	-	-	-	-	
RW-1	11/14/2018	31.19	26.50	-	-	-	40.74	4.69	10:31	-	-	-	-	-	-	-	-	-	-	-	7,100	
RW-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-1	11/18/2019	31.19	26.26	-	-	-	40.52	4.93	12:19	-	-	-	-	-	-	-	-	-	-	-	-	
RW-1	11/21/2019	31.19	26.92	-	-	-	-	4.27	14:07	-	-	-	-	-	-	-	-	-	-	-	2,700	
RW-1	02/17/2020	31.19	26.88	-	-	-	40.68	4.31	10:30	-	-	-	-	-	-	-	-	-	-	-	-	
RW-1	02/19/2020	31.19	26.76	-	-	-	-	4.43	9:00	-	-	-	-	-	-	-	-	-	-	-	2,400	
RW-1	05/11/2020	31.19	27.32	-	-	-	41.71	3.87	12:55	-	-	-	-	-	-	-	-	-	-	-	-	
RW-1	05/12/2020	31.19	28.10	-	-	-	-	3.09	13:43	<0.2	<0.2	<0.2	<0.5	<0.2	-	<0.3	<2	-	-	-	2,900	
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	-	-	-	-	-	-	-	-	-	-	-	-	

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	09/02/2015	31.38	22.47	-	-	-	26.05	8.91	9:49	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	09/09/2015	31.38	22.60	-	-	-	26.07	8.78	10:25	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	09/17/2015	31.38	22.69	-	-	-	26.07	8.69	10:30	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	09/23/2015	31.38	22.69	-	-	-	-	8.69	10:37	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	09/28/2015	31.38	22.78	-	-	-	26.07	8.60	9:26	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	10/05/2015	31.38	22.71	-	-	-	26.20	8.67	9:15	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	11/10/2015	31.38	25.07	-	-	-	-	6.31	13:05	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	12/01/2015	33.47	25.36	-	-	-	28.15	8.11	11:51	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	12/02/2015	33.47	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17,000	
RW-05S	01/27/2016	33.47	26.23	-	-	-	-	7.24	10:40	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	02/15/2016	33.47	25.44	-	-	-	-	8.03	10:27	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	03/14/2016	33.47	25.21	-	-	-	28.20	8.26	11:40	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	03/15/2016	33.47	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15,000	
RW-05S	04/21/2016	33.47	20.05	-	-	-	27.95	13.42	11:13	-	-	-	-	-	-	-	-	-	-	-	19,000	
RW-05S	05/23/2016	33.47	25.78	-	-	-	27.97	7.69	11:24	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	05/24/2016	33.47	25.18	-	-	-	28.10	8.29	9:30	-	-	-	-	-	-	-	-	-	-	-	59,000	
RW-05S	06/21/2016	33.47	25.83	-	-	-	-	7.64	10:46	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	07/21/2016	33.47	25.91	-	-	-	-	7.56	10:25	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	08/24/2016	33.47	25.77	-	-	-	27.95	7.70	11:05	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	08/25/2016	33.47	24.14	-	-	-	-	9.33	10:05	-	-	-	-	-	-	-	-	-	-	-	66,000	
RW-05S	09/22/2016	33.47	23.80	-	-	-	24.48	9.67	12:40	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	10/20/2016	33.47	24.95	-	-	-	-	8.52	11:30	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	11/28/2016	33.47	DRY	-	-	-	23.75	-	9:51	-	-	-	-	-	-	-	-	-	-	-	-	Clogged drop-tube
RW-05S	11/29/2016	33.47	DRY	-	-	-	23.65	-	12:55	-	-	-	-	-	-	-	-	-	-	-	-	Clogged drop-tube
RW-05S	12/07/2016	33.47	DRY	-	-	-	23.33	-	12:35	-	-	-	-	-	-	-	-	-	-	-	-	Clogged drop-tube
RW-05S	12/08/2016	33.47	23.60	-	-	-	26.13	9.87	10:45	-	-	-	-	-	-	-	-	-	-	-	22,000	Pulled & cleaned drop-tube
RW-05S	12/22/2016	33.47	23.28	-	-	-	26.13	10.19	10:25	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	01/30/2017	33.47	25.78	-	-	-	27.98	7.69	10:29	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	02/21/2017	33.47	25.78	-	-	-	27.80	7.69	10:03	-	-	-	-	-	-	-	-	-	-	-	180,000	
RW-05S	03/29/2017	33.47	25.87	-	-	-	27.65	7.60	11:50	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	04/18/2017	33.47	25.78	-	-	-	27.67	7.69	11:16	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	05/22/2017	33.47	24.55	-	-	-	27.55	8.92	10:32	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	

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	10/17/2017	33.47	24.79	-	-	-	-	8.68	12:04	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	11/28/2017	33.47	24.56	-	-	-	28.38	8.91	13:47	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	11/30/2017	33.47	25.05	-	-	-	27.65	8.42	12:00	-	-	-	-	-	-	-	-	-	-	189000	107,000	
RW-05S	12/19/2017	33.47	23.98	-	-	-	-	9.49	10:45	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	01/26/2018	33.47	24.58	-	-	-	-	8.89	11:55	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	02/20/2018	33.47	25.27	-	-	-	27.62	8.20	11:30	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	02/22/2018	33.47	25.32	-	-	-	27.81	8.15	10:41	-	-	-	-	-	-	-	-	-	-	3,180	25,200	
RW-05S	03/06/2018	33.47	24.63	-	-	-	-	8.84	11:40	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	03/29/2018	33.47	24.53	-	-	-	-	8.94	9:54	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	04/11/2018	33.47	24.58	-	-	-	-	8.89	11:09	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	04/23/2018	33.47	24.59	-	-	-	-	8.88	9:43	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	05/03/2018	33.47	24.57	-	-	-	-	8.90	9:34	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	05/03/2018	31.98	23.08	-	-	-	-	8.90	-	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	05/21/2018	31.98	22.83	-	-	-	26.05	9.15	10:18	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	05/22/2018	31.98	22.77	-	-	-	26.05	9.21	10:07	-	-	-	-	-	-	-	-	-	-	-	47,000	
RW-05S	06/12/2018	31.98	22.58	-	-	-	-	9.40	10:16	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	06/26/2018	31.98	22.14	-	-	-	26.12	9.84	9:40	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	07/02/2018	31.98	22.11	-	-	-	-	9.87	10:40	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	07/17/2018	31.98	22.13	-	-	-	-	9.85	9:45	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	07/30/2018	31.98	21.69	-	-	-	-	10.29	10:06	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	08/09/2018	31.98	21.53	-	-	-	-	10.45	-	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	08/13/2018	31.98	21.46	-	-	-	26.10	10.52	12:09	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	08/14/2018	31.98	21.42	-	-	-	28.09	10.56	13:03	-	-	-	-	-	-	-	-	-	-	-	85,000	
RW-05S	09/04/2018	31.98	21.27	-	-	-	-	10.71	9:53	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	09/21/2018	31.98	20.82	-	-	-	26.99	11.16	9:20	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	09/25/2018	31.98	23.33	-	-	-	-	-	13:34	-	-	-	-	-	-	-	-	-	-	-	-	See Notes
RW-05S	10/02/2018	31.98	22.43	-	-	-	27.60	-	10:00	-	-	-	-	-	-	-	-	-	-	-	-	See Notes
RW-05S	10/24/2018	31.98	27.33	-	-	-	27.72	-	9:50	-	-	-	-	-	-	-	-	-	-	-	-	See Notes
RW-05S	11/12/2018	33.48	22.76	-	-	-	-	10.72	10:24	-	-	-	-	-	-	-	-	-	-	-	15,000	
RW-05S	11/27/2018	33.48	22.63	-	-	-	-	10.85	9:33	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	12/11/2018	33.48	22.90	-	-	-	-	10.58	9:38	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	

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	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	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	10/01/2019	33.48	23.96	-	-	-	-	9.52	10:02	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	11/18/2019	31.98	22.57	-	-	-	26.86	9.41	11:37	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	11/21/2019	31.98	22.57	-	-	-	26.20	9.41	13:14	-	-	-	-	-	-	-	-	-	-	-	5,400	
RW-05S	11/22/2019	31.98	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4,900	Grab
RW-05S	12/05/2019	31.98	22.75	-	-	-	-	9.23	-	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	01/14/2020	31.98	22.88	-	-	-	-	9.10	11:33	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	02/17/2020	31.98	22.80	-	-	-	26.08	9.18	10:22	-	-	-	-	-	-	-	-	-	-	-	3,100	
RW-05S	02/18/2020	31.98	-	-	-	-	-	-	9:15	-	-	-	-	-	-	-	-	-	-	-	3,400	Grab
RW-05S	03/10/2020	31.98	22.82	-	-	-	-	9.16	9:22	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	05/11/2020	31.98	22.62	-	-	-	26.05	9.36	10:29	3	0.2 J	2	2 J	<0.2	-	<0.3	<2	-	-	-	8,900	
RW-05S	05/11/2020	31.98	-	-	-	-	-	-	14:35	-	-	-	-	-	-	-	-	-	-	-	6,300	Grab
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	-	-	-	-	-	-	-	-	-	-	-	-	-	

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	09/22/2014	31.57	23.25	22.97	0.28	0.06	-	8.57	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	09/24/2014	31.57	23.33	23.13	0.20	NR	-	8.42	-	-	-	-	-	-	-	-	-	-	-	-	-	HIT event
MW/RW-05	10/01/2014	31.57	26.67	26.67	TRACE	TRACE	31.94	4.90	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	10/10/2014	31.57	26.58	26.57	0.01	TRACE	-	5.00	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	10/13/2014	31.57	26.73	26.71	0.02	TRACE	-	4.86	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	10/20/2014	31.57	26.91	26.89	0.02	TRACE	-	4.68	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	10/27/2014	31.57	27.07	27.06	0.01	TRACE	-	4.51	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	11/07/2014	31.57	26.93	26.88	0.05	TRACE	-	4.68	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	11/12/2014	31.57	26.96	26.94	0.02	TRACE	-	4.63	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	11/21/2014	31.57	27.74	27.73	0.01	TRACE	-	3.84	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	11/26/2014	31.57	27.28	27.25	0.03	TRACE	-	4.32	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	12/05/2014	31.57	27.18	27.16	0.02	TRACE	-	4.41	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	12/11/2014	31.57	26.93	-	0.00	TRACE	-	4.64	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	12/16/2014	31.57	26.87	26.82	0.05	TRACE	-	4.74	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	12/23/2014	31.57	26.95	26.92	0.03	TRACE	-	4.65	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	12/30/2014	31.57	27.35	27.32	0.03	TRACE	-	4.25	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	01/09/2015	31.57	27.36	27.32	0.04	TRACE	-	4.25	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	01/16/2015	31.57	27.06	27.02	0.04	TRACE	-	4.55	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	01/19/2015	31.57	27.08	27.03	0.05	TRACE	-	4.53	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	01/26/2015	31.57	26.99	26.95	0.04	TRACE	-	4.62	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	02/03/2015	31.57	27.73	27.71	0.02	-	32.04	3.86	-	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-05	02/09/2015	31.57	27.23	27.17	0.06	-	-	4.39	-	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-05	02/18/2015	31.57	27.25	27.21	0.04	-	-	4.36	-	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-05	02/24/2015	31.57	27.38	27.37	0.01	TRACE	-	4.20	13:51	-	-	-	-	-	-	-	-	-	-	-	-	
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

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	06/09/2015	31.57	28.67	26.12	2.55	-	-	5.14	10:55	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-05	06/16/2015	31.57	29.17	25.86	3.31	-	-	5.31	11:48	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-05	06/26/2015	31.57	28.51	25.55	2.96	-	32.00	5.66	10:50	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-05	07/01/2015	31.57	27.93	24.65	3.28	-	-	6.52	12:39	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-05	07/08/2015	31.57	27.50	23.75	3.75	-	-	7.36	8:00	-	-	-	-	-	-	-	-	-	-	-	-	Baildown test
MW/RW-05	07/13/2015	31.57	24.16	22.98	1.18	-	-	8.45	8:10	-	-	-	-	-	-	-	-	-	-	-	-	HIT event
MW/RW-05	07/20/2015	31.57	23.03	22.69	0.34	0.09	-	8.84	9:56	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	07/28/2015	31.57	22.75	22.55	0.20	0.09	32.07	9.00	12:40	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	08/04/2015	31.57	22.92	22.63	0.29	0.06	-	8.90	12:31	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	08/11/2015	31.57	23.57	22.60	0.97	0.09	32.05	8.85	10:43	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	08/18/2015	31.57	23.74	23.02	0.72	0.38	-	8.46	10:56	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	08/21/2015	31.57	23.46	23.15	0.31	-	-	8.38	7:55	-	-	-	-	-	-	-	-	-	-	-	-	HIT event
MW/RW-05	08/24/2015	31.57	23.88	23.86	0.02	TRACE	-	7.71	11:00	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	09/02/2015	31.57	24.72	24.44	0.28	0.05	32.04	7.10	11:00	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	09/09/2015	31.57	24.60	24.39	0.21	0.06	32.05	7.15	11:20	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	09/17/2015	31.57	24.83	24.36	0.47	0.07	32.08	7.15	11:00	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	09/23/2015	31.57	24.88	24.70	0.18	0.02	-	6.85	11:23	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	09/28/2015	31.57	24.50	24.48	0.02	0.04	31.94	7.09	10:05	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	10/05/2015	31.57	24.41	24.31	0.10	0.05	32.01	7.25	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	11/10/2015	31.57	25.53	25.38	0.15	-	-	6.17	13:44	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-05	12/01/2015	32.20	26.16	25.98	0.18	-	-	6.20	13:56	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-05	01/27/2016	32.20	26.56	26.34	0.22	-	-	5.83	10:44	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
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

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	01/30/2017	32.20	27.88	-	-	-	-	4.32	12:06	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-05	02/21/2017	32.20	28.70	-	-	-	-	3.50	12:51	-	-	-	-	-	-	-	-	-	-	-	5,200	pump in well
MW/RW-05	03/29/2017	32.20	27.90	-	-	-	-	4.30	11:55	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-05	04/18/2017	32.20	28.50	-	-	-	-	3.70	12:00	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-05	05/18/2017	32.20	18.95	-	-	-	-	13.25	-	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-05	05/22/2017	32.20	23.24	-	-	-	-	8.96	13:02	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-05	05/23/2017	32.20	23.93	-	-	-	-	8.27	9:45	-	-	-	-	-	-	-	-	-	-	-	981	pump in well
MW/RW-05	06/22/2017	32.20	28.50	-	-	-	-	3.70	12:28	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-05	07/06/2017	32.20	28.50	-	-	-	-	3.70	13:05	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-05	07/19/2017	32.20	28.30	-	-	-	-	3.90	12:15	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-05	08/21/2017	32.20	28.35	-	-	-	-	3.85	10:05	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-05	08/28/2017	32.20	23.32	-	-	-	-	8.88	9:30	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-05	08/31/2017	32.20	23.60	-	-	-	31.33	8.60	9:36	-	-	-	-	-	-	-	-	-	-	-	31,800	pump in well
MW/RW-05	09/20/2017	32.20	28.10	-	-	-	-	4.10	10:51	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-05	10/17/2017	32.20	27.80	-	-	-	-	4.40	12:10	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-05	11/28/2017	32.20	NR	-	-	-	25.40	-	11:50	<0.50	<1.0	<1.0	<1.0	-	-	-	-	<5.0	-	27,900	6,860	pump in well
MW/RW-05	01/26/2018	32.20	18.35	-	-	-	-	13.85	12:50	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-05	02/20/2018	32.20	OBST	-	-	-	25.30	-	11:20	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-05	02/22/2018	32.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<83	273	pump in well
MW/RW-05	03/06/2018	32.20	24.55	-	-	-	-	7.65	12:31	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
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	

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	11/27/2018	33.47	23.22	-	-	-	-	10.25	9:30	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	12/11/2018	33.47	23.34	-	-	-	-	10.13	9:35	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	12/27/2018	33.47	23.35	-	-	-	-	10.12	9:37	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	01/10/2019	33.47	23.50	-	-	-	-	9.97	9:27	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	10/01/2019	33.47	25.13	-	-	-	-	8.34	10:24	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	11/18/2019	32.20	23.55	-	-	-	31.30	8.65	12:25	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	11/22/2019	32.20	23.56	-	-	-	-	8.64	11:10	2	<0.2	0.9 J	<0.8	-	-	-	-	<4	-	-	4,500	
MW/RW-05	12/05/2019	32.20	23.60	-	-	-	-	8.60	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	01/14/2020	32.20	23.72	-	-	-	-	8.48	11:30	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	02/17/2020	32.20	23.66	-	-	-	31.21	8.54	10:21	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	02/19/2020	32.20	23.77	-	-	-	-	8.43	13:17	-	-	-	-	-	-	-	-	-	-	-	3,600	
MW/RW-05	03/10/2020	32.20	23.71	-	-	-	-	8.49	9:19	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	05/11/2020	32.20	23.36	-	-	-	31.21	8.84	12:52	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	05/12/2020	32.20	23.73	-	-	-	-	8.47	11:43	4	0.2 J	2	<0.5	<0.2	-	<0.3	<2	-	-	-	3,600	
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	-	-	-	-	-	-	-	-	-	-	-	-	

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

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes, Total (µg/L)	Methyl tert-butyl ether (µg/L)	tert-Butyl alcohol (µg/L)	1,2-Dibromoethane (µg/L)	1,2-Dichloroethane (µg/L)	Naphthalene (µg/L)	TPH-GRO (µg/L)	TPH-DRO - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
RW-25S	11/28/2017	31.92	25.41	-	-	-	25.42	6.51	14:05	-	-	-	-	-	-	-	-	-	-	-	-	Insufficient GW Vol.
RW-25S	12/05/2017	31.92	DRY	-	-	-	25.33	-	10:15	-	-	-	-	-	-	-	-	-	-	-	-	
RW-25S	01/03/2018	31.92	DRY	-	-	-	25.33	-	12:10	-	-	-	-	-	-	-	-	-	-	-	-	
RW-25S	01/26/2018	31.92	DRY	-	-	-	25.33	-	11:20	-	-	-	-	-	-	-	-	-	-	-	-	
RW-25S	02/01/2018	31.92	DRY	-	-	-	25.33	-	10:30	-	-	-	-	-	-	-	-	-	-	-	-	
RW-25S	02/20/2018	31.92	23.39	-	-	-	25.41	8.53	12:14	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	

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	04/22/2019	32.44	22.86	-	-	-	-	9.58	9:09	-	-	-	-	-	-	-	-	-	-	-	-	
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-25S	10/01/2019	32.44	25.30	-	-	-	-	7.14	10:08	-	-	-	-	-	-	-	-	-	-	-	-	
RW-25S	11/18/2019	31.12	24.66	-	-	-	24.67	6.46	11:03	-	-	-	-	-	-	-	-	-	-	-	-	Insufficient GW Vol.
RW-25S	12/05/2019	31.12	24.51	-	-	-	-	6.61	-	-	-	-	-	-	-	-	-	-	-	-	-	
RW-25S	01/14/2020	31.12	DRY	-	-	-	24.63	-	12:00	-	-	-	-	-	-	-	-	-	-	-	-	
RW-25S	02/17/2020	31.12	DRY	-	-	-	24.66	-	10:33	-	-	-	-	-	-	-	-	-	-	-	-	
RW-25S	03/10/2020	31.12	DRY	-	-	-	24.68	-	9:08	-	-	-	-	-	-	-	-	-	-	-	-	
RW-25S	05/11/2020	31.12	DRY	-	-	-	24.62	-	12:56	-	-	-	-	-	-	-	-	-	-	-	-	DRY
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	-	-	-	-	-	-	-	-	-	-	-	-	

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	03/14/2016	32.99	25.74	-	-	-	28.30	7.25	12:15	-	-	-	-	-	-	-	-	-	-	-	790	
RW-28S	04/21/2016	32.99	26.84	-	-	-	28.30	6.15	10:40	-	-	-	-	-	-	-	-	-	-	-	2,300	
RW-28S	05/05/2016	32.99	25.65	-	-	-	28.32	7.34	12:52	-	-	-	-	-	-	-	-	-	-	-	-	
RW-28S	05/23/2016	32.99	25.82	-	-	-	28.32	7.17	12:15	-	-	-	-	-	-	-	-	-	-	-	-	
RW-28S	05/24/2016	32.99	25.82	-	-	-	28.32	7.17	12:15	-	-	-	-	-	-	-	-	-	-	-	3,300	
RW-28S	06/21/2016	32.99	25.65	-	-	-	-	7.34	9:53	-	-	-	-	-	-	-	-	-	-	-	-	
RW-28S	07/21/2016	32.99	25.71	-	-	-	-	7.28	9:41	-	-	-	-	-	-	-	-	-	-	-	-	
RW-28S	08/24/2016	32.99	25.62	-	-	-	28.65	7.37	11:54	-	-	-	-	-	-	-	-	-	-	-	-	
RW-28S	08/25/2016	32.99	26.56	-	-	-	-	6.43	10:55	-	-	-	-	-	-	-	-	-	-	-	2,300	
RW-28S	09/22/2016	32.99	25.82	-	-	-	28.35	7.17	12:12	-	-	-	-	-	-	-	-	-	-	-	-	
RW-28S	10/20/2016	32.99	25.79	-	-	-	-	7.20	10:58	-	-	-	-	-	-	-	-	-	-	-	-	
RW-28S	11/28/2016	32.99	25.80	-	-	-	28.61	7.19	10:51	-	-	-	-	-	-	-	-	-	-	-	1,400	
RW-28S	12/22/2016	32.99	26.05	-	-	-	28.37	6.94	-	-	-	-	-	-	-	-	-	-	-	-	-	
RW-28S	01/30/2017	32.99	25.97	-	-	-	28.35	7.02	10:07	-	-	-	-	-	-	-	-	-	-	-	-	
RW-28S	02/21/2017	32.99	26.02	-	-	-	28.30	6.97	10:18	-	-	-	-	-	-	-	-	-	-	-	39,000	
RW-28S	03/29/2017	32.99	25.86	-	-	-	28.45	7.13	12:40	-	-	-	-	-	-	-	-	-	-	-	-	
RW-28S	04/18/2017	32.99	26.58	-	-	-	28.33	6.41	11:36	-	-	-	-	-	-	-	-	-	-	-	-	
RW-28S	05/22/2017	32.99	25.85	-	-	-	28.35	7.14	11:16	-	-	-	-	-	-	-	-	-	-	-	-	
RW-28S	05/23/2017	32.99	24.24	-	-	-	28.30	8.75	11:05	-	-	-	-	-	-	-	-	-	-	-	24,400	
RW-28S	06/22/2017	32.99	27.10	-	-	-	28.20	5.89	11:50	-	-	-	-	-	-	-	-	-	-	-	-	
RW-28S	07/19/2017	32.99	27.00	-	-	-	28.12	5.99	11:39	-	-	-	-	-	-	-	-	-	-	-	-	
RW-28S	08/21/2017	32.99	25.88	-	-	-	27.94	7.11	9:23	-	-	-	-	-	-	-	-	-	-	-	-	
RW-28S	08/28/2017	32.99	26.90	-	-	-	27.95	6.09	11:37	-	-	-	-	-	-	-	-	-	-	-	-	
RW-28S	08/31/2017	32.99	26.59	-	-	-	28.00	6.40	9:10	-	-	-	-	-	-	-	-	<0.66	-	1,650	8,370	
RW-28S	09/20/2017	32.99	27.03	-	-	-	-	5.96	10:04	-	-	-	-	-	-	-	-	-	-	-	-	
RW-28S	10/17/2017	32.99	27.46	-	-	-	-	5.53	11:25	-	-	-	-	-	-	-	-	-	-	-	-	
RW-28S	11/28/2017	32.99	DRY	-	-	-	27.95	-	14:14	-	-	-	-	-	-	-	-	-	-	-	-	
RW-28S	11/29/2017	32.99	27.28	-	-	-	28.02	5.71	15:30	-	-	-	-	-	-	-	-	-	-	-	-	Insufficient GW Vol.
RW-28S	12/19/2017	32.99	27.52	-	-	-	-	5.47	10:40	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	

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	10/01/2019	31.55	25.73	-	-	-	-	5.82	9:43	-	-	-	-	-	-	-	-	-	-	-	-	
RW-28S	11/18/2019	31.55	25.25	-	-	-	26.30	6.30	10:52	-	-	-	-	-	-	-	-	-	-	-	1,400	
RW-28S	12/05/2019	31.55	25.08	-	-	-	-	6.47	-	-	-	-	-	-	-	-	-	-	-	-	-	
RW-28S	01/14/2020	31.55	24.79	-	-	-	-	6.76	11:16	-	-	-	-	-	-	-	-	-	-	-	-	
RW-28S	02/17/2020	31.55	23.83	-	-	-	26.37	7.72	11:21	-	-	-	-	-	-	-	-	-	-	-	97 J	
RW-28S	03/10/2020	31.55	24.81	-	-	-	-	6.74	9:50	-	-	-	-	-	-	-	-	-	-	-	-	
RW-28S	05/11/2020	31.55	23.31	-	-	-	26.32	8.24	10:44	-	-	-	-	-	-	-	-	-	-	-	-	
RW-28S	05/12/2020	31.55	23.60	-	-	-	-	7.95	10:59	<0.2	<0.2	<0.2	<0.5	<0.2	-	<0.3	<2	-	-	-	<53	
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	

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	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	-	-	-	-	-	-	-	-	-	-	-	-	
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-30S	10/01/2019	31.32	26.23	-	-	-	-	5.09	9:36	-	-	-	-	-	-	-	-	-	-	-	-	
RW-30S	11/18/2019	31.32	26.07	-	-	-	26.77	5.25	10:55	-	-	-	-	-	-	-	-	-	-	-	130	
RW-30S	12/05/2019	31.32	25.98	-	-	-	-	5.34	-	-	-	-	-	-	-	-	-	-	-	-	-	
RW-30S	01/14/2020	31.32	26.10	-	-	-	-	5.22	11:13	-	-	-	-	-	-	-	-	-	-	-	-	
RW-30S	02/17/2020	31.32	25.83	-	-	-	26.93	5.49	11:26	-	-	-	-	-	-	-	-	-	-	-	54 J	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
RW-30S	03/10/2020	31.32	26.33	-	-	-	-	4.99	9:47	-	-	-	-	-	-	-	-	-	-	-	-	
RW-30S	05/11/2020	31.32	26.26	-	-	-	26.84	5.06	10:56	-	-	-	-	-	-	-	-	-	-	-	-	Insufficient GW Vol.
RW-116S	07/08/2015	31.80	22.48	-	-	-	-	9.32	11:28	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	07/13/2015	31.80	22.03	-	-	-	26.20	9.77	9:24	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	07/20/2015	31.80	21.77	-	-	-	-	10.03	9:10	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	07/28/2015	31.44	21.46	-	-	-	25.90	9.98	10:31	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	08/04/2015	31.44	21.55	-	-	-	25.82	9.89	13:11	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	08/05/2015	31.44	21.57	-	-	-	25.82	9.87	9:05	-	-	-	-	-	-	-	-	-	-	-	7,000	
RW-116S	08/11/2015	31.44	21.72	-	-	-	24.88	9.72	10:31	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	08/18/2015	31.44	21.79	-	-	-	-	9.65	10:13	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	08/24/2015	31.44	21.90	-	-	-	-	9.54	10:16	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	09/02/2015	31.44	22.06	-	-	-	25.86	9.38	10:05	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	09/09/2015	31.44	22.18	-	-	-	25.89	9.26	10:12	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	09/17/2015	31.44	22.31	-	-	-	25.89	9.13	10:14	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	09/23/2015	31.44	22.35	-	-	-	-	9.09	10:34	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	09/28/2015	31.44	22.42	-	-	-	25.84	9.02	9:20	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	10/05/2015	31.44	22.47	-	-	-	25.84	8.97	9:31	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	11/10/2015	31.44	25.05	-	-	-	-	6.39	13:03	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	12/01/2015	33.78	25.73	-	-	-	28.20	8.05	11:20	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	12/02/2015	33.78	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11,000	
RW-116S	01/27/2016	33.78	26.53	-	-	-	-	7.25	10:29	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	02/15/2016	33.78	26.53	-	-	-	-	7.25	10:10	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	03/14/2016	33.78	26.26	-	-	-	28.18	7.52	11:35	-	-	-	-	-	-	-	-	-	-	-	7,600	
RW-116S	04/21/2016	33.78	26.33	-	-	-	28.25	7.45	11:18	-	-	-	-	-	-	-	-	-	-	-	3,000	
RW-116S	05/23/2016	33.78	26.03	-	-	-	28.25	7.75	11:20	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	05/24/2016	33.78	26.32	-	-	-	28.90	7.46	9:45	-	-	-	-	-	-	-	-	-	-	-	230,000	
RW-116S	06/21/2016	33.78	26.06	-	-	-	-	7.72	10:43	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	07/21/2016	33.78	26.02	-	-	-	-	7.76	10:22	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	08/24/2016	33.78	26.02	-	-	-	27.76	7.76	11:08	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	08/25/2016	33.78	25.10	-	-	-	-	8.68	10:15	-	-	-	-	-	-	-	-	-	-	-	6,200	
RW-116S	09/22/2016	33.78	26.07	-	-	-	27.82	7.71	12:36	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	10/20/2016	33.78	26.07	-	-	-	-	7.71	11:26	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	11/28/2016	33.78	26.09	-	-	-	28.05	7.69	11:01	-	-	-	-	-	-	-	-	-	-	-	59,000	
RW-116S	12/22/2016	33.78	26.06	-	-	-	27.85	7.72	-	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	01/30/2017	33.78	26.06	-	-	-	27.80	7.72	10:25	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	02/21/2017	33.78	26.06	-	-	-	27.17	7.72	10:05	-	-	-	-	-	-	-	-	-	-	-	510,000	
RW-116S	03/28/2017	33.15	26.02	-	-	-	27.05	7.13	12:00	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	

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

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	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-116S	10/01/2019	33.45	24.95	-	-	-	-	8.50	10:16	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	11/18/2019	31.61	22.66	-	-	-	26.28	8.95	11:12	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	11/22/2019	31.61	22.63	-	-	-	-	8.98	10:08	-	-	-	-	-	-	-	-	-	-	-	11,000	
RW-116S	12/05/2019	31.61	22.77	-	-	-	-	8.84	-	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	01/14/2020	31.61	22.96	-	-	-	-	8.65	11:36	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	02/17/2020	31.61	23.03	-	-	-	25.89	8.58	11:55	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	02/19/2020	31.61	22.97	-	-	-	-	8.64	11:25	-	-	-	-	-	-	-	-	-	-	-	6,800	
RW-116S	03/10/2020	31.61	22.97	-	-	-	-	8.64	9:25	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	05/11/2020	31.61	22.64	-	-	-	27.86	8.97	10:31	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	05/14/2020	31.61	22.64	-	-	-	-	8.97	8:52	<1	<1	<1	<3	<1	-	<2	<10	-	-	-	13,000	
RW-117S	07/08/2015	31.81	22.53	-	-	-	-	9.28	11:08	-	-	-	-	-	-	-	-	-	-	-	-	
RW-117S	07/13/2015	31.81	22.27	-	-	-	24.25	9.54	9:22	-	-	-	-	-	-	-	-	-	-	-	-	
RW-117S	07/20/2015	31.81	21.97	-	-	-	-	9.84	9:07	-	-	-	-	-	-	-	-	-	-	-	-	
RW-117S	07/28/2015	31.81	21.86	-	-	-	24.34	9.95	9:30	-	-	-	-	-	-	-	-	-	-	-	-	
RW-117S	08/04/2015	31.81	21.94	-	-	-	24.23	9.87	13:15	-	-	-	-	-	-	-	-	-	-	-	-	
RW-117S	08/05/2015	31.81	21.96	-	-	-	24.27	9.85	9:20	-	-	-	-	-	-	-	-	-	-	-	6,600	
RW-117S	08/11/2015	31.81	22.06	-	-	-	24.30	9.75	10:28	-	-	-	-	-	-	-	-	-	-	-	-	
RW-117S	08/18/2015	31.81	22.16	-	-	-	-	9.65	10:10	-	-	-	-	-	-	-	-	-	-	-	-	
RW-117S	08/24/2015	31.81	22.25	-	-	-	-	9.56	10:13	-	-	-	-	-	-	-	-	-	-	-	-	
RW-117S	09/02/2015	31.81	22.40	-	-	-	24.30	9.41	10:10	-	-	-	-	-	-	-	-	-	-	-	-	

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

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	02/20/2018	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	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	

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	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-117S	10/01/2019	33.31	24.02	-	-	-	-	9.29	9:50	-	-	-	-	-	-	-	-	-	-	-	-	
RW-117S	11/18/2019	32.31	23.32	-	-	-	24.21	8.99	11:08	-	-	-	-	-	-	-	-	-	-	-	4,900	
RW-117S	12/05/2019	32.31	23.51	-	-	-	-	8.80	-	-	-	-	-	-	-	-	-	-	-	-	-	
RW-117S	01/14/2020	32.31	23.94	-	-	-	-	8.37	11:46	-	-	-	-	-	-	-	-	-	-	-	-	
RW-117S	02/17/2020	32.31	24.13	-	-	-	24.23	8.18	11:47	-	-	-	-	-	-	-	-	-	-	-	-	
RW-117S	03/10/2020	32.31	24.20	-	-	-	-	8.11	9:36	-	-	-	-	-	-	-	-	-	-	-	-	
RW-117S	05/11/2020	32.31	DRY	-	-	-	24.19	-	10:37	-	-	-	-	-	-	-	-	-	-	-	-	DRY
RW-118S	07/08/2015	31.09	21.79	-	-	-	-	9.30	11:03	-	-	-	-	-	-	-	-	-	-	-	-	
RW-118S	07/13/2015	31.09	21.64	-	-	-	24.90	9.45	9:20	-	-	-	-	-	-	-	-	-	-	-	-	
RW-118S	07/20/2015	31.09	21.27	-	-	-	-	9.82	9:04	-	-	-	-	-	-	-	-	-	-	-	-	
RW-118S	07/28/2015	31.09	21.22	-	-	-	25.00	9.87	9:39	-	-	-	-	-	-	-	-	-	-	-	-	
RW-118S	08/04/2015	31.09	21.28	-	-	-	24.93	9.81	13:18	-	-	-	-	-	-	-	-	-	-	-	-	
RW-118S	08/05/2015	31.09	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8,200	
RW-118S	08/11/2015	31.09	21.44	-	-	-	24.96	9.65	10:33	-	-	-	-	-	-	-	-	-	-	-	-	
RW-118S	08/18/2015	31.09	21.52	-	-	-	-	9.57	10:07	-	-	-	-	-	-	-	-	-	-	-	-	
RW-118S	08/24/2015	31.09	21.62	-	-	-	-	9.47	10:10	-	-	-	-	-	-	-	-	-	-	-	-	
RW-118S	09/02/2015	31.09	21.76	-	-	-	24.97	9.33	10:13	-	-	-	-	-	-	-	-	-	-	-	-	
RW-118S	09/09/2015	31.09	21.56	-	-	-	24.95	9.53	10:07	-	-	-	-	-	-	-	-	-	-	-	-	
RW-118S	09/17/2015	31.09	21.96	-	-	-	25.01	9.13	10:10	-	-	-	-	-	-	-	-	-	-	-	-	
RW-118S	09/23/2015	31.09	21.97	-	-	-	-	9.12	10:28	-	-	-	-	-	-	-	-	-	-	-	-	
RW-118S	09/28/2015	31.09	22.03	-	-	-	24.95	9.06	9:16	-	-	-	-	-	-	-	-	-	-	-	-	
RW-118S	10/05/2015	31.09	22.68	-	-	-	25.00	8.41	12:20	-	-	-	-	-	-	-	-	-	-	-	-	
RW-118S	11/10/2015	31.09	22.35	-	-	-	-	8.74	12:55	-	-	-	-	-	-	-	-	-	-	-	-	
RW-118S	12/01/2015	31.24	22.84	-	-	-	25.08	8.40	13:09	-	-	-	-	-	-	-	-	-	-	-	-	
RW-118S	12/02/2015	31.24	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11,000	
RW-118S	01/27/2016	31.24	24.02	-	-	-	-	7.22	10:19	-	-	-	-	-	-	-	-	-	-	-	-	
RW-118S	02/15/2016	31.24	22.23	-	-	-	-	9.01	9:50	-	-	-	-	-	-	-	-	-	-	-	-	
RW-118S	03/14/2016	31.24	22.26	-	-	-	25.15	8.98	9:05	-	-	-	-	-	-	-	-	-	-	-	8,200	
RW-118S	04/21/2016	31.24	23.85	-	-	-	25.10	7.39	12:06	-	-	-	-	-	-	-	-	-	-	-	1,100	
RW-118S	05/23/2016	31.24	23.95	-	-	-	25.15	7.29	11:50	-	-	-	-	-	-	-	-	-	-	-	-	
RW-118S	05/24/2016	31.24	23.88	-	-	-	25.10	7.36	11:35	-	-	-	-	-	-	-	-	-	-	-	1,600	
RW-118S	06/21/2016	31.24	23.95	-	-	-	-	7.29	10:30	-	-	-	-	-	-	-	-	-	-	-	-	

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	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	-	-	-	-	-	-	-	-	-	-	-	-	
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-118S	11/18/2019	30.81	23.01	-	-	-	24.18	7.80	10:25	-	-	-	-	-	-	-	-	-	-	-	5,100	
RW-118S	02/17/2020	30.81	24.08	-	-	-	24.19	6.73	10:53	-	-	-	-	-	-	-	-	-	-	-	-	
RW-118S	05/11/2020	30.81	23.14	-	-	-	24.18	7.67	9:57	-	-	-	-	-	-	-	-	-	-	-	-	
RW-118S	05/14/2020	30.81	22.54	-	-	-	24.18	8.27	12:35	<0.2	<0.2	<0.2	<0.5	<0.2	-	<0.3	<0.2	-	-	-	13,000	Grab
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	-	-	-	-	-	-	-	-	-	-	-	-	

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	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
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	

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	09/20/2017	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	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes, Total (µg/L)	Methyl tert-butyl ether (µg/L)	tert-Butyl alcohol (µg/L)	1,2-Dibromoethane (µg/L)	1,2-Dichloroethane (µg/L)	Naphthalene (µg/L)	TPH-GRO (µg/L)	TPH-DRO - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
RW-119S	04/22/2019	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	-	-	-	-	-	-	-	-	-	-	-	-	
RW-119S	10/01/2019	30.53	22.38	-	-	-	-	8.15	9:28	-	-	-	-	-	-	-	-	-	-	-	-	
RW-119S	11/18/2019	30.53	21.83	-	-	-	26.12	8.70	10:33	-	-	-	-	-	-	-	-	-	-	-	-	
RW-119S	11/22/2019	30.53	21.84	-	-	-	26.12	8.69	10:38	-	-	-	-	-	-	-	-	-	-	-	4,200	
RW-119S	12/05/2019	30.53	22.04	-	-	-	-	8.49	-	-	-	-	-	-	-	-	-	-	-	-	-	
RW-119S	01/14/2020	30.53	22.23	-	-	-	-	8.30	11:26	-	-	-	-	-	-	-	-	-	-	-	-	
RW-119S	02/17/2020	30.53	22.09	-	-	-	26.11	8.44	10:19	-	-	-	-	-	-	-	-	-	-	-	-	
RW-119S	02/19/2020	30.53	22.14	-	-	-	-	8.39	9:15	-	-	-	-	-	-	-	-	-	-	-	2,700	
RW-119S	03/10/2020	30.53	22.20	-	-	-	-	8.33	8:53	-	-	-	-	-	-	-	-	-	-	-	-	
RW-119S	05/11/2020	30.53	21.90	-	-	-	25.97	8.63	10:06	-	-	-	-	-	-	-	-	-	-	-	-	
RW-119S	05/14/2020	30.53	22.06	-	-	-	-	8.47	10:22	<0.2	<0.2	<0.2	<0.5	<0.2	-	<0.3	<2	-	-	-	2,700	
TW-01	12/16/2013	38.31	NR	-	-	-	-	-	-	14.3	ND	13.1	63.5	1.55	-	-	-	119	-	-	14,100	
TW-01	12/18/2013	38.31	31.38	-	-	-	-	6.93	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-01	01/08/2014	38.31	31.80	31.79	0.01	-	-	6.52	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-01	03/07/2014	38.31	30.41	-	-	-	-	7.90	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-01	03/13/2014	38.31	31.13	-	-	-	-	7.18	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-01	03/20/2014	38.31	30.36	-	-	-	-	7.95	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-01	03/27/2014	38.31	31.22	-	-	-	-	7.09	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-01	04/03/2014	38.31	30.36	-	-	-	-	7.95	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-01	04/08/2014	38.31	30.21	-	-	-	-	8.10	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-01	04/17/2014	38.31	31.02	-	-	-	-	7.29	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-01	04/22/2014	38.31	30.18	-	-	-	-	8.13	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-01	04/29/2014	38.31	30.22	-	-	-	-	8.09	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-01	05/05/2014	38.31	30.29	-	-	-	-	8.02	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-01	05/12/2014	38.31	30.28	-	-	-	-	8.03	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-01	05/19/2014	38.31	30.16	-	-	-	-	8.15	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-01	06/02/2014	38.31	30.17	-	-	-	-	8.14	-	-	-	-	-	-	-	-	-	-	-	-	-	

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

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	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	-	-	-	-	-	-	-	-	-	-	-	-	
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-02	11/18/2019	16.11	14.77	-	-	-	21.45	1.34	13:15	<0.2	<0.2	<0.2	<0.8	<0.2	<10	<0.3	<2	<0.04	<23	-	<53	
TW-02	02/17/2020	16.11	13.07	-	-	-	21.47	3.04	11:01	-	-	-	-	-	-	-	-	-	-	-	-	

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
TW-02	02/18/2020	16.11	13.21	-	-	-	-	2.90	-	<0.2	<0.2	<0.2	<0.8	<0.2	<10	<0.3	<2	0.2 J	<23	-	<53	
TW-02	05/11/2020	16.11	13.85	-	-	-	21.54	2.26	12:55	-	-	-	-	-	-	-	-	-	-	-	-	
TW-02	05/12/2020	16.11	14.19	-	-	-	-	1.92	14:40	<0.2	<0.2	<0.2	<0.8	<0.2	<10	<0.3	<2	<0.06	<23	-	<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	-	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	-	

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

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	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-03	11/18/2019	10.40	7.53	-	-	-	13.38	2.87	13:18	-	-	-	-	-	-	-	-	-	-	-	-	
TW-03	11/19/2019	10.40	7.08	-	-	-	-	3.32	-	<0.2	<0.2	<0.2	<0.8	<0.2	<10	<0.3	<2	<0.04	<23	-	90 J	
TW-03	02/17/2020	10.40	7.11	-	-	-	13.33	3.29	10:56	-	-	-	-	-	-	-	-	-	-	-	-	
TW-03	02/18/2020	10.40	6.97	-	-	-	-	3.43	-	<0.2	<0.2	<0.2	<0.8	<0.2	<10	<0.3	<2	<0.1	<23	-	<53	
TW-03	05/11/2020	10.40	7.55	-	-	-	13.38	2.85	12:52	-	-	-	-	-	-	-	-	-	-	-	-	
TW-03	05/12/2020	10.40	8.05	-	-	-	-	2.35	12:40	<0.2	<0.2	<0.2	<0.8	<0.2	<10	<0.3	<2	<0.1	<23	-	96 J	
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	-	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	-	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes, Total (µg/L)	Methyl tert-butyl ether (µg/L)	tert-Butyl alcohol (µg/L)	1,2-Dibromoethane (µg/L)	1,2-Dichloroethane (µg/L)	Naphthalene (µg/L)	TPH-GRO (µg/L)	TPH-DRO - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
TW-04	09/02/2014	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	-	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	

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	05/28/2015	9.49	6.28	-	-	-	13.25	3.21	10:55	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	06/02/2015	9.49	5.01	-	-	-	-	4.48	12:15	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	06/09/2015	9.49	5.17	-	-	-	-	4.32	9:45	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	06/16/2015	9.49	5.67	-	-	-	-	3.82	10:35	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	06/26/2015	9.49	4.98	-	-	-	13.20	4.51	8:45	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	07/01/2015	9.49	3.57	-	-	-	-	5.92	11:35	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	07/08/2015	9.49	4.57	-	-	-	-	4.92	10:20	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	07/13/2015	9.49	4.28	-	-	-	-	5.21	8:53	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	07/20/2015	9.49	5.32	-	-	-	-	4.17	8:40	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	08/04/2015	9.49	5.62	-	-	-	13.70	3.87	12:02	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	08/06/2015	9.49	NR	-	-	-	-	-	-	0.6 J	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	0.6	38 J	-	1,000	
TW-04	08/18/2015	9.49	5.88	-	-	-	-	3.61	9:20	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	08/24/2015	9.49	5.76	-	-	-	-	3.73	9:40	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	09/02/2015	9.49	5.92	-	-	-	13.20	3.57	11:36	-	-	-	-	-	-	-	-	-	-	-	-	
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	

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	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	
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-04	11/18/2019	9.49	5.38	-	-	-	14.64	4.11	12:58	<0.2	<0.2	<0.2	<0.8	<0.2	<10	<0.3	<2	<0.04	<23	-	280	
TW-04	02/17/2020	9.49	3.96	-	-	-	14.90	5.53	10:36	<0.2	<0.2	<0.2	<0.8	<0.2	<10	<0.3	<2	0.2 J	<23	-	170	
TW-04	05/11/2020	9.49	4.96	-	-	-	14.93	4.53	12:48	<0.2	<0.2	<0.2	<0.8	<0.2	<10	<0.3	<2	0.3 J	<23	-	130	
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	-	-	-	-	-	-	-	-	-	-	-	-	-	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes, Total (µg/L)	Methyl tert-butyl ether (µg/L)	tert-Butyl alcohol (µg/L)	1,2-Dibromoethane (µg/L)	1,2-Dichloroethane (µg/L)	Naphthalene (µg/L)	TPH-GRO (µg/L)	TPH-DRO - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
TW-05	08/11/2014	13.73	6.51	-	-	-	-	7.22	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	08/15/2014	13.73	5.91	-	-	-	11.95	7.82	-	-	-	-	-	-	-	-	-	-	-	-	271,000	
TW-05	08/18/2014	13.73	6.14	-	-	-	-	7.59	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	08/25/2014	9.64	6.13	-	-	-	-	3.51	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	09/02/2014	9.64	6.59	-	-	-	-	3.05	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	09/15/2014	9.64	6.57	-	-	-	-	3.07	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	09/22/2014	9.64	6.58	-	-	-	-	3.06	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	10/01/2014	9.64	6.63	-	-	-	11.74	3.01	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	10/10/2014	9.64	6.52	-	-	-	-	3.12	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	10/13/2014	9.64	6.58	-	-	-	-	3.06	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	10/20/2014	9.64	6.60	-	-	-	12.63	3.04	-	4	<0.5	14	<0.5	<0.5	<2	<0.5	<0.5	21	140	-	29,000	
TW-05	10/27/2014	9.64	6.23	-	-	-	-	3.41	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	11/07/2014	9.64	6.58	-	-	-	-	3.06	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	11/12/2014	9.64	6.56	-	-	-	-	3.08	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	11/21/2014	9.64	7.07	-	-	-	-	2.57	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	11/26/2014	9.64	6.67	-	-	-	-	2.97	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	12/05/2014	9.64	5.57	-	-	-	-	4.07	-	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	

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	05/11/2015	9.64	6.12	-	-	-	12.30	3.52	15:39	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	05/13/2015	9.64	NR	-	-	-	-	-	-	3	<0.50	<0.50	<0.5	<0.5	<2	<0.5	<0.5	1 J	44 J	-	1,100	
TW-05	05/21/2015	9.64	6.15	-	-	-	12.48	3.49	13:07	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	05/28/2015	9.64	6.56	-	-	-	12.50	3.08	10:57	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	06/02/2015	9.64	4.05	-	-	-	-	5.59	12:18	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	06/09/2015	9.64	4.63	-	-	-	-	5.01	9:48	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	06/16/2015	9.64	5.99	-	-	-	-	3.65	10:38	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	06/26/2015	9.64	4.52	-	-	-	12.80	5.12	8:47	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	07/01/2015	9.64	1.82	-	-	-	-	7.82	11:38	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	07/08/2015	9.64	4.22	-	-	-	-	5.42	10:23	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	07/13/2015	9.64	4.24	-	-	-	-	5.40	8:55	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	07/20/2015	9.64	5.64	-	-	-	-	4.00	8:43	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	07/28/2015	9.64	6.01	-	-	-	12.42	3.63	13:15	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	08/04/2015	9.64	6.07	-	-	-	12.32	3.57	12:05	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	08/06/2015	9.64	NR	-	-	-	-	-	-	2	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	0.8	37 J	-	790	
TW-05	08/11/2015	9.64	5.56	-	-	-	12.54	4.08	12:30	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	08/18/2015	9.64	6.28	-	-	-	-	3.36	9:23	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	08/24/2015	9.64	6.23	-	-	-	-	3.41	9:43	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	09/02/2015	9.64	6.32	-	-	-	12.53	3.32	11:33	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	09/09/2015	9.64	6.73	-	-	-	12.55	2.91	14:06	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	09/17/2015	9.64	6.54	-	-	-	12.53	3.10	11:45	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	09/23/2015	9.64	6.41	-	-	-	-	3.23	10:03	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	09/28/2015	9.64	6.01	-	-	-	12.51	3.63	10:38	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	10/05/2015	9.64	5.43	-	-	-	12.54	4.21	10:17	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	11/10/2015	9.64	6.31	-	-	-	-	3.33	12:31	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	12/01/2015	9.64	5.99	-	-	-	12.38	3.65	13:10	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.04	30 J	-	330	
TW-05	02/15/2016	9.64	6.34	-	-	-	-	3.30	9:09	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	03/14/2016	9.64	6.22	-	-	-	12.43	3.42	10:00	1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	0.3	<20	-	960	
TW-05	04/21/2016	9.64	6.92	-	-	-	-	2.72	9:21	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	05/05/2016	9.64	5.40	-	-	-	-	4.24	12:30	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	05/23/2016	9.64	5.46	-	-	-	-	4.18	10:55	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	06/21/2016	9.64	7.02	-	-	-	-	2.62	9:38	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	07/21/2016	9.64	6.37	-	-	-	-	3.27	9:28	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	08/24/2016	9.64	6.80	-	-	-	12.85	2.84	9:49	-	-	-	-	-	-	-	-	-	-	-	890	
TW-05	08/25/2016	9.64	6.20	-	-	-	-	3.44	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	09/22/2016	9.64	6.75	-	-	-	-	2.89	14:40	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	11/28/2016	9.64	7.07	-	-	-	13.02	2.57	8:41	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	11/29/2016	9.64	NR	-	-	-	-	-	-	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	-	430	
TW-05	02/21/2017	9.64	7.20	-	-	-	13.32	2.44	12:05	-	-	-	-	-	-	-	-	-	-	-	-	

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	02/22/2017	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	-	-	-	-	-	-	-	-	-	-	-	-	
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	

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	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-05	10/01/2019	9.64	6.25	-	-	-	-	3.39	10:40	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	11/18/2019	9.64	5.70	-	-	-	-	3.94	13:25	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	11/19/2019	9.64	5.52	-	-	-	-	4.12	-	<0.2	<0.2	<0.2	<0.8	<0.2	<10	<0.3	<2	0.5	<23	-	1,600	
TW-05	11/22/2019	9.64	5.73	-	-	-	-	3.91	8:58	-	-	-	-	-	-	-	-	-	-	-	1,800	Grab
TW-05	12/05/2019	9.64	5.52	-	-	-	-	4.12	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	01/14/2020	9.64	4.85	-	-	-	-	4.79	12:20	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	02/17/2020	9.64	3.95	-	-	-	13.29	5.69	10:41	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	02/18/2020	9.64	4.03	-	-	-	-	5.61	-	0.2 J	<0.2	<0.2	<0.8	<0.2	<10	<0.3	<2	0.6	<23		950	
TW-05	02/19/2020	9.64	5.00	-	-	-	-	4.64	14:20	-	-	-	-	-	-	-	-	-	-	-	1,200	Grab
TW-05	03/10/2020	9.64	5.90	-	-	-	-	3.74	9:55	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	05/11/2020	9.64	5.00	-	-	-	-	4.64	12:00	0.2 J	<0.2	<0.2	<0.8	<0.2	<10	<0.3	<2	<0.1	<23	-	1,100	
TW-05	05/13/2020	9.64	5.95	-	-	-	-	3.69	12:18	-	-	-	-	-	-	-	-	-	-	-	1,400	Grab
TW-06	12/16/2013	13.97	NR	-	-	-	-	-	-	1.09	ND	20.3	7.86	ND	-	-	-	174	-	-	47,000	

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
TW-06	12/18/2013	13.97	6.21	-	-	-	-	7.76	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	01/08/2014	13.97	6.98	-	-	-	-	6.99	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	03/07/2014	13.97	6.40	-	-	-	-	7.57	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	03/13/2014	13.97	6.62	-	-	-	-	7.35	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	03/20/2014	13.97	6.26	-	-	-	-	7.71	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	03/27/2014	13.97	6.88	-	-	-	-	7.09	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	04/03/2014	13.97	4.81	-	-	-	-	9.16	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	04/08/2014	13.97	5.82	-	-	-	-	8.15	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	04/17/2014	13.97	5.41	-	-	-	-	8.56	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	04/22/2014	13.97	5.90	-	-	-	-	8.07	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	04/29/2014	13.97	6.30	-	-	-	-	7.67	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	05/05/2014	13.97	4.98	-	-	-	-	8.99	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	05/12/2014	13.97	6.18	-	-	-	-	7.79	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	05/19/2014	13.97	4.63	-	-	-	-	9.34	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	05/27/2014	13.97	6.79	-	-	-	-	7.18	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	06/02/2014	13.97	6.24	-	-	-	-	7.73	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	06/09/2014	13.97	6.31	-	-	-	-	7.66	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	06/16/2014	13.97	5.33	-	-	-	-	8.64	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	06/23/2014	13.97	6.12	-	-	-	-	7.85	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	07/02/2014	13.97	6.52	-	-	-	-	7.45	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	07/07/2014	13.97	6.70	-	-	-	12.60	7.27	-	-	-	-	-	-	-	-	-	-	-	-	113,000	
TW-06	07/14/2014	13.97	6.24	-	-	-	-	7.73	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	07/25/2014	13.97	6.65	-	-	-	12.60	7.32	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	08/08/2014	13.97	6.81	-	-	-	-	7.16	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	08/11/2014	13.97	6.71	-	-	-	-	7.26	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	08/15/2014	13.97	6.01	-	-	-	12.70	7.96	-	-	-	-	-	-	-	-	-	-	-	-	147,000	
TW-06	08/18/2014	13.97	6.33	-	-	-	-	7.64	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	08/25/2014	9.86	6.37	-	-	-	-	3.49	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	09/02/2014	9.86	6.80	-	-	-	-	3.06	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	09/15/2014	9.86	6.79	-	-	-	-	3.07	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	09/22/2014	9.86	6.77	-	-	-	-	3.09	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	10/01/2014	9.86	6.88	-	-	-	12.60	2.98	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	10/10/2014	9.86	6.77	-	-	-	-	3.09	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	10/13/2014	9.86	6.85	-	-	-	-	3.01	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	10/20/2014	9.86	6.76	-	-	-	12.63	3.10	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	10/23/2014	9.86	NR	-	-	-	-	-	-	0.8	<0.5	11	1	<0.5	<2	<0.5	<0.5	5	230	-	16,000	
TW-06	10/27/2014	9.86	6.39	-	-	-	-	3.47	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	11/07/2014	9.86	6.83	-	-	-	-	3.03	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	11/12/2014	9.86	6.85	-	-	-	-	3.01	-	-	-	-	-	-	-	-	-	-	-	-	-	

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	11/21/2014	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	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes, Total (µg/L)	Methyl tert-butyl ether (µg/L)	tert-Butyl alcohol (µg/L)	1,2-Dibromoethane (µg/L)	1,2-Dichloroethane (µg/L)	Naphthalene (µg/L)	TPH-GRO (µg/L)	TPH-DRO - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
TW-06	08/06/2015	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	
TW-06	02/21/2017	9.99	7.00	-	-	-	12.46	2.99	12:09	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	02/22/2017	9.99	7.03	-	-	-	12.50	2.96	11:13	-	-	-	-	-	-	-	-	-	-	-	49,000	Sheen
TW-06	03/29/2017	9.99	6.65	-	-	-	12.45	3.34	13:15	-	-	-	-	-	-	-	-	-	-	-	10,000	
TW-06	05/22/2017	9.99	5.82	-	-	-	12.48	4.17	13:11	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	05/23/2017	9.99	NR	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	0.70	<20	-	1,500	
TW-06	08/28/2017	9.99	9.72	-	-	-	12.54	0.27	10:30	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	08/30/2017	9.99	9.64	-	-	-	12.51	0.35	11:17	-	-	-	-	-	-	-	-	-	-	-	9,540	
TW-06	11/28/2017	9.99	8.58	-	-	-	12.60	1.41	11:15	-	-	-	-	-	-	-	-	-	-	5,670	7,350	
TW-06	02/20/2018	9.99	5.78	-	-	-	12.70	4.21	10:30	-	-	-	-	-	-	-	-	-	-	-	-	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes, Total (µg/L)	Methyl tert-butyl ether (µg/L)	tert-Butyl alcohol (µg/L)	1,2-Dibromoethane (µg/L)	1,2-Dichloroethane (µg/L)	Naphthalene (µg/L)	TPH-GRO (µg/L)	TPH-DRO - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
TW-06	02/21/2018	9.99	5.88	-	-	-	-	4.11	12:46	-	-	-	-	-	-	-	-	-	-	2,320	6,620	
TW-06	05/21/2018	9.99	3.31	-	-	-	-	6.68	14:18	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	05/22/2018	9.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,680	
TW-06	05/24/2018	9.99	3.78	-	-	-	-	6.21	13:15	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	06/01/2018	9.99	5.04	-	-	-	-	4.95	9:08	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	08/13/2018	9.99	5.27	-	-	-	-	4.72	11:44	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	08/14/2018	9.99	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	0.70	33 J	-	1,700	
TW-06	11/12/2018	9.99	4.10	-	-	-	-	5.89	12:49	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	11/13/2018	9.99	-	-	-	-	-	-	-	<0.2	<0.2	<0.2	<0.5	<0.2	<10	<0.3	<2	<0.02	<11	-	340	
TW-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-06	11/18/2019	9.99	5.91	-	-	-	12.77	4.08	13:21	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	11/19/2019	9.99	5.88	-	-	-	-	4.11	-	0.2 J	<0.2	<0.2	<0.8	<0.2	<10	<0.3	<2	<0.05	<23	-	1,300	
TW-06	11/22/2019	9.99	6.00	-	-	-	-	3.99	8:54	-	-	-	-	-	-	-	-	-	-	-	1,300	Grab
TW-06	02/17/2020	9.99	4.67	-	-	-	12.75	5.32	10:46	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	02/18/2020	9.99	4.90	-	-	-	-	5.09	-	<0.2	<0.2	<0.2	<0.8	<0.2	<10	<0.3	<2	0.50	<23		520	
TW-06	02/19/2020	9.99	5.13	-	-	-	-	4.86	14:00	-	-	-	-	-	-	-	-	-	-	-	660	Grab
TW-06	05/11/2020	9.99	5.47	-	-	-	12.77	4.52	13:00	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	05/12/2020	9.99	5.95	-	-	-	-	4.04	11:00	<0.2	<0.2	<0.2	<0.8	<0.2	<10	<0.3	<2	<0.1	<23	-	810	
TW-06	05/13/2020	9.99	6.16	-	-	-	-	3.83	12:15	-	-	-	-	-	-	-	-	-	-	-	840	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	-	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	-	

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

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes, Total (µg/L)	Methyl tert-butyl ether (µg/L)	tert-Butyl alcohol (µg/L)	1,2-Dibromoethane (µg/L)	1,2-Dichloroethane (µg/L)	Naphthalene (µg/L)	TPH-GRO (µg/L)	TPH-DRO - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
TW-07	08/25/2016	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-07	11/18/2019	9.88	6.81	-	-	-	13.33	3.07	-	<0.2	<0.2	<0.2	<0.8	<0.2	<10	<0.3	<2	<0.04	<23		81 J	
TW-07	02/17/2020	9.88	6.18	-	-	-	13.54	3.70	10:51	<0.2	<0.2	<0.2	<0.8	<0.2	<10	<0.3	<2	<0.1	<23	-	<53	
TW-07	05/11/2020	9.88	6.53	-	-	-	-	3.35	11:30	-	-	-	-	-	-	-	-	-	-	-	-	
TW-07	05/12/2020	9.88	-	-	-	-	-	-	11:30	<0.2	<0.2	<0.2	<0.8	<0.2	<10	<0.3	<2	<0.1	<23	-	73 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	-	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	-	

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

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

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

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	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.
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-12S	11/18/2019	31.33	24.77	-	-	-	24.90	6.56	10:44	-	-	-	-	-	-	-	-	-	-	-	-	Insufficient GW Vol.
TW-12S	02/17/2020	31.33	24.79	-	-	-	24.95	6.54	10:44	-	-	-	-	-	-	-	-	-	-	-	-	Insufficient GW Vol.
TW-12S	05/11/2020	31.33	24.71	-	-	-	24.97	6.62	10:20	-	-	-	-	-	-	-	-	-	-	-	-	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	-	-	-	-	-	-	-	-	-	-	-	-	-	

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-13	06/09/2014	36.99	28.73	-	-	-	-	8.26	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-13	06/16/2014	36.99	28.88	-	-	-	-	8.11	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-13	06/23/2014	36.99	28.65	-	-	-	-	8.34	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-13	07/02/2014	36.99	28.69	-	-	-	-	8.30	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-13	07/07/2014	36.99	28.91	-	-	-	35.02	8.08	-	-	-	-	-	-	-	-	-	-	-	-	17,500	
TW-13	07/14/2014	36.99	28.58	-	-	-	-	8.41	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-13	07/29/2014	Overdrilled and replaced with MW-14																				
TW-14	01/17/2014	15.55	2.48	-	-	-	-	13.07	-	<0.5	<0.5	<0.5	<0.5	0.536	-	-	-	ND	-	-	2,290	
TW-14	03/07/2014	15.55	2.29	-	-	-	-	13.26	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-14	03/13/2014	15.55	2.55	-	-	-	-	13.00	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-14	03/20/2014	15.55	2.25	-	-	-	-	13.30	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-14	03/27/2014	15.55	2.42	-	-	-	-	13.13	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-14	04/03/2014	15.55	2.31	-	-	-	-	13.24	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-14	04/08/2014	15.55	2.27	-	-	-	-	13.28	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-14	04/17/2014	15.55	2.26	-	-	-	-	13.29	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-14	04/22/2014	15.55	2.48	-	-	-	-	13.07	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-14	04/29/2014	15.55	2.66	-	-	-	-	12.89	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-14	05/05/2014	15.55	2.56	-	-	-	-	12.99	-	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	-	

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	10/20/2014	11.61	3.02	-	-	-	5.90	8.59	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-14	10/21/2014	11.61	NR	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	-	100	-	670	
TW-14	02/24/2015	11.61	2.67	-	-	-	-	8.94	15:29	-	-	-	-	-	-	-	-	-	-	-	-	
TW-14	02/26/2015	11.61	2.68	-	-	-	5.90	8.93	12:00	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.03	73	-	120	
TW-14	05/11/2015	11.61	3.28	-	-	-	6.90	8.33	10:30	-	-	-	-	-	-	-	-	-	-	-	-	
TW-14	05/12/2015	11.61	NR	-	-	-	-	-	-	1	<0.5	<0.5	<0.5	<0.5	7.00	<0.5	<0.5	<1	220	-	2,000	
TW-14	08/04/2015	11.61	3.37	-	-	-	5.98	8.24	10:31	-	-	-	-	-	-	-	-	-	-	-	-	
TW-14	08/11/2015	11.61	3.65	-	-	-	6.00	7.96	12:00	-	-	-	-	-	-	-	-	-	-	-	-	
TW-14	08/13/2015	11.61	NR	-	-	-	-	-	-	1	<0.5	<0.5	<0.5	<0.5	9	<0.5	<0.5	<0.08	130	-	3,700	
TW-14	08/18/2015	11.61	3.83	-	-	-	-	7.78	9:15	-	-	-	-	-	-	-	-	-	-	-	-	
TW-14	12/01/2015	11.61	2.76	-	-	-	-	8.85	9:15	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.04	<20	-	<45	
TW-14	03/14/2016	11.61	2.80	-	-	-	6.02	8.81	10:11	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.08	<20	-	54 J	
TW-14	05/23/2016	11.61	2.71	-	-	-	6.00	8.90	11:24	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.08	22 J	-	45 J	
TW-14	08/24/2016	11.61	3.05	-	-	-	-	8.56	-	-	-	-	-	-	-	-	-	-	-	-	<45	
TW-14	11/28/2016	11.61	4.07	-	-	-	6.03	7.54	11:24	-	-	-	-	-	-	-	-	-	-	-	-	
TW-14	12/01/2016	11.61	NR	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	NT	NT	NT	NT	<0.08	<20	-	480	
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	
TW-14	11/18/2019	11.61	3.41	-	-	-	5.50	8.20	9:15	-	-	-	-	-	-	-	-	-	-	-	-	
TW-14	11/19/2019	11.61	-	-	-	-	-	-	-	0.3 J	<0.2	<0.2	<0.8	<0.2	<10	<0.3	<2	0.2	<23	-	940	Grab
TW-14	02/17/2020	11.61	3.08	-	-	-	6.12	8.53	9:06	<0.2	<0.2	<0.2	<0.8	<0.2	<10	<0.3	<2	<0.1	<23	-	<53	
TW-14	05/11/2020	11.61	3.09	-	-	-	-	8.52	10:30	<0.2	<0.2	<0.2	<0.8	<0.2	<10	<0.3	<2	0.6	<23	-	<53	

Notes:
Specific gravity was tested at MW-05 and MW-25, and the average specific gravity (0.878) is used for groundwater elevation adjustments.
Recovery wells RW-05, RW-25, RW-31 and RW-51 were active March 14, 2016 to March 29, 2018, all but RW-31 were reactivated from August 6, 2018 to September 12, 2018. RW-14 was active from August 4, 2016 to March 29, 2018 and from August 6, 2018 to September 12, 2018. RW-72 was active from March 14, 2016 to August 4, 2016.
Naphthalene results presented in this table are results from VOC analysis by EPA Method 8260 except TW well results. These wells were sampled by Geosyntec and analyzed by EPA Method 8270.

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

Extra VOC data was collected during the May 2020 sampling event at the request of a third party and are being reported here because they are relevant COCs

- = No data available
<# = Result less than the method detection limit (#), i.e. non-detect
µg/L = Micrograms per liter
J = Result detected between the Method Detection Limit and the Reporting Limit; therefore, result is an estimated value.
ND = Non-detect
TPH-GRO = Total Petroleum Hydrocarbons, Gasoline Range Organics (C6-C10)
TPH-DRO = Total Petroleum Hydrocarbons, Diesel Range Organics C10-C28
TPH-DRO - Silica Gel = Total Petroleum Hydrocarbons, Diesel Range Organics C10-C28 (SW-896 8015B) with Silica Gel Cleanup (3630C)
$(Date)^{H}$ = Well sampled during the Potomac River's high tide.
$(Date)^{L}$ = Well sampled during the Potomac River's low tide.
ft = feet
gal = gallons
DRY = No water for sampling.
Insufficient GW = Insufficient Groundwater (GW) Volume (Vol.) for sampling
GW = Groundwater
LNAPL = Light Non-Aqueous Phase Liquid
NR = Not recorded
TRACE = LNAPL thickness is less than 0.01 feet
VO = Vegetation Overgrowth (could not locate well to gauge and/or sample).
NMB = Not Manually Bailed
NT = Not Tabulated, laboratory data results available.
OBS = Obstruction in well.
B = Analyte was detected in the Method Blank.
9/25/2018 = TPE wells were being adjusted during installation, groundwater elevation not calcuated.

Table 4

HISTORICAL GROUNDWATER FIELD PARAMETERS DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Sample Date	Head Space Photo Ionization Detector (ppm)	Head Space Oxygen (%)	Head Space Carbon Dioxide (%)	Head Space Methane (%)	Dissolved Oxygen (mg/L)	Well pH	Well Temperature (deg C)	ORP (mV)	Specific Conductance (µS/cm)	Turbidity (NTU)
MW-01S	10/10/2014	10.2	6.3	-	-	0.53	6.68	17.69	-95.0	880	-
MW-01S	10/20/2014	1.0	6.3	10.1	10.3	-	-	-	-	-	-
MW-01S	10/22/2014	-	-	-	-	0.80	6.63	17.81	-91.6	369	-
MW-01S	02/24/2015	8.4	3.0	12.2	26.6	0.10	6.53	16.31	-172.6	724	-
MW-01S	05/11/2015	64.8	1.6	10.8	27.8	PRODUCT					
MW-01S	08/04/2015	11.4	8.9	7.2	9.2	PRODUCT					
MW-01S	03/14/2016	78.8	3.5	10.8	2.2	0.13	6.65	16.46	-104.0	860	-
MW-01S	04/21/2016	14.8	20.8	0.3	0.1	0.11	6.62	16.14	-57.6	970	-
MW-01S	05/23/2016	0.0	20.9	0.0	0.0	PRODUCT					
MW-01S	08/24/2016	1.8	-	-	-	0.76	6.61	16.50	-127.8	1,040	-
MW-01S	08/30/2016	64.3	22.6	0.1	0.1	-	-	-	-	-	-
MW-01S	11/28/2016	-	-	-	-	1.47	7.12	17.44	-84.0	1,017	-
MW-01S	12/08/2016	0.3	20.9	0.0	0.0	-	-	-	-	-	-
MW-01S	02/21/2017	1.2	20.9	0.9	0.0	0.12	6.70	17.36	-23.3	1,000	-
MW-01S	05/22/2017	1.7	20.9	0.0	0.0	4.25	6.85	16.69	-88.9	969.5	-
MW-01S	07/10/2017	-	-	-	-	-	6.77	-	-	-	-
MW-01S	08/28/2017	7.4	20.9	0.0	0.0	3.8	6.42	18.43	32.7	453.1	-
MW-01S	11/28/2017	0.8	21.3	0.0	0.0	5.3	6.51	16.14	-99.9	560.0	-
MW-01S	02/20/2018	0.0	20.9	0.0	0.0	-	-	-	-	-	-
MW-01S	02/21/2018	-	-	-	-	2.06	6.89	17.50	69.8	90	-
MW-01S	05/21/2018	0.0	16.4	1.6	0.0	0.05	8.64	17.46	-135.90	865.9	-
MW-01S	08/13/2018	0.0	9.0	2.6	0.0	0.10	6.84	17.32	-36.80	1,040	-
MW-01S	10/02/2018	-	-	-	-	-	6.33	-	-	-	-
MW-01S	10/18/2018	-	-	-	-	-	6.85	-	-	-	-
MW-01S	11/12/2018	4.2	19.1	1.2	0.0	2.6	7.92	15.6	20.8	836.0	-
MW-01S	11/27/2018	-	-	-	-	-	6.18	-	-	-	-
MW-01S	01/10/2019	-	-	-	-	-	7.22	-	-	-	-
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-01S	11/18/2019	1.4	18.6	0.2	0.0	-	-	-	-	-	-
MW-01S	11/20/2019	-	-	-	-	0.40	6.45	16.42	31	1130	-
MW-01S	02/17/2020	2.7	11.5	4.4	0.0	-	-	-	-	-	-
MW-01S	02/18/2020	-	-	-	-	1.14	6.62	15.06	123	934	-
MW-01S	05/11/2020	2.4	3.1	6.1	2.3	0.51	6.50	14.99	-85.9	772	-
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	-

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	08/24/2016	6.4	-	-	-	2.69	6.53	19.98	15.2	640	-
MW/RW-05	08/30/2016	47.4	21.6	0.1	10.0	-	-	-	-	-	-
MW/RW-05	11/28/2016	0.7	20.9	0.2	0.0		4.35	17.10	229.5	1,280	-
MW/RW-05	02/21/2017	1.3	20.9	0.0	0.0	11.84	5.34	13.18	60.0	950	-
MW/RW-05	05/22/2017	0.8	20.9	0.1	0.0	9.70	6.55	16.62	11.2	612.3	-
MW/RW-05	08/28/2017	11.4	20.9	0.1	0.0	3.40	3.77	18.84	137.5	2,369.8	-
MW/RW-05	11/28/2017	138.1	9.4	7.5	0.0	1.40	5.45	16.14	111.6	540.0	-
MW/RW-05	02/20/2018	72.5	7.1	5.7	0.0	-	-	-	-	-	-
MW/RW-05	02/21/2018	-	-	-	-	4.33	5.96	20.66	96.5	550	-
MW/RW-05	05/21/2018	52.4	8.9	3.8	0.0	-0.03	6.49	14.88	-62.6	1,751	-
MW/RW-05	08/13/2018	9.2	20.5	0.2	0.0	4.13	5.12	24.77	271.4	1,780	-
MW/RW-05	10/18/2018	-	-	-	-	-	6.58	-	-	-	-
MW/RW-05	11/12/2018	282.0	20.8	0.1	0.0	2.1	7.13	15.79	11.4	1,309	-
MW/RW-05	11/27/2018	-	-	-	-	-	6.14	-	-	-	-
MW/RW-05	01/10/2019	-	-	-	-	-	7.07	-	-	-	-
MW/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/RW-05	11/18/2019	2.9	15.7	4.1	4.9	-	-	-	-	-	-
MW/RW-05	11/22/2019	-	-	-	-	0.43	6.33	16.72	31.6	989	-
MW/RW-05	02/17/2020	1.5	8.9	7.8	8.8	-	-	-	-	-	-
MW/RW-05	02/19/2020	-	-	-	-	1.36	6.55	13.43	-36.6	1,208	-
MW/RW-05	05/11/2020	0.1	18.4	3.2	0.8	-	-	-	-	-	-
MW/RW-05	05/12/2020	-	-	-	-	0.31	6.39	13.61	-44.1	1,655	-
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-08S	11/21/2019	-	-	-	-	-	6.67	17.07	-57.5	1,229	-
MW-08S	02/17/2020	-	-	-	-	0.63	6.69	15.28	-31.8	1,649	-
MW-08S	05/11/2020	-	-	-	-	0.25	6.76	14.48	-101.6	1,756	-

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	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	-
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/RW-10S	11/18/2019	5.4	14.2	2.7	0.0	-	-	-	-	-	-
MW/RW-10S	11/21/2019	-	-	-	-	0.54	6.96	17.16	-143.5	1,418	-
MW/RW-10S	02/17/2020	3.1	12.9	3.3	0.0	-	-	-	-	-	-
MW/RW-10S	02/19/2020	-	-	-	-	0.18	6.90	15.08	-129.3	1,616	-
MW/RW-10S	05/11/2020	0.4	17.7	1.2	0.0	-	-	-	-	-	-
MW/RW-10S	05/14/2020	-	-	-	-	0.17	6.56	14.53	-106.5	1,337	-
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	-

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-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-11	11/21/2019	-	-	-	-	0.97	6.39	16.51	-2.2	671	-
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	-
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/RW-14	11/18/2019	22.4	17.9	2.9	6.0	-	-	-	-	-	-
MW/RW-14	11/19/2019	-	-	-	-	0.61	6.74	16.17	-99.0	548	-
MW/RW-14	02/17/2020	34.2	17.2	3.9	3.5	-	-	-	-	-	-
MW/RW-14	02/19/2020	-	-	-	-	0.57	6.76	15.31	57.3	808	-
MW/RW-14	05/11/2020	56.3	65.3	4.9	8.0	-	-	-	-	-	-
MW/RW-14	05/14/2020	-	-	-	-	0.32	6.40	14.88	-76.5	722	-

Table 4

HISTORICAL GROUNDWATER FIELD PARAMETERS DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Sample Date	Head Space Photo Ionization Detector (ppm)	Head Space Oxygen (%)	Head Space Carbon Dioxide (%)	Head Space Methane (%)	Dissolved Oxygen (mg/L)	Well pH	Well Temperature (deg C)	ORP (mV)	Specific Conductance (µS/cm)	Turbidity (NTU)
MW-15S	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-15S	11/22/2019	-	-	-	-	0.94	7.00	16.31	57.0	699	-
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-16	11/22/2019	-	-	-	-	5.62	6.32	16.31	170.4	448	-
MW-16	02/18/2020	-	-	-	-	5.21	6.20	14.88	103.1	659	-
MW-16	05/13/2020	-	-	-	-	3.56	5.57	16.10	225.6	655	-
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	-

Table 4

HISTORICAL GROUNDWATER FIELD PARAMETERS DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Sample Date	Head Space Photo Ionization Detector (ppm)	Head Space Oxygen (%)	Head Space Carbon Dioxide (%)	Head Space Methane (%)	Dissolved Oxygen (mg/L)	Well pH	Well Temperature (deg C)	ORP (mV)	Specific Conductance (µS/cm)	Turbidity (NTU)
MW-25S	08/20/2019	-	-	-	-	0.10	6.84	18.36	-106.1	1362	-
MW-25S	11/19/2019	-	-	-	-	0.01	7.23	17.06	-156.1	1018	-
MW-25S	02/19/2020	-	-	-	-	0.57	7.42	14.24	6.8	1233	-
MW-25S	05/14/2020	-	-	-	-	0.26	6.75	14.60	-121.1	1302	-
MW/RW-25	10/13/2014	139.0	19.2	-	-	-	-	-	-	-	-
MW/RW-25	10/14/2014	79.0	17.5	-	-	-	-	-	-	-	-
MW/RW-25	10/15/2014	8.4	20.9	-	-	-	-	-	-	-	-
MW/RW-25	10/16/2014	28.2	14.3	-	-	-	-	-	-	-	-
MW/RW-25	02/24/2015	121.0	15.4	5.5	1.3	-	-	-	-	-	-
MW/RW-25	05/11/2015	263.0	11.6	6.7	0.6	-	-	-	-	-	-
MW/RW-25	08/04/2015	118.4	15.8	3.7	0.4	-	-	-	-	-	-
MW/RW-25	12/01/2015	79.5	14.7	5.4	1.1	-	-	-	-	-	-
MW/RW-25	03/14/2016	6.2	10.9	8.9	3.2	-	-	-	-	-	-
MW/RW-25	04/21/2016	50.2	20.9	0.2	0.2	8.30	5.45	16.77	154.2	310	-
MW/RW-25	05/23/2016	23.1	20.7	0.1	0.0	6.45	5.54	17.26	142.1	340	-
MW/RW-25	08/24/2016	54.8	-	-	-	2.58	5.56	18.78	101.8	300	-
MW/RW-25	08/30/2016	79.8	21.7	0.0	0.0	-	-	-	-	-	-
MW/RW-25	11/28/2016	17.8	20.9	0.2	0.0	12.82	5.81	15.46	100.3	332	-
MW/RW-25	02/21/2017	19.4	20.9	0.0	0.0	11.89	5.96	15.66	48.6	330	-
MW/RW-25	05/22/2017	25.6	20.9	0.3	0.0	9.18	6.03	17.50	105.3	308	-
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/RW-25	11/18/2019	6.3	8.7	8.0	3.7	-	-	-	-	-	-
MW/RW-25	11/19/2019	-	-	-	-	0.19	6.46	16.93	-75.6	774	-
MW/RW-25	02/17/2020	9.1	10.2	8.1	3.2	-	-	-	-	-	-
MW/RW-25	02/19/2020	-	-	-	-	0.73	6.42	15.50	95.5	838	-
MW/RW-25	05/11/2020	18.7	14.6	5.1	1.4	0.27	6.10	15.68	-30.5	622	-
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	-	-	-	-	-	-	-	-

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	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	-	-	-	-	-	-
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-27	11/18/2019	0.2	1.0	10.1	0.0	-	-	-	-	-	-
MW-27	11/21/2019	-	-	-	-	0.52	6.25	18.07	77.6	1,330	-
MW-27	02/17/2020	36.2	2.6	6.0	0.0	0.46	6.34	15.92	-19.2	1,582	-
MW-27	05/11/2020	22.9	3.3	5.6	0.4	-	-	-	-	-	-
MW-27	05/12/2020	-	-	-	-	0.19	6.00	15.33	-28.1	1,810	-
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/RW-31	11/21/2019	-	-	-	-	0.54	6.71	18.61	129.9	667	-
MW/RW-31	02/17/2020	-	-	-	-	0.73	6.98	13.81	26.8	675	-

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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)
MW/RW-31	05/12/2020	-	-	-	-	0.32	6.76	13.61	-42.0	806	-
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	18.40	-	-	-
MW-33	11/21/2019	-	-	-	-	1.67	6.10	18.49	150.8	769	-
MW-51S	10/13/2014	23.0	5.7	-	-	0.64	6.72	18.32	-120.0	1,457	-
MW-51S	10/13/2014	1.0	-	-	-	0.75	6.65	18.35	-78.8	1,000	-
MW-51S	10/14/2014	-	-	-	-	0.33	6.64	18.46	-71.8	1,047	-
MW-51S	10/15/2014	1.2	20.0	-	-	1.62	6.60	18.43	1.5	566	-
MW-51S	10/15/2014	-	-	-	-	0.74	6.62	18.45	-84.6	1,122	-
MW-51S	10/20/2014	22.3	10.6	6.3	1.5	-	-	-	-	-	-
MW-51S	10/22/2014	-	-	-	-	0.81	6.67	18.47	-93.7	1,153	-
MW-51S	02/24/2015	9.9	0.9	13.5	27.2	-	-	-	-	-	-
MW-51S	02/25/2015	-	-	-	-	0.08	6.70	16.75	-110.9	1,968	-
MW-51S	05/11/2015	40.8	1.2	12.1	28.3	0.02	6.74	16.21	-113.3	1,830	-
MW-51S	08/04/2015	15.2	0.7	13.2	27.5	0.04	6.82	16.33	-96.0	1,440	-
MW-51S	03/14/2016	62.4	4.8	10.6	0.6	0.27	6.63	16.10	-129.3	2,250	-
MW-51S	04/21/2016	12.4	13.2	1.6	0.3	0.06	6.65	16.57	-79.9	1,760	-
MW-51S	05/23/2016	0.0	20.9	0.0	0.0	0.59	6.83	16.74	-96.6	2,290	-
MW-51S	08/24/2016	1.1	-	-	-	0.70	6.74	18.60	-113.7	2,390	-
MW-51S	08/30/2016	153.7	21.7	0.1	0.0	-	-	-	-	-	-
MW-51S	11/28/2016	-	-	-	-	2.26	7.14	19.36	-131.0	1,448	-
MW-51S	12/08/2016	0.2	20.9	0.0	0.0	-	-	-	-	-	-
MW-51S	02/21/2017	20.4	20.9	0.5	0.0	0.06	7.11	17.81	-23.3	1,870	-
MW-51S	05/22/2017	2.1	20.9	0.1	0.0	4.99	6.72	16.76	-40.0	2,207	-
MW-51S	07/19/2017	-	-	-	-	-	6.88	-	-	-	-
MW-51S	08/28/2017	0.4	19.7	0.2	0.0	1.9	7.30	20.12	45.1	2,169.1	-
MW-51S	11/28/2017	0.9	21.4	0.0	0.0	2.3	6.19	16.83	-22.4	2,000	-
MW-51S	02/20/2018	0.1	20.9	0.2	0.0	-	-	-	-	-	-
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	-	-	-	-

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	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-51S	11/18/2019	0.1	6.7	1.8	0.0	-	-	-	-	-	-
MW-51S	11/22/2019	-	-	-	-	0.38	7.22	16.58	-140.4	662	-
MW-51S	02/17/2020	7.9	10.1	4.5	3.5	-	-	-	-	-	-
MW-51S	02/18/2020	-	-	-	-	0.46	7.60	14.29	-24.8	979	-
MW-51S	05/11/2020	3.0	1.2	5.6	5.1	-	-	-	-	-	-
MW-51S	05/13/2020	-	-	-	-	0.31	6.75	14.69	-127.5	1,010	-
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	-	-	-	-
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/RW-51	11/18/2019	142.0	14.6	4.6	0.2	-	-	-	-	-	-
MW/RW-51	11/22/2019	-	-	-	-	0.40	6.55	16.61	-63.7	1,349	-
MW/RW-51	02/17/2020	52.2	9.4	8.4	0.2	-	-	-	-	-	-
MW/RW-51	02/18/2020	-	-	-	-	0.59	7.08	15.29	18.0	1,544	-
MW/RW-51	05/11/2020	100.2	16.0	3.6	0.1	-	-	-	-	-	-

Table 4

HISTORICAL GROUNDWATER FIELD PARAMETERS DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Sample Date	Head Space Photo Ionization Detector (ppm)	Head Space Oxygen (%)	Head Space Carbon Dioxide (%)	Head Space Methane (%)	Dissolved Oxygen (mg/L)	Well pH	Well Temperature (deg C)	ORP (mV)	Specific Conductance (µS/cm)	Turbidity (NTU)
MW/RW-51	05/13/2020	-	-	-	-	0.42	6.61	15.64	-110.4	1,567	-
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-72S	11/18/2019	2.0	2.9	6.0	0.0	-	-	-	-	-	-
MW/RW-72S	11/19/2019	-	-	-	-	0.11	4.88	16.62	138.3	1,294	-
MW/RW-72S	02/17/2020	12.0	1.8	7.8	0.9	-	-	-	-	-	-
MW/RW-72S	02/18/2020	-	-	-	-	0.26	4.67	16.23	231.9	2,313	-
MW/RW-72S	05/11/2020	5.0	7.0	5.6	0.7	-	-	-	-	-	-
MW/RW-72S	05/13/2020	-	-	-	-	0.19	4.00	16.59	231.1	2,536	-
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	-

Table 4

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Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Sample Date	Head Space Photo Ionization Detector (ppm)	Head Space Oxygen (%)	Head Space Carbon Dioxide (%)	Head Space Methane (%)	Dissolved Oxygen (mg/L)	Well pH	Well Temperature (deg C)	ORP (mV)	Specific Conductance (µS/cm)	Turbidity (NTU)
MW/RW-72	10/16/2014	6.9	5.2	-	-	-	-	-	-	-	-
MW/RW-72	10/20/2014	10.5	2.0	16.8	13.0	-	-	-	-	-	-
MW/RW-72	10/22/2014	-	-	-	-	1.77	5.86	17.73	146.2	533	29,800
MW/RW-72	02/24/2015	13.3	14.2	6.9	0.1	0.58	5.48	17.43	82.8	877	-
MW/RW-72	05/11/2015	64.5	20.6	0.2	0.0	0.03	5.82	15.99	-21.9	1,080	-
MW/RW-72	08/04/2015	6.9	12.7	5.0	3.2	0.02	6.68	16.31	-57.3	1,880	-
MW/RW-72	03/14/2016	42.8	19.8	1.0	0.1	0.04	6.62	16.93	-121.3	1,970	-
MW/RW-72	04/21/2016	79.2	20.7	0.6	0.2	10.41	5.98	16.45	143.7	660	-
MW/RW-72	05/23/2016	0.0	20.9	0.0	0.0	7.92	6.42	16.99	112.8	710	-
MW/RW-72	08/24/2016	0.9	20.9	0.1	0.0	4.85	6.63	16.86	72.9	830	-
MW/RW-72	11/28/2016	0.0	20.9	0.0	0.0	8.07	5.36	17.27	103.7	848	-
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/RW-72	11/18/2019	2.3	9.0	10.6	0.0	-	-	-	-	-	-
MW/RW-72	11/19/2019	-	-	-	-	0.95	3.65	16.76	326.7	1,647	-
MW/RW-72	02/17/2020	4.3	13.2	8.7	0.0	-	-	-	-	-	-
MW/RW-72	02/18/2020	-	-	-	-	0.47	4.00	15.68	361.9	2,163	-
MW/RW-72	05/11/2020	7.6	16.3	3.6	0.0	-	-	-	-	-	-
MW/RW-72	05/13/2020	-	-	-	-	0.43	3.03	17.85	428.0	2,262	-
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	18.70	-	-	-
MW-100S	11/28/2017	0.8	21.4	0.0	0.0	0.78	5.81	16.79	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	18.25	52.9	782	-
MW-100S	11/18/2019	1.2	6.0	8.4	0.3	-	-	-	-	-	-
MW-100S	11/20/2019	-	-	-	-	0.68	5.55	16.58	74.1	963	-
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	-	-	-

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-100	11/28/2017	1.3	16.3	2.2	0.0	2.47	5.94	16.65	98.8	290	-
MW-100	11/12/2018	-	-	-	-	2.10	4.70	16.82	64.0	291	-
MW-100	11/18/2019	0.9	20.9	0.4	0.0	-	-	-	-	-	-
MW-100	11/20/2019	-	-	-	-	2.80	5.74	16.56	179.9	255	-
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	-	-	-
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	-

Table 4

HISTORICAL GROUNDWATER FIELD PARAMETERS DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Sample Date	Head Space Photo Ionization Detector (ppm)	Head Space Oxygen (%)	Head Space Carbon Dioxide (%)	Head Space Methane (%)	Dissolved Oxygen (mg/L)	Well pH	Well Temperature (deg C)	ORP (mV)	Specific Conductance (µS/cm)	Turbidity (NTU)
MW-106	08/19/2019	11.8	18.0	2.6	0.0	-	-	-	-	-	-
MW-106	08/22/2019	-	-	-	-	0.16	3.67	20.71	273.9	2,240	-
MW-106	11/18/2019	0.0	17.2	2.1	0.0	-	-	-	-	-	-
MW-106	11/20/2019	-	-	-	-	0.45	3.34	17.77	307.5	2,265	-
MW-106	02/17/2020	3.3	19.6	1.1	0.0	-	-	-	-	-	-
MW-106	02/18/2020	-	-	-	-	2.02	3.30	11.02	421.5	2,082	-
MW-106	05/11/2020	0.7	13.1	3.7	0.0	-	-	-	-	-	-
MW-106	05/14/2020	-	-	-	-	0.15	3.20	13.30	375.8	1,568	-
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-109S	11/19/2019	-	-	-	-	0.59	4.77	15.51	201.8	742	-
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-109	11/19/2019	-	-	-	-	5.16	4.66	15.66	193.7	250	-
MW-110S	10/10/2014	9.9	14.4	-	-	0.50	6.32	18.38	-87.8	651	-
MW-110S	02/24/2015	12.7	4.3	12.8	0.3	-	-	-	-	-	-
MW-110S	02/25/2015	-	-	-	-	1.65	6.39	13.79	-19.5	849	-
MW-110S	11/28/2017	-	-	-	-	-	6.37	14.66	-	-	-
MW-110S	11/20/2019	-	-	-	-	0.95	5.61	15.43	149.2	411	-
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-110	11/20/2019	-	-	-	-	5.07	5.15	15.63	155.3	250	-
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-111	11/19/2019	-	-	-	-	5.39	6.30	15.76	159.4	276	-
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	-

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-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-112S	11/19/2019	-	-	-	-	0.78	4.81	14.92	193.4	442	-
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-112	11/19/2019	-	-	-	-	5.40	4.91	15.55	180.4	204	-
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-113	11/19/2019	-	-	-	-	7.54	6.58	15.70	149.4	225	-
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-114	11/19/2019	-	-	-	-	4.84	6.25	16.05	139.0	256	-
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-121	11/18/2019	7.4	20.4	0.7	0.0	-	-	-	-	-	-
MW-121	11/20/2019	-	-	-	-	0.53	6.21	16.41	35.6	1,431	-
MW-121	02/17/2020	3.5	20.0	0.9	0.0	0.75	6.86	15.38	56.5	1,215	-
MW-121	05/11/2020	0.2	9.8	2.3	0.2	0.16	6.36	15.09	-66.6	1,523	-
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	-

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	08/24/2016	0.4	20.9	0.0	0.0	0.53	6.89	16.99	-127.7	1,040	-
MW-122	11/28/2016	4.5	20.9	4.6	0.0	0.12	6.80	17.29	-105.9	1,090	-
MW-122	02/21/2017	3.5	20.6	1.7	0.0	0.84	7.00	17.62	-23.4	1,000	-
MW-122	05/22/2017	4.7	10.5	1.8	0.0	0.17	6.72	17.52	-61.3	988	-
MW-122	08/28/2017	0.8	20.7	0.2	0.0	0.04	6.93	18.09	-28.3	1,129	-
MW-122	08/30/2017	-	-	-	-	-	6.75	18.6	-	-	-
MW-122	11/28/2017	421.3	16.9	1.7	0.0	5.98	6.42	17.4	116.2	1,220	-
MW-122	02/20/2018	383.5	16.6	1.7	0.0	0.08	6.37	18.1	-5.9	2,530	-
MW-122	05/21/2018	334..6	17.0	1.0	0.0	0.07	6.59	16.9	-73.5	1,327	-
MW-122	08/13/2018	3.5	20.3	0.4	0.0	0.12	6.79	16.8	-66.0	1,230	-
MW-122	11/12/2018	28.1	20.9	0.1	0.0	1.77	7.50	16.6	-10.6	1,236	-
MW-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-122	11/18/2019	4.5	20.3	0.5	0.0	-	-	-	-	-	-
MW-122	11/20/2019	-	-	-	-	0.55	6.30	16.61	40.6	1,253	-
MW-122	02/17/2020	3.7	20.7	0.9	0.0	-	-	-	-	-	-
MW-122	02/18/2020	-	-	-	-	0.94	6.65	14.64	103.8	1,210	-
MW-122	05/11/2020	0.2	20.0	0.6	0.0	-	-	-	-	-	-
MW-122	05/12/2020	-	-	-	-	0.36	6.39	15.10	-42.7	1,059	-
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	-	-	-	-	-	-

Table 4

HISTORICAL GROUNDWATER FIELD PARAMETERS DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Sample Date	Head Space Photo Ionization Detector (ppm)	Head Space Oxygen (%)	Head Space Carbon Dioxide (%)	Head Space Methane (%)	Dissolved Oxygen (mg/L)	Well pH	Well Temperature (deg C)	ORP (mV)	Specific Conductance (µS/cm)	Turbidity (NTU)
MW/RW-123S	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	-
MW/RW-123S	11/18/2019	1.6	1.7	8.5	15.5	-	-	-	-	-	-
MW/RW-123S	11/21/2019	-	-	-	-	0.31	7.31	17.26	-100.6	1,139	-
MW/RW-123S	02/17/2020	2.7	1.8	8.8	28.8	-	-	-	-	-	-
MW/RW-123S	02/19/2020	-	-	-	-	0.25	6.93	13.68	-137.2	1,181	-
MW/RW-123S	05/11/2020	1.6	1.8	8.3	23.7	-	-	-	-	-	-
MW/RW-123S	05/12/2020	-	-	-	-	0.14	6.46	14.97	-114.7	1,123	-
RW-1	10/13/2014	130.0	19.0	-	-	1.34	6.92	18.45	136.4	495	-
RW-1	10/13/2014	79.0	18.9	-	-	3.41	6.41	18.31	158.0	473	-
RW-1	10/14/2014	55.0	18.9	-	-	0.53	6.49	18.46	129.6	475	-
RW-1	10/15/2014	80.7	19.3	-	-	1.99	6.29	18.43	60.4	292	-
RW-1	10/15/2014	-	-	-	-	1.06	6.31	18.49	96.9	314	-
RW-1	10/20/2014	29.2	16.4	3.2	2.4	-	-	-	-	-	-
RW-1	10/22/2014	-	-	-	-	2.14	6.50	18.07	85.5	311	-
RW-1	02/24/2015	178.0	3.2	4.2	0.2	-	-	-	-	-	-
RW-1	02/25/2015	-	-	-	-	0.03	6.76	17.88	-86.4	900	-
RW-1	12/01/2015	6.9	3.1	8.5	9.5	0.07	6.68	17.28	-57.6	760	-
RW-1	03/14/2016	0.1	15.3	3.8	0.0	0.16	6.50	17.06	-89.0	730	-
RW-1	04/21/2016	197.4	20.7	0.3	0.2	4.04	6.08	16.83	134.6	240	-
RW-1	05/23/2016	0.0	20.9	0.0	0.0	2.36	6.35	17.17	56.0	230	-
RW-1	08/24/2016	2.4	20.9	0.1	0.0	2.60	6.38	17.35	28.8	220	
RW-1	11/28/2016	-	-	-	-	0.13	6.37	17.76	19.6	209	-
RW-1	12/08/2016	1.8	20.9	0.1	0.0	-	-	-	-	-	-
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	16.82	-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	18.08	-88.1	692.7	-
RW-1	11/18/2019	4.3	16.5	3.1	0.0	-	-	-	-	-	-
RW-1	11/21/2019	-	-	-	-	0.37	6.57	16.22	18.0	663	-

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	02/17/2020	3.3	17.4	3.0	0.0	-	-	-	-	-	-
RW-1	02/19/2020	-	-	-	-	0.99	6.77	15.45	130.2	680	-
RW-1	05/11/2020	0.8	17.8	2.0	0.0	-	-	-	-	-	-
RW-1	05/12/2020	-	-	-	-	0.33	6.54	15.57	-30.1	681	-
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-05S	11/18/2019	2.3	19.3	0.9	0.0	-	-	-	-	-	-
RW-05S	11/21/2019	-	-	-	-	0.16	7.70	16.00	-263.1	735	-
RW-05S	02/17/2020	5.2	18.7	1.5	0.0	0.51	7.97	12.80	-56.8	569	-
RW-05S	05/11/2020	0.6	19.8	0.6	0.0	0.23	6.53	13.51	-77.1	700	-
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	-

Table 4

HISTORICAL GROUNDWATER FIELD PARAMETERS DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Sample Date	Head Space Photo Ionization Detector (ppm)	Head Space Oxygen (%)	Head Space Carbon Dioxide (%)	Head Space Methane (%)	Dissolved Oxygen (mg/L)	Well pH	Well Temperature (deg C)	ORP (mV)	Specific Conductance (µS/cm)	Turbidity (NTU)
RW-25S	11/28/2016	-	-	-	-	0.15	7.54	15.77	-141.8	847	-
RW-25S	12/08/2016	37.3	20.9	0.1	0.0	-	-	-	-	-	-
RW-25S	02/21/2017	17.6	20.9	0.0	0.0	DRY					
RW-25S	05/22/2017	1.8	20.9	0.2	0.0	2.30	6.46	16.30	-40.90	2,781	-
RW-25S	08/28/2017	1.1	20.1	0.1	0.0	DRY					
RW-25S	11/28/2017	5.6	21.2	0.1	0.0	DRY					
RW-25S	02/20/2018	0.2	16.6	3.0	0.0	-	-	-	-	-	-
RW-25S	02/21/2018	-	-	-	-	2.94	6.19	16.62	-33.20	620	-
RW-25S	05/21/2018	0.7	20.7	0.3	0.0	0.16	7.35	15.89	-105.40	809	-
RW-25S	08/13/2018	0.8	20.6	0.6	0.0	0.21	6.75	16.88	-105.9	1,480	-
RW-25S	10/02/2018	-	-	-	-	-	6.29	-	-	-	-
RW-25S	10/18/2018	-	-	-	-	-	6.86	-	-	-	-
RW-25S	11/12/2018	6.1	20.9	0.4	0.0	2.50	4.91	16.70	37.0	1,549	-
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-25S	11/18/2019	9.1	15.7	3.1	0.0	-	-	-	-	-	-
RW-25S	02/17/2020	8.1	17.9	2.3	0.0	-	-	-	-	-	-
RW-25S	05/11/2020	3.1	20.1	0.4	0.0	-	-	-	-	-	-
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

Table 4

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Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Sample Date	Head Space Photo Ionization Detector (ppm)	Head Space Oxygen (%)	Head Space Carbon Dioxide (%)	Head Space Methane (%)	Dissolved Oxygen (mg/L)	Well pH	Well Temperature (deg C)	ORP (mV)	Specific Conductance (µS/cm)	Turbidity (NTU)
RW-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-28S	11/18/2019	0.6	7.6	2.6	0.0	-	-	-	-	-	-
RW-28S	11/19/2019	-	-	-	-	0.17	7.06	17.96	-76.2	1,078	-
RW-28S	02/17/2020	1.5	4.8	1.8	0.0	0.76	6.89	12.89	-2.5	1,840	-
RW-28S	05/11/2020	3.5	6.1	1.6	0.0	-	-	-	-	-	-
RW-28S	05/12/2020	-	-	-	-	0.56	6.42	14.56	86.0	2,045	-
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					
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-30S	11/18/2019	0.0	7.9	3.7	0.0	-	-	-	-	-	-
RW-30S	11/19/2019	-	-	-	-	1.82	7.23	18.46	-93.4	693	-
RW-30S	02/17/2020	2.3	7.2	3.7	0.0	-	-	-	-	-	-
RW-30S	05/11/2020	2.3	12.5	2.7	0.0	-	-	-	-	-	-
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	-

Table 4

HISTORICAL GROUNDWATER FIELD PARAMETERS DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Sample Date	Head Space Photo Ionization Detector (ppm)	Head Space Oxygen (%)	Head Space Carbon Dioxide (%)	Head Space Methane (%)	Dissolved Oxygen (mg/L)	Well pH	Well Temperature (deg C)	ORP (mV)	Specific Conductance (µS/cm)	Turbidity (NTU)
RW-116S	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	-
RW-116S	11/18/2019	19.2	9.4	6.2	0.0	-	-	-	-	-	-
RW-116S	11/22/2019	-	-	-	-	0.39	6.95	16.67	-45.9	1,322	-
RW-116S	02/17/2020	19.2	2.1	10.8	0.0	-	-	-	-	-	-
RW-116S	02/19/2020	-	-	-	-	0.29	6.59	12.63	-84.2	2,381	-
RW-116S	05/11/2020	0.4	19.8	0.5	0.0	-	-	-	-	-	-
RW-116S	05/14/2020	-	-	-	-	0.26	5.86	13.36	-20.1	2,838	-
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	-

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	08/31/2017	-	-	-	-	-	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-117S	11/18/2019	8.8	16.0	2.6	0.0	-	-	-	-	-	-
RW-117S	11/19/2019	-	-	-	-	1.75	6.74	16.64	-73.2	659	-
RW-117S	02/17/2020	27.2	2.6	11.9	0.0	-	-	-	-	-	-
RW-117S	05/11/2020	4.8	6.6	8.6	0.0	-	-	-	-	-	-
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	-
RW-119S	11/22/2019	-	-	-	-	0.54	7.22	16.07	-133.5	995	-
RW-119S	02/19/2020	-	-	-	-	0.47	7.11	11.87	-111.9	1,192	-
RW-119S	05/14/2020	-	-	-	-	0.22	6.66	15.02	-95.5	1,090	-
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

Table 4

HISTORICAL GROUNDWATER FIELD PARAMETERS DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Sample Date	Head Space Photo Ionization Detector (ppm)	Head Space Oxygen (%)	Head Space Carbon Dioxide (%)	Head Space Methane (%)	Dissolved Oxygen (mg/L)	Well pH	Well Temperature (deg C)	ORP (mV)	Specific Conductance (µS/cm)	Turbidity (NTU)
TW-02*	11/18/2019	-	-	-	-	0.22	9.46	16.95	-146.0	640	7.52
TW-02*	02/18/2020	-	-	-	-	0.28	6.52	15.22	206.3	798	4.02
TW-02*	05/12/2020	-	-	-	-	0.21	6.73	14.46	-81.0	739	5.67
TW-03	10/13/2014	0.3	19.5	-	-	1.86	5.73	19.23	-	503	-
TW-03	10/23/2014	-	-	-	-	0.71	6.12	18.54	38.1	489	-
TW-03	02/24/2015	0.0	3.1	10.4	0.3	-	-	-	-	-	-
TW-03	02/25/2015	-	-	-	-	0.75	6.21	8.92	64.8	609	-
TW-03	05/11/2015	0.0	8.5	10.2	0.0	2.03	5.77	20.61	110.5	480	-
TW-03	08/04/2015	0.0	7.8	14.3	0.0	0.26	5.40	21.76	80.4	602	70.6
TW-03	03/14/2016	0.0	9.2	8.0	0.1	-	-	-	-	-	-
TW-03	05/23/2016	WELL OPEN & BEING SAMPLED UPON ARRIVAL, NEVER RECEIVED LOW-FLOW SAMPLING DATA									
TW-03	08/24/2016	164.4	-	-	-	-	-	-	-	-	-
TW-03	08/25/2016	-	-	-	-	0.24	5.33	22.34	92.4	762	5.87
TW-03	08/30/2016	132.6	21.8	0.1	0.0	-	-	-	-	-	-
TW-03	11/28/2016	5.7	19.0	1.8	0.0	0.93	5.68	18.07	98.1	629	4.42
TW-03	02/21/2017	0.4	19.4	0.9	0.0	3.39	5.84	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	0.19	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-03	11/18/2019	0.0	12.2	7.0	0.0	-	-	-	-	-	-
TW-03*	11/19/2019	-	-	-	-	0.38	6.06	16.95	7.3	1,050	5.41
TW-03	02/17/2020	2.1	20.0	1.0	0.0	-	-	-	-	-	-
TW-03*	02/18/2020	-	-	-	-	0.47	5.24	12.16	259.3	1,104	2.18
TW-03	05/11/2020	0.1	17.5	2.8	0.0	-	-	-	-	-	-
TW-03*	05/12/2020	-	-	-	-	0.39	5.38	13.88	42.0	1,108	0.88
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

Table 4

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Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Sample Date	Head Space Photo Ionization Detector (ppm)	Head Space Oxygen (%)	Head Space Carbon Dioxide (%)	Head Space Methane (%)	Dissolved Oxygen (mg/L)	Well pH	Well Temperature (deg C)	ORP (mV)	Specific Conductance (µS/cm)	Turbidity (NTU)
TW-04*	08/20/2019	-	-	-	-	1.45	5.66	19.52	9.9	1,765	9.41
TW-04*	11/18/2019	-	-	-	-	1.99	7.00	17.42	28.5	1,876	4.19
TW-04*	02/17/2020	-	-	-	-	6.89	5.22	12.71	287.6	1,516	6.88
TW-04*	05/11/2020	-	-	-	-	8.00	5.36	13.43	39.0	1,381	4.04
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	-	-	-	-
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-05	11/18/2019	22.5	7.6	10.1	0.0	-	-	-	-	-	-
TW-05*	11/19/2019	-	-	-	-	3.74	5.07	17.25	122.3	1,652	17.6
TW-05	02/17/2020	0.9	20.9	0.1	0.0	-	-	-	-	-	-
TW-05*	02/18/2020	-	-	-	-	4.32	5.20	11.75	277.7	1,090	3.19
TW-05	05/11/2020	0.2	15.0	5.6	0.0	-	-	-	-	-	-
TW-05*	05/11/2020	-	-	-	-	5.94	5.69	13.58	93.7	953	18.2
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	-

Table 4

HISTORICAL GROUNDWATER FIELD PARAMETERS DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Sample Date	Head Space Photo Ionization Detector (ppm)	Head Space Oxygen (%)	Head Space Carbon Dioxide (%)	Head Space Methane (%)	Dissolved Oxygen (mg/L)	Well pH	Well Temperature (deg C)	ORP (mV)	Specific Conductance (µS/cm)	Turbidity (NTU)
TW-06	02/24/2015	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-06	11/18/2019	0.0	11.9	5.2	0.0	-	-	-	-	-	-
TW-06*	11/19/2019	-	-	-	-	0.27	6.72	17.68	2.8	1,275	8.64
TW-06	02/17/2020	4.1	20.9	0.1	0.0	-	-	-	-	-	-
TW-06*	02/18/2020	-	-	-	-	0.54	5.84	12.15	257.5	625	2.89
TW-06	05/11/2020	0.1	10.9	4.5	0.0	-	-	-	-	-	-
TW-06*	05/12/2020	-	-	-	-	0.24	6.24	13.64	-2.8	634	1.59
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	-	-	-	-	-	-

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	11/28/2016	0.5	20.9	1.0	0.0	-	-	-	-	-	-
TW-07	11/30/2016	-	-	-	-	6.66	4.60	15.79	172.6	524	3.92
TW-07	02/21/2017	0.2	20.0	0.5	0.0	2.27	4.90	11.29	56.2	580	-
TW-07	05/22/2017	0.8	18.9	0.9	0.0	0.89	4.89	17.01	149.0	788	20.0
TW-07	08/28/2017	0.1	20.0	0.3	0.0	1.92	5.97	21.69	74.2	1,011.5	-
TW-07	11/28/2017	0.0	20.6	0.3	0.0	2.25	5.11	16.23	121.0	922.0	3,373 (au)
TW-07	02/20/2018	0.1	20.3	0.2	0.0	-	-	-	-	-	-
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-07	11/18/2019	0.0	19.6	1.5	0.0	-	-	-	-	-	-
TW-07*	11/18/2019	-	-	-	-	3.00	6.44	13.68	46.3	1,101	1.85
TW-07	02/17/2020	2.8	17.2	3.2	0.0	-	-	-	-	-	-
TW-07*	02/17/2020	-	-	-	-	3.39	5.31	10.52	338.7	746	9.92
TW-07	05/11/2020	0.2	2.8	11.3	0.0	-	-	-	-	-	-
TW-07*	05/11/2020	-	-	-	-	2.09	5.72	14.29	-11.4	586	636 (au)
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	561.9	-
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	465.3	-
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
TW-14*	02/17/2020	-	-	-	-	3.32	7.33	7.1	225.3	577	0.65
TW-14*	05/11/2020	-	-	-	-	1.40	7.27	13.5	-24.2	554	1.01

Notes:

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

Table 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)

* = 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	<0.040	<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-01S	11/20/2019	47	-	-	243	<0.040	<0.015	204	53.6	8.45
MW-01S	2/18/2020	4.3 J	-	-	228	<0.040	0.034 J	171	31.3	6.26
MW-01S	5/11/2020	440	-	-	187	<0.040	<0.015	211	46.6	6.92
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	-	2,150	0.64	<0.010	<5	199	8.89
MW/RW-10S	11/30/2017	<0.11	-	-	1,640	<0.11	<0.010	75.2	242	10.8
MW/RW-10S	2/22/2018	16.7	-	-	1,240	<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	2.51
MW/RW-10S	8/21/2019	25	-	-	261	<0.040	<0.015	45.9	48.4	3.92
MW/RW-10S	11/21/2019	32	-	-	310	<0.040	0.047 J	256	176	6.58
MW/RW-10S	2/19/2020	170	-	-	505	<0.040	0.025 J	208	188	4.54
MW/RW-10S	5/14/2020	110	-	-	467	<0.040	<0.015	226	197	5.27
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	2,000	-	-	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

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	8/25/2016	<3.0	-	-	42.5	1.8	<0.015	10.9	0.12	0.485
MW/RW-14	11/29/2016	<3.0	-	-	37.9	1.60	<0.015	8.8	0.029 J	0.107
MW/RW-14	2/22/2017	6	-	-	40.3	1.50	<0.015	9.1	0.20	0.190
MW/RW-14	5/22/2017	1.5	-	-	37.7	1.80	<0.010	8.8	<0.20	0.044
MW/RW-14	11/30/2017	0.11	-	-	41.4	1.80	<0.010	6.7	<0.20	<0.015
MW/RW-14	2/21/2018	0.11	-	-	37.6	1.80	<0.010	8.1	<0.20	0.0191
MW/RW-14	5/24/2018	64.80	-	-	45.2	0.79	<0.010	58.9	13.80	1.62
MW/RW-14	8/15/2018	<3.0	-	-	36.7	1.60	<0.015	9.7	0.36	0.32
MW/RW-14	11/13/2018	850	-	-	83.5	<0.040	<0.015	74.5	40.7	2.32
MW/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/RW-14	11/19/2019	7,200	-	-	19.9	<0.040	0.075	190.0	50.3	2.81
MW/RW-14	2/19/2020	12,000	-	-	17.3	<0.040	0.028 J	265	-	-
MW/RW-14	5/14/2020	9,700	-	-	17.6	<0.040	<0.015	277	94.7	6.32
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-25S	11/19/2019	-	-	-	-	-	-	294	-	-
MW-25S	2/19/2020	-	-	-	-	-	-	384	-	-
MW-25S	5/14/2020	-	-	-	-	-	-	320	-	-
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/RW-25	11/19/2019	1,200	-	-	227	<0.040	0.082	130	28.5	3.26
MW/RW-25	2/19/2020	960		-	186	<0.040	<0.015	183	27.5	2.88
MW/RW-25	5/11/2020	450	-	-	168	<0.040	<0.015	152	22.0	2.39
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

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-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	39.8	-	-	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-27	11/21/2019	720	-	-	659	<0.040	0.039 J	169	59.3	10.4
MW-27	2/17/2020	870	-	-	699	<0.040	0.069	177	82.4	13.3
MW-27	5/12/2020	770	-	-	826	<0.040	<0.015	140	83.0	15.6
MW/RW-31	10/23/2014	4,300	-	-	57.2	<0.040	<0.015	416	2.6	-
MW/RW-31	2/25/2015	5,000	-	-	69.7	<0.040	<0.015	487	9.3	9.84
MW/RW-31	5/13/2015	5,700	-	-	70.1	<0.040	<0.015	510	15.4	10.8
MW/RW-31	8/5/2015	5,400	-	-	85.3	<0.040	<0.015	482	10	5.52
MW/RW-31	11/30/2017	-	-	-	-	-	-	102	-	-
MW-33	10/23/2014	43	-	-	253	1.9	<0.015	119	0.068	-
MW-33	2/25/2015	9.8	-	-	235	2.5	<0.015	55.6	0.030 J	1.23
MW-33	5/13/2015	7.3	-	-	254	2	<0.015	81.7	0.075	0.975
MW-33	8/5/2015	17	-	-	253	1.8	<0.015	97.7	<0.010	0.605
MW-33	8/30/2017	-	-	-	-	-	-	41.5	-	-
MW-51S	10/22/2014	7,100	-	-	36.3	0.047 J	<0.015	564	28.7	-
MW-51S	2/26/2015	8,900	-	-	6.2	<0.040	0.12	518	82.4	4.49
MW-51S	5/13/2015	11,000	-	-	<1.5	<0.040	0.2	676	77.3	1.74
MW-51S	8/6/2015	10,000	-	-	26.1	<0.040	0.046	480	48.3	1.03
MW-51S	3/15/2016	13,000	-	-	535	<0.040	0.049 J	585	69	4.64
MW-51S	5/24/2016	3,800	-	-	884	<0.040	0.039 J	335	32	3.46
MW-51S	8/25/2016	1,700	-	-	895	<0.040	0.11	354	22	10.3
MW-51S	11/29/2016	4,800	-	-	138	<0.040	0.039 J	617	6.5	2.11
MW-51S	2/21/2017	2,400	-	-	60	<0.40	<0.15	477	2.4	4.08
MW-51S	5/24/2017	20.4	-	-	1,160	0.12	<0.010	52.5	80.8	14.1
MW-51S	8/29/2017	29.3	223	-	836	<0.11	<0.010	169	90.1	10.9
MW-51S	11/29/2017	418	-	-	464	<0.11	<0.010	493	135	5.7
MW-51S	2/22/2018	436	-	-	577	<0.11	<0.010	287	7.7	5.8
MW-51S	5/21/2018	-	-	-	604	-	-	341	-	-
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-51S	11/20/2019	3,100	-	-	73	<0.040	<0.015	222	37.0	1.19
MW-51S	2/18/2020	2,800	-	-	22.5	<0.040	<0.015	354	74.2	1.37
MW-51S	5/13/2020	2,500	-	-	51.4	<0.040	<0.015	342	78.7	0.58
MW/RW-51	11/30/2017	-	-	-	-	-	-	70	-	-
MW/RW-51	2/21/2018	-	-	-	157	-	-	-	-	-
MW/RW-51	5/22/2018	-	-	-	57.6	-	-	-	-	-

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-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/RW-51	11/20/2019	130	-	-	493	<0.040	0.11	184	85.0	23.3
MW/RW-51	2/18/2020	310	-	-	358	<0.040	0.038 J	296	104	35.3
MW/RW-51	5/13/2020	910	-	-	185	<0.040	<0.015	455	120	15.8
MW-52	8/28/2017	-	-	-	-	-	-	93.8	-	-
MW-70	2/26/2015	<3.0	-	-	361	0.71	<0.015	35.1	0.048 J	2.62
MW-70	5/12/2015	3.4 J	-	-	357	0.7	<0.015	40.7	<0.50	6.13
MW-70	8/6/2015	<3.0	-	-	365	0.73	<0.015	29.6	0.089	1.29
MW-70	8/28/2017	-	-	-	-	-	-	24.6	-	-
MW/RW-72S	10/22/2014	4,400	-	-	80.3	0.093 J	0.019 J	328	9.1	-
MW/RW-72S	2/25/2015	3,600	-	-	64.5	<0.040	<0.015	615	16.7	8.49
MW/RW-72S	5/13/2015	4,100	-	-	130	<0.040	0.097	597	24.6	8.46
MW/RW-72S	8/5/2015	2,300	-	-	207	<0.040	0.067	697	30.7	11.7
MW/RW-72S	3/14/2016	310	-	-	508	<0.040	0.054	543	71.4	16.7
MW/RW-72S	5/25/2016	20	-	-	1,500	<0.040	<0.015	<0.7	51.9	34.8
MW/RW-72S	8/25/2016	15	-	-	982	<0.040	<0.015	<1.7	78.9	24.5
MW/RW-72S	5/23/2017	14	-	-	2,320	<0.11	<0.010	<5.0	238	56.6
MW/RW-72S	8/30/2017	16.1	657	-	3,260	<0.11	<0.010	<5.0	120	50.2
MW/RW-72S	11/30/2017	23.1	-	-	1,880	<0.11	<0.010	<5.0	110	34.5
MW/RW-72S	2/21/2018	0.28	-	-	2,010	0.36	0.043	<5.0	4.4	58.3
MW/RW-72S	5/24/2018	51.4	-	-	2,030	<0.11	<0.010	<5.0	35.2	27
MW/RW-72S	8/14/2018	990	-	-	1,500	<0.040	<0.015	<1.7	99.3	13.4
MW/RW-72S	11/14/2018	240	-	-	1,480	0.22	<0.015	<1.7	30.2	14.1
MW/RW-72S	2/14/2019	1,000	-	-	1,160	<0.040	<0.015	<1.7	88.0	8.71
MW/RW-72S	5/22/2019	1,200	-	-	928	<0.040	<0.015	<1.7	26.8	6.56
MW/RW-72S	8/22/2019	2,100	-	-	621	<0.040	0.020 J	<2.6	49.3	3.76
MW/RW-72S	11/19/2019	190	-	-	1,120	<0.040	0.025 J	<2.6	56.5	8.82
MW/RW-72S	2/18/2020	260	-	-	1,210	<0.040	0.045 J	<2.6	153	12.9
MW/RW-72S	5/13/2020	190	-	-	1,520	<0.040	<0.015	<2.6	75.8	11.5
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	17.4	-		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

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/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/RW-72	11/19/2019	230	-	-	970	<0.040	<0.015	<2.6	3.7	25.4
MW/RW-72	2/18/2020	360	-	-	1,180	<0.040	<0.015	<2.6	5.48	29.7
MW/RW-72	5/13/2020	360	-	-	1,260	<0.040	<0.015	<2.6	9.63	26.5
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-100S	11/20/2019	14	-	-	366	<0.040	0.030 J	39.5	57.6	11.50
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-100	11/20/2019	<3.0	-	-	39.6	3	<0.015	27.3	<0.0150	0.0102
MW-102	8/30/2017	-	-	-	-	-	-	44.6	-	-
MW-103	8/30/2017	-	-	-	-	-	-	55.4	-	-
MW-104	8/30/2017	-	9.28	-	29.2	-	-	256	-	-
MW-105	8/30/2017	-	-	-	-	-	-	117	-	-
MW-106	2/25/2015	260	-	-	1,600	<0.040	0.021 J	<7.0	122	2.23
MW-106	5/12/2015	960	-	-	1,160	<0.040	0.15	<0.70	50.1	1.49
MW-106	8/5/2015	2,100	-	-	1,010	<0.040	<0.015	35.1	32.7	1.38
MW-106	3/15/2016	1,600	-	-	1,250	<0.040	0.016 J	<0.70	25.1	1.67
MW-106	5/24/2016	3 J	-	-	1,310	<0.040	<0.015	<0.7	4.4	2.69
MW-106	8/25/2016	<3.0	-	-	1,270	<0.040	<0.015	<1.7	3.3	1.42
MW-106	11/29/2016	6.9	-	-	1,410	<0.040	<0.015	<1.7	9.6	1.55
MW-106	2/22/2017	4.3 J	-	-	1,310	<0.040	<0.015	<1.7	3.4	1.78
MW-106	5/23/2017	11.3	-	-	1,690	0.38	0.013	<5.0	5.2	4.28
MW-106	2/21/2018	0.14	-	-	1,700	<0.11	<0.010	<5.0	2.9	3.11
MW-106	5/24/2018	<0.11	-	-	823	0.24	<0.010	<5.0	<0.20	0.136
MW-106	8/14/2018	7.8	-	-	1,680	0.13	<0.015	<1.7	6.6	2.71
MW-106	11/13/2018	12	-	-	992	0.42	<0.015	<1.7	5.07	1.77
MW-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-106	11/20/2019	170	-	-	1,320	<0.040	0.023 J	<2.6	183	4.31
MW-106	2/18/2020	61	-	-	1,130	0.12	<0.015	<2.6	11.8	1.71
MW-106	5/14/2020	110	-	-	901	<0.040	<0.015	<2.6	18.3	1.05
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

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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-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-121	11/20/2019	290	-	-	194	<0.040	0.11	352	132	7.00
MW-121	2/17/2020	450	-	-	252	<0.040	0.090	353	119	7.93
MW-121	5/11/2020	290	-	-	251	<0.040	<0.015	372	134	7.94
MW-122	12/2/2015	1,000	-	-	94.3	<0.040	<0.015	451	7.2	13.1
MW-122	5/25/2016	450	-	-	188	0.048 J	<0.015	300	90.8	16.3
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
MW-122	11/20/2019	740	-	-	198	<0.040	0.07	345	41.9	6.35
MW-122	2/18/2020	1,200	-	-	165	<0.040	0.026 J	341	52.5	5.95
MW-122	5/12/2020	1,700	-	-	166	<0.040	<0.015	306	48.6	5.14
RW-123S	8/29/2017	-	74.9	-	236	-	-	165	-	-
RW-123S	11/29/2017	-	-	-	77.2	-	-	-	-	-
RW-123S	2/22/2018	-	-	-	154	-	-	-	-	-

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)
RW-123S	5/23/2018	-	-	-	86.1	-	-	-	-	-
RW-123S	11/13/2018	-	-	-	-	-	-	160	-	-
RW-123S	2/12/2019	-	-	-	51.4	-	-	267	-	-
RW-123S	11/21/2019	6,500	-	-	-	-	-	-	-	-
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-1	11/21/2019	-	-	-	53.9	-	-	210	-	-
RW-1	2/19/2020	-	-	-	38.1	-	-	240	-	-
RW-1	5/12/2020	-	-	-	33.2	-	-	249	-	-
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	-	-
RW-05S	11/21/2019	-	-	-	<1.5	-	-	220	-	-
RW-05S	2/17/2020	-	-	-	60	-	-	119	-	-
RW-05S	5/11/2020	-	-	-	104	-	-	113	-	-
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
MW/RW-05	11/22/2019	-	-	-	-	-	-	195	-	-
MW/RW-05	2/19/2020	10,000	-	-	304	<0.040	<0.015	265	36.2	2.96
MW/RW-05	5/12/2020	-	-	-	-	-	-	254	-	-
RW-25S	2/22/2018	-	-	-	286	-	-	140	-	-
RW-25S	5/21/2018	-	-	-	58.6	-	-	320	-	-
RW-25S	8/14/2018	-	-	-	284	-	-	451	-	-
RW-25S	11/12/2018	-	-	-	-	-	-	112	-	-
RW-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	-	-

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)
RW-28S	2/14/2019	-	-	-	1,150	-	-	102	-	-
RW-28S	5/21/2019	-	-	-	1,060	-	-	133	-	-
RW-28S	8/20/2019	-	-	-	370	-	-	201	-	-
RW-28S	11/18/2019	-	-	-	410	-	-	252	-	-
RW-28S	2/17/2020	-	-	-	911	-	-	165	-	-
RW-28S	5/12/2020	-	-	-	852	-	-	151	-	-
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-116S	11/22/2019	-	-	-	400	-	-	121	-	-
RW-116S	2/19/2020	-	-	-	1,090	-	-	94.6	-	-
RW-116S	5/14/2020	-	-	-	1,300	-	-	62.2	-	-
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-117S	11/18/2019	-	-	-	140	-	-	95.5	-	-
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-118S	11/18/2019	-	-	-	260	-	-	83.4	-	-
RW-118S	5/14/2020	-	-	-	555	-	-	28.2	-	-
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	-	-
RW-119S	11/22/2019	-	-	-	166	-	-	378	-	-
RW-119S	2/19/2020	-	-	-	112	-	-	419	-	-
RW-119S	5/14/2020	-	-	-	84.9	-	-	408	-	-
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

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-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-03	11/19/2019	44	-	-	364	<0.040	0.039 J	13.9	68.1	7.77
TW-03	2/18/2020	87	-	-	500	<0.040	0.032 J	11.4	53.1	7.09
TW-03	5/12/2020	95	-	-	492	<0.040	<0.015	8.8	57.8	6.63
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-05	11/19/2019	43	-	-	1,190	<0.040	0.033 J	<2.6	184	6.07
TW-05	2/18/2020	22	-	-	523	<0.040	0.047 J	4.9 J	95.8	5.03
TW-05	5/11/2020	8.2	-	-	543	<0.040	<0.015	25.9	98.4	4.35
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

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	5/23/2017	372	-	-	535	<0.11	<0.010	<5	97.9	4.44
TW-06	8/30/2017	39.4	226	<0.2	1,530	<0.11	<0.01	<5	247	6.68
TW-06	11/28/2017	20.1	-	-	1,840	<0.11	<0.010	<5.0	299	12.7
TW-06	2/21/2018	7.1	-	-	822	0.46	<0.010	<5.0	95.6	6.32
TW-06	5/22/2018	-	-	-	321	-	-	<5.0	-	-
TW-06	5/24/2018	4.8	-	-	-	1.40	<0.010	-	1.2	0.17
TW-06	8/14/2018	52	-	-	420	<0.040	<0.015	7.5	77.1	1.85
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-06	11/19/2019	120	-	-	587	<0.040	0.042 J	26.4	142	2.83
TW-06	2/18/2020	54	-	-	235	0.15	0.051	63.2	44.0	0.927
TW-06	5/12/2020	43	-	-	210	<0.040	<0.015	55.6	54.0	0.99
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-07	11/18/2019	27	-	-	488	0.2	0.032 J	9.4	83.6	7.74
TW-07	2/17/2020	60	-	-	380	<0.040	0.028 J	10.4	31.0	4.77
TW-07	5/12/2020	81	-	-	345	<0.040	<0.015	12.9	24.6	3.64
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	-		-	-	-	-		539
March 15, 2016	0.1	0.1	2	14.5	340	-		**25.4**	2.1	2	0.73		627
March 16, 2016	0.3	0.3	10	14.0	340	150		**25.4**	8.5	11	0.52		875
March 17, 2016	0.4	0.4	19	13.7	360	313	830	**26.9**	10.1	21	0.22	2,572	993
March 21, 2016	1.3	1.3	49	15.1	320	189		**23.9**	29.8	50	0.20		1,358
March 24, 2016	3	2.5	108	-	-	-		-	-	-	0.16		1,920
March 30, 2016	6	5.4	238	15.1	360	210		**26.9**	212	262	0.08		2,572
Q1 2016	**11**	**10**		**14.7**	**341**	**216**			**262**		**0.18**	**2,572**	
April 7, 2016	8	7.8	426	14.7	350	120	135	**4.2**	33	295	0.14		4,207
April 13, 2016	6	5.9	568	13.7	380	71	-	21.7	129	424	0.14	4,671	5,375
April 20, 2016	7	6.3	718	14.7	360	63	-	18.0	113	537	0.12		6,431
April 27, 2016	7	5.5	851	15.1	330	59	-	15.7	87	624	0.10		7,243
May 5, 2016	8	7.7	1035	15.7	330	105	74	**2.2**	17	640	0.12		8,530
May 18, 2016	13	8.9	1248	14.4	350	48	-	13.4	119	759	0.12	4,121	10,084
May 25, 2016	7	4.8	1362	15.3	340	-	-	**2.3**	11	770	0.19		11,364
June 8, 2016	14	8.8	1573	16.5	340	37	0	**0.0**	0	770	0.15	5,196	13,273
June 21, 2016	13	12.6	1876	15.2	360	24.4	-	7.0	89	859	0.18		16,560
Q2 2016	**83**	**68**		**15.0**	**349**	**66**			**597**		**0.14**	**13,988**	
July 12, 2016	21	21.0	2379	15.8	350	44.0	<53	12.3	259	1118	0.22	9,218	23,064
July 21, 2016	9	8.8	2589	16.3	330	80.2	-	21.2	186	1303	0.22		25,778
August 4, 2016	14	14.0	2926	16.5	350	26.4	70	**2.2**	31	1334	0.30		31,745
August 15, 2016	11	7.4	3103	16.0	350	-	-	**2.2**	16	1350	0.38	10,131	35,795
August 17, 2016	2	0.2	3108	14.5	325	46.4	-	12.1	3	1353	0.38		35,909
September 1, 2016	15	10.7	3365	15.8	340	34.2	71	**2.2**	23	1376	0.24		39,684
September 22, 2016	21	20.8	3865	16.6	345	23.7	-	6.6	136	1513	0.20	11,516	45,749
September 30, 2016	8	8.0	4056	-	345	-	-	**2.2**	18	1530	0.15		47,425
Q3 2016	**101**	**91**		**15.9**	**342**	**42**			**671**		**0.24**	**30,865**	

Table 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**	-	-	-		86,781
September 25, 2018	4	0.1	10085	18.0	250	22.4	590	**13.3**	1.3	2914	20.73	4335	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	113318	810,165
September 17, 2019	14	9.3	13829	15.7	365	-	-	0.5	5	3018	2.75		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**	
October-19	System Off												
November-19	System Off												
December-19	System Off												
Q4 2019	**System Off**												
January-20	System Off												
February-20	System Off												
March-20	System Off												
Q1 2020	**System Off**												
April-20	System Off												
May-20	System Off												

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)
June-20	System Off												
Q2 2020	**System Off**												

Notes:

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

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	-	-	-	-		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	43,907	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		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	117,175	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		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	87,572	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		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	61,464	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		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	66,632	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		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	97,504	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**																	
October 1, 2019	System Off																	
November 22, 2019	System Off																	
December 5, 2019	System Off																	
Q4 2019	**System Off**																	
January 14, 2020	System Off																	
February 17, 2020	System Off																	
March 10, 2020	System Off																	
Q1 2020	**System Off**																	
April, 2020	System Off																	
May, 2020	System Off																	
June, 2020	System Off																	
Q2 2020	**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	SP-02	SP-03	SP-04	SP-05	SP-06	SP-07	SP-08	SP-09	SP-10	SP-11	SP-12	SP-13	SP-14	SP-15
			Flow (scfm)	Flow (scfm)	Flow (scfm)	Flow (scfm)	Flow (scfm)	Flow (scfm)	Flow (scfm)	Flow (scfm)	Flow (scfm)	Flow (scfm)	Flow (scfm)	Flow (scfm)	Flow (scfm)	Flow (scfm)	Flow (scfm)
March 15, 2016	0.0	0.0	0.8	0.7	0.6	0.8	0.8	0.6	0.8	0.7							
March 16, 2016	0.4	0.4	0.8	0.8	0.7	0.7	0.7	0.7	0.7	0.7							
March 17, 2016	0.9	0.9	0.7	0.75	0.7	0.7	0.7	0.7	0.75	0.75							
March 21, 2016	1.3	1.3	1.0	1.0	1.0	1.0	1.2	1.1	1.0	1.0							
March 30, 2016	9.0	8.3	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8							
Q1 2016	**12**	**11**	**0.8**	**0.8**	**0.8**	**0.8**	**0.8**	**0.8**	**0.8**	**0.8**							
April-16	28	27.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8							
May-16	28	23.4	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.5	0.5	0.5	0.5	0.5	0.5	0.5
June-16	27	22.7	0.8	0.75	0.8	0.8	0.8	0.75	0.75	0.8	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Q2 2016	**83**	**73**	**0.8**	**0.8**	**0.8**	**0.8**	**0.8**	**0.8**	**0.8**	**0.8**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**
July-16	30	30.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.5	0.5	0.5	0.5	0.5	0.5	0.5
August-16	27	22.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
September-16	44	42.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.3	0	0
Q3 2016	**101**	**95**	**0.6**	**0.6**	**0.6**	**0.6**	**0.6**	**0.6**	**0.6**	**0.6**	**0.4**	**0.4**	**0.4**	**0.4**	**0.4**	**0.3**	**0.3**
October-16	20	18.9	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.3	0	0
November-16	33	32.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.3	0	0
December-16	30	24.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.3	0	0
Q4 2016	**83**	**75**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.0**	**0.0**
January-17	39	18.0	0.5	0.5	0.5	0.5	0.5	0.75	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.3	0.3
February-17	23	22.6	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.5	0.5	0.5	0.5	0.3	0.3	0.3
March-17	35	35.0	0.75	0.75	0.75	0.75	0.75	0.3	0.75	0.75	0.5	0.5	0.5	0.5	0.5	0.3	0.3
Q1 2017	**97**	**76**	**0.7**	**0.7**	**0.7**	**0.7**	**0.7**	**0.6**	**0.7**	**0.7**	**0.5**	**0.4**	**0.4**	**0.4**	**0.4**	**0.3**	**0.3**
April-17	20	16.4	0.75	0.75	0.75	0.75	0.75	0.3	0.75	0.75	0.5	0.5	0.5	0.5	0.5	0.3	0.3
May-17	36*	36.0	0.75	0.75	0.75	0.75	0.75	0.3	0.75	0.75	0.5	0.5	0.5	0.5	0.5	0.3	0.3
June-17	23	20.1	0.75	0.75	0.75	0.75	0.75	0.3	0.75	0.75	0.5	0.5	0.5	0.5	0.5	0.3	0.3
Q2 2017	**79**	**73**	**0.8**	**0.8**	**0.8**	**0.8**	**0.8**	**0.3**	**0.8**	**0.8**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.3**	**0.3**

Table 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	35	0.0	System Off														
August-19	30	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**
October-19	34	0.0	System Off														
November-19	30	0.0	System Off														
December-19	30	0.0	System Off														
Q4 2019	**94**	**0**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**
January-20	25	0.0	System Off														
February-20	34	0.0	System Off														
March-20	22	0.0	System Off														
Q1 2020	**81**	**0**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**
April-20	30	0.0	System Off														
May-20	31	0.0	System Off														
June-20	30	0.0	System Off														
Q2 2020	**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**						

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	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**						
October-19	0	0	0	0	0	0.0	0	0	105	94	85	3018	3302	451
November-19	0	0	0	0	0	0.0	0	0	105	94	85	3018	3302	451
December-19	0	0	0	0	0	0.0	0	0	105	94	85	3018	3302	451

Table 9

HYDROCARBON RECOVERY SUMMARY

Potomac River Generating Station
1400 North Royal St
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	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)
Q4 2019			**0**			**0.0**		**0**						
January-20	0	0	0	0	0	0.0	0	0	105	94	85	3018	3302	451
February-20	0	0	0	0	0	0.0	0	0	105	94	85	3018	3302	451
March-20	0	0	0	0	0	0.0	0	0	105	94	85	3018	3302	451
Q1 2020			**0**			**0.0**		**0**						
April-20	0	0	0	0	0	0.0	0	0	105	94	85	3018	3302	451
May-20	0	0	0	0	0	0.0	0	0	105	94	85	3018	3302	451
June-20	0	0	0	0	0	0.0	0	0	105	94	85	3018	3302	451
Q2 2020			**0**			**0.0**		**0**						

Notes:

TPE - total phase extraction
P&T - pump & treat
TPH-DRO - total petroleum hydrocarbons - diesel range organics
LNAPL - light non-aqueous phase liquid
gal - gallon
mg/L - milligrams per liter
lbs - pounds
ft - feet
NS - not sampled

[1] - LNAPL drum includes LNAPL bailed previously during well gauge and bail events

[2] - Vapor-Phase recovery values are calculated within the Total Phase Extraction Operational Summary Table

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

** - Groundwater was not be 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

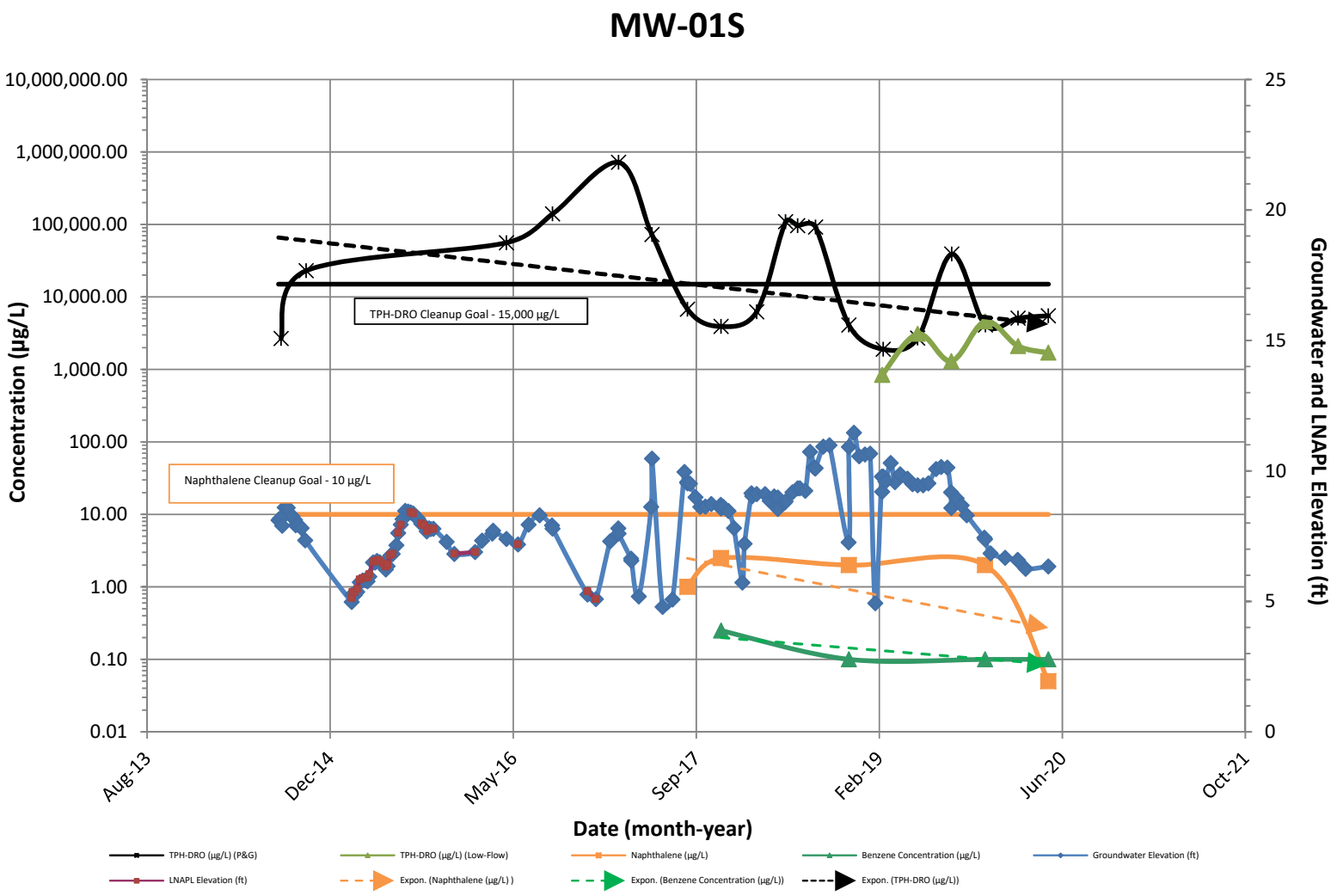
Conversion of recovered hydrocarbons from pounds to gallons:

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).

CONCENTRATION TREND GRAPHS

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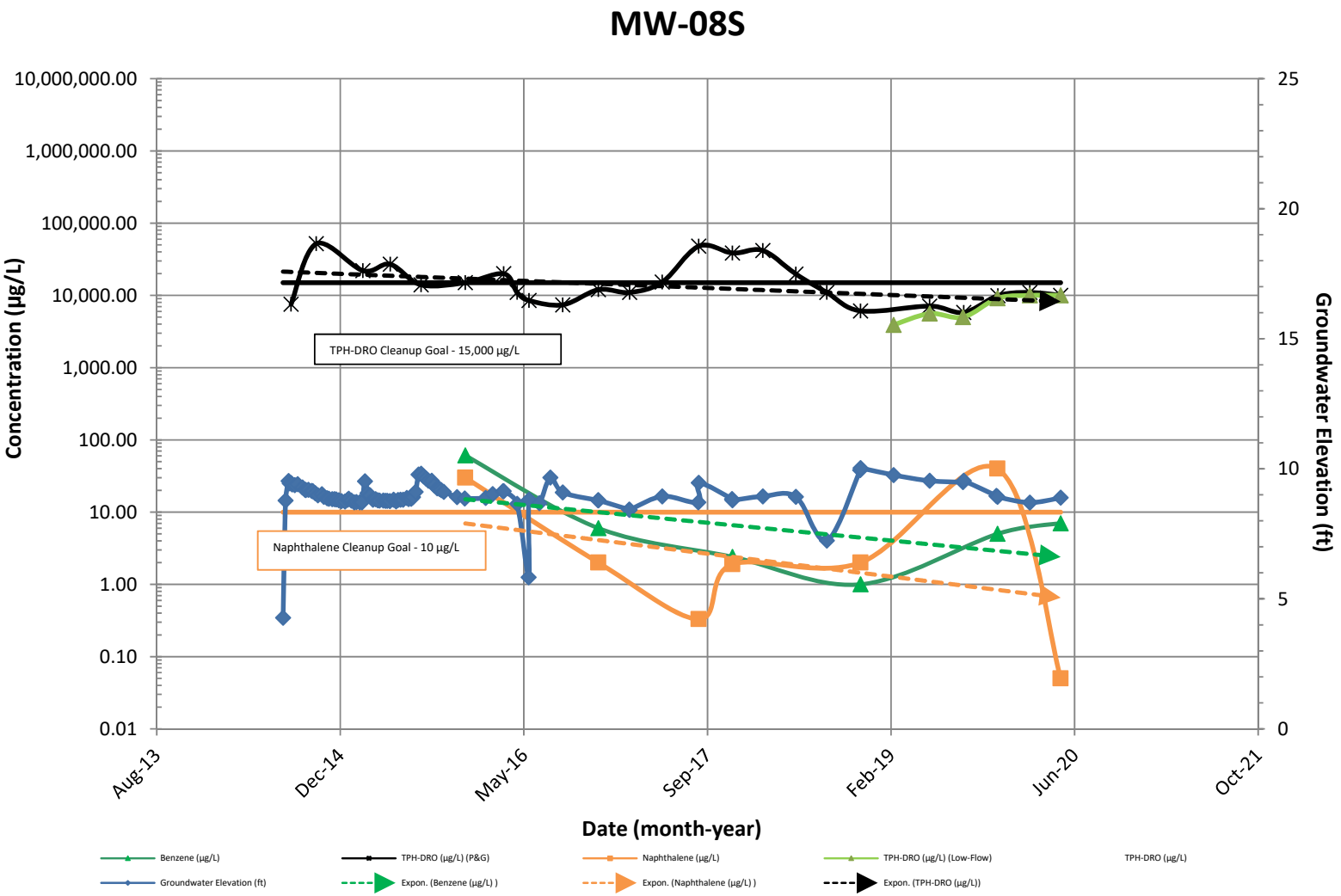

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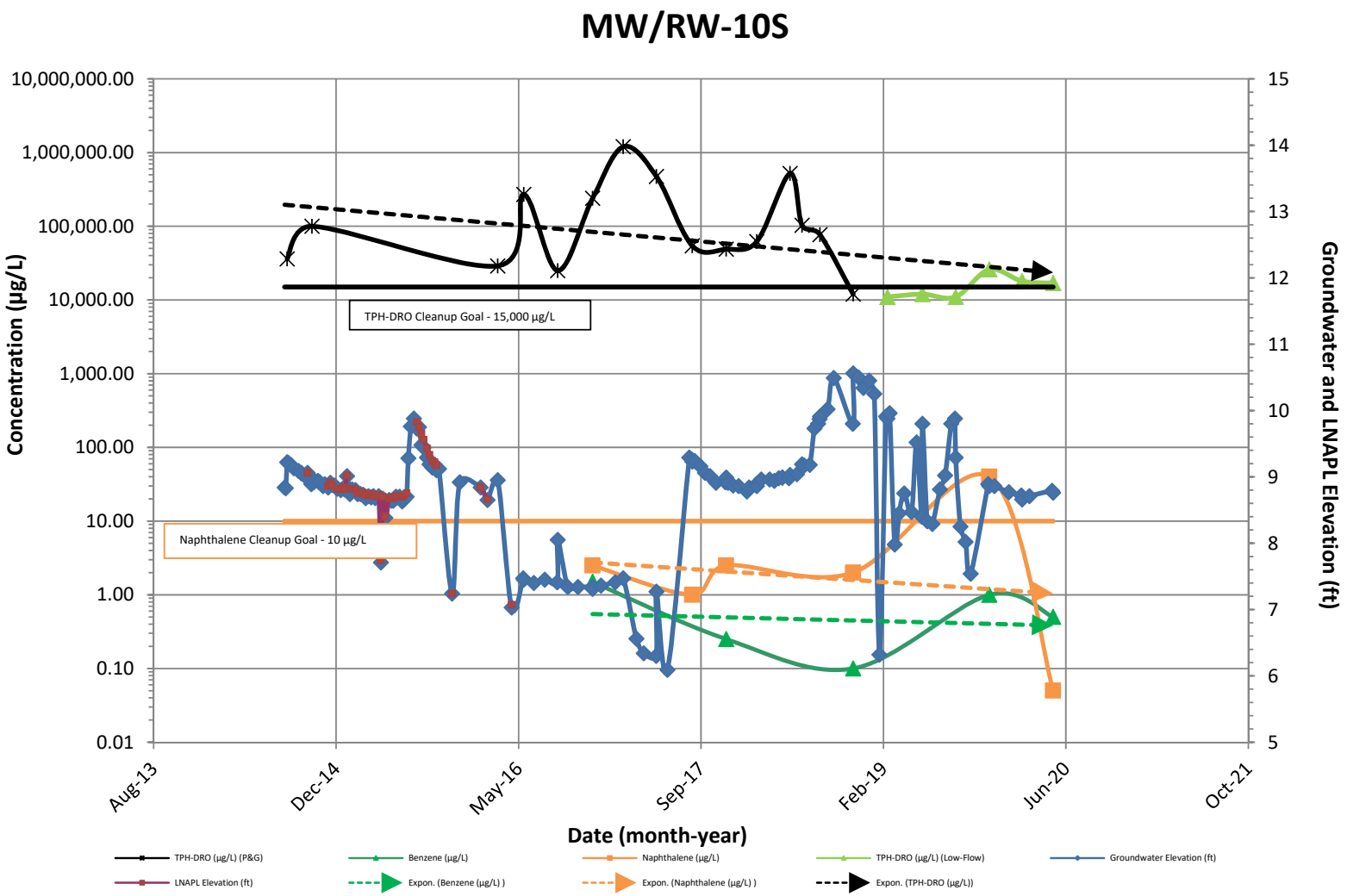

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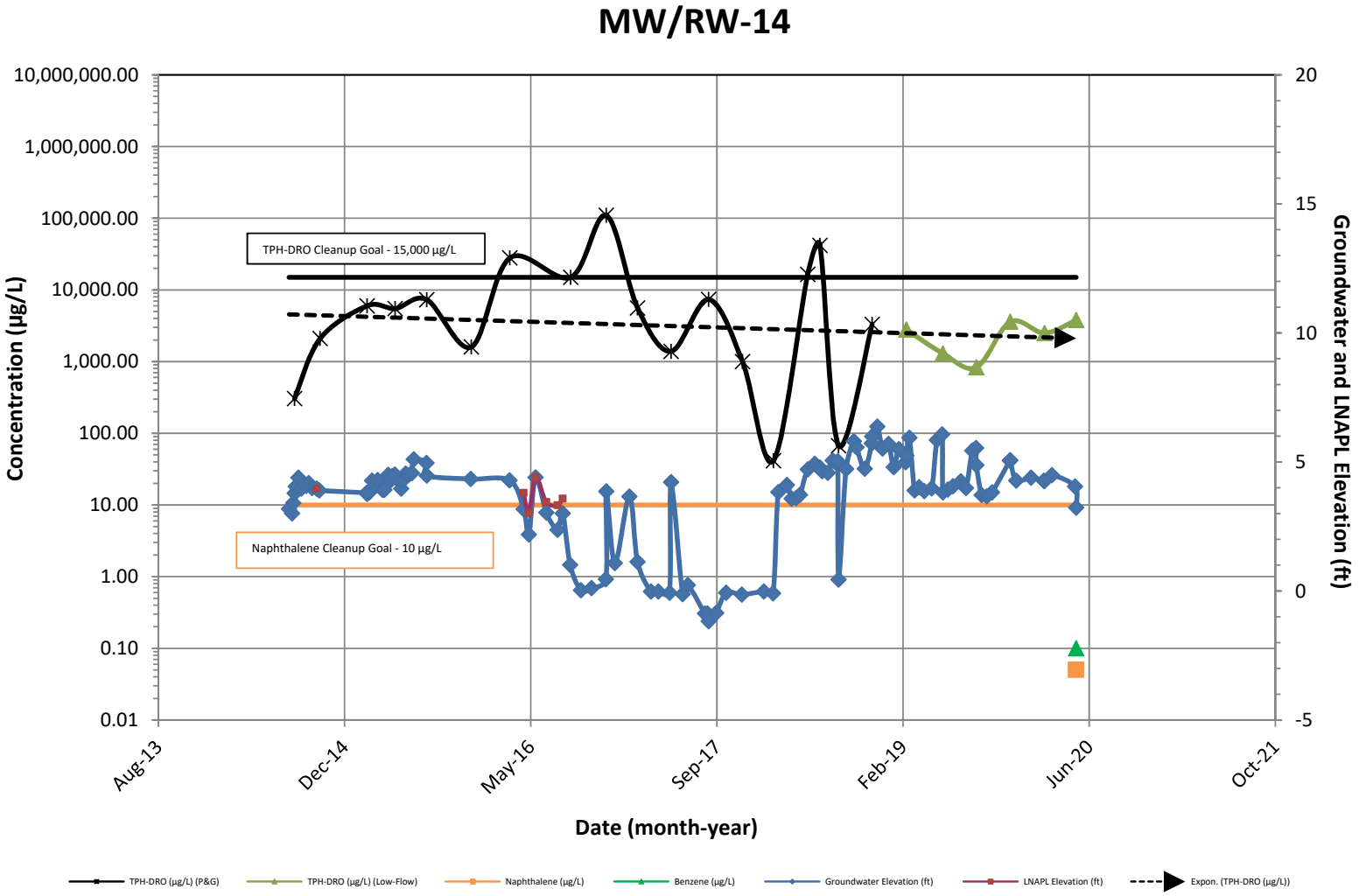

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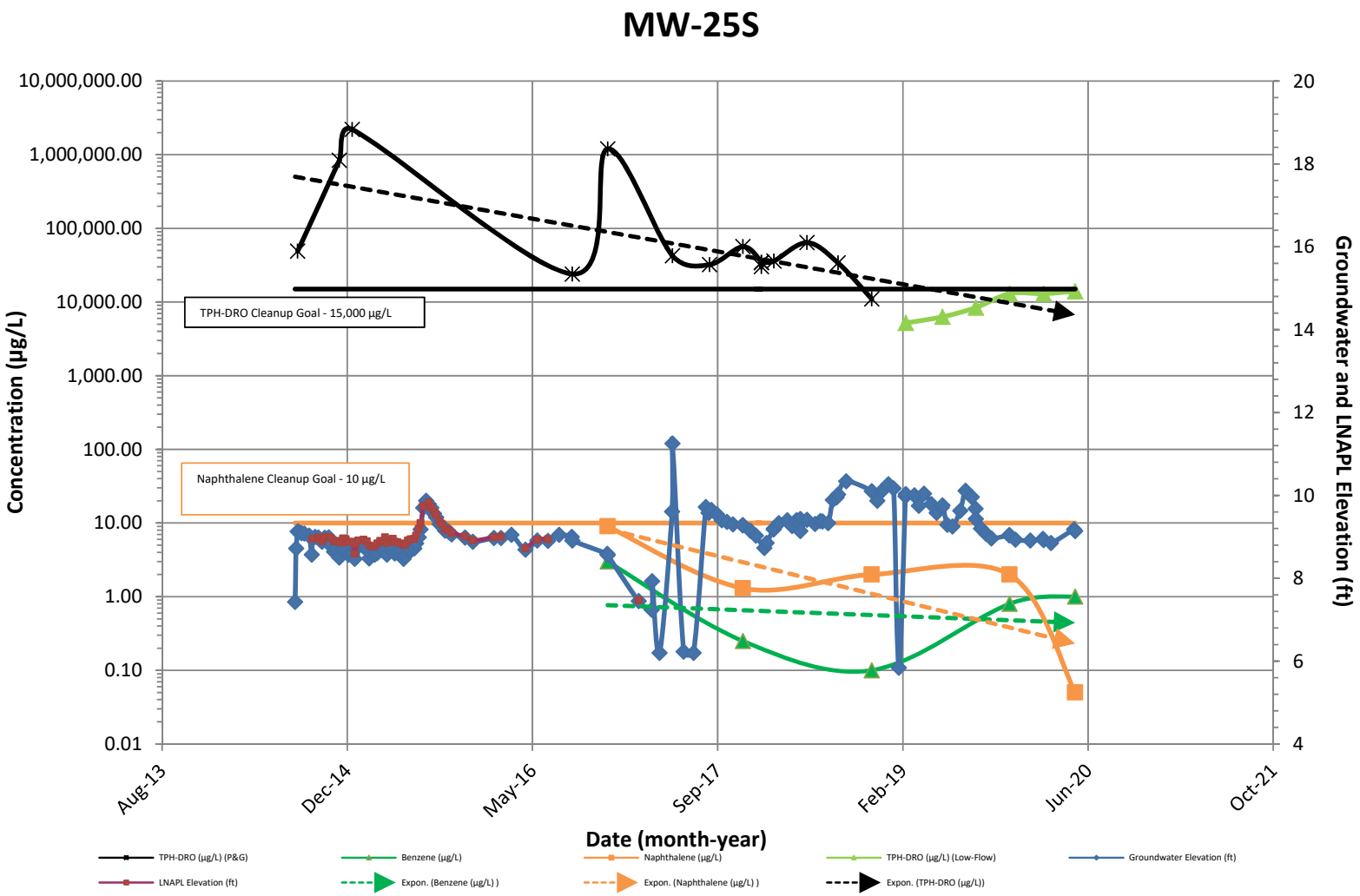

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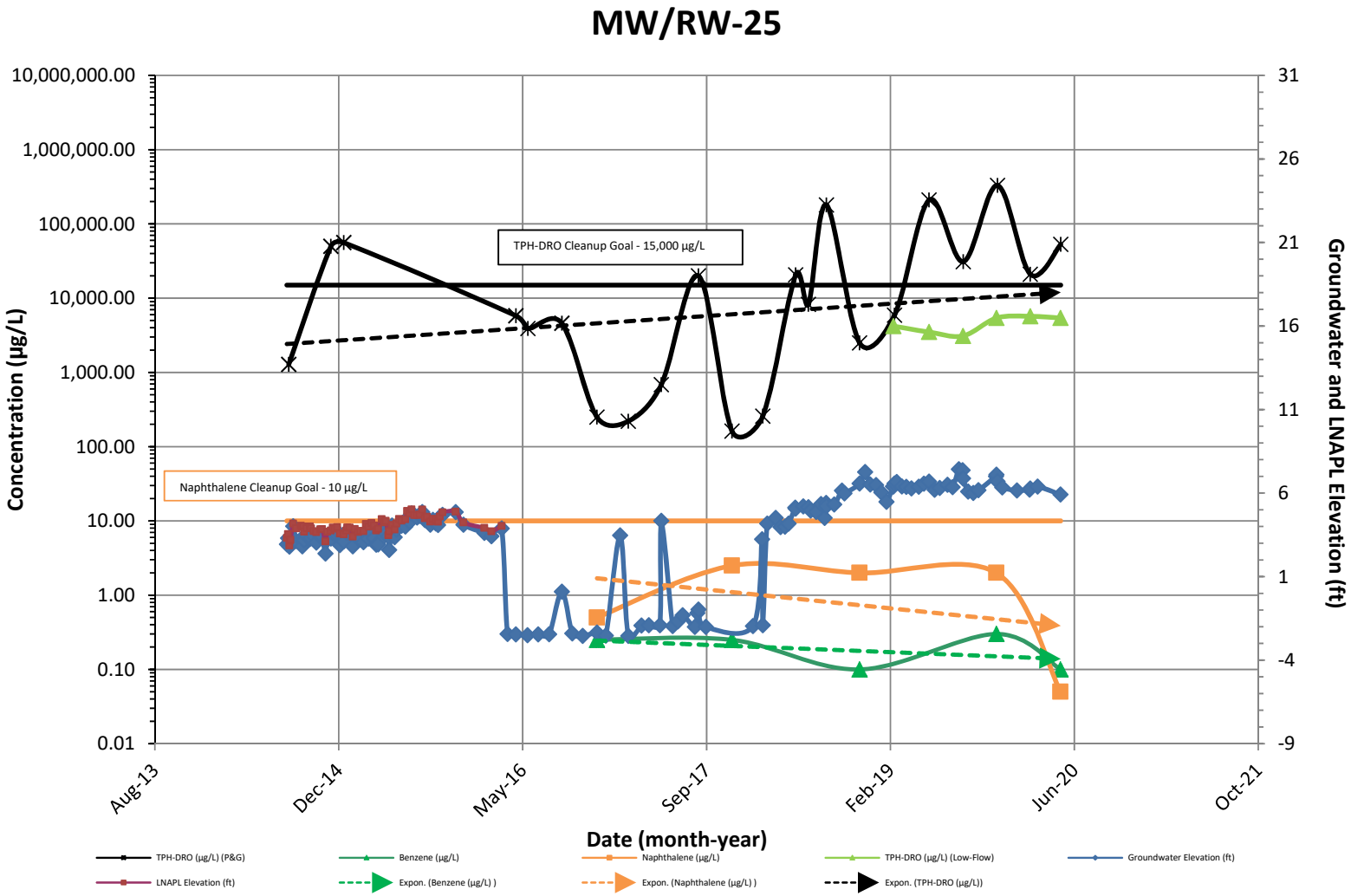

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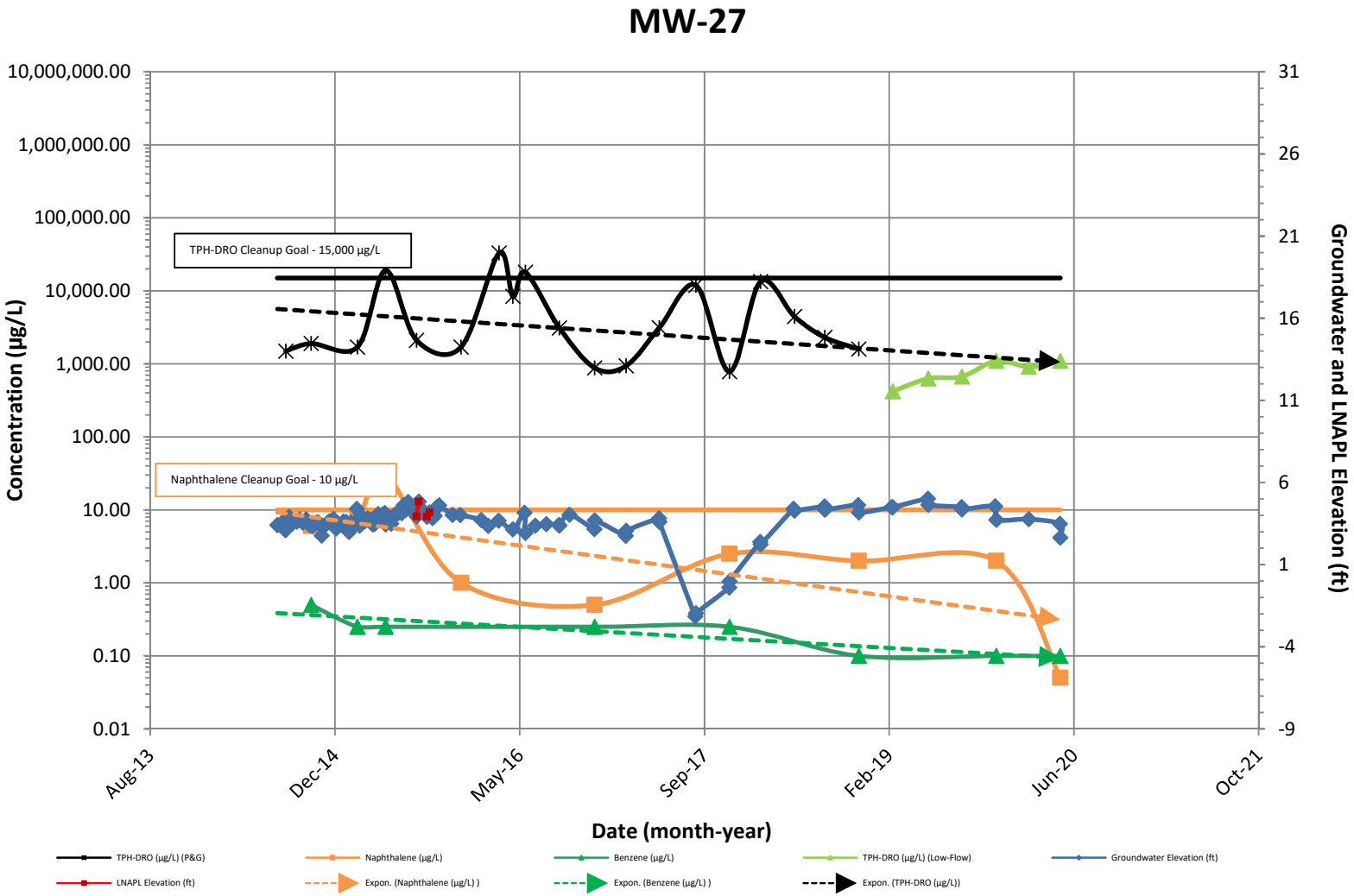

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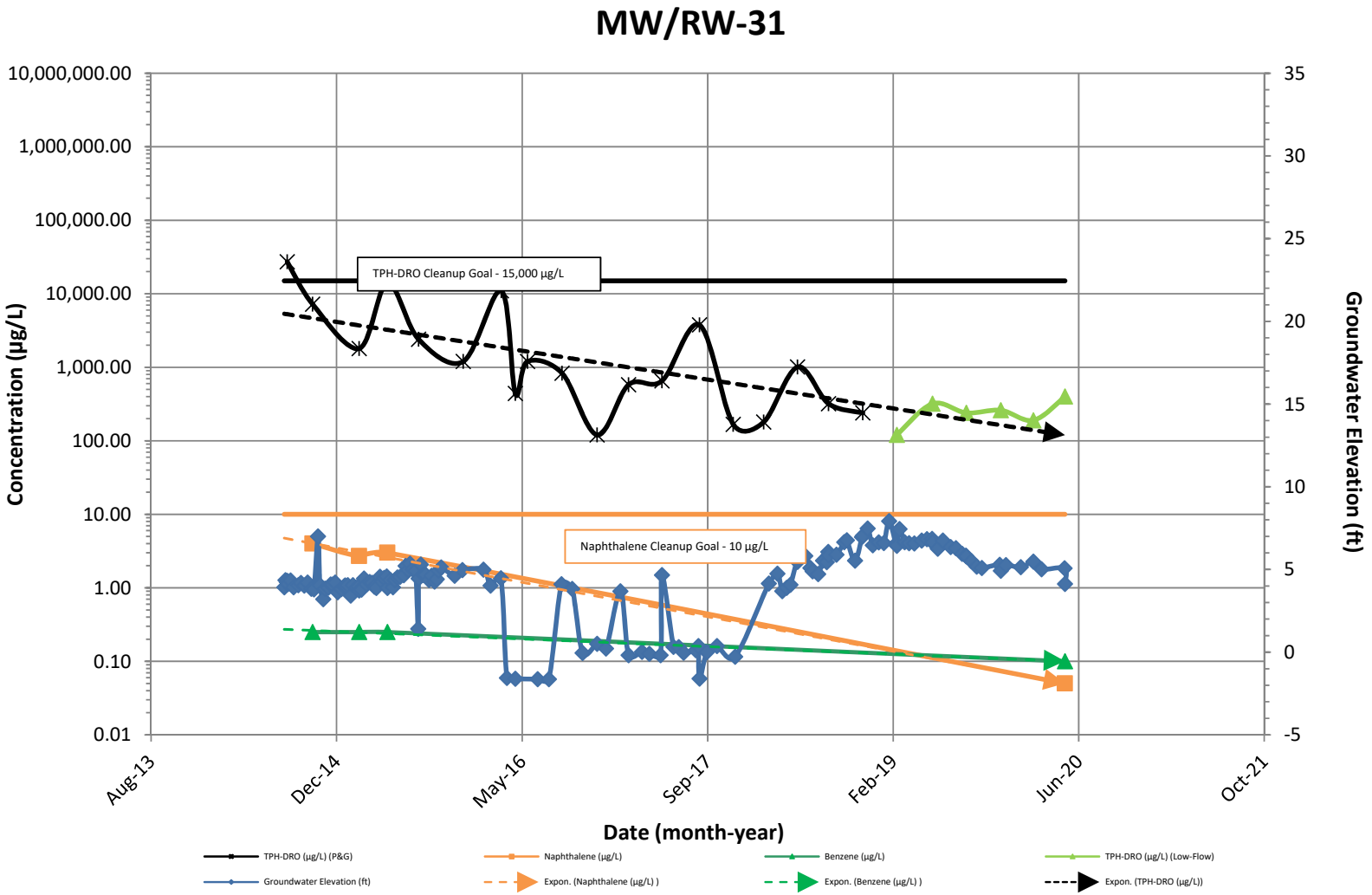

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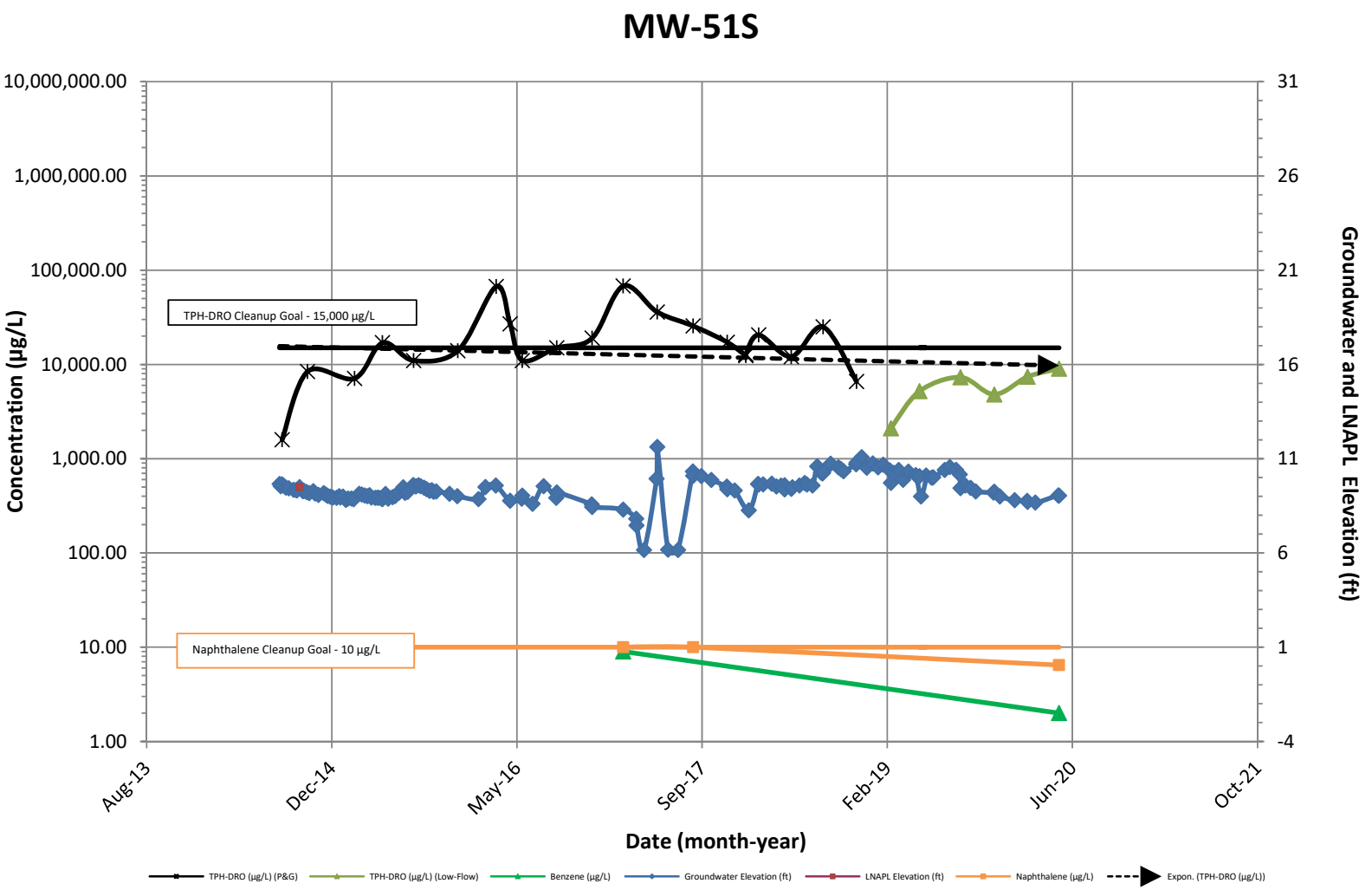

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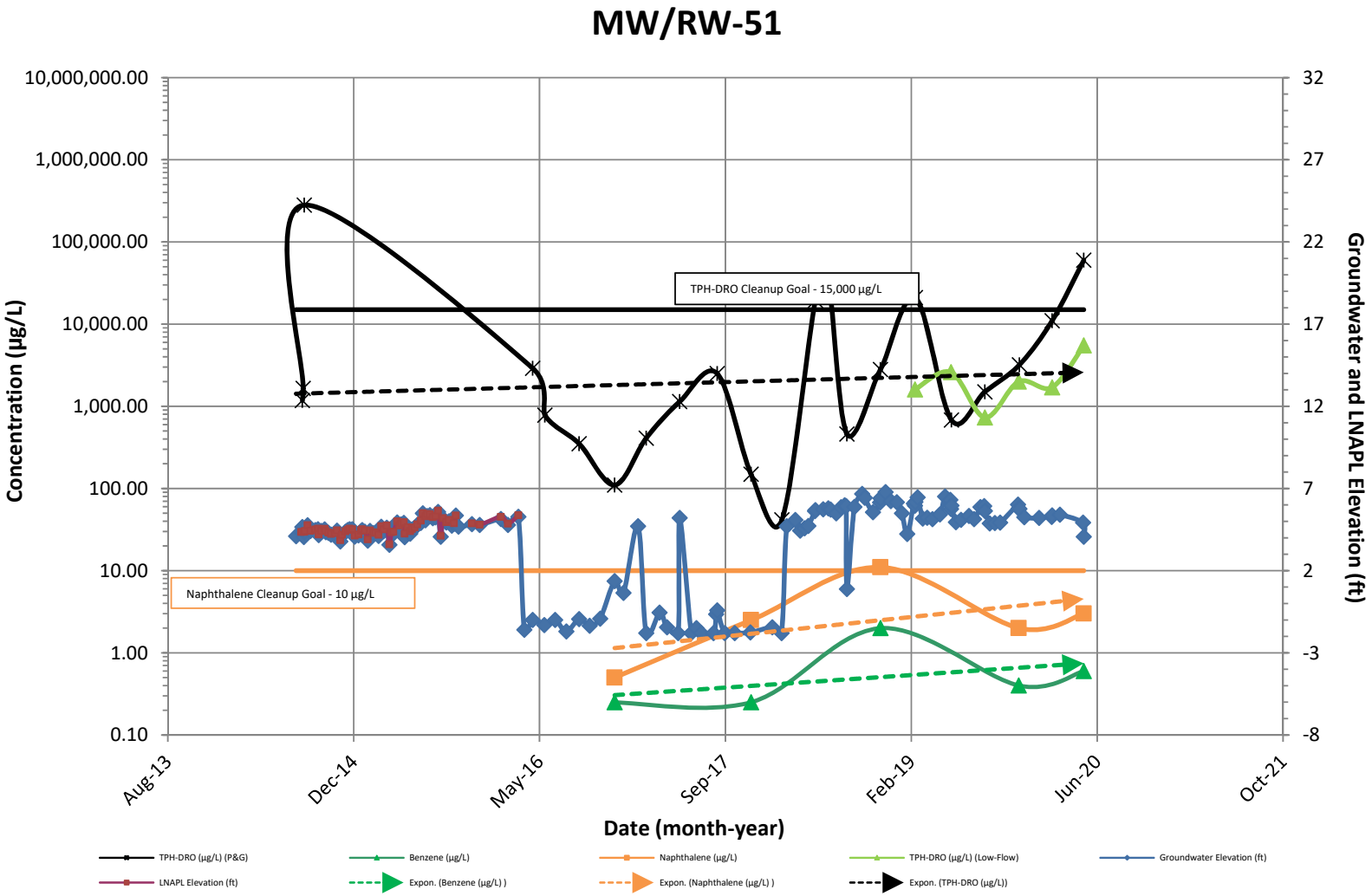

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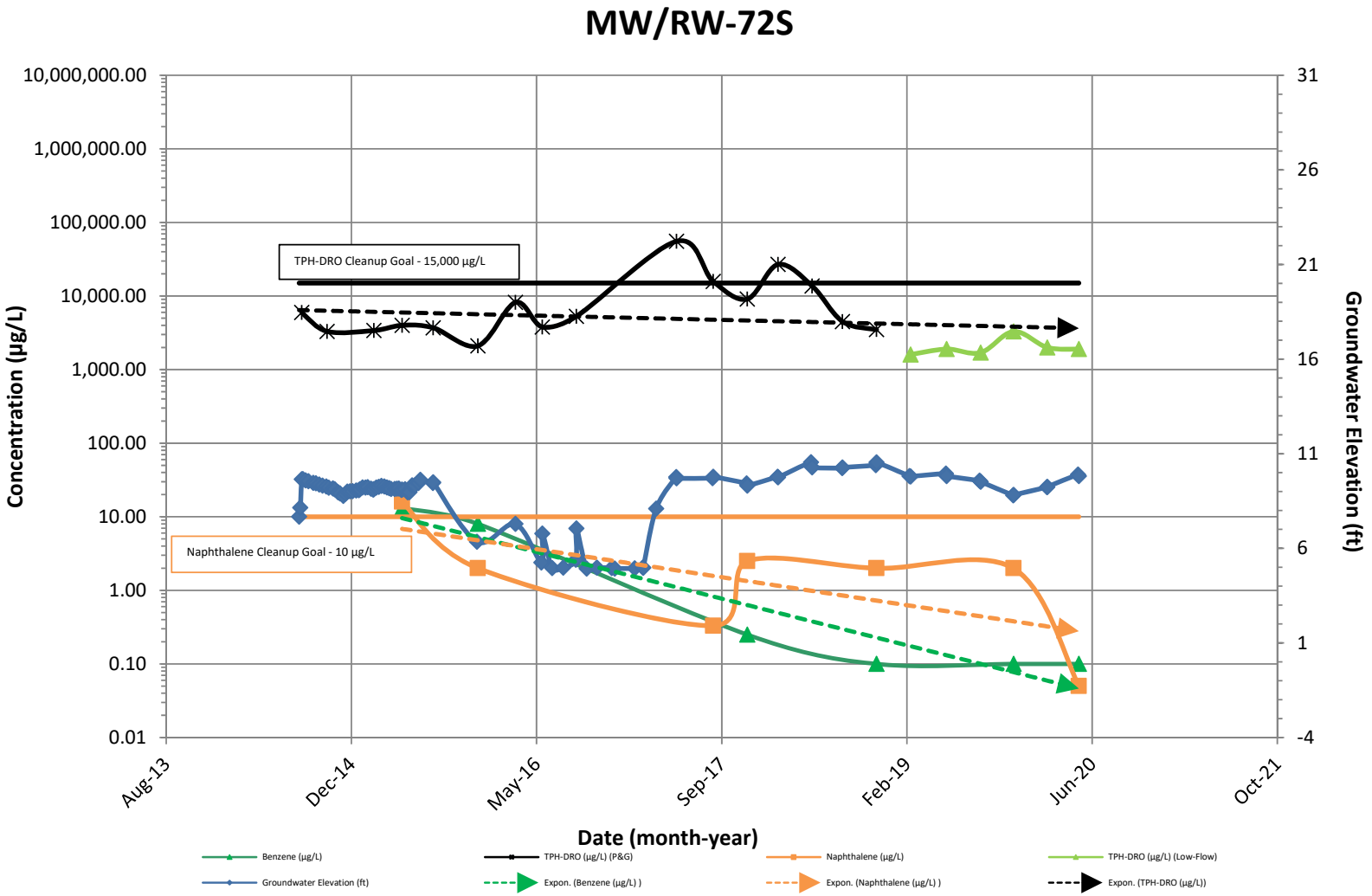

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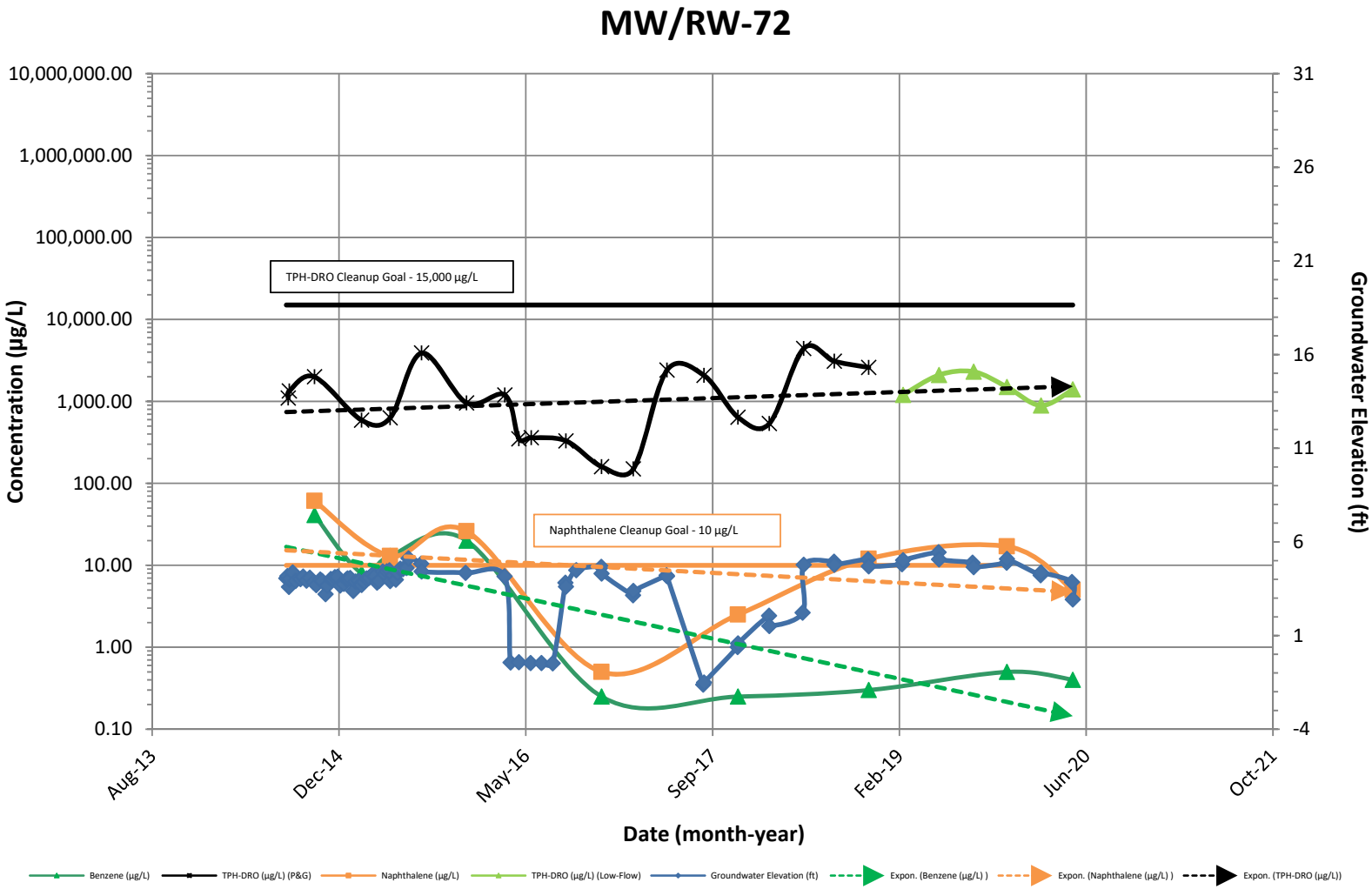

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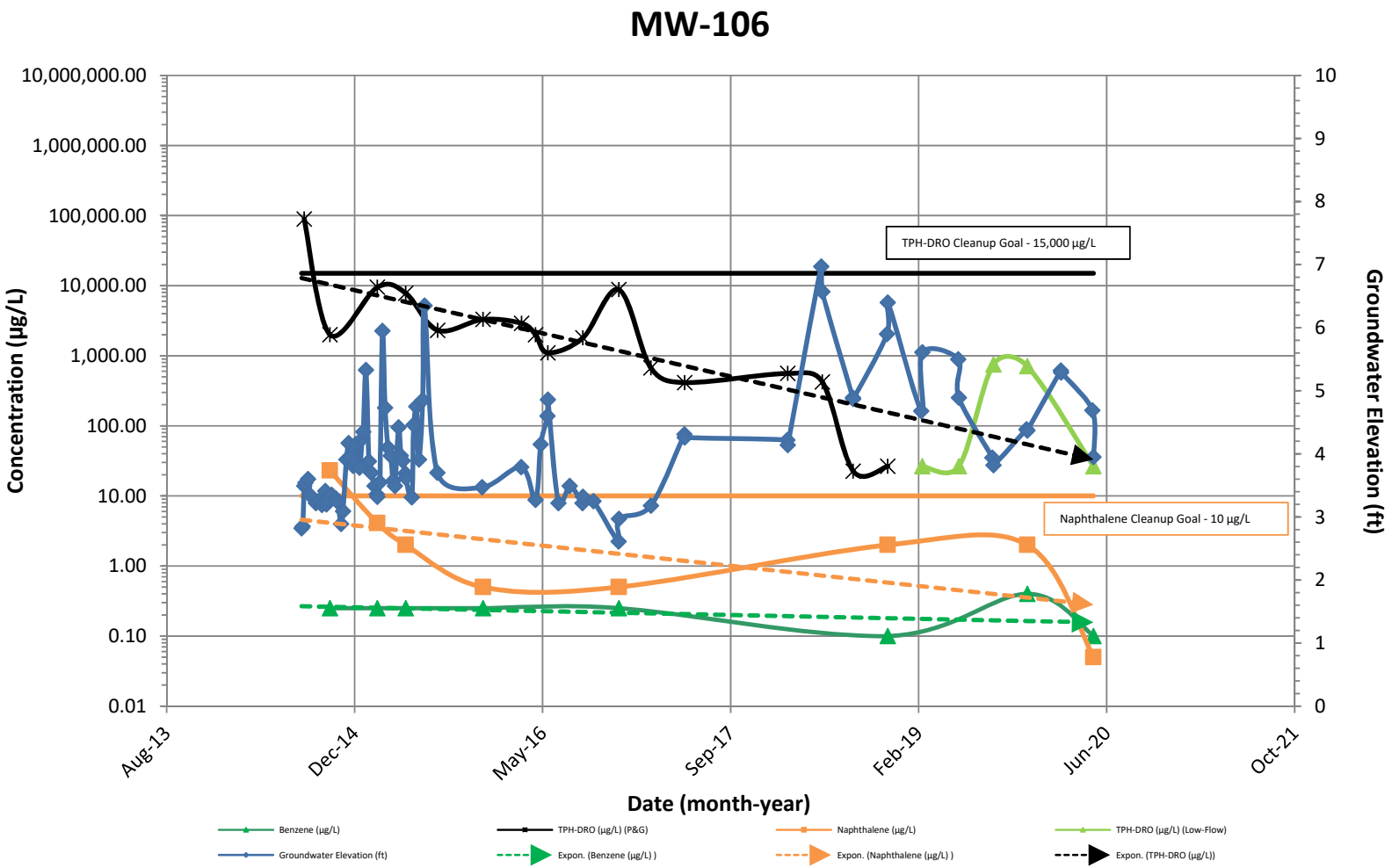

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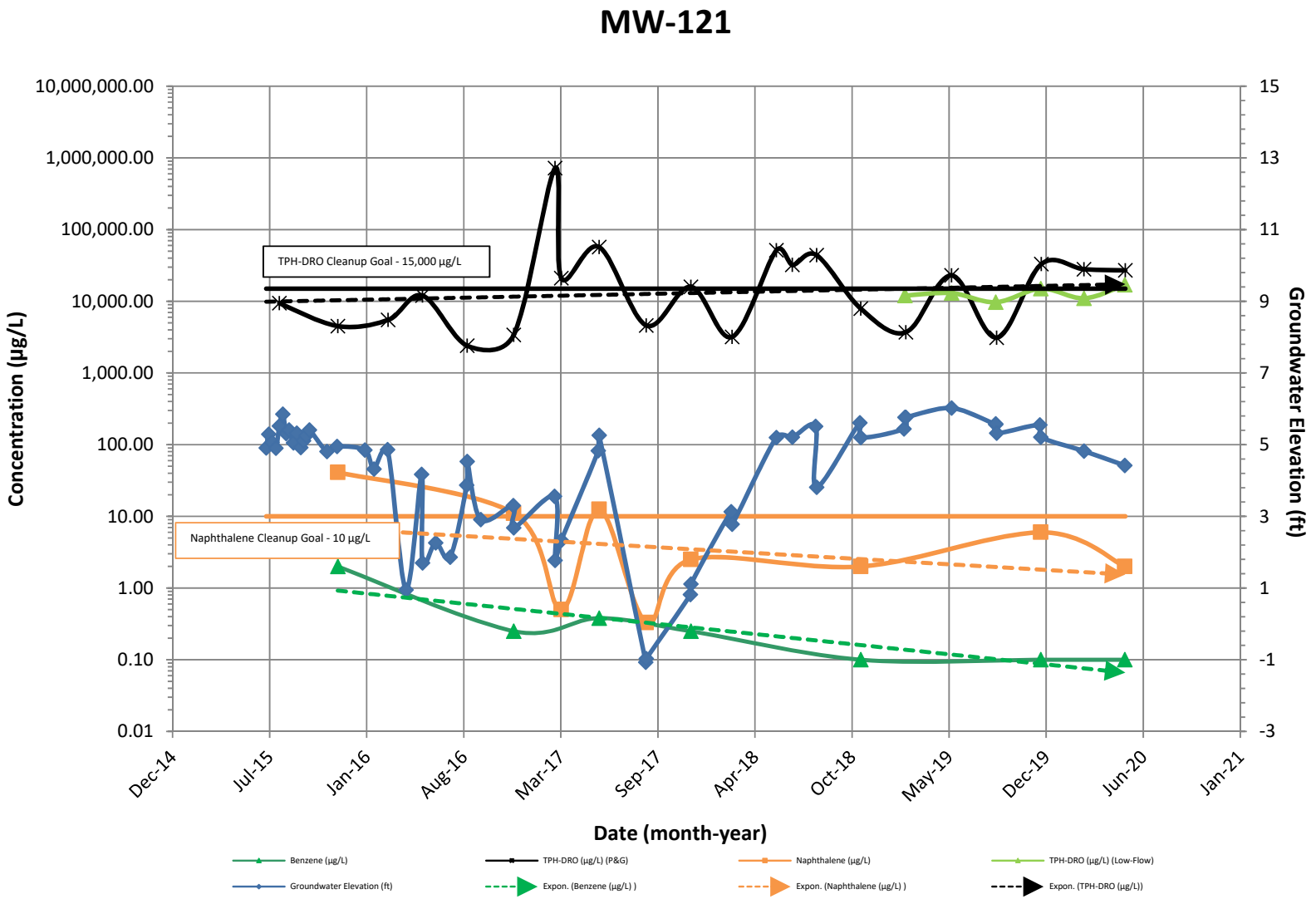

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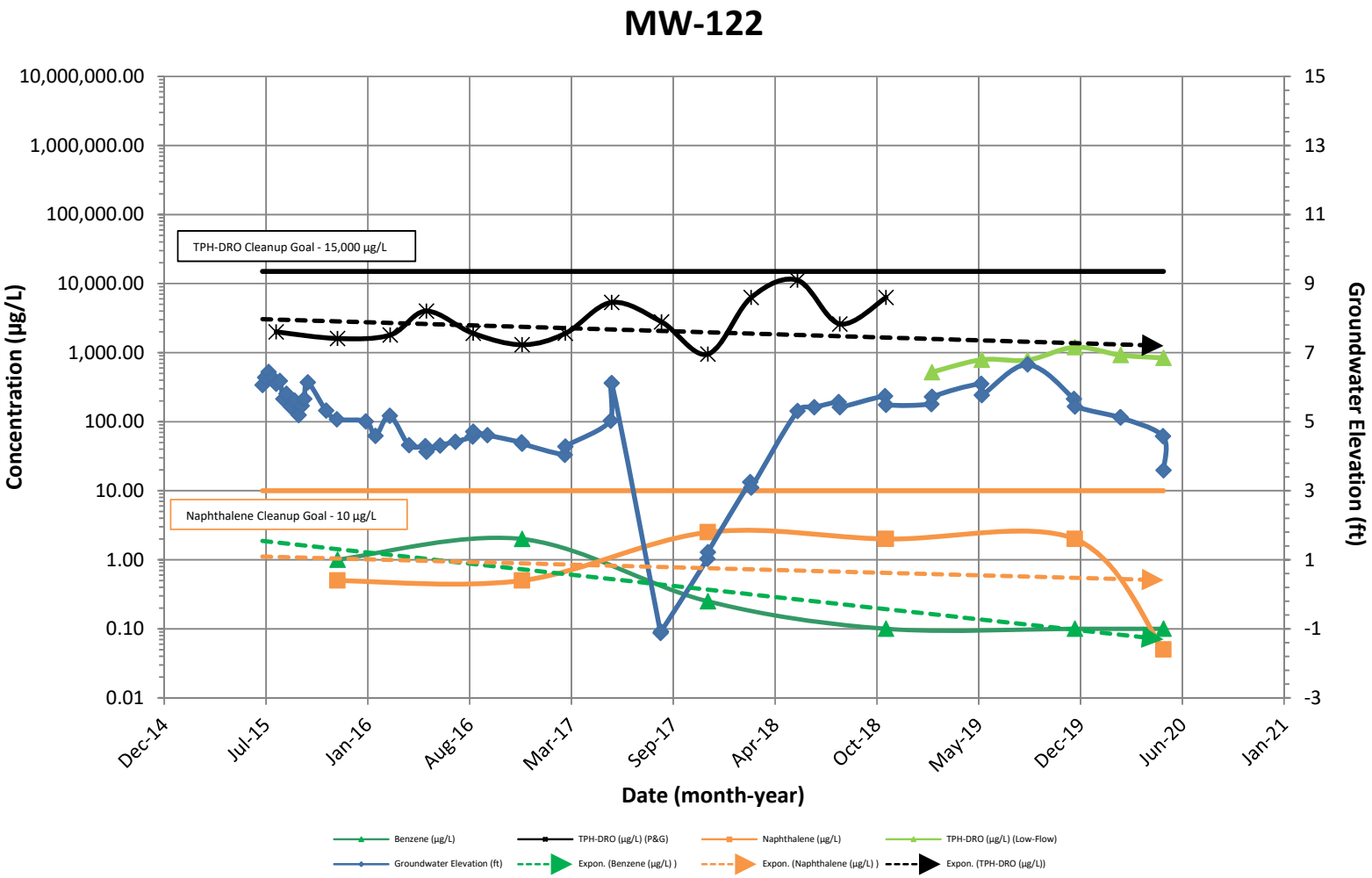

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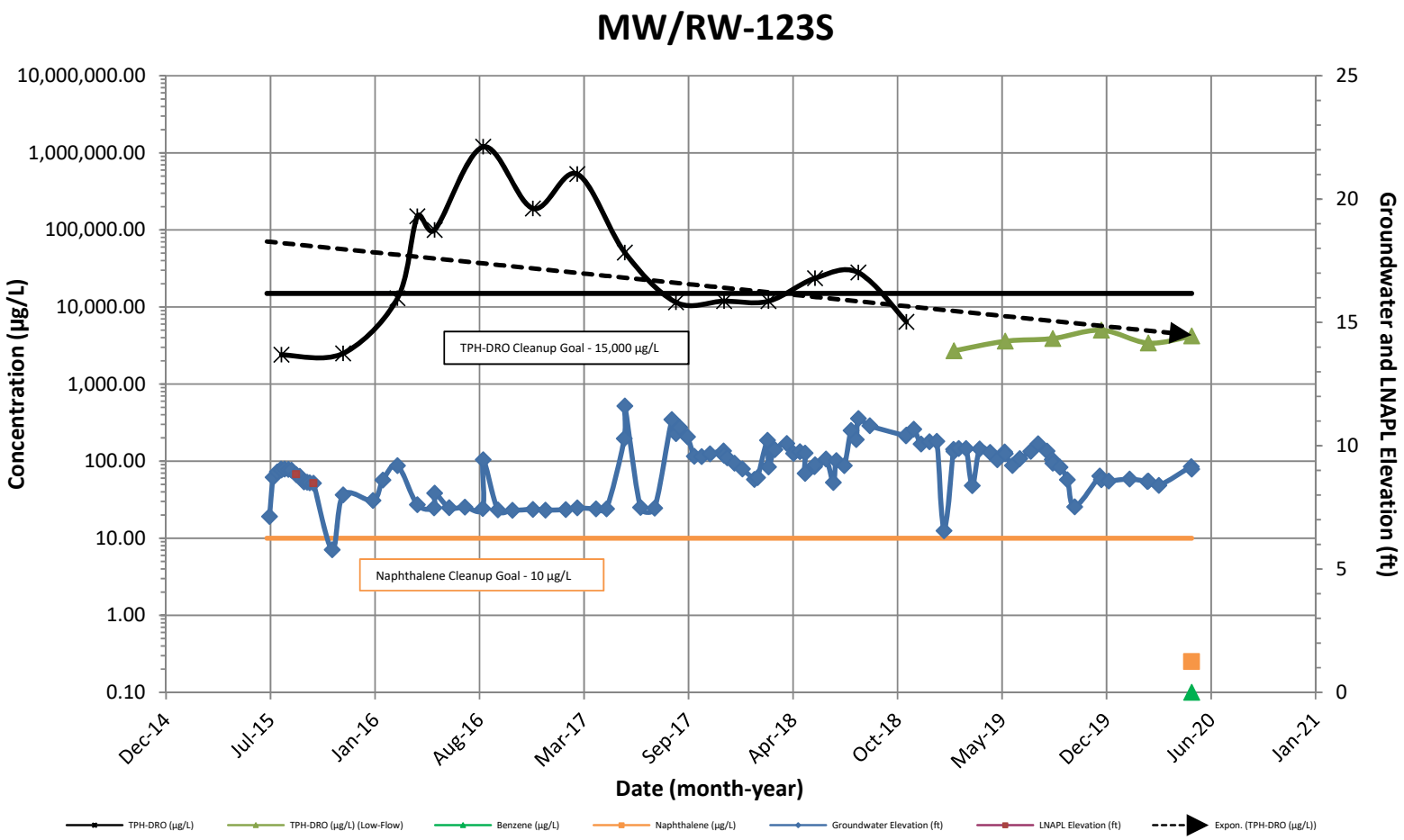

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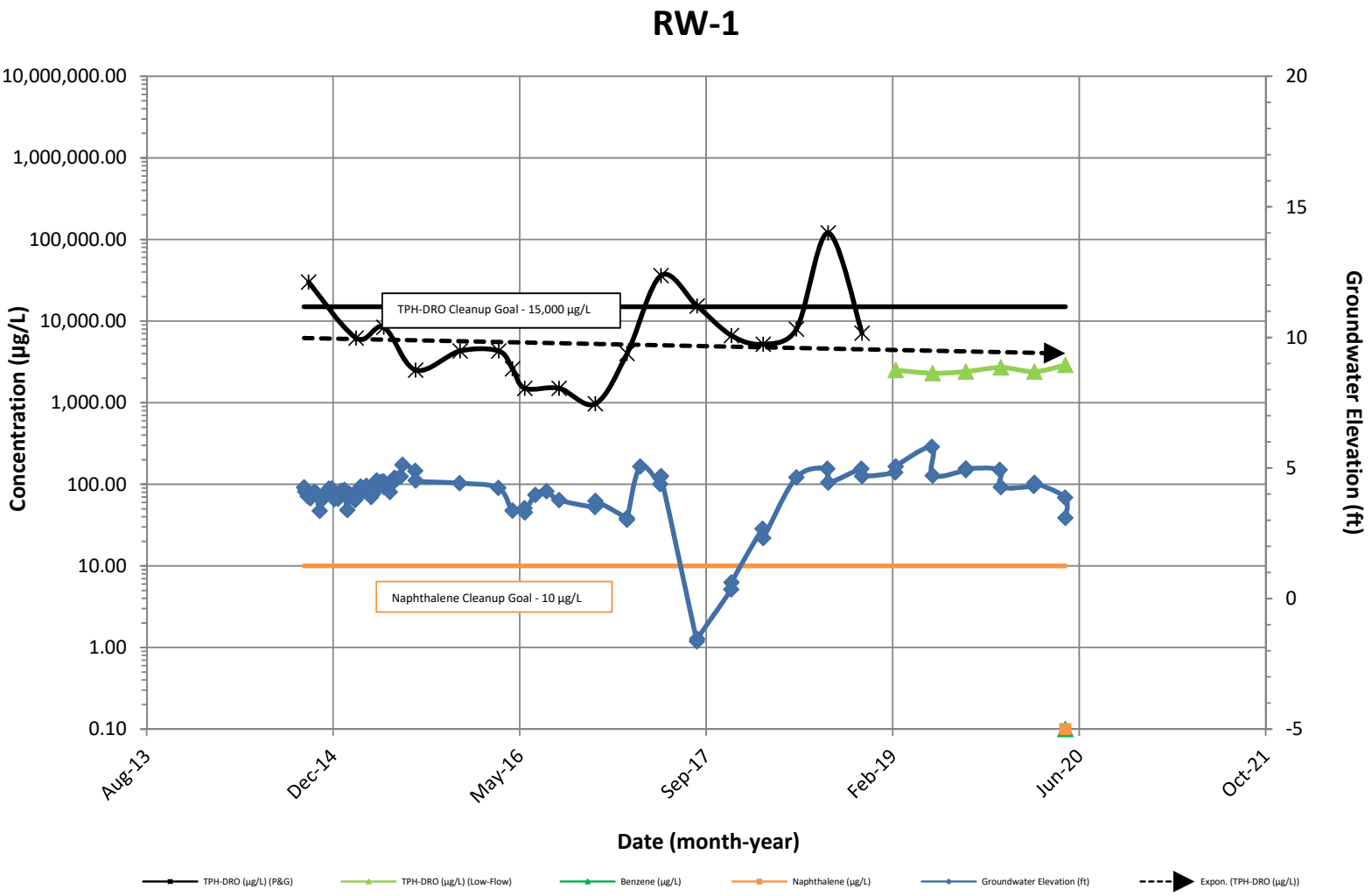

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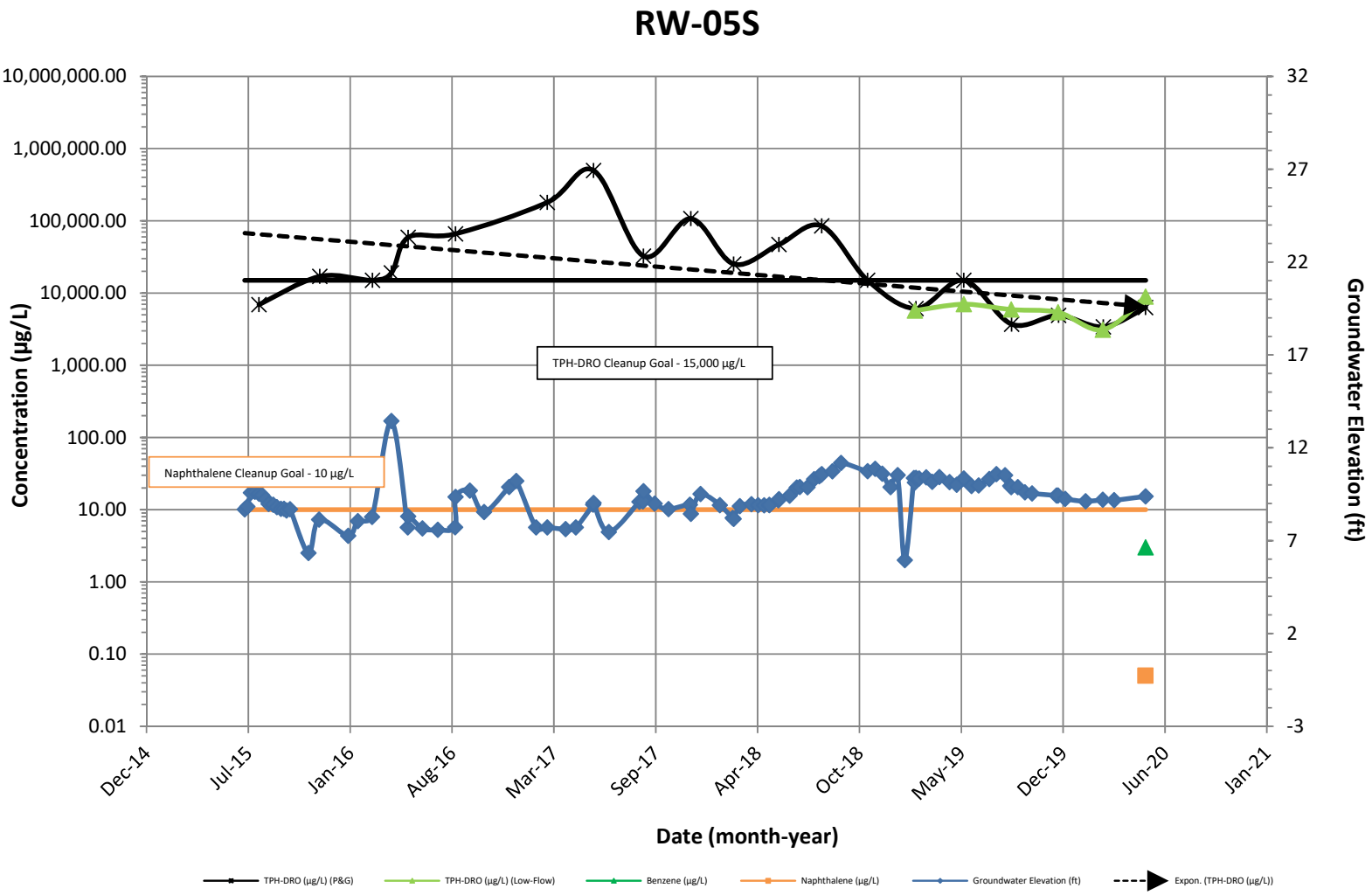
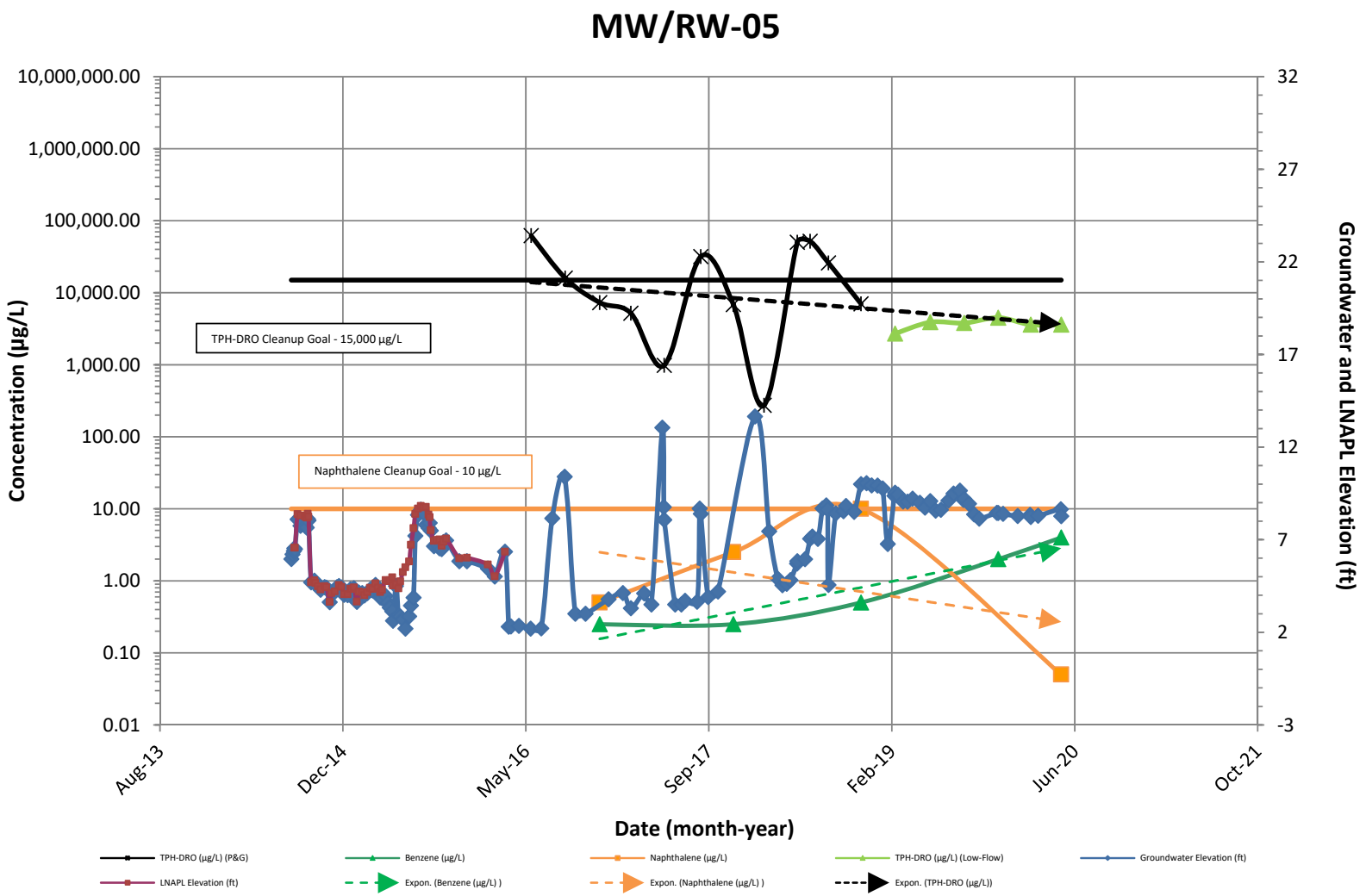
Alexandria, VA



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

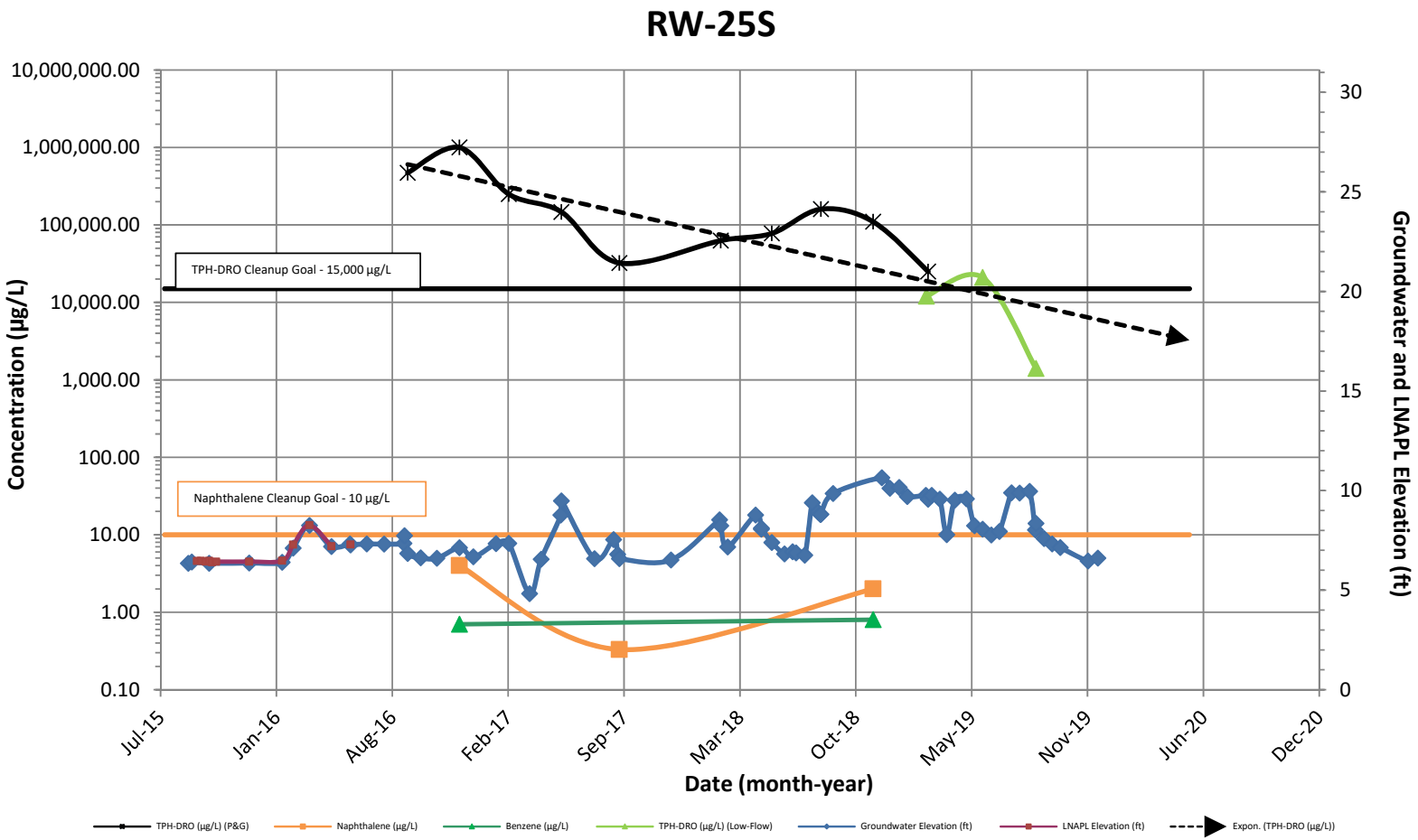
NRG PRGS
1400 North Royal Street
Alexandria, VA



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).

CONCENTRATION TREND GRAPHS

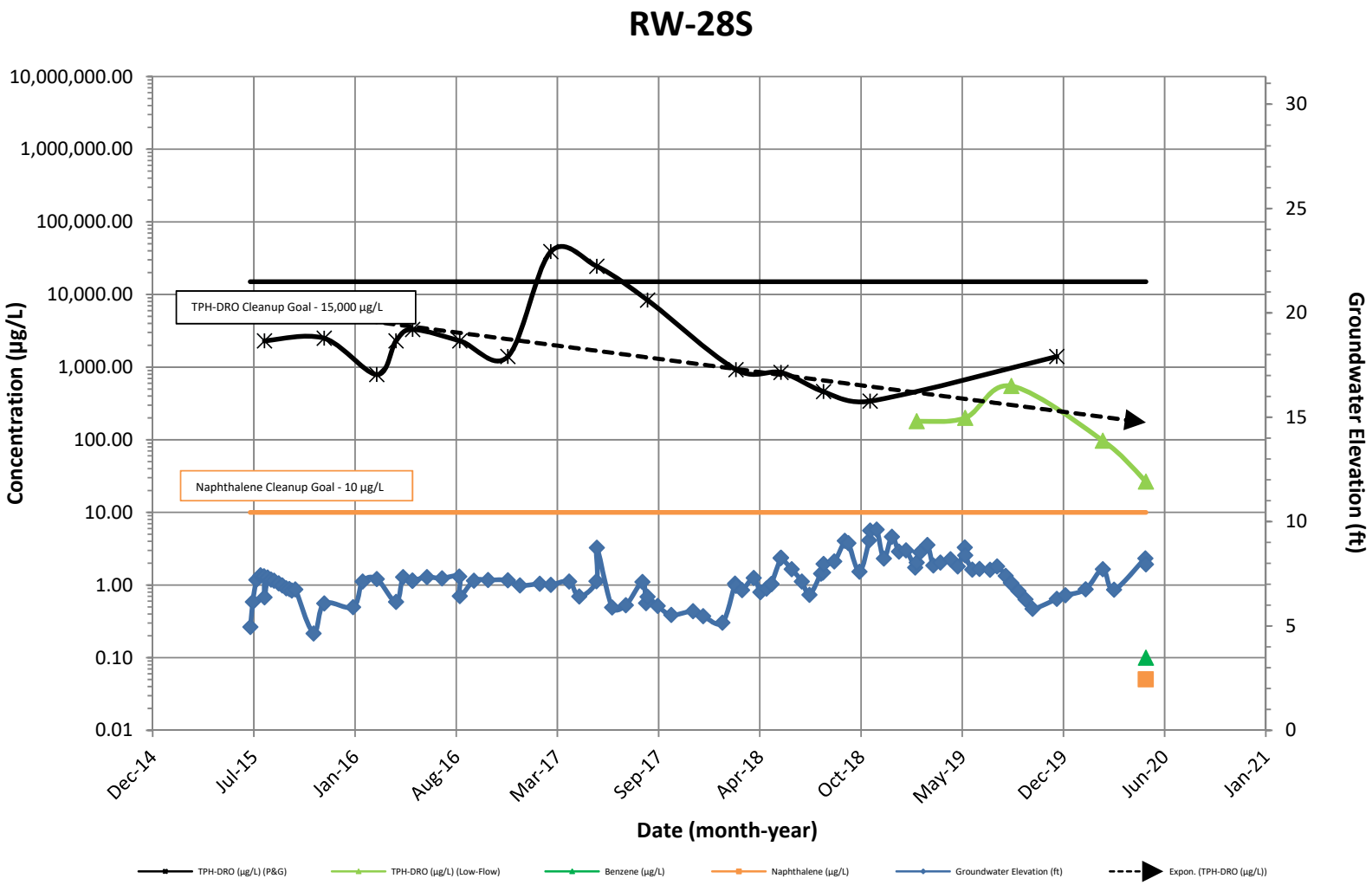
NRG PRGS
1400 North Royal Street
Alexandria, VA



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

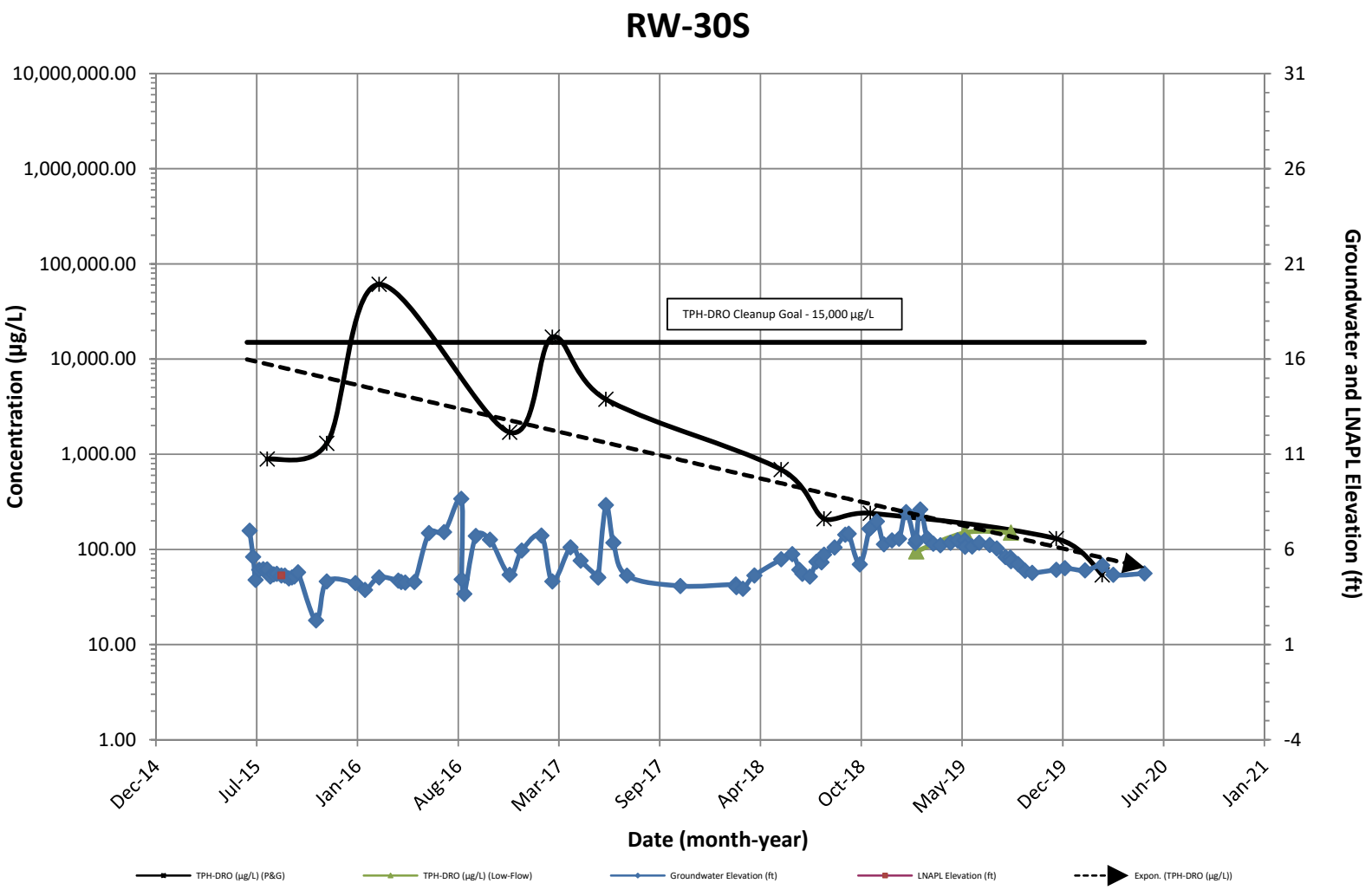
NRG PRGS
1400 North Royal Street
Alexandria, VA



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).

CONCENTRATION TREND GRAPHS

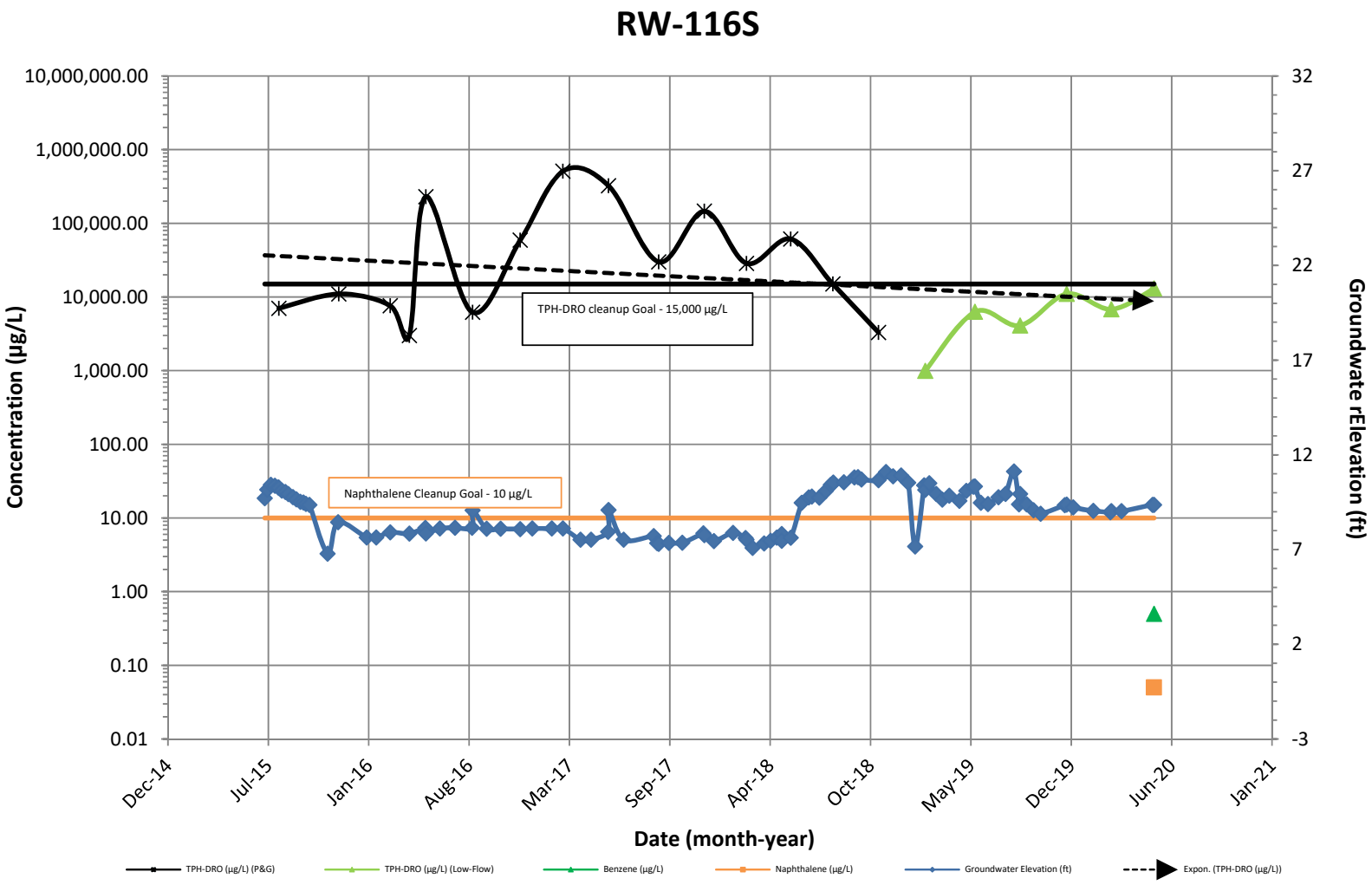
NRG PRGS
1400 North Royal Street
Alexandria, VA



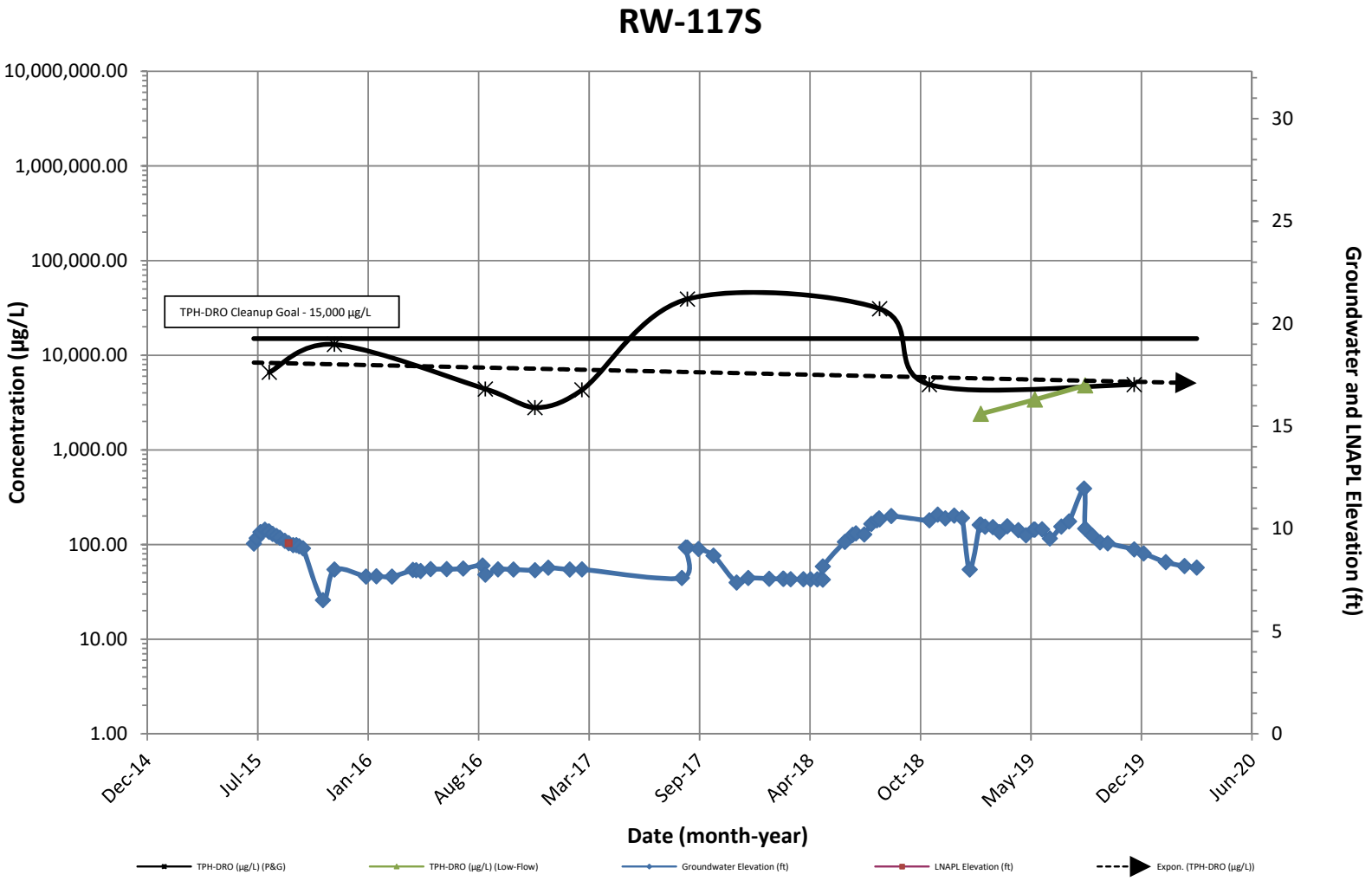
Note: 1. Non-detect results are plotted at half the method detection limit (i.e. 22.5 µg/L is plotted for a TPH-DRO result of <45 µg/L).

CONCENTRATION TREND GRAPHS

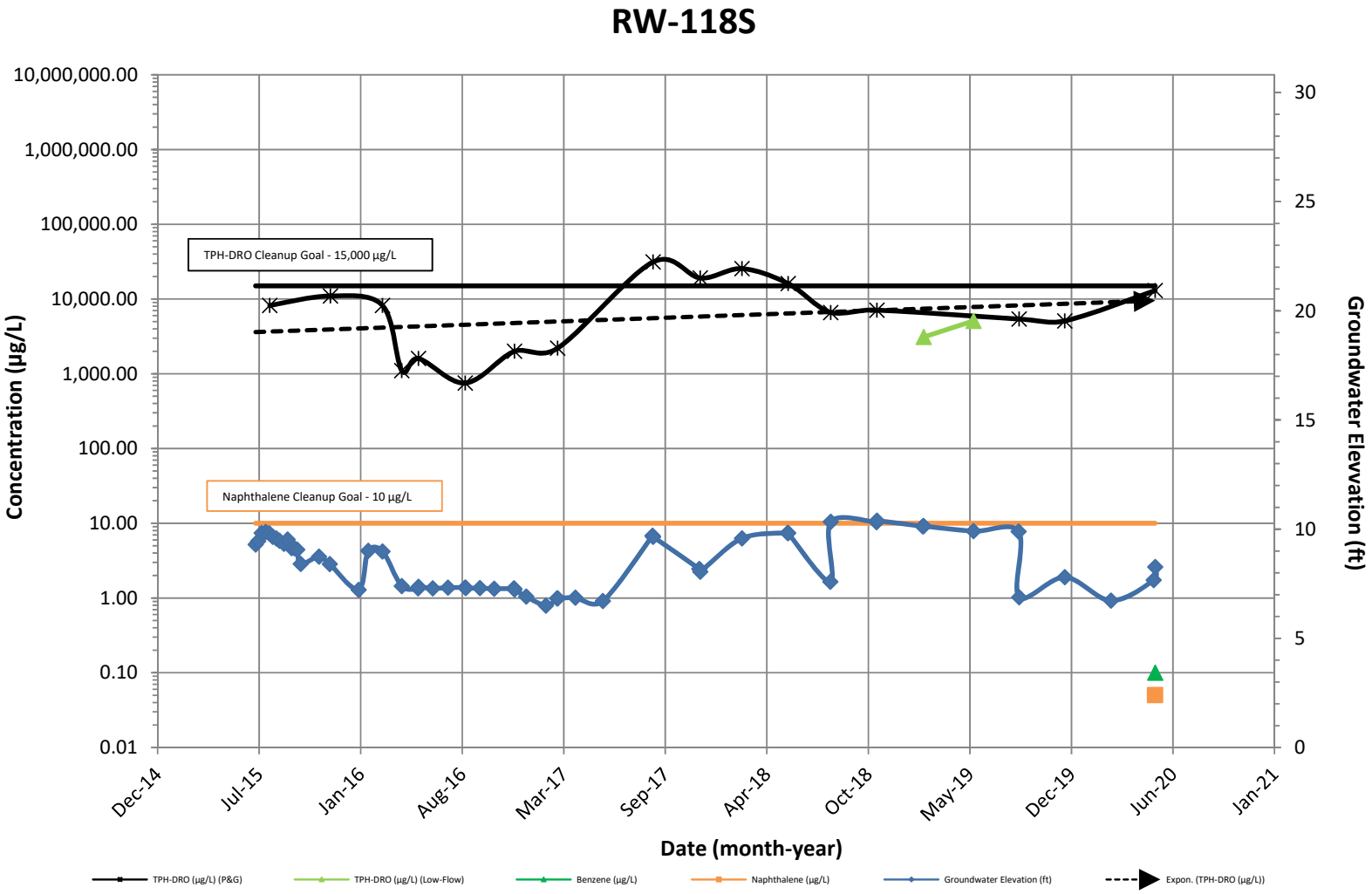
NRG PRGS
1400 North Royal Street
Alexandria, VA



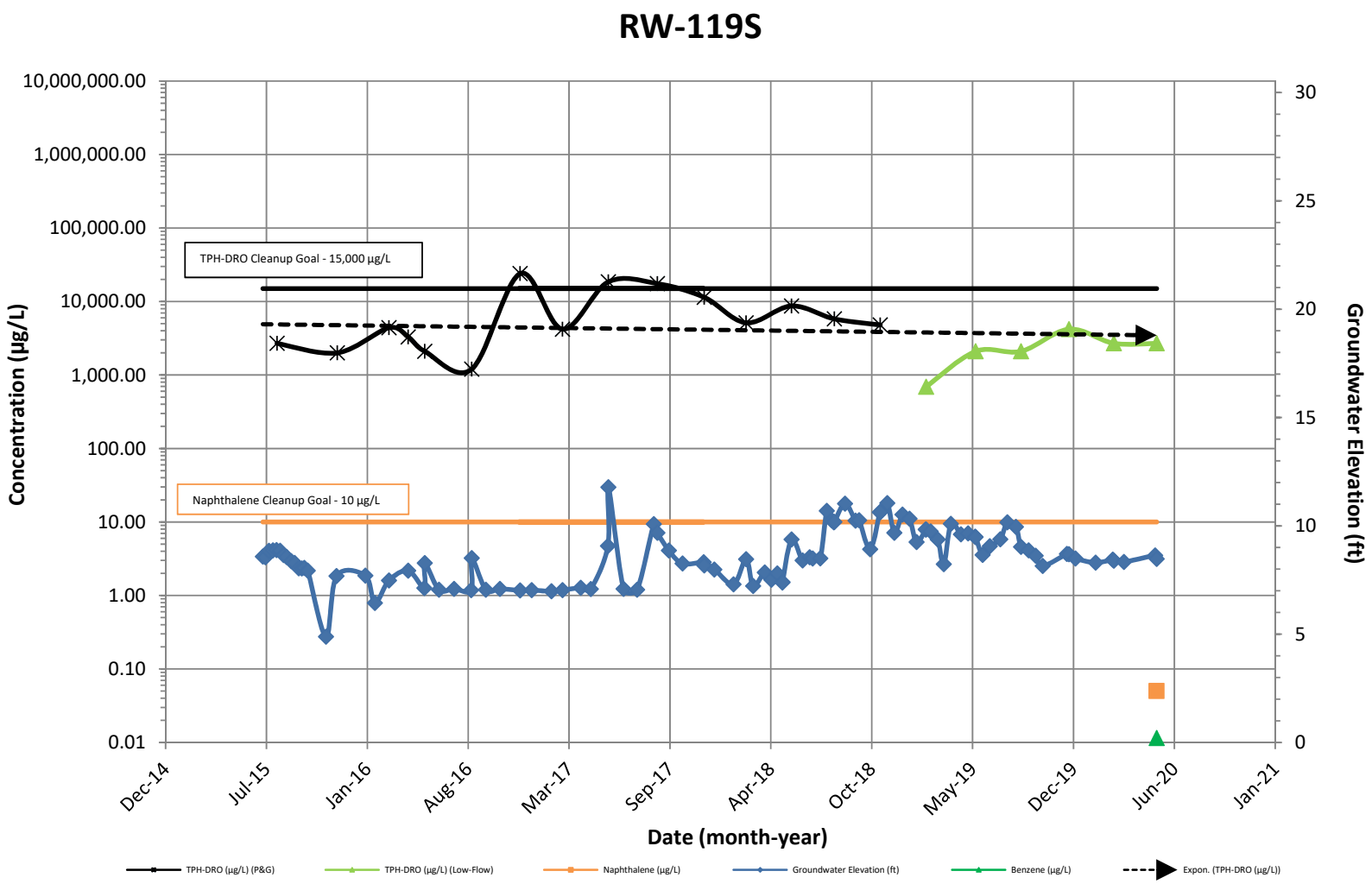
Note: 1. Non-detect results are plotted at half the method detection limit (i.e. 22.5 µg/L is plotted for a TPH-DRO result of <45 µg/L).



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).



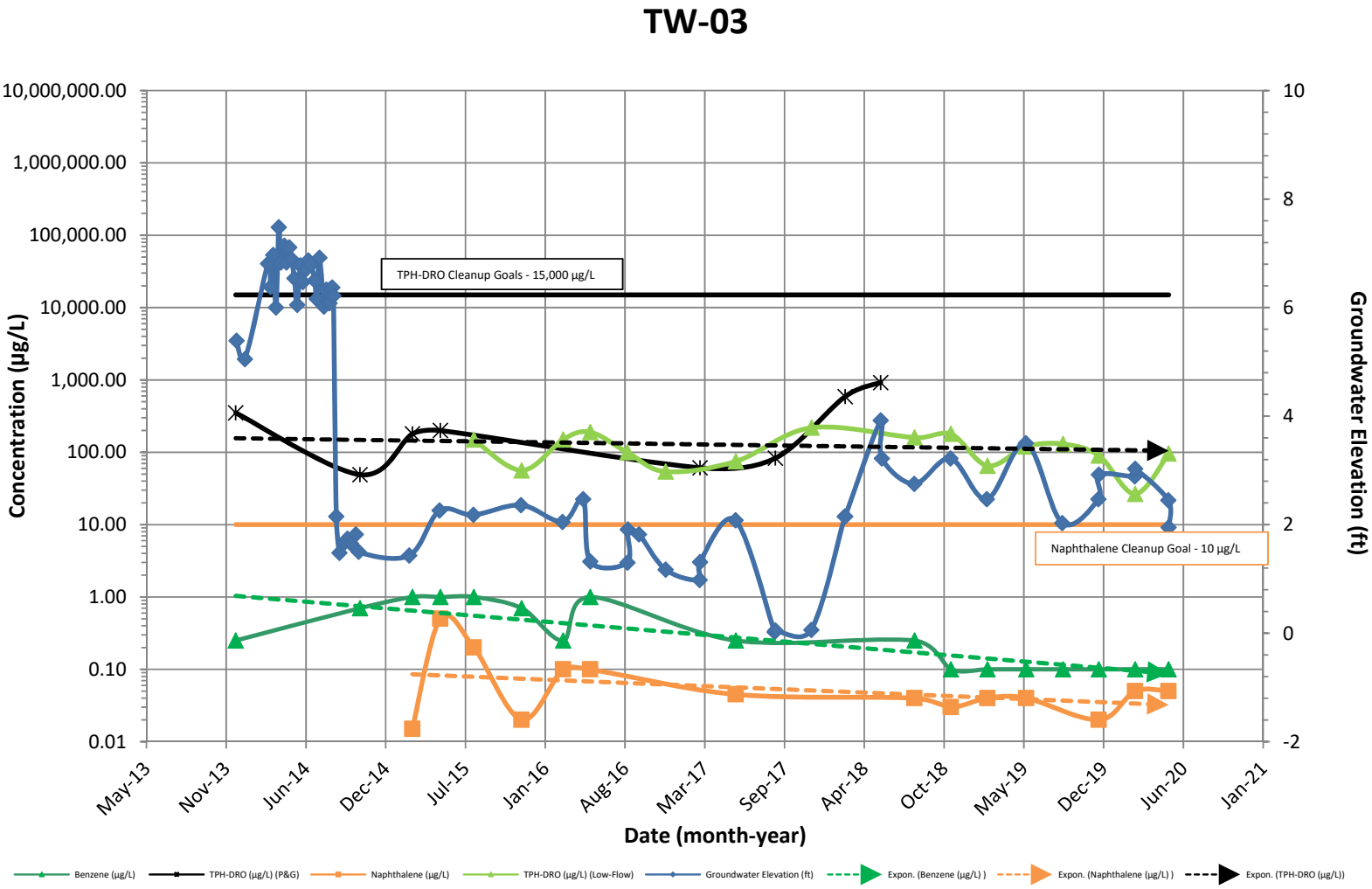
Note: 1. Non-detect results are plotted at half the method detection limit (i.e. 22.5 µg/L is plotted for a TPH-DRO result of <45 µg/L).



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

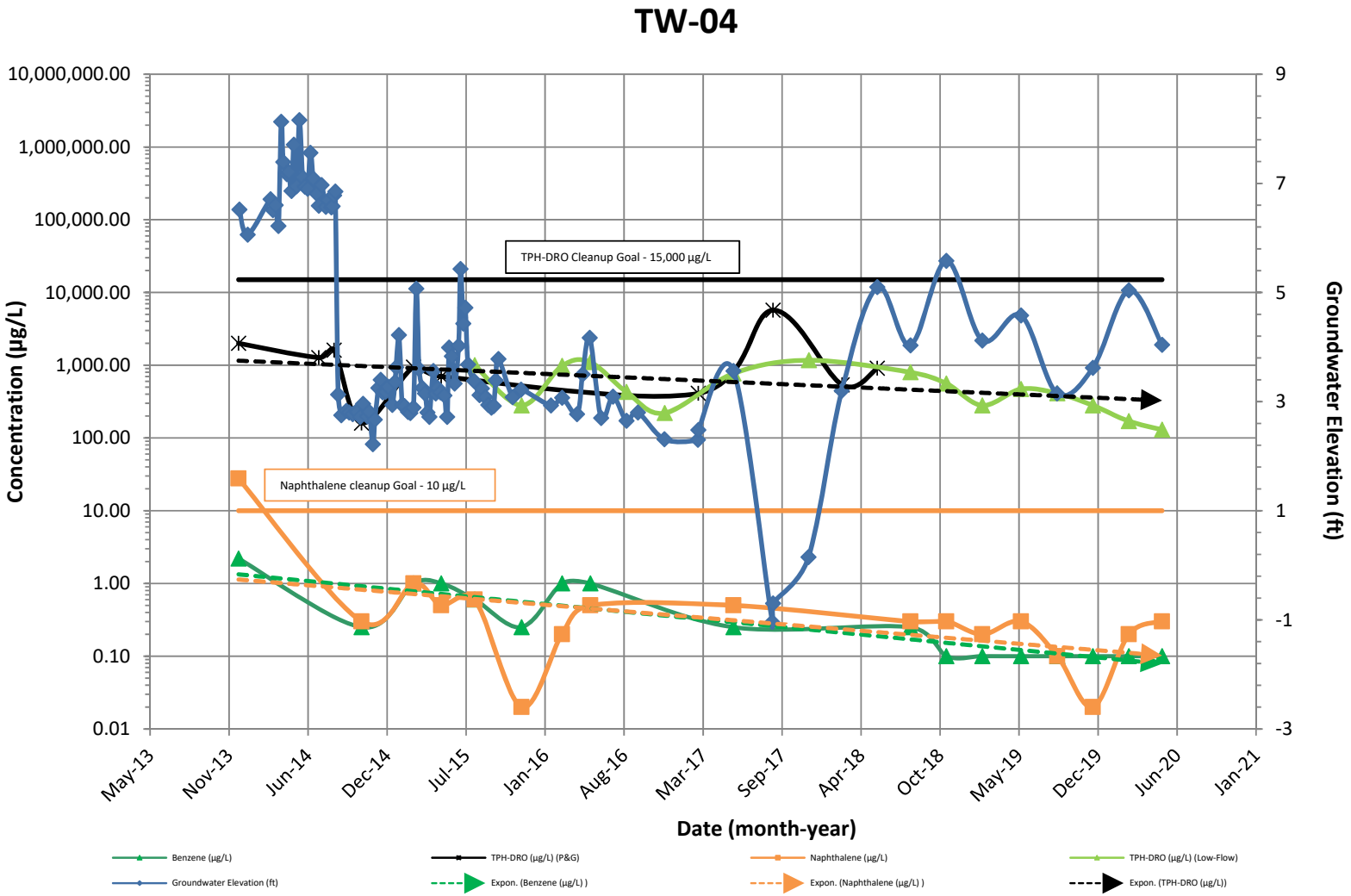
NRG PRGS
1400 North Royal Street
Alexandria, VA



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).

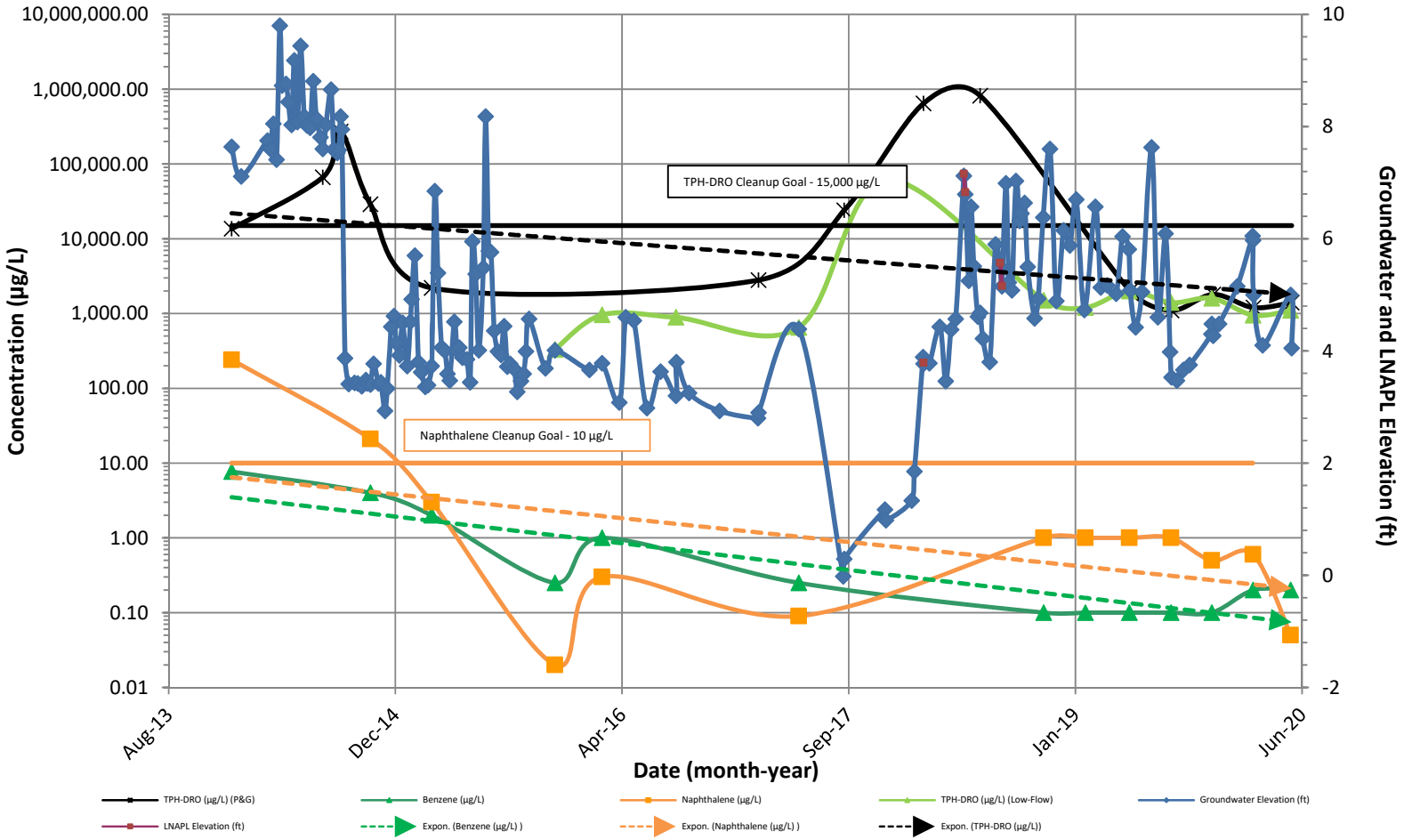
CONCENTRATION TREND GRAPHS

NRG PRGS
1400 North Royal Street
Alexandria, VA



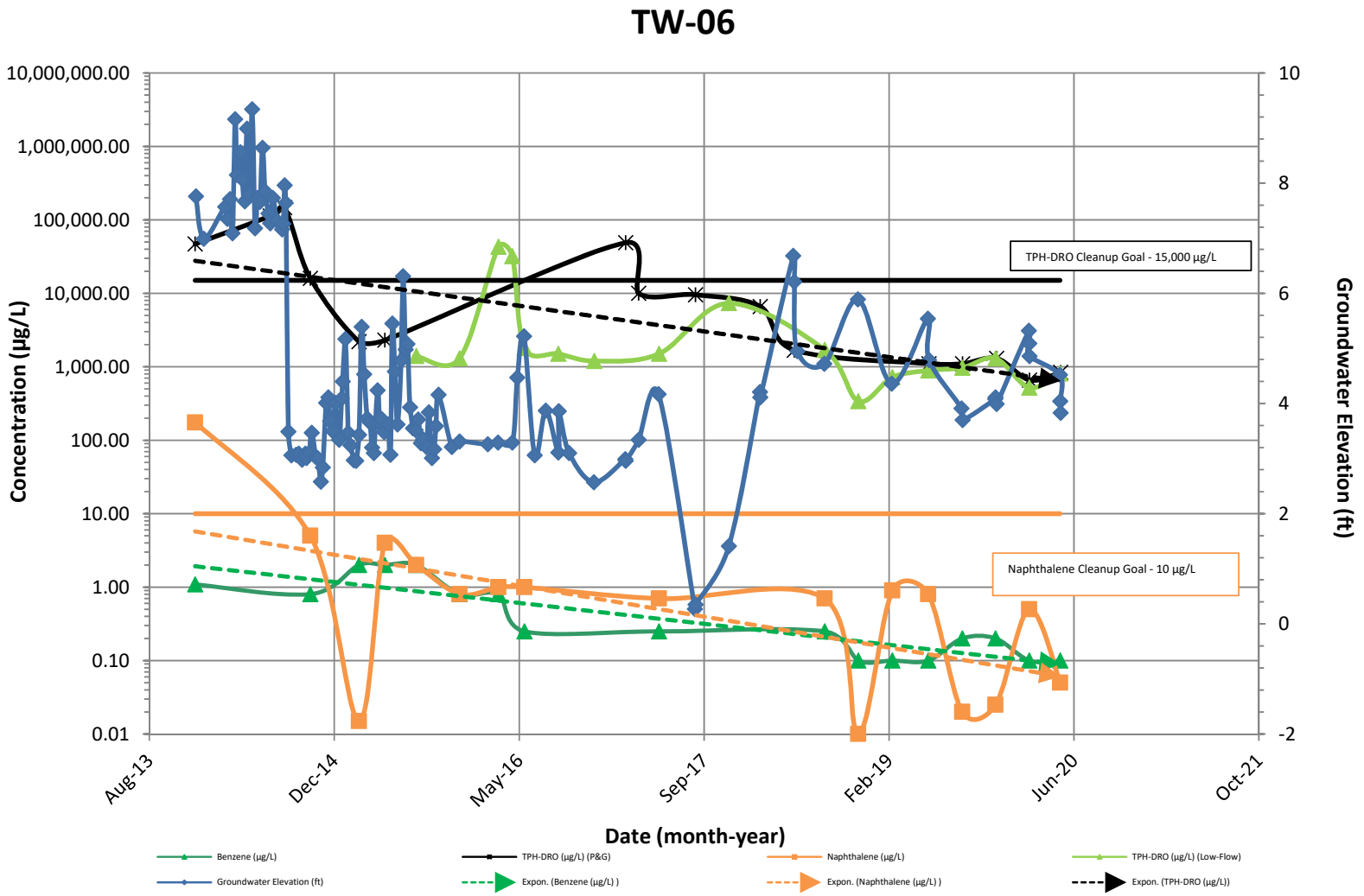
Note: 1. Non-detect results are plotted at half the method detection limit (i.e. 22.5 µg/L is plotted for a TPH-DRO result of <45 µg/L).

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).

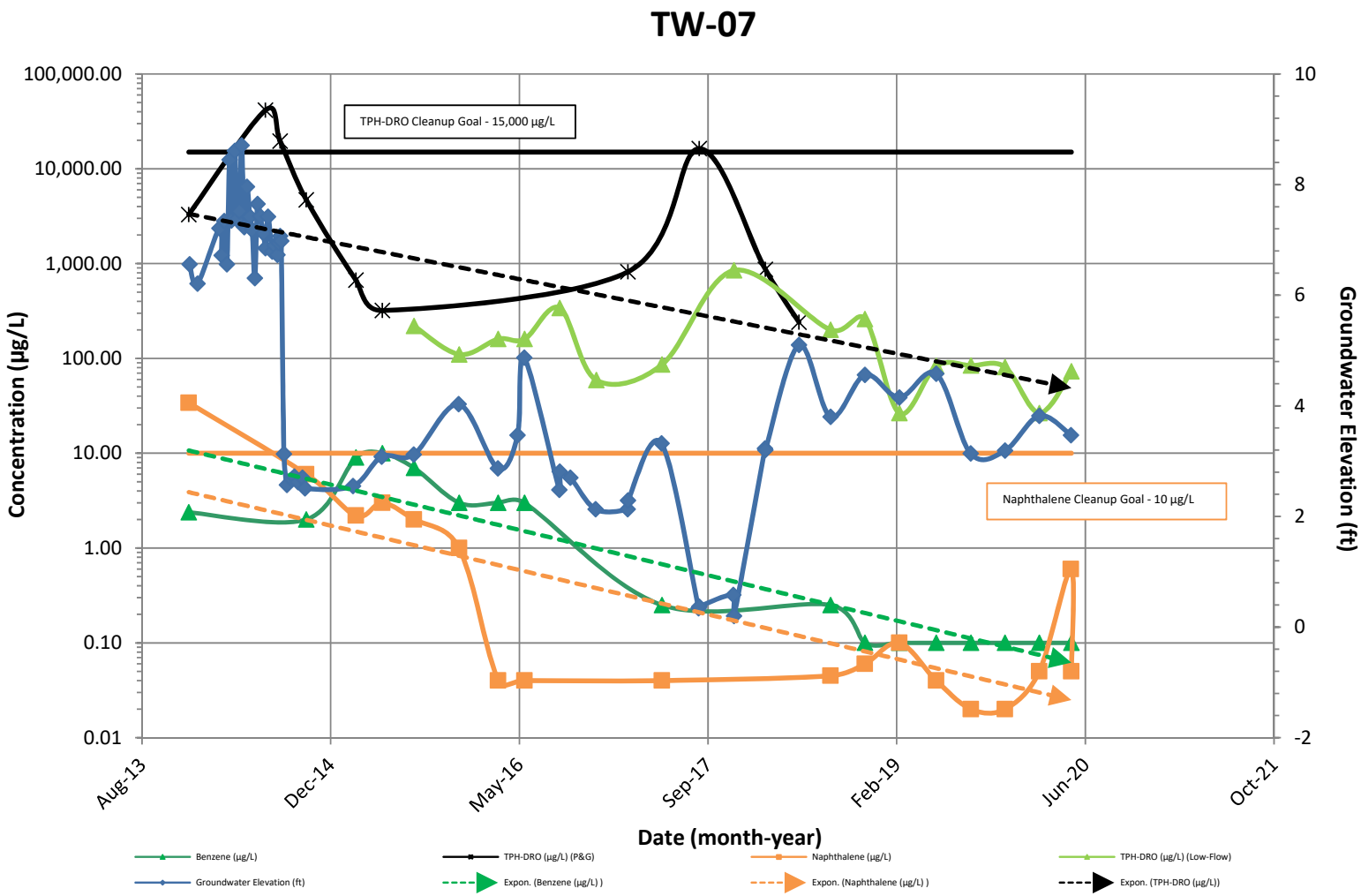
NRG PRGS
1400 North Royal Street
Alexandria, VA



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).

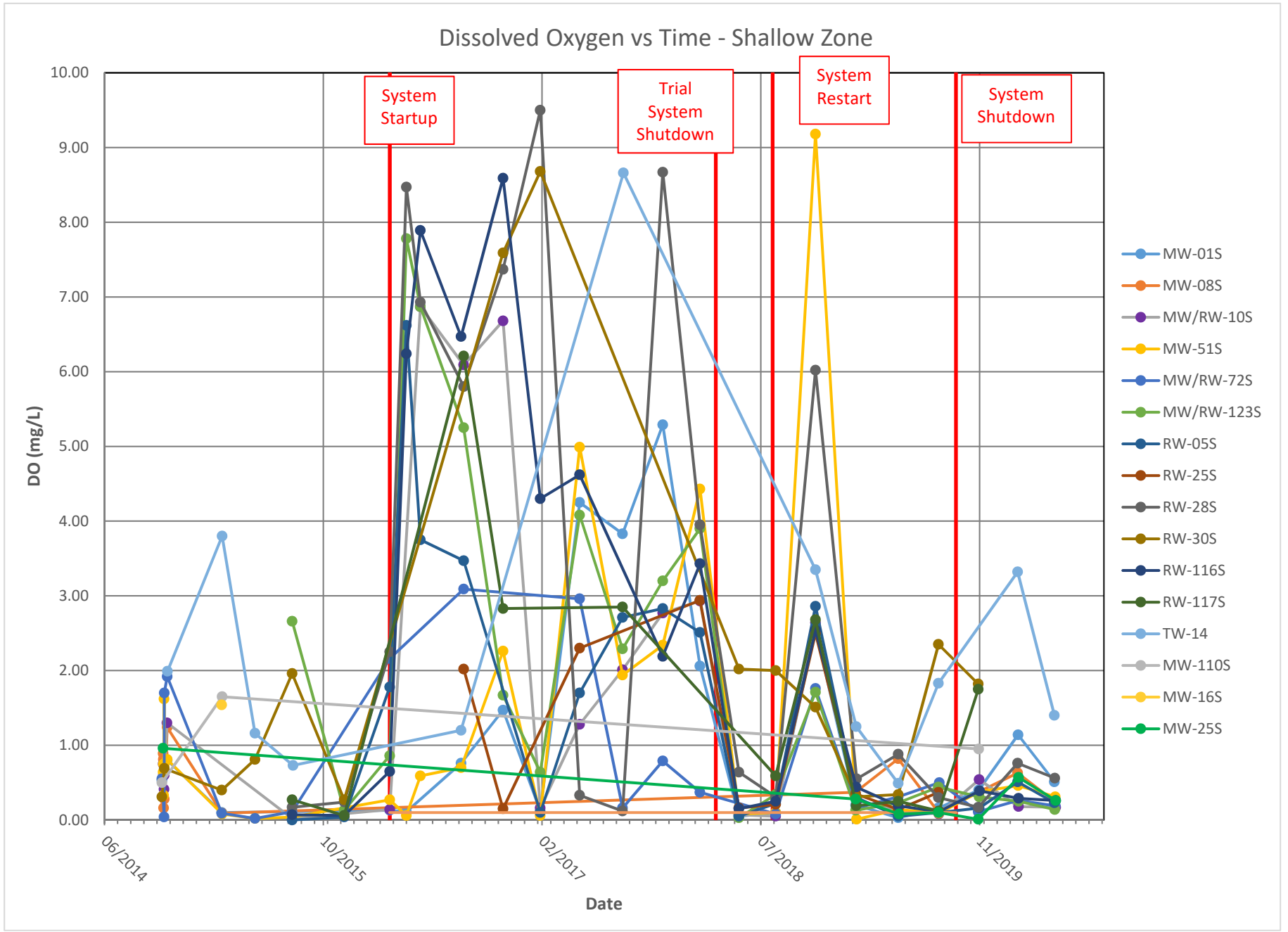
CONCENTRATION TREND GRAPHS

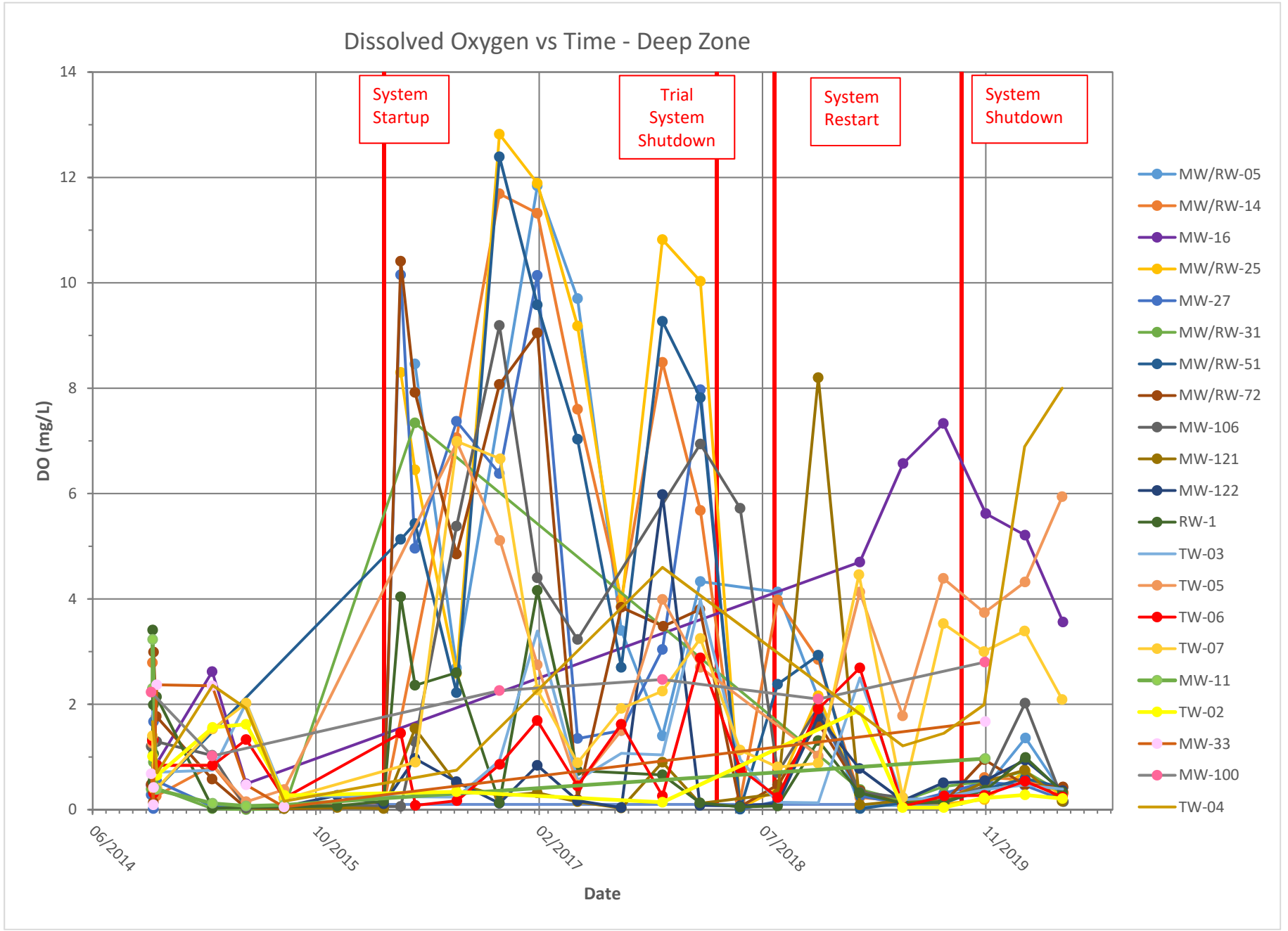
NRG PRGS
1400 North Royal Street
Alexandria, VA

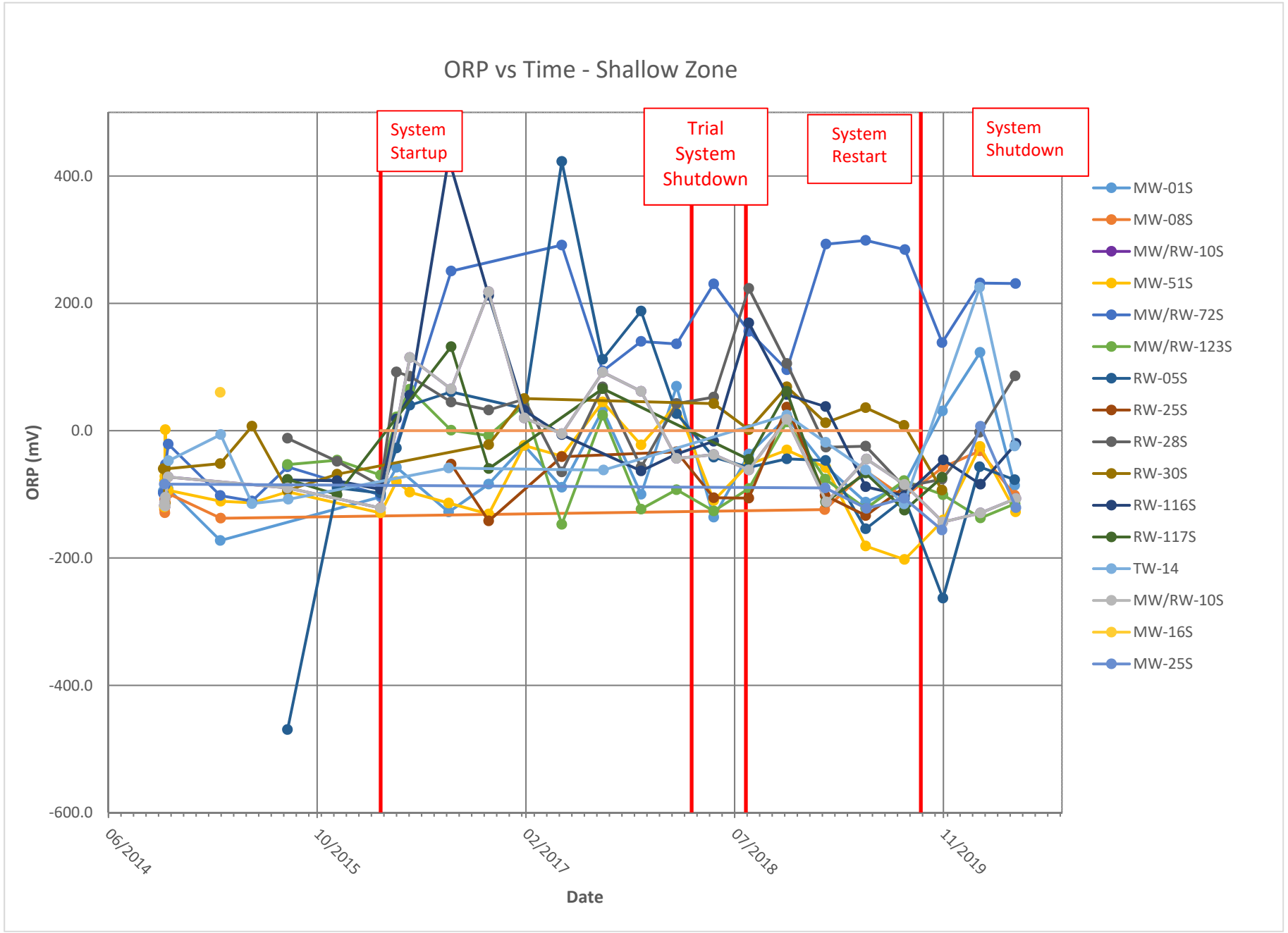


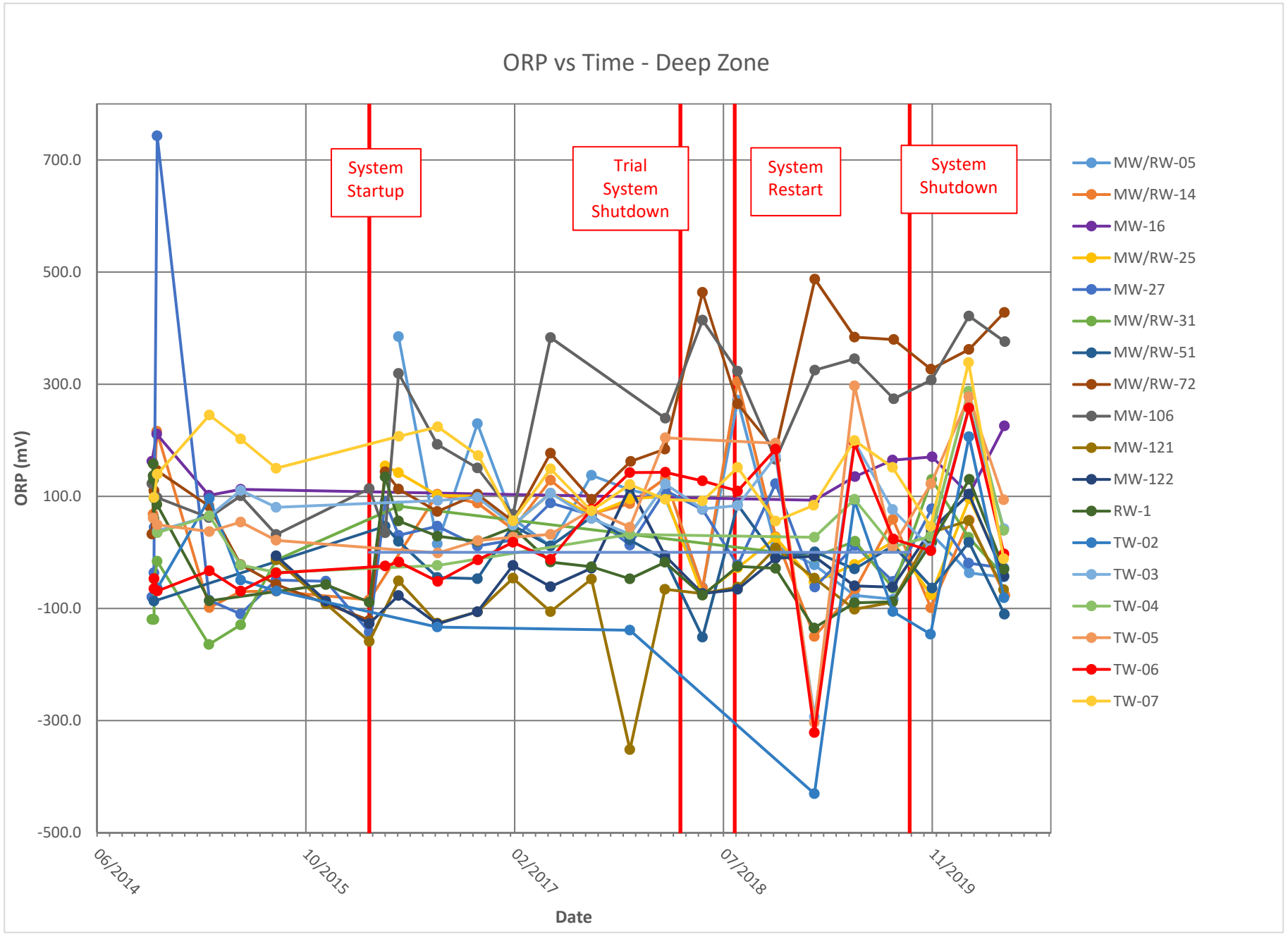
Note: 1. Non-detect results are plotted at half the method detection limit (i.e. 22.5 µg/L is plotted for a TPH-DRO result of <45 µg/L).

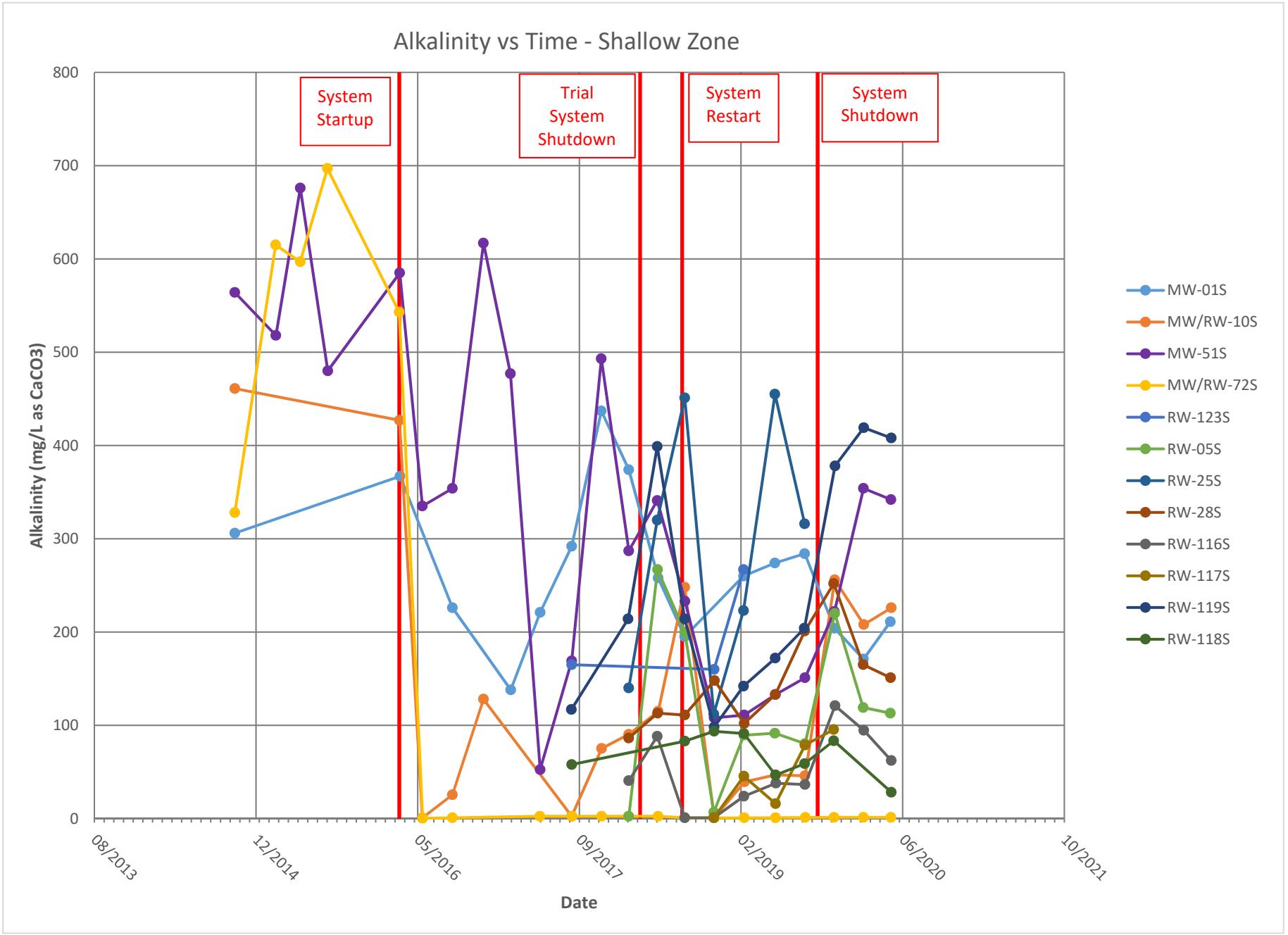
Attachment B – Monitored Natural Attenuation Trend Graphs

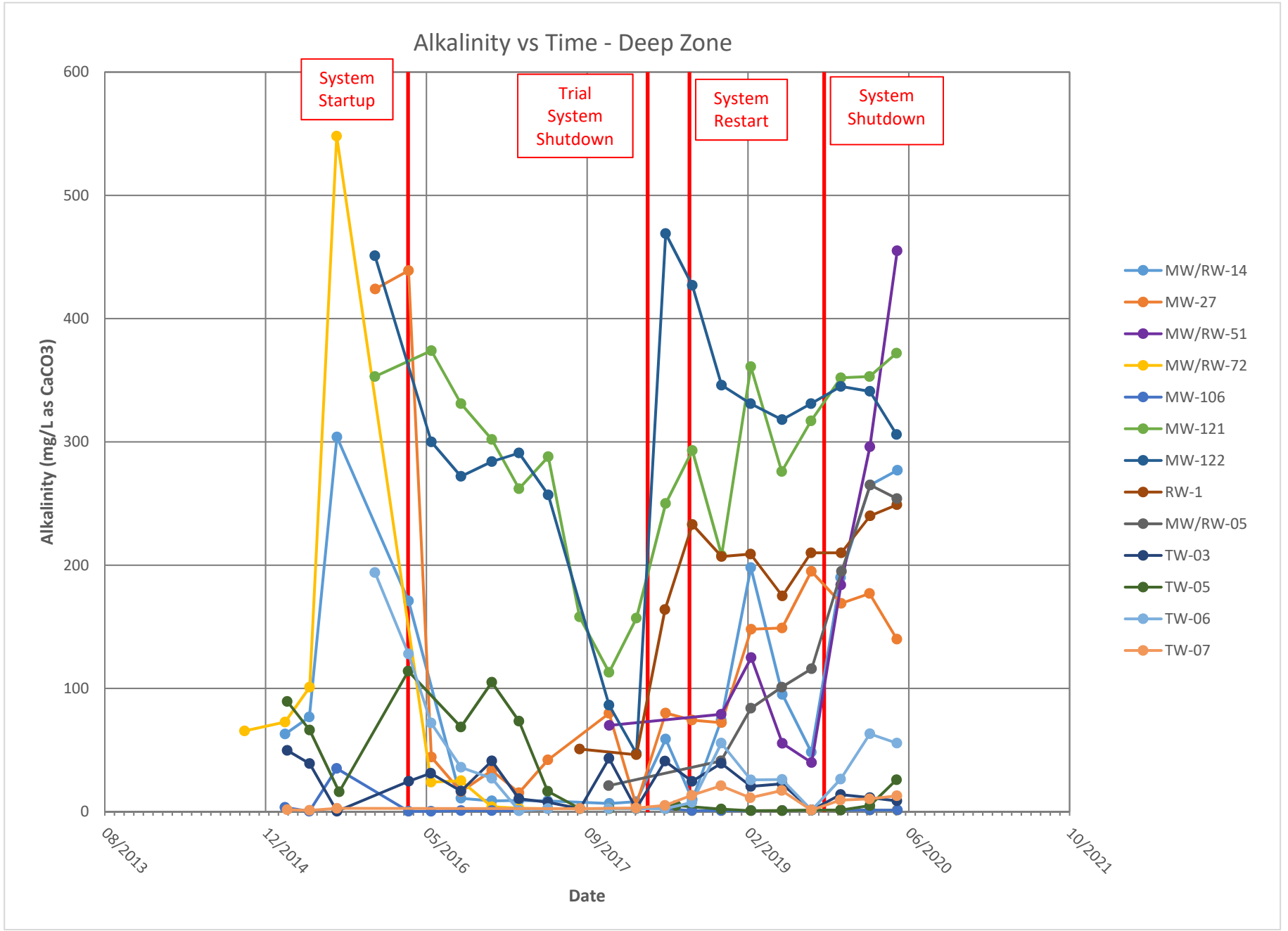

Dissolved Oxygen vs Time - Shallow Zone
System Startup
Trial System Shutdown
System Restart
System Shutdown
DO (mg/L)
10.00
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
06/2014
10/2015
02/2017
07/2018
11/2019
Date
MW-01S
MW-08S
MW/RW-10S
MW-51S
MW/RW-72S
MW/RW-123S
RW-05S
RW-25S
RW-28S
RW-30S
RW-116S
RW-117S
TW-14
MW-110S
MW-16S
MW-25S

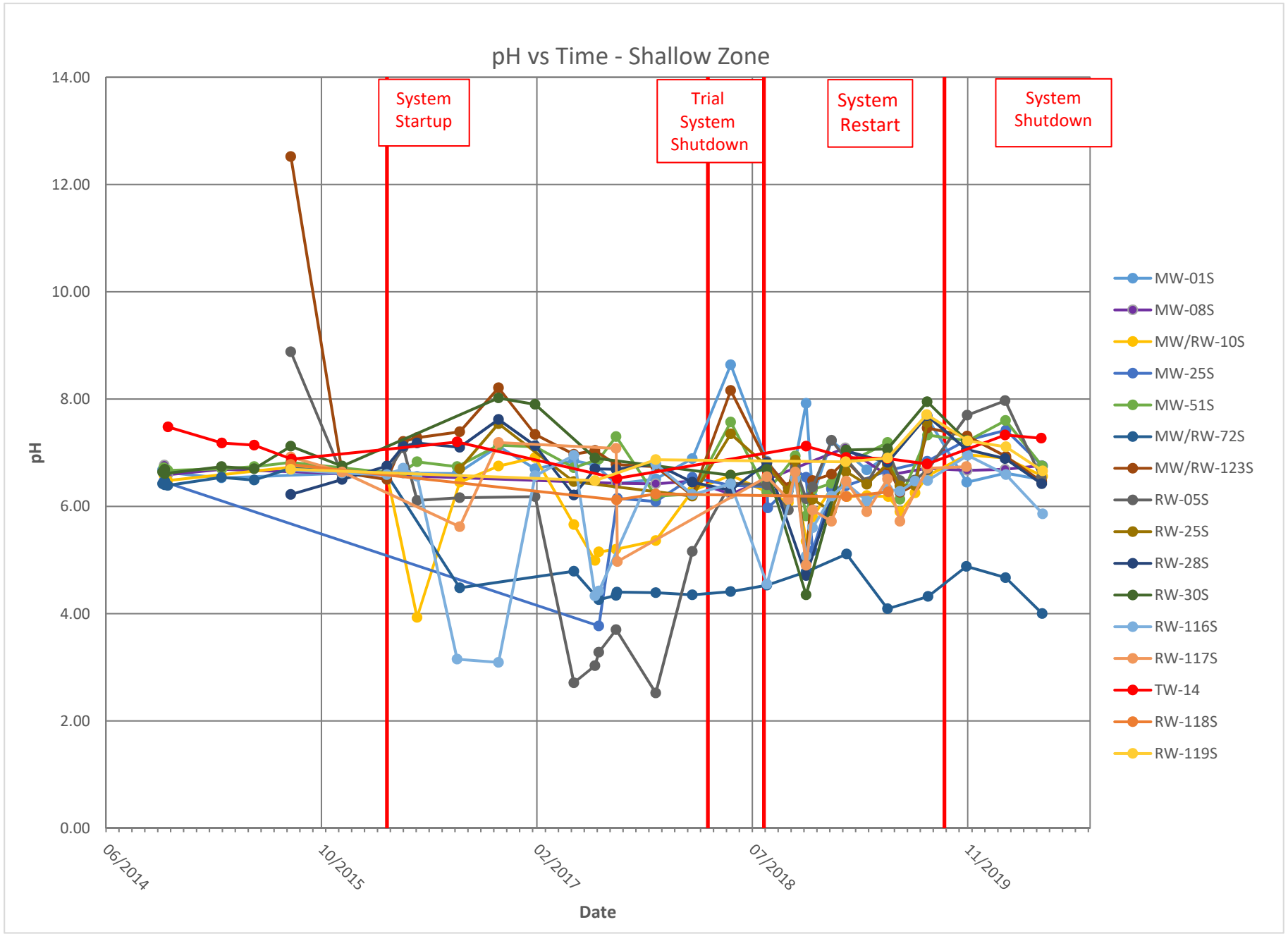

Dissolved Oxygen vs Time - Deep Zone
System Startup
Trial System Shutdown
System Restart
System Shutdown
DO (mg/L)
Date
06/2014
10/2015
02/2017
07/2018
11/2019
0
2
4
6
8
10
12
14
MW/RW-05
MW/RW-14
MW-16
MW/RW-25
MW-27
MW/RW-31
MW/RW-51
MW/RW-72
MW-106
MW-121
MW-122
RW-1
TW-03
TW-05
TW-06
TW-07
MW-11
TW-02
MW-33
MW-100
TW-04

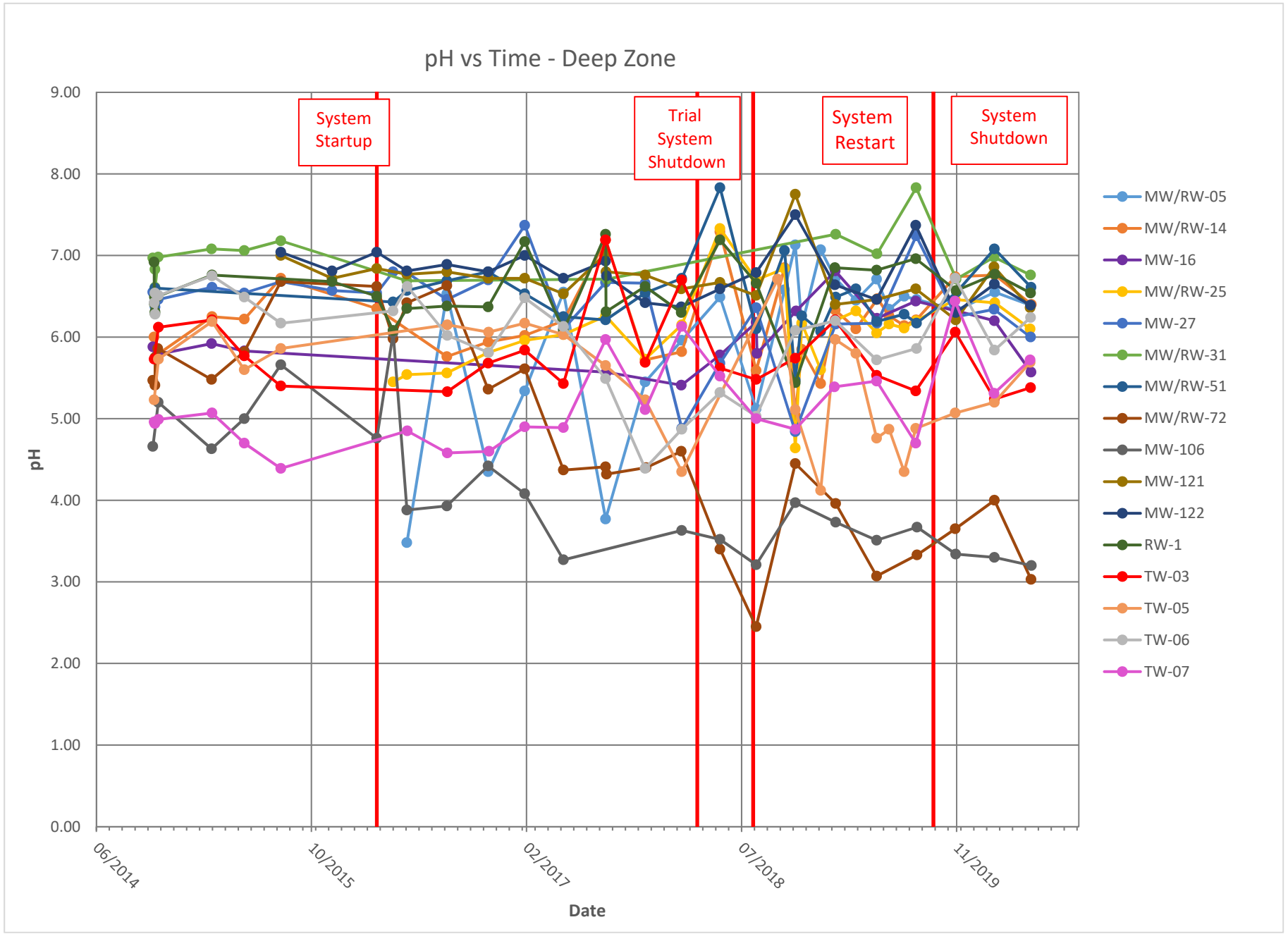

ORP vs Time - Shallow Zone
System Startup
Trial System Shutdown
System Restart
System Shutdown
400.0
200.0
0.0
-200.0
-400.0
-600.0
ORP (mV)
06/2014
10/2015
02/2017
07/2018
11/2019
Date
MW-01S
MW-08S
MW/RW-10S
MW-51S
MW/RW-72S
MW/RW-123S
RW-05S
RW-25S
RW-28S
RW-30S
RW-116S
RW-117S
TW-14
MW/RW-10S
MW-16S
MW-25S

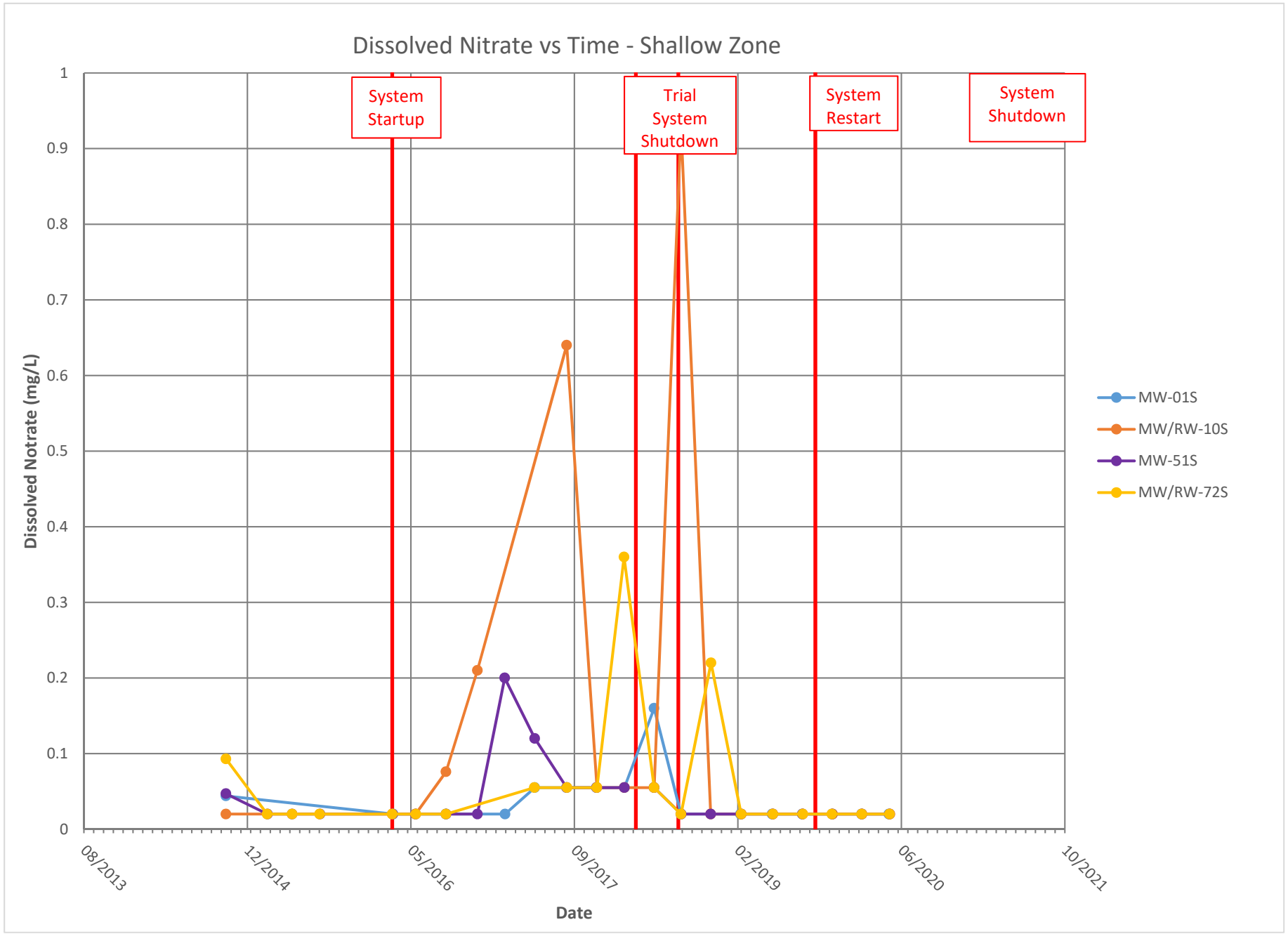

ORP vs Time - Deep Zone
System Startup
Trial System Shutdown
System Restart
System Shutdown
700.0
500.0
300.0
100.0
-100.0
-300.0
-500.0
ORP (mV)
06/2014
10/2015
02/2017
07/2018
11/2019
Date
MW/RW-05
MW/RW-14
MW-16
MW/RW-25
MW-27
MW/RW-31
MW/RW-51
MW/RW-72
MW-106
MW-121
MW-122
RW-1
TW-02
TW-03
TW-04
TW-05
TW-06
TW-07

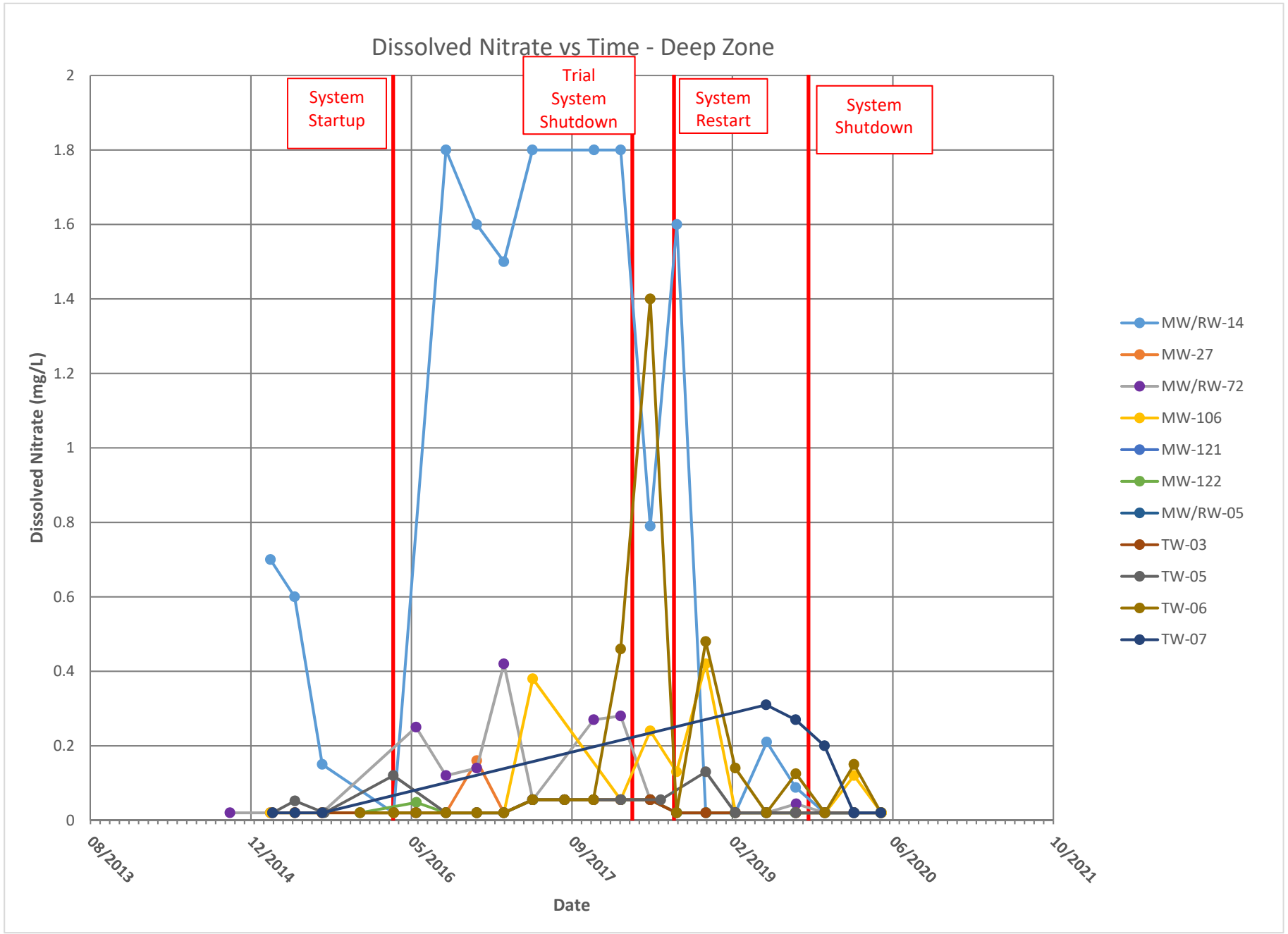

Alkalinity vs Time - Shallow Zone
System Startup
Trial System Shutdown
System Restart
System Shutdown
Alkalinity (mg/L as CaCO3)
800
700
600
500
400
300
200
100
0
08/2013
12/2014
05/2016
09/2017
02/2019
06/2020
10/2021
Date
MW-01S
MW/RW-10S
MW-51S
MW/RW-72S
RW-123S
RW-05S
RW-25S
RW-28S
RW-116S
RW-117S
RW-119S
RW-118S

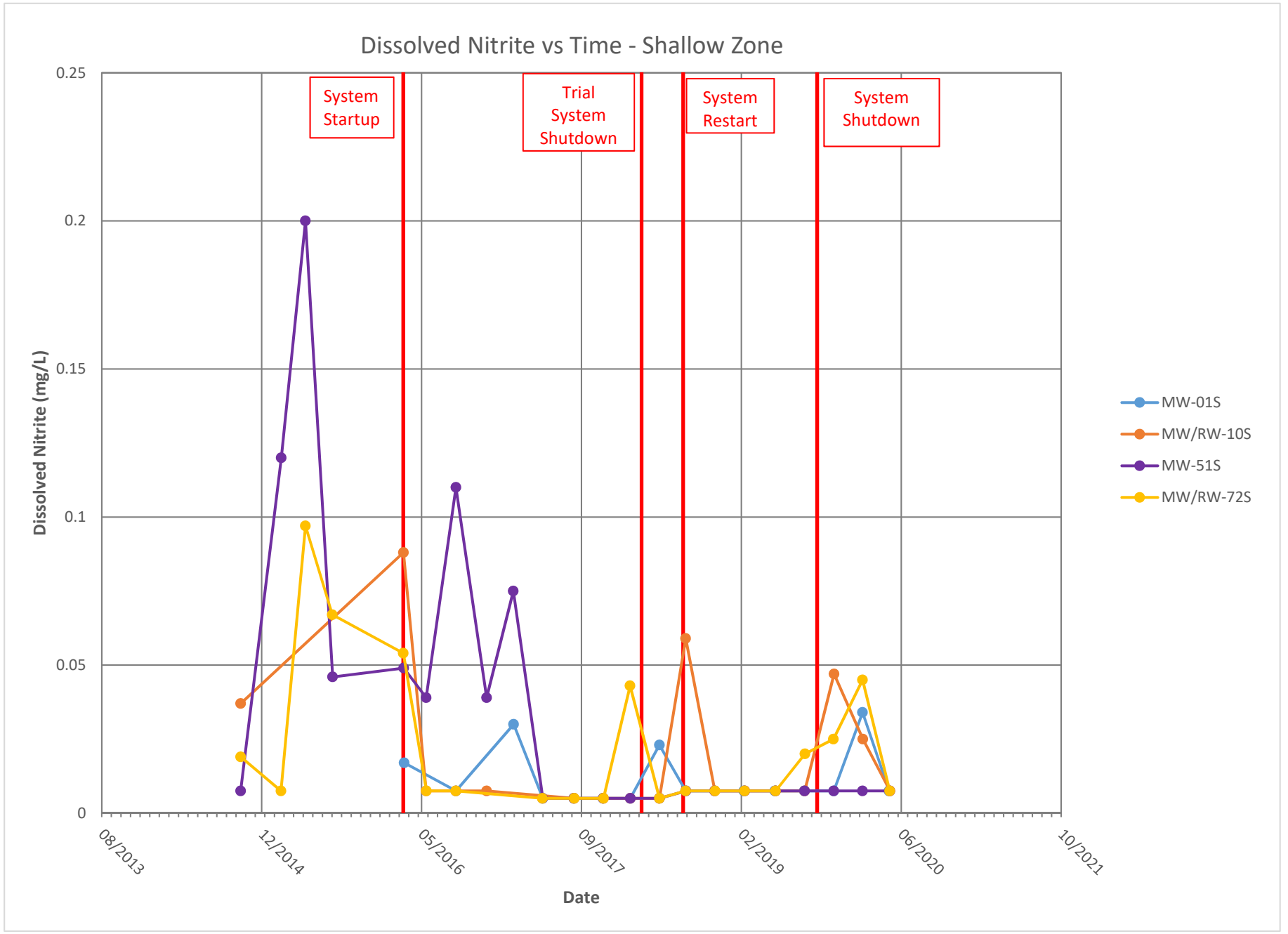

Alkalinity vs Time - Deep Zone
System Startup
Trial System Shutdown
System Restart
System Shutdown
Alkalinity (mg/L as CaCO3)
600
500
400
300
200
100
0
08/2013
12/2014
05/2016
09/2017
02/2019
06/2020
10/2021
Date
MW/RW-14
MW-27
MW/RW-51
MW/RW-72
MW-106
MW-121
MW-122
RW-1
MW/RW-05
TW-03
TW-05
TW-06
TW-07

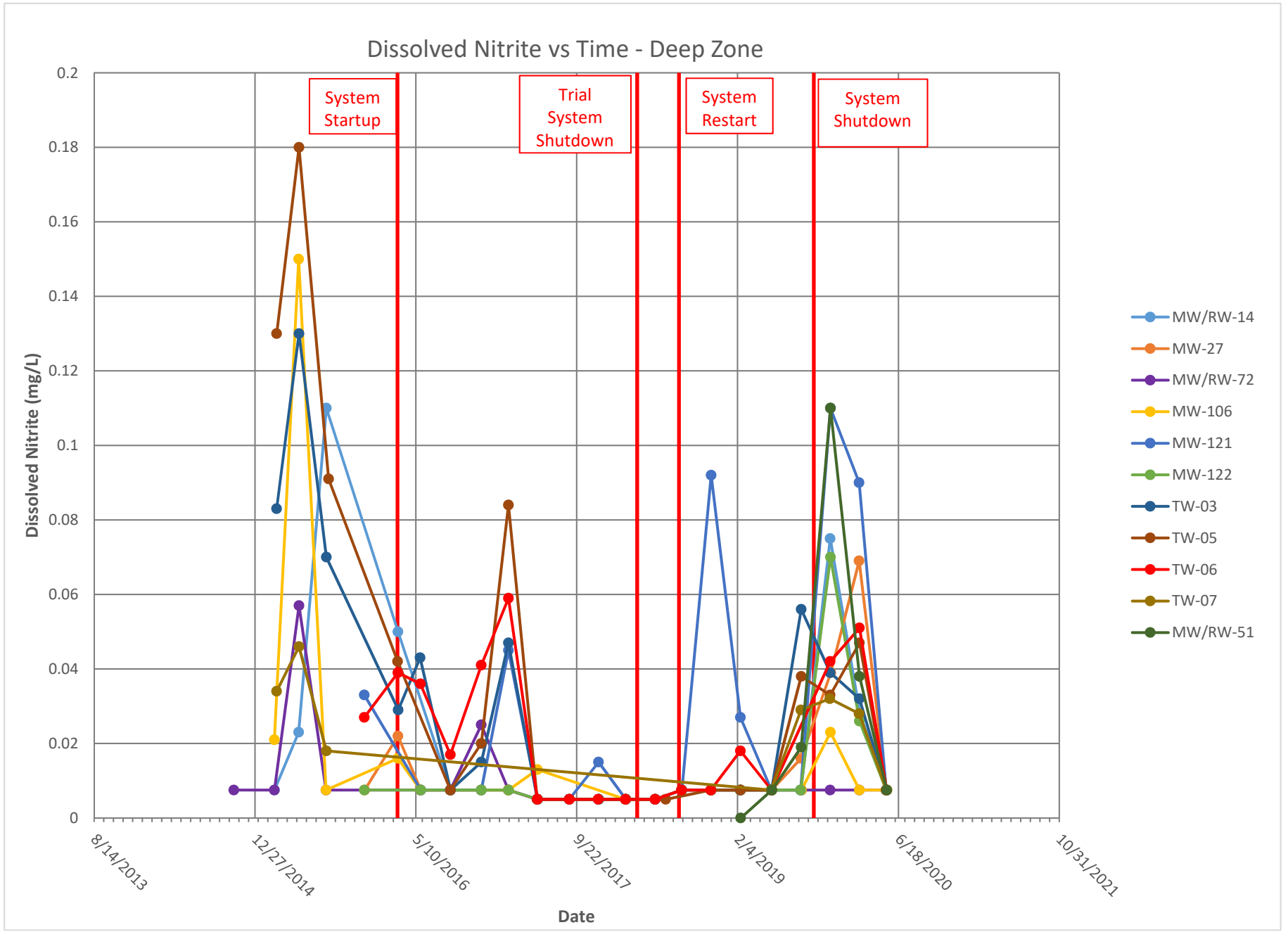

pH vs Time - Shallow Zone
System Startup
Trial System Shutdown
System Restart
System Shutdown
14.00
12.00
10.00
8.00
6.00
4.00
2.00
0.00
pH
06/2014
10/2015
02/2017
07/2018
11/2019
Date
MW-01S
MW-08S
MW/RW-10S
MW-25S
MW-51S
MW/RW-72S
MW/RW-123S
RW-05S
RW-25S
RW-28S
RW-30S
RW-116S
RW-117S
TW-14
RW-118S
RW-119S

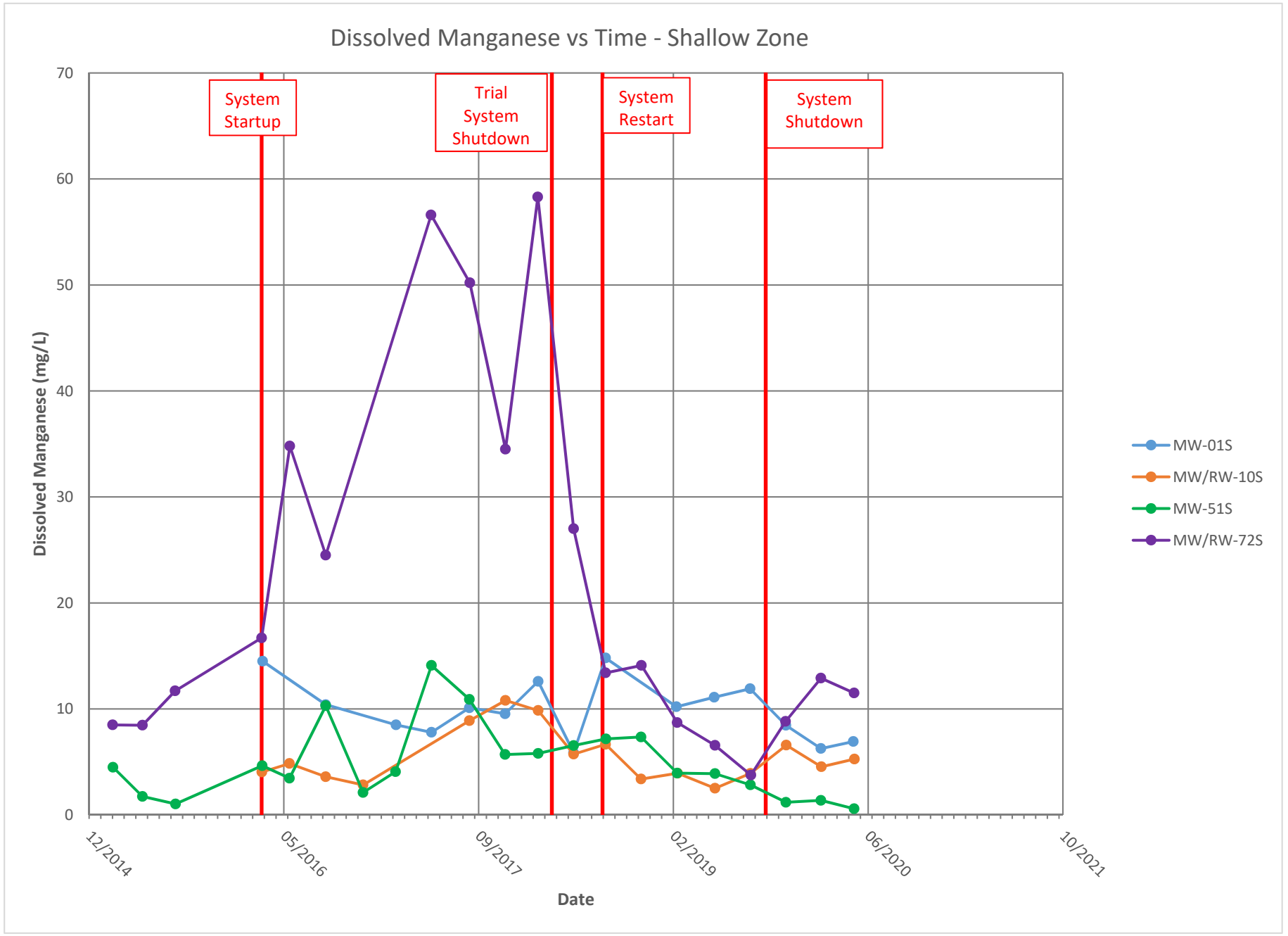

pH vs Time - Deep Zone
System Startup
Trial System Shutdown
System Restart
System Shutdown
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
pH
06/2014
10/2015
02/2017
07/2018
11/2019
Date
MW/RW-05
MW/RW-14
MW-16
MW/RW-25
MW-27
MW/RW-31
MW/RW-51
MW/RW-72
MW-106
MW-121
MW-122
RW-1
TW-03
TW-05
TW-06
TW-07

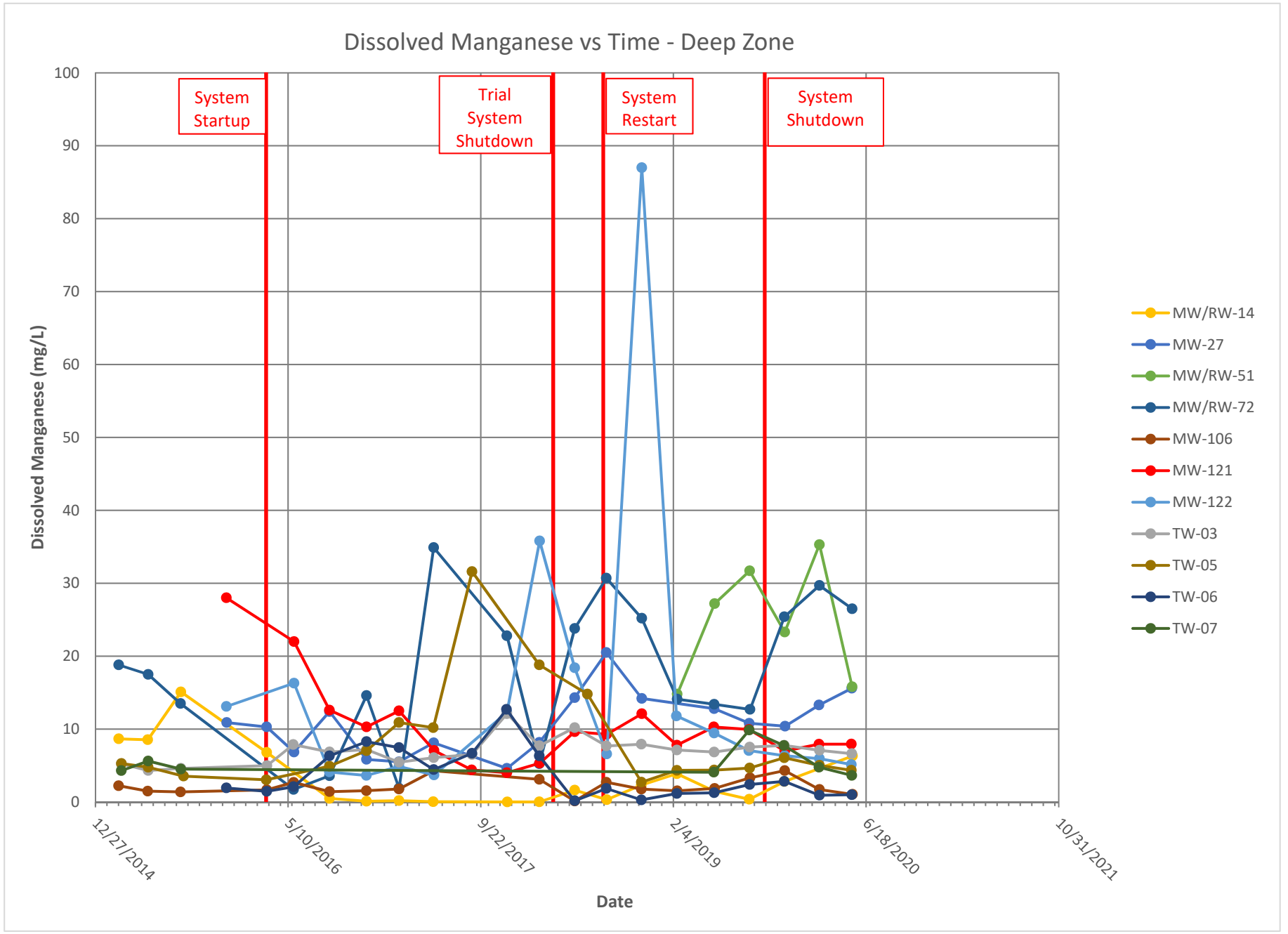

Dissolved Nitrate vs Time - Shallow Zone
System Startup
Trial System Shutdown
System Restart
System Shutdown
Dissolved Notrate (mg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
08/2013
12/2014
05/2016
09/2017
02/2019
06/2020
10/2021
Date
MW-01S
MW/RW-10S
MW-51S
MW/RW-72S

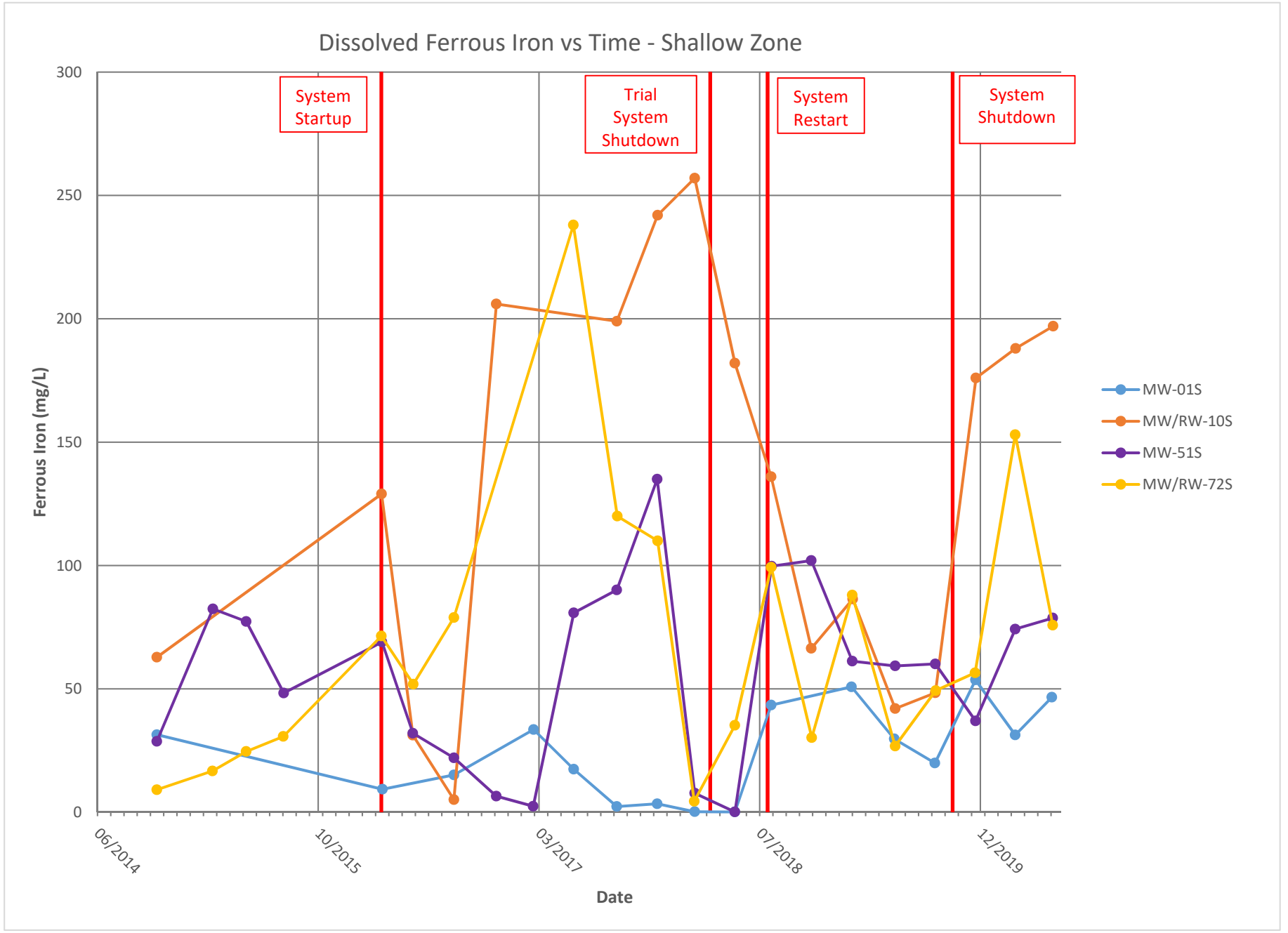

Dissolved Nitrate vs Time - Deep Zone
System Startup
Trial System Shutdown
System Restart
System Shutdown
Dissolved Nitrate (mg/L)
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
08/2013
12/2014
05/2016
09/2017
02/2019
06/2020
10/2021
Date
MW/RW-14
MW-27
MW/RW-72
MW-106
MW-121
MW-122
MW/RW-05
TW-03
TW-05
TW-06
TW-07

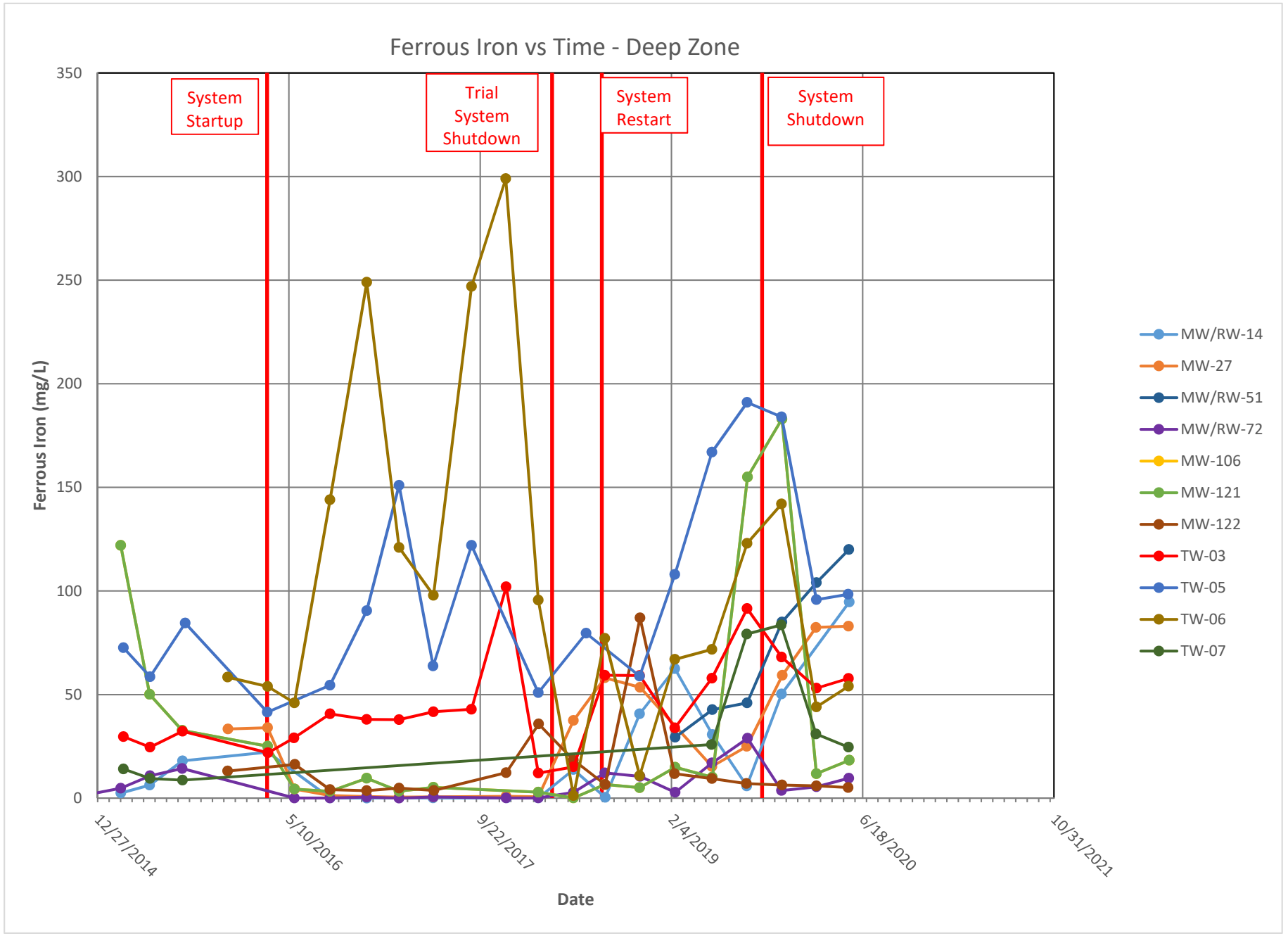

Dissolved Nitrite vs Time - Shallow Zone
System Startup
Trial System Shutdown
System Restart
System Shutdown
Dissolved Nitrite (mg/L)
0.25
0.2
0.15
0.1
0.05
0
08/2013
12/2014
05/2016
09/2017
02/2019
06/2020
10/2021
Date
MW-01S
MW/RW-10S
MW-51S
MW/RW-72S

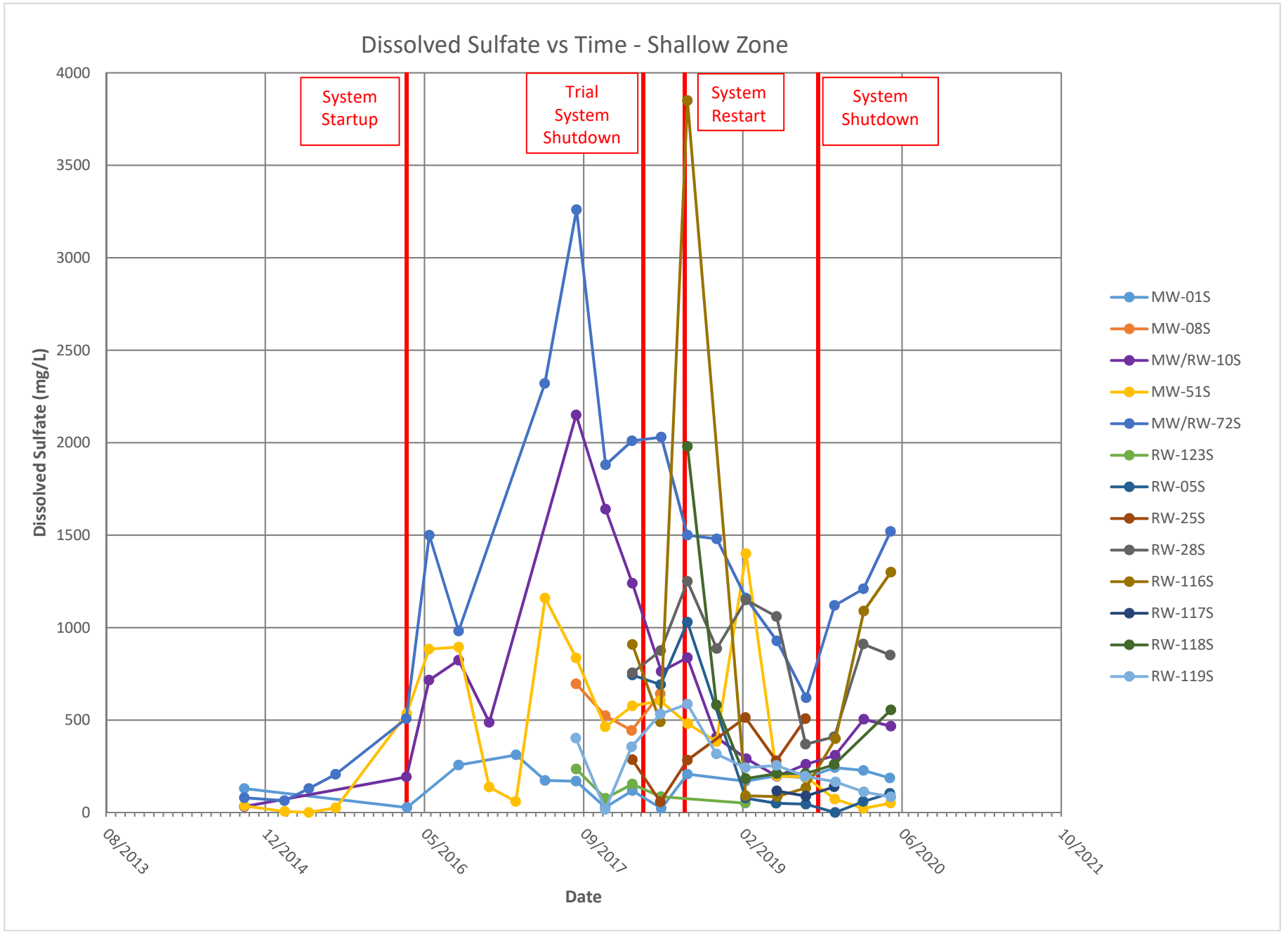

Dissolved Nitrite vs Time - Deep Zone
System Startup
Trial System Shutdown
System Restart
System Shutdown
Dissolved Nitrite (mg/L)
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
8/14/2013
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020
10/31/2021
Date
MW/RW-14
MW-27
MW/RW-72
MW-106
MW-121
MW-122
TW-03
TW-05
TW-06
TW-07
MW/RW-51

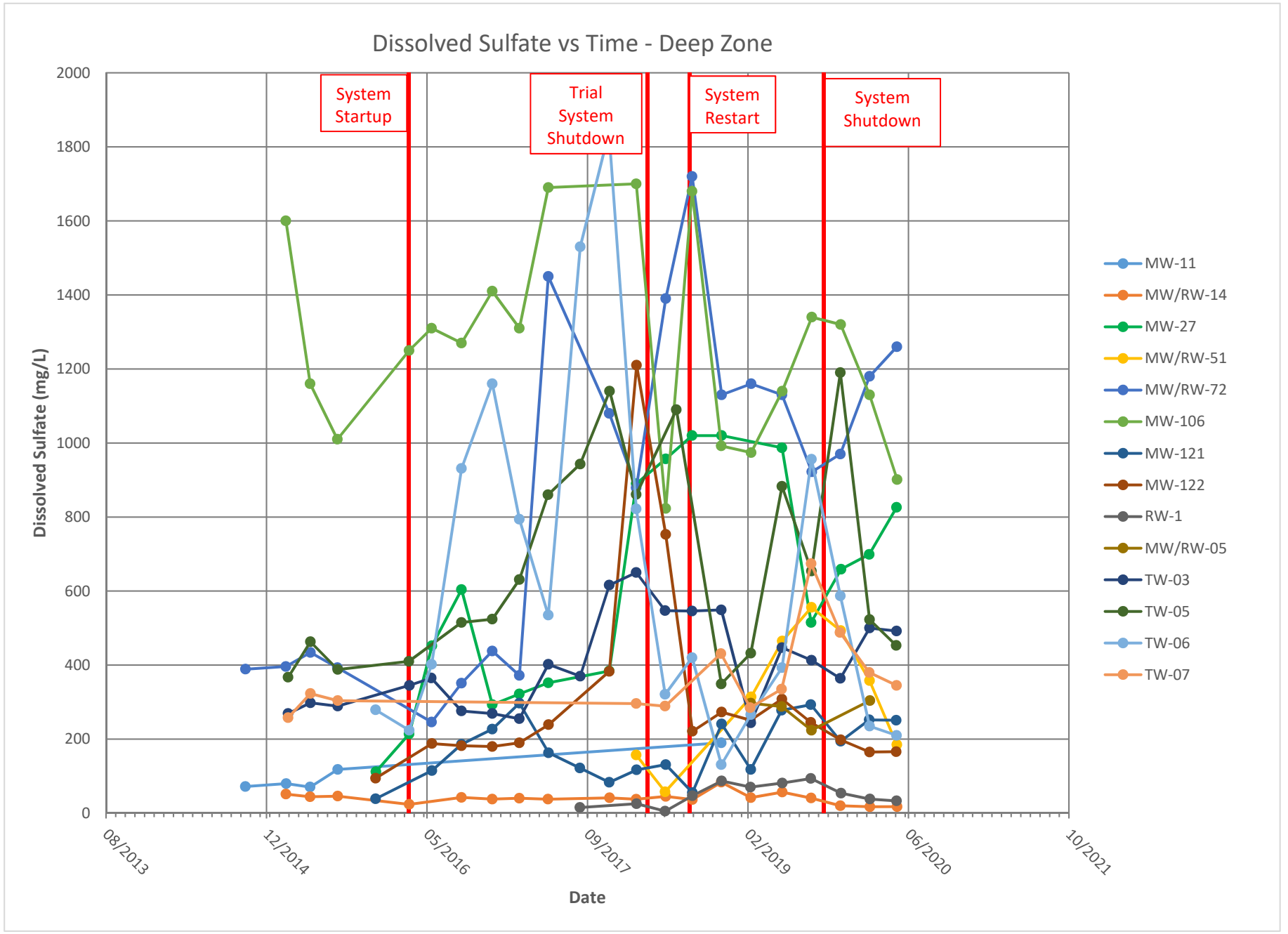

Dissolved Manganese vs Time - Shallow Zone
System Startup
Trial System Shutdown
System Restart
System Shutdown
Dissolved Manganese (mg/L)
70
60
50
40
30
20
10
0
12/2014
05/2016
09/2017
02/2019
06/2020
10/2021
Date
MW-01S
MW/RW-10S
MW-51S
MW/RW-72S

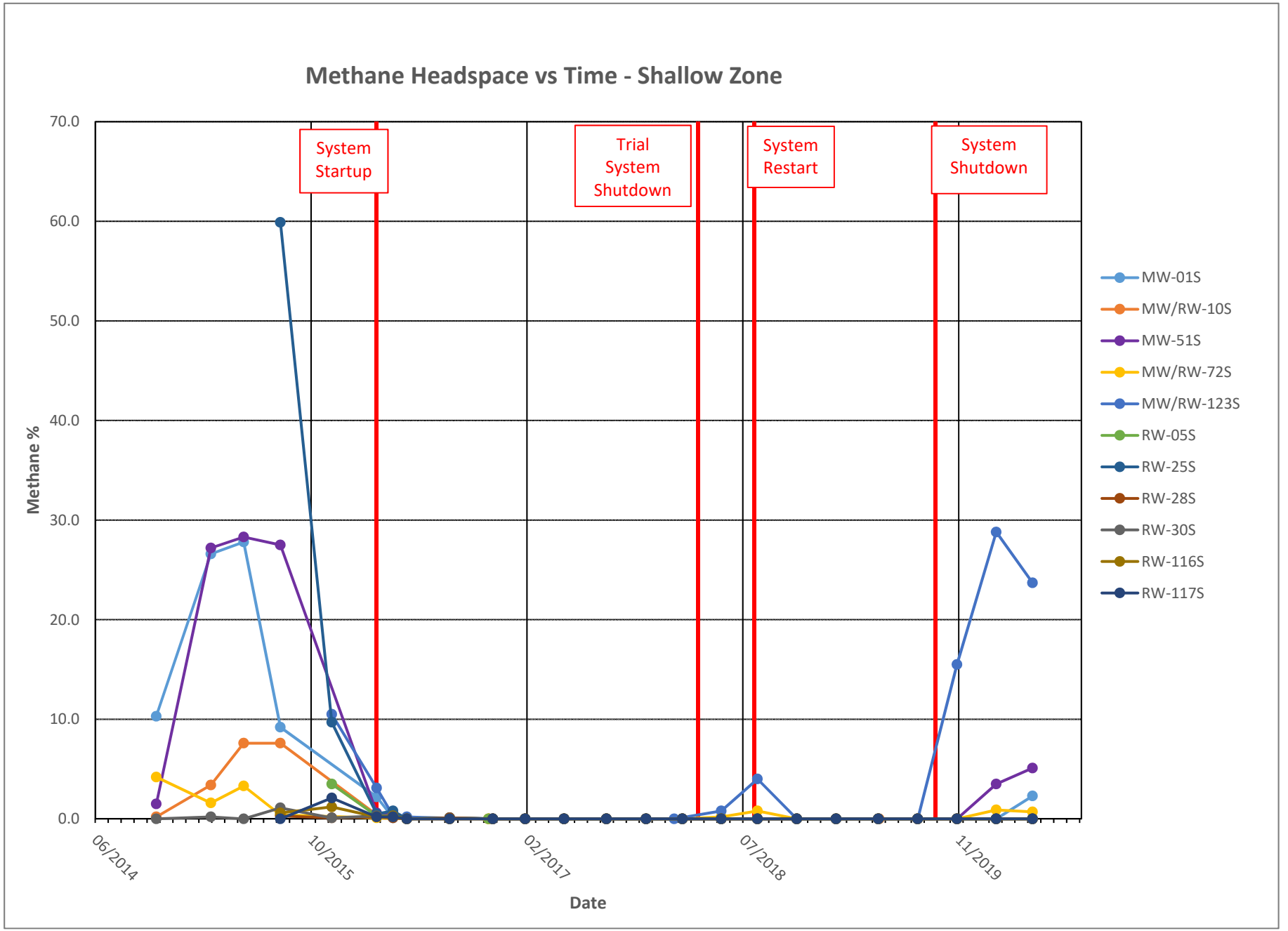

Dissolved Manganese vs Time - Deep Zone
System Startup
Trial System Shutdown
System Restart
System Shutdown
Dissolved Manganese (mg/L)
100
90
80
70
60
50
40
30
20
10
0
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020
10/31/2021
Date
MW/RW-14
MW-27
MW/RW-51
MW/RW-72
MW-106
MW-121
MW-122
TW-03
TW-05
TW-06
TW-07

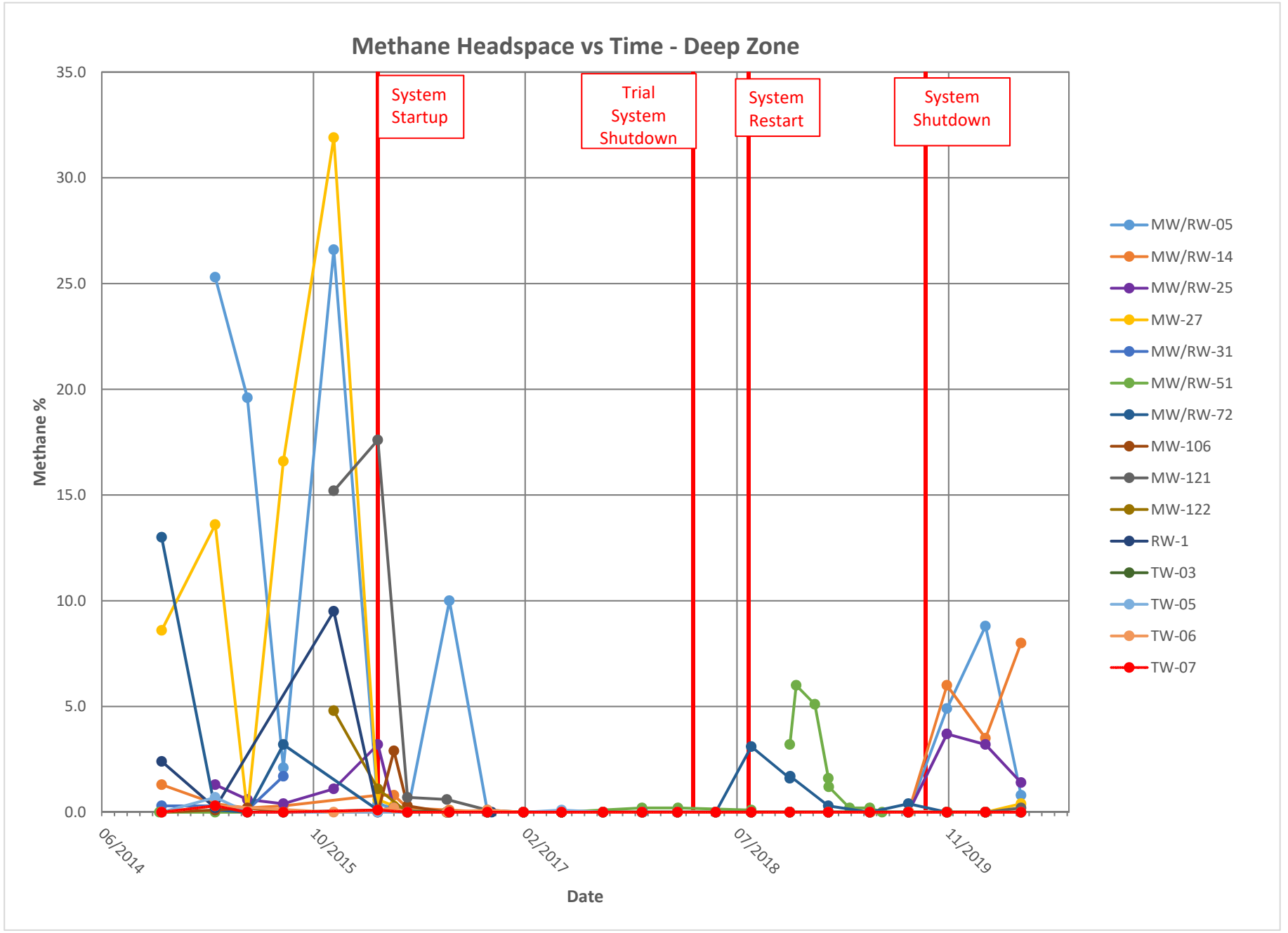

Dissolved Ferrous Iron vs Time - Shallow Zone
System Startup
Trial System Shutdown
System Restart
System Shutdown
Ferrous Iron (mg/L)
300
250
200
150
100
50
0
06/2014
10/2015
03/2017
07/2018
12/2019
Date
MW-01S
MW/RW-10S
MW-51S
MW/RW-72S

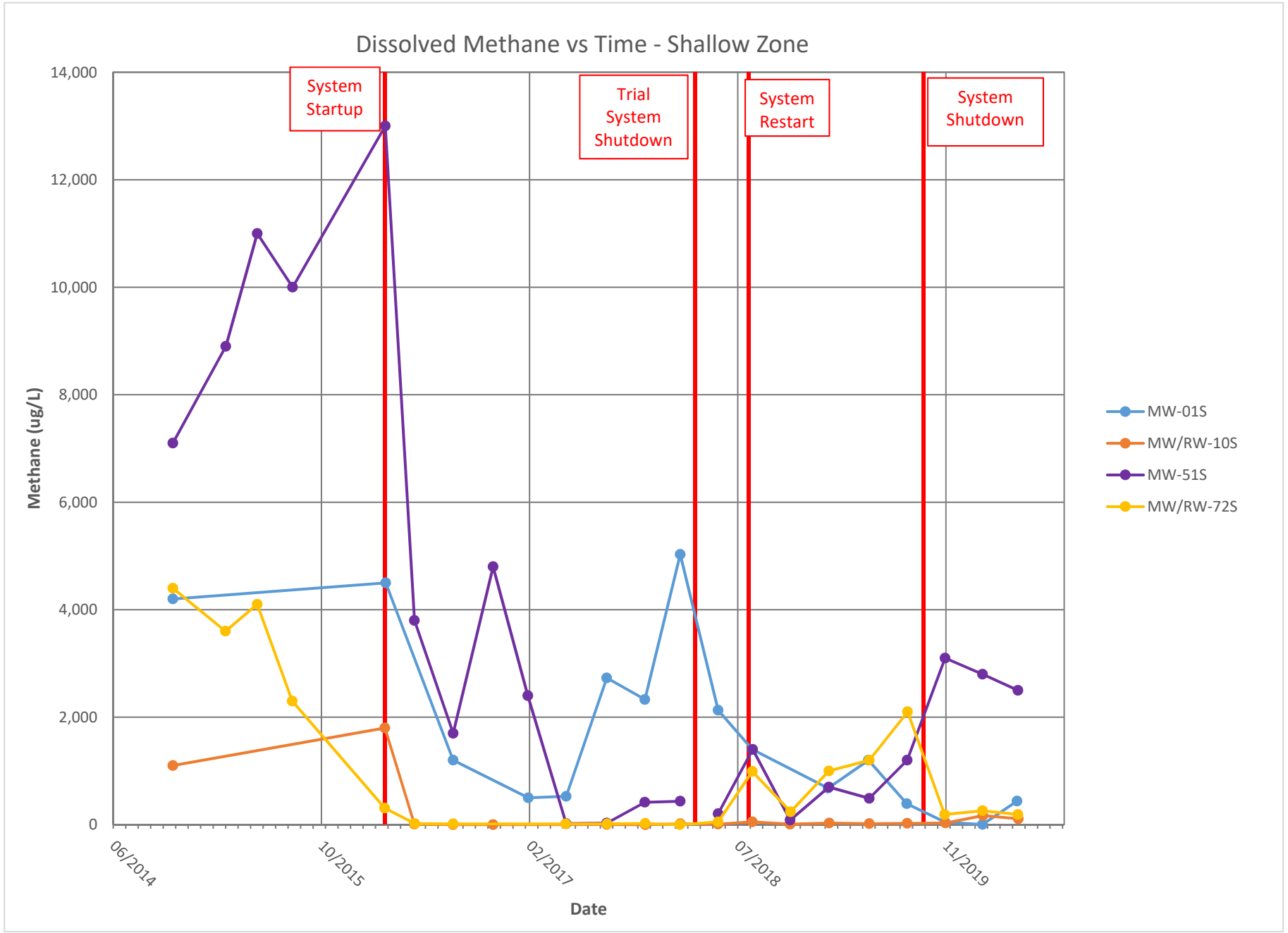

Ferrous Iron vs Time - Deep Zone
System Startup
Trial System Shutdown
System Restart
System Shutdown
Ferrous Iron (mg/L)
350
300
250
200
150
100
50
0
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020
10/31/2021
Date
MW/RW-14
MW-27
MW/RW-51
MW/RW-72
MW-106
MW-121
MW-122
TW-03
TW-05
TW-06
TW-07

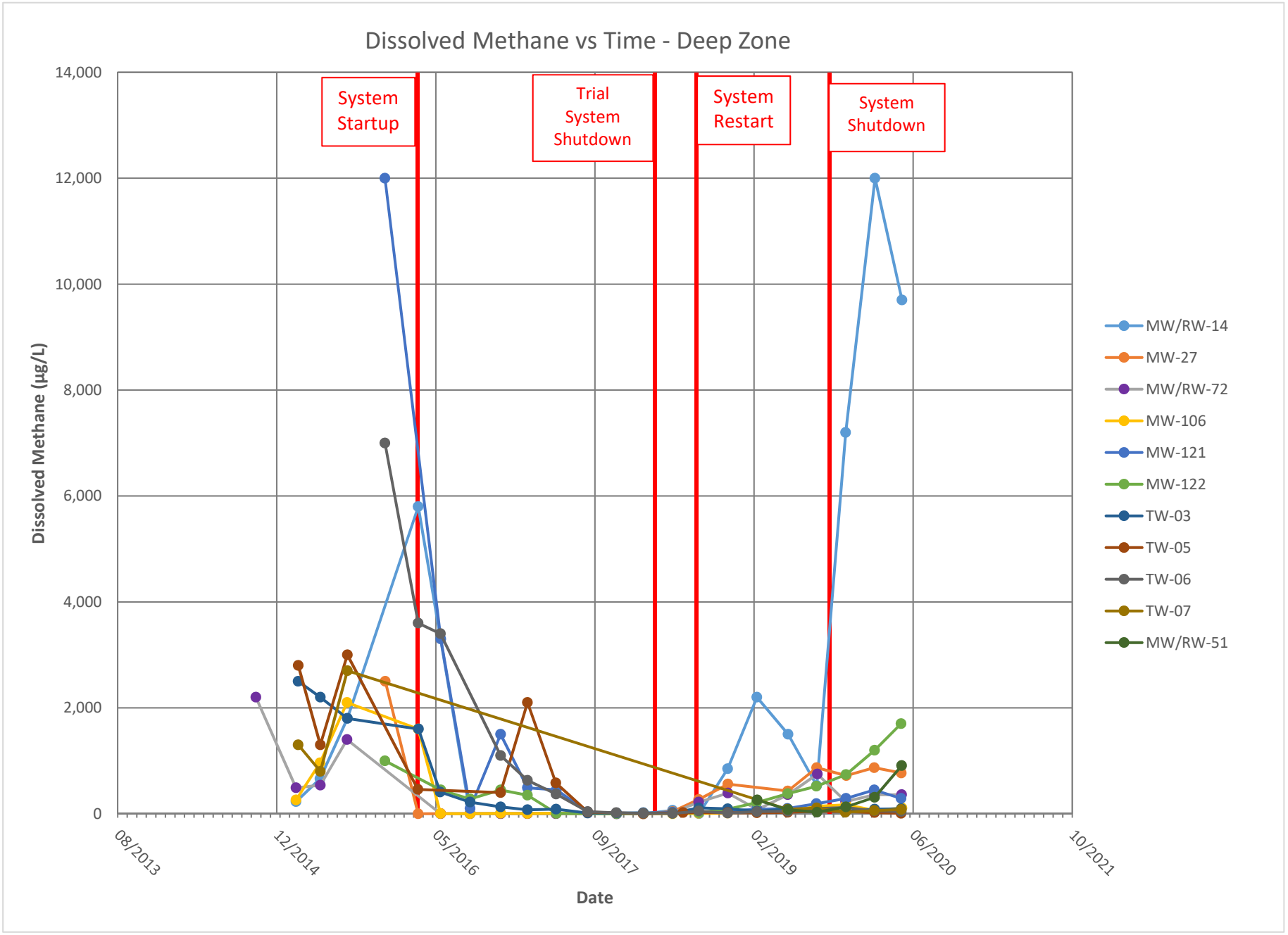

Dissolved Sulfate vs Time - Shallow Zone
System Startup
Trial System Shutdown
System Restart
System Shutdown
Dissolved Sulfate (mg/L)
4000
3500
3000
2500
2000
1500
1000
500
0
08/2013
12/2014
05/2016
09/2017
02/2019
06/2020
10/2021
Date
MW-01S
MW-08S
MW/RW-10S
MW-51S
MW/RW-72S
RW-123S
RW-05S
RW-25S
RW-28S
RW-116S
RW-117S
RW-118S
RW-119S


Dissolved Sulfate vs Time - Deep Zone
System Startup
Trial System Shutdown
System Restart
System Shutdown
Dissolved Sulfate (mg/L)
2000
1800
1600
1400
1200
1000
800
600
400
200
0
08/2013
12/2014
05/2016
09/2017
02/2019
06/2020
10/2021
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
System Shutdown
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
Methane %
06/2014
10/2015
02/2017
07/2018
11/2019
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 Startup
Trial System Shutdown
System Restart
System Shutdown
Methane %
35.0
30.0
25.0
20.0
15.0
10.0
5.0
0.0
06/2014
10/2015
02/2017
07/2018
11/2019
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
TW-06
TW-07


Dissolved Methane vs Time - Shallow Zone
System Startup
Trial System Shutdown
System Restart
System Shutdown
14,000
12,000
10,000
8,000
6,000
4,000
2,000
0
Methane (ug/L)
06/2014
10/2015
02/2017
07/2018
11/2019
Date
MW-01S
MW/RW-10S
MW-51S
MW/RW-72S


Dissolved Methane vs Time - Deep Zone
System Startup
Trial System Shutdown
System Restart
System Shutdown
14,000
12,000
10,000
8,000
6,000
4,000
2,000
0
Dissolved Methane (µg/L)
08/2013
12/2014
05/2016
09/2017
02/2019
06/2020
10/2021
Date
MW/RW-14
MW-27
MW/RW-72
MW-106
MW-121
MW-122
TW-03
TW-05
TW-06
TW-07
MW/RW-51

Attachment C – Laboratory Analytical Reports and Chains of Custody Documentation - May 11-14, 2020 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: May 22, 2020 13:58

Project: NRG PRGS

Account #: 08390
Group Number: 2099243
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	05/11/2020 10:55	1313340
RW-05S Grab Groundwater	05/11/2020 12:12	1313341
MW-121 Grab Groundwater	05/11/2020 13:52	1313342

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

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/12/2020 16:17
Collection Date/Time: 05/11/2020 10:55

GES, Inc.
ELLE Sample #: RW 1313340
ELLE Group #: 2099243
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acetone	67-64-1	1 J	0.8	1
10335	Benzene	71-43-2	7	0.2	1
10335	Bromodichloromethane	75-27-4	N.D.	0.2	1
10335	Bromoform	75-25-2	N.D.	2	1
10335	Bromomethane	74-83-9	N.D.	0.5	1
10335	2-Butanone	78-93-3	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	0.3	1
10335	Carbon Tetrachloride	56-23-5	N.D.	0.2	1
10335	Chlorobenzene	108-90-7	N.D.	0.2	1
10335	Chloroethane	75-00-3	N.D.	0.3	1
10335	Chloroform	67-66-3	N.D.	0.2	1
10335	Chloromethane	74-87-3	N.D.	0.3	1
10335	Cyclohexane	110-82-7	N.D.	2	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	0.4	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.3	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.	0.2	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.	0.2	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.	0.2	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	0.3	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.2	1
10335	1,2-Dichloroethane	107-06-2	N.D.	2	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.2	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.2	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.2	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.2	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.2	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.4	1
10335	Ethylbenzene	100-41-4	N.D.	0.2	1
10335	Freon 113	76-13-1	N.D.	2	1
10335	2-Hexanone	591-78-6	N.D.	3	1
10335	Isopropylbenzene	98-82-8	0.4 J	0.3	1
10335	Methyl Acetate	79-20-9	N.D.	0.6	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.2	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	0.5	1
10335	Methylcyclohexane	108-87-2	N.D.	0.2	1
10335	Methylene Chloride	75-09-2	N.D.	0.2	1
10335	Styrene	100-42-5	N.D.	0.2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.2	1
10335	Tetrachloroethene	127-18-4	N.D.	0.2	1
10335	Toluene	108-88-3	0.3 J	0.2	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.4	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.2	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.2	1
10335	Trichloroethene	79-01-6	N.D.	0.2	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.4	1
10335	Vinyl Chloride	75-01-4	N.D.	0.4	1
10335	Xylene (Total)	1330-20-7	N.D.	0.5	1

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/12/2020 16:17
Collection Date/Time: 05/11/2020 10:55

GES, Inc.
ELLE Sample #: RW 1313340
ELLE Group #: 2099243
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.	10,000	53	1
Metals	**SW-846 6010C**		**mg/l**	**mg/l**	
07044	Antimony	7440-36-0	N.D.	0.0160	1
07035	Arsenic	7440-38-2	N.D.	0.0160	1
07046	Barium	7440-39-3	0.139	0.0010	1
07047	Beryllium	7440-41-7	N.D.	0.0010	1
07049	Cadmium	7440-43-9	N.D.	0.0010	1
07051	Chromium	7440-47-3	0.0028 J	0.0016	1
07052	Cobalt	7440-48-4	N.D.	0.0015	1
07053	Copper	7440-50-8	N.D.	0.0120	1
07055	Lead	7439-92-1	N.D.	0.0071	1
07060	Molybdenum	7439-98-7	N.D.	0.0020	1
07061	Nickel	7440-02-0	0.0026 J	0.0021	1
07036	Selenium	7782-49-2	N.D.	0.0160	1
07066	Silver	7440-22-4	N.D.	0.0050	1
07022	Thallium	7440-28-0	N.D.	0.0081	1
07071	Vanadium	7440-62-2	0.0046 J	0.0019	1
07072	Zinc	7440-66-6	N.D.	0.0037	1
	SW-846 7470A		**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000050	1

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	TCL 4.3 VOCs	SW-846 8260B	1	4201411AA	05/20/2020 12:28	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	4201411AA	05/20/2020 12:27	Linda C Pape	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	201360002A	05/16/2020 05:52	Timothy M Emrick	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	201360002A	05/15/2020 12:15	Shawn J McMullen	1
07044	Antimony	SW-846 6010C	1	201341404401	05/14/2020 19:13	Cindy M Gehman	1
07035	Arsenic	SW-846 6010C	1	201341404401	05/14/2020 19:13	Cindy M Gehman	1
07046	Barium	SW-846 6010C	1	201341404401	05/14/2020 19:13	Cindy M Gehman	1
07047	Beryllium	SW-846 6010C	1	201341404401	05/14/2020 19:13	Cindy M Gehman	1
07049	Cadmium	SW-846 6010C	1	201341404401	05/14/2020 19:13	Cindy M Gehman	1
07051	Chromium	SW-846 6010C	1	201341404401	05/14/2020 19:13	Cindy M Gehman	1
07052	Cobalt	SW-846 6010C	1	201341404401	05/14/2020 19:13	Cindy M Gehman	1
07053	Copper	SW-846 6010C	1	201341404401	05/14/2020 19:13	Cindy M Gehman	1
07055	Lead	SW-846 6010C	1	201341404401	05/18/2020 08:37	Lisa J Cooke	1
07060	Molybdenum	SW-846 6010C	1	201341404401	05/14/2020 19:13	Cindy M Gehman	1
07061	Nickel	SW-846 6010C	1	201341404401	05/14/2020 19:13	Cindy M Gehman	1
07036	Selenium	SW-846 6010C	1	201341404401	05/18/2020 08:37	Lisa J Cooke	1
07066	Silver	SW-846 6010C	1	201341404401	05/14/2020 19:13	Cindy M Gehman	1
07022	Thallium	SW-846 6010C	1	201341404401	05/14/2020 19:13	Cindy M Gehman	1
07071	Vanadium	SW-846 6010C	1	201341404401	05/14/2020 19:13	Cindy M Gehman	1
07072	Zinc	SW-846 6010C	1	201341404401	05/14/2020 19:13	Cindy M Gehman	1

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/12/2020 16:17
Collection Date/Time: 05/11/2020 10:55

GES, Inc.
ELLE Sample #: RW 1313340
ELLE Group #: 2099243
Matrix: Groundwater

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00259	Mercury	SW-846 7470A	1	201340571304	05/19/2020 09:42	Damary Valentin	1
14044	ICP-WW, 3005A (tot rec) - U345	SW-846 3005A	1	201341404401	05/14/2020 03:13	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	201340571304	05/14/2020 15:45	JoElla L Rice	1

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/12/2020 16:17
Collection Date/Time: 05/11/2020 12:12

GES, Inc.
ELLE Sample #: RW 1313341
ELLE Group #: 2099243
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acetone	67-64-1	2 J	0.8	1
10335	Benzene	71-43-2	3	0.2	1
10335	Bromodichloromethane	75-27-4	N.D.	0.2	1
10335	Bromoform	75-25-2	N.D.	2	1
10335	Bromomethane	74-83-9	N.D.	0.5	1
10335	2-Butanone	78-93-3	1 J	1	1
10335	Carbon Disulfide	75-15-0	N.D.	0.3	1
10335	Carbon Tetrachloride	56-23-5	N.D.	0.2	1
10335	Chlorobenzene	108-90-7	N.D.	0.2	1
10335	Chloroethane	75-00-3	N.D.	0.3	1
10335	Chloroform	67-66-3	N.D.	0.2	1
10335	Chloromethane	74-87-3	N.D.	0.3	1
10335	Cyclohexane	110-82-7	N.D.	2	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	0.4	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.3	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.	0.2	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.	0.2	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.	0.2	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	0.3	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.2	1
10335	1,2-Dichloroethane	107-06-2	N.D.	2	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.2	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.2	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.2	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.2	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.2	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.4	1
10335	Ethylbenzene	100-41-4	2	0.2	1
10335	Freon 113	76-13-1	N.D.	2	1
10335	2-Hexanone	591-78-6	N.D.	3	1
10335	Isopropylbenzene	98-82-8	0.8 J	0.3	1
10335	Methyl Acetate	79-20-9	N.D.	0.6	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.2	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	0.5	1
10335	Methylcyclohexane	108-87-2	N.D.	0.2	1
10335	Methylene Chloride	75-09-2	N.D.	0.2	1
10335	Styrene	100-42-5	N.D.	0.2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.2	1
10335	Tetrachloroethene	127-18-4	N.D.	0.2	1
10335	Toluene	108-88-3	0.2 J	0.2	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.4	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.2	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.2	1
10335	Trichloroethene	79-01-6	N.D.	0.2	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.4	1
10335	Vinyl Chloride	75-01-4	N.D.	0.4	1
10335	Xylene (Total)	1330-20-7	2 J	0.5	1

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/12/2020 16:17
Collection Date/Time: 05/11/2020 12:12

GES, Inc.
ELLE Sample #: RW 1313341
ELLE Group #: 2099243
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.	8,900	53	1
Metals	**SW-846 6010C**		**mg/l**	**mg/l**	
07044	Antimony	7440-36-0	N.D.	0.0160	1
07035	Arsenic	7440-38-2	N.D.	0.0160	1
07046	Barium	7440-39-3	0.100	0.0010	1
07047	Beryllium	7440-41-7	N.D.	0.0010	1
07049	Cadmium	7440-43-9	N.D.	0.0010	1
07051	Chromium	7440-47-3	0.0022 J	0.0016	1
07052	Cobalt	7440-48-4	0.0057	0.0015	1
07053	Copper	7440-50-8	N.D.	0.0120	1
07055	Lead	7439-92-1	N.D.	0.0071	1
07060	Molybdenum	7439-98-7	N.D.	0.0020	1
07061	Nickel	7440-02-0	0.0235	0.0021	1
07036	Selenium	7782-49-2	N.D.	0.0160	1
07066	Silver	7440-22-4	N.D.	0.0050	1
07022	Thallium	7440-28-0	N.D.	0.0081	1
07071	Vanadium	7440-62-2	0.0145	0.0019	1
07072	Zinc	7440-66-6	0.0118 J	0.0037	1
	SW-846 7470A		**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000050	1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	
00228	Sulfate	14808-79-8	104	15.0	50
	SM 2320 B-2011		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5	n.a.	113	2.6	1

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	TCL 4.3 VOCs	SW-846 8260B	1	4201411AA	05/20/2020 12:50	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	4201411AA	05/20/2020 12:49	Linda C Pape	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	201360002A	05/16/2020 06:15	Timothy M Emrick	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	201360002A	05/15/2020 12:15	Shawn J McMullen	1
07044	Antimony	SW-846 6010C	1	201341404401	05/14/2020 19:17	Cindy M Gehman	1
07035	Arsenic	SW-846 6010C	1	201341404401	05/14/2020 19:17	Cindy M Gehman	1
07046	Barium	SW-846 6010C	1	201341404401	05/14/2020 19:17	Cindy M Gehman	1
07047	Beryllium	SW-846 6010C	1	201341404401	05/14/2020 19:17	Cindy M Gehman	1
07049	Cadmium	SW-846 6010C	1	201341404401	05/14/2020 19:17	Cindy M Gehman	1
07051	Chromium	SW-846 6010C	1	201341404401	05/14/2020 19:17	Cindy M Gehman	1
07052	Cobalt	SW-846 6010C	1	201341404401	05/14/2020 19:17	Cindy M Gehman	1
07053	Copper	SW-846 6010C	1	201341404401	05/14/2020 19:17	Cindy M Gehman	1
07055	Lead	SW-846 6010C	1	201341404401	05/18/2020 08:47	Lisa J Cooke	1
07060	Molybdenum	SW-846 6010C	1	201341404401	05/14/2020 19:17	Cindy M Gehman	1

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/12/2020 16:17
Collection Date/Time: 05/11/2020 12:12

GES, Inc.
ELLE Sample #: RW 1313341
ELLE Group #: 2099243
Matrix: Groundwater

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07061	Nickel	SW-846 6010C	1	201341404401	05/14/2020 19:17	Cindy M Gehman	1
07036	Selenium	SW-846 6010C	1	201341404401	05/18/2020 08:47	Lisa J Cooke	1
07066	Silver	SW-846 6010C	1	201341404401	05/14/2020 19:17	Cindy M Gehman	1
07022	Thallium	SW-846 6010C	1	201341404401	05/14/2020 19:17	Cindy M Gehman	1
07071	Vanadium	SW-846 6010C	1	201341404401	05/14/2020 19:17	Cindy M Gehman	1
07072	Zinc	SW-846 6010C	1	201341404401	05/14/2020 19:17	Cindy M Gehman	1
00259	Mercury	SW-846 7470A	1	201340571304	05/19/2020 09:44	Damary Valentin	1
14044	ICP-WW, 3005A (tot rec) - U345	SW-846 3005A	1	201341404401	05/14/2020 03:13	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	201340571304	05/14/2020 15:45	JoElla L Rice	1
00228	Sulfate	EPA 300.0	1	20135076109A	05/14/2020 22:03	Niyati Desai	50
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	20134002102A	05/13/2020 22:16	Jeremy L Bolf	1

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/12/2020 16:17
Collection Date/Time: 05/11/2020 13:52

GES, Inc.
ELLE Sample #: RW 1313342
ELLE Group #: 2099243
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acetone	67-64-1	2 J	0.8	1
10335	Benzene	71-43-2	N.D.	0.2	1
10335	Bromodichloromethane	75-27-4	N.D.	0.2	1
10335	Bromoform	75-25-2	N.D.	2	1
10335	Bromomethane	74-83-9	N.D.	0.5	1
10335	2-Butanone	78-93-3	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	0.3	1
10335	Carbon Tetrachloride	56-23-5	N.D.	0.2	1
10335	Chlorobenzene	108-90-7	N.D.	0.2	1
10335	Chloroethane	75-00-3	N.D.	0.3	1
10335	Chloroform	67-66-3	N.D.	0.2	1
10335	Chloromethane	74-87-3	N.D.	0.3	1
10335	Cyclohexane	110-82-7	N.D.	2	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	0.4	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.3	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.	0.2	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.	0.2	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.	0.2	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	0.3	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.2	1
10335	1,2-Dichloroethane	107-06-2	N.D.	2	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.2	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.2	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.2	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.2	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.2	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.4	1
10335	Ethylbenzene	100-41-4	N.D.	0.2	1
10335	Freon 113	76-13-1	N.D.	2	1
10335	2-Hexanone	591-78-6	N.D.	3	1
10335	Isopropylbenzene	98-82-8	N.D.	0.3	1
10335	Methyl Acetate	79-20-9	N.D.	0.6	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.2	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	0.5	1
10335	Methylcyclohexane	108-87-2	N.D.	0.2	1
10335	Methylene Chloride	75-09-2	N.D.	0.2	1
10335	Styrene	100-42-5	N.D.	0.2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.2	1
10335	Tetrachloroethene	127-18-4	N.D.	0.2	1
10335	Toluene	108-88-3	0.6 J	0.2	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.4	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.2	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.2	1
10335	Trichloroethene	79-01-6	N.D.	0.2	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.4	1
10335	Vinyl Chloride	75-01-4	N.D.	0.4	1
10335	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Miscellaneous	**RSKSOP-175 modified**		**ug/l**	**ug/l**	

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/12/2020 16:17
Collection Date/Time: 05/11/2020 13:52

GES, Inc.
ELLE Sample #: RW 1313342
ELLE Group #: 2099243
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Miscellaneous	**RSKSOP-175 modified**		**ug/l**	**ug/l**	
07105	Methane	74-82-8	290	3.0	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	17,000	53	1
Metals	**SW-846 6010C**		**mg/l**	**mg/l**	
07044	Antimony	7440-36-0	N.D.	0.0160	1
07035	Arsenic	7440-38-2	N.D.	0.0160	1
07046	Barium	7440-39-3	0.280	0.0010	1
07047	Beryllium	7440-41-7	N.D.	0.0010	1
07049	Cadmium	7440-43-9	0.0011 J	0.0010	1
07051	Chromium	7440-47-3	0.0039 J	0.0016	1
07052	Cobalt	7440-48-4	0.0053	0.0015	1
07053	Copper	7440-50-8	N.D.	0.0120	1
07055	Lead	7439-92-1	0.0177	0.0071	1
07058	Manganese	7439-96-5	7.94	0.0030	1
07060	Molybdenum	7439-98-7	N.D.	0.0020	1
07061	Nickel	7440-02-0	0.0521	0.0021	1
07036	Selenium	7782-49-2	N.D.	0.0160	1
07066	Silver	7440-22-4	N.D.	0.0050	1
07022	Thallium	7440-28-0	N.D. K2	0.0081	1
07071	Vanadium	7440-62-2	0.0090 J	0.0019	1
07072	Zinc	7440-66-6	0.112	0.0037	1
	SW-846 7470A		**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000050	1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	
00228	Sulfate	14808-79-8	251	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[1]	n.a.	134	1.50	100
	SM 2320 B-2011		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5	n.a.	372	2.6	1

Sample Comments

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

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/12/2020 16:17
Collection Date/Time: 05/11/2020 13:52

GES, Inc.
ELLE Sample #: RW 1313342
ELLE Group #: 2099243
Matrix: Groundwater

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	TCL 4.3 VOCs	SW-846 8260B	1	4201411AA	05/20/2020 13:13	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	4201411AA	05/20/2020 13:12	Linda C Pape	1
07105	Methane	RSKSOP-175 modified	1	201340004A	05/15/2020 01:39	Esther Kathryn Lane	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	201360002A	05/16/2020 06:39	Timothy M Emrick	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	201360002A	05/15/2020 12:15	Shawn J McMullen	1
07044	Antimony	SW-846 6010C	1	201341404401	05/14/2020 19:39	Cindy M Gehman	1
07035	Arsenic	SW-846 6010C	1	201341404401	05/14/2020 19:39	Cindy M Gehman	1
07046	Barium	SW-846 6010C	1	201341404401	05/14/2020 19:39	Cindy M Gehman	1
07047	Beryllium	SW-846 6010C	1	201341404401	05/14/2020 19:39	Cindy M Gehman	1
07049	Cadmium	SW-846 6010C	1	201341404401	05/14/2020 19:39	Cindy M Gehman	1
07051	Chromium	SW-846 6010C	1	201341404401	05/14/2020 19:39	Cindy M Gehman	1
07052	Cobalt	SW-846 6010C	1	201341404401	05/14/2020 19:39	Cindy M Gehman	1
07053	Copper	SW-846 6010C	1	201341404401	05/14/2020 19:39	Cindy M Gehman	1
07055	Lead	SW-846 6010C	1	201341404401	05/18/2020 08:54	Lisa J Cooke	1
07058	Manganese	SW-846 6010C	1	201341404401	05/14/2020 19:39	Cindy M Gehman	1
07060	Molybdenum	SW-846 6010C	1	201341404401	05/14/2020 19:39	Cindy M Gehman	1
07061	Nickel	SW-846 6010C	1	201341404401	05/14/2020 19:39	Cindy M Gehman	1
07036	Selenium	SW-846 6010C	1	201341404401	05/18/2020 08:54	Lisa J Cooke	1
07066	Silver	SW-846 6010C	1	201341404401	05/14/2020 19:39	Cindy M Gehman	1
07022	Thallium	SW-846 6010C	1	201341404401	05/14/2020 19:39	Cindy M Gehman	1
07071	Vanadium	SW-846 6010C	1	201341404401	05/14/2020 19:39	Cindy M Gehman	1
07072	Zinc	SW-846 6010C	1	201341404401	05/14/2020 19:39	Cindy M Gehman	1
00259	Mercury	SW-846 7470A	1	201340571304	05/19/2020 10:11	Damary Valentin	1
14044	ICP-WW, 3005A (tot rec) - U345	SW-846 3005A	1	201341404401	05/14/2020 03:13	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	201340571304	05/14/2020 15:45	JoElla L Rice	1
00228	Sulfate	EPA 300.0	1	20135076109B	05/18/2020 16:37	Kevin Litwa	50
00220	Nitrate Nitrogen	EPA 353.2	1	20137106101A	05/16/2020 08:06	Ashlynn M Cornelius	1
00219	Nitrite Nitrogen	EPA 353.2	1	20134105101A	05/13/2020 09:31	Ashlynn M Cornelius	1
14855	Ferrous Iron	SM 3500-Fe B-2011	1	20134127101A	05/13/2020 12:12	Jonathan Saul	100
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	20134002102A	05/13/2020 22:23	Jeremy L Bolf	1

Quality Control Summary

Client Name: GES, Inc. Group Number: 2099243
Reported: 05/22/2020 13:58

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: 4201411AA	Sample number(s): 1313340-1313342	
Acetone	N.D.	0.8
Benzene	N.D.	0.2
Bromodichloromethane	N.D.	0.2
Bromoform	N.D.	2
Bromomethane	N.D.	0.5
2-Butanone	N.D.	1
Carbon Disulfide	N.D.	0.3
Carbon Tetrachloride	N.D.	0.2
Chlorobenzene	N.D.	0.2
Chloroethane	N.D.	0.3
Chloroform	N.D.	0.2
Chloromethane	N.D.	0.3
Cyclohexane	N.D.	2
1,2-Dibromo-3-chloropropane	N.D.	1
Dibromochloromethane	N.D.	0.4
1,2-Dibromoethane	N.D.	0.3
1,2-Dichlorobenzene	N.D.	0.2
1,3-Dichlorobenzene	N.D.	0.2
1,4-Dichlorobenzene	N.D.	0.2
Dichlorodifluoromethane	N.D.	0.3
1,1-Dichloroethane	N.D.	0.2
1,2-Dichloroethane	N.D.	2
1,1-Dichloroethene	N.D.	0.2
cis-1,2-Dichloroethene	N.D.	0.2
trans-1,2-Dichloroethene	N.D.	0.2
1,2-Dichloropropane	N.D.	0.2
cis-1,3-Dichloropropene	N.D.	0.2
trans-1,3-Dichloropropene	N.D.	0.4
Ethylbenzene	N.D.	0.2
Freon 113	N.D.	2
2-Hexanone	N.D.	3
Isopropylbenzene	N.D.	0.3
Methyl Acetate	N.D.	0.6
Methyl Tertiary Butyl Ether	N.D.	0.2
4-Methyl-2-pentanone	N.D.	0.5
Methylcyclohexane	N.D.	0.2
Methylene Chloride	N.D.	0.2
Styrene	N.D.	0.2
1,1,2,2-Tetrachloroethane	N.D.	0.2

*- 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: 05/22/2020 13:58

Group Number: 2099243

Method Blank (continued)

Analysis Name	Result	MDL
	ug/l	ug/l
Tetrachloroethene	N.D.	0.2
Toluene	N.D.	0.2
1,2,4-Trichlorobenzene	N.D.	0.4
1,1,1-Trichloroethane	N.D.	0.2
1,1,2-Trichloroethane	N.D.	0.2
Trichloroethene	N.D.	0.2
Trichlorofluoromethane	N.D.	0.4
Vinyl Chloride	N.D.	0.4
Xylene (Total)	N.D.	0.5
Batch number: 201340004A	Sample number(s): 1313342	
Methane	N.D.	3.0
Batch number: 201360002A	Sample number(s): 1313340-1313342	
DRO C10-C28	N.D.	53
	mg/l	mg/l
Batch number: 201340571304	Sample number(s): 1313340-1313342	
Mercury	N.D.	0.000050
Batch number: 201341404401	Sample number(s): 1313340-1313342	
Antimony	N.D.	0.0160
Arsenic	N.D.	0.0160
Barium	N.D.	0.0010
Beryllium	N.D.	0.0010
Cadmium	N.D.	0.0010
Chromium	N.D.	0.0016
Cobalt	N.D.	0.0015
Copper	N.D.	0.0120
Lead	N.D.	0.0071
Manganese	N.D.	0.0030
Molybdenum	N.D.	0.0020
Nickel	N.D.	0.0021
Selenium	N.D.	0.0160
Silver	N.D.	0.0050
Thallium	N.D.	0.0081
Vanadium	N.D.	0.0019
Zinc	N.D.	0.0037
Batch number: 20134105101A	Sample number(s): 1313342	
Nitrite Nitrogen	N.D.	0.015
Batch number: 20134127101A	Sample number(s): 1313342	
Ferrous Iron	N.D.	0.0150
Batch number: 20135076109A	Sample number(s): 1313341	
Sulfate	N.D.	0.30
Batch number: 20135076109B	Sample number(s): 1313342	

*- 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: 05/22/2020 13:58

Group Number: 2099243

Method Blank (continued)

Analysis Name	Result	MDL
	mg/l	mg/l
Sulfate	N.D.	0.30
Batch number: 20137106101A	Sample number(s): 1313342	
Nitrate Nitrogen	N.D.	0.040
	mg/l as CaCO3	mg/l as CaCO3
Batch number: 20134002102A	Sample number(s): 1313341-1313342	
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: 4201411AA	Sample number(s): 1313340-1313342								
Acetone	150	125.79	150	121.67	84	81	54-157	3	30
Benzene	20	22.34	20	21.89	112	109	80-120	2	30
Bromodichloromethane	20	21.65	20	21.45	108	107	71-120	1	30
Bromoform	20	19.67	20	19.06	98	95	51-120	3	30
Bromomethane	20	14.28	20	14.41	71	72	53-128	1	30
2-Butanone	150	121.27	150	127.18	81	85	59-135	5	30
Carbon Disulfide	20	20.7	20	20.73	103	104	65-128	0	30
Carbon Tetrachloride	20	22.02	20	21.8	110	109	64-134	1	30
Chlorobenzene	20	21.6	20	20.79	108	104	80-120	4	30
Chloroethane	20	15.92	20	15.97	80	80	55-123	0	30
Chloroform	20	22.23	20	21.89	111	109	80-120	2	30
Chloromethane	20	20.3	20	20.32	101	102	56-121	0	30
Cyclohexane	20	22.47	20	22.28	112	111	68-126	1	30
1,2-Dibromo-3-chloropropane	20	19.72	20	19.32	99	97	47-131	2	30
Dibromochloromethane	20	20.55	20	19.88	103	99	71-120	3	30
1,2-Dibromoethane	20	20.74	20	20.25	104	101	77-120	2	30
1,2-Dichlorobenzene	20	20.48	20	19.98	102	100	80-120	2	30
1,3-Dichlorobenzene	20	20.44	20	20.15	102	101	80-120	1	30
1,4-Dichlorobenzene	20	20.83	20	20.03	104	100	80-120	4	30
Dichlorodifluoromethane	20	18.44	20	18.58	92	93	41-127	1	30
1,1-Dichloroethane	20	22.19	20	21.82	111	109	80-120	2	30
1,2-Dichloroethane	20	21.14	20	20.77	106	104	73-124	2	30
1,1-Dichloroethene	20	22.68	20	22.52	113	113	80-131	1	30
cis-1,2-Dichloroethene	20	23.08	20	22.63	115	113	80-125	2	30
trans-1,2-Dichloroethene	20	22.11	20	21.74	111	109	80-126	2	30
1,2-Dichloropropane	20	21.98	20	21.81	110	109	80-120	1	30
cis-1,3-Dichloropropene	20	21.94	20	21.65	110	108	75-120	1	30

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: GES, Inc. Group Number: 2099243
Reported: 05/22/2020 13:58

LCS/LCSD (continued)

Analysis Name	LCS Spike Added	LCS Conc	LCSD Spike Added	LCSD Conc	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
	ug/l	ug/l	ug/l	ug/l					
trans-1,3-Dichloropropene	20	19.61	20	19.3	98	96	67-120	2	30
Ethylbenzene	20	21.25	20	20.71	106	104	80-120	3	30
Freon 113	20	21.15	20	20.99	106	105	73-139	1	30
2-Hexanone	100	86.87	100	89.65	87	90	56-135	3	30
Isopropylbenzene	20	21.46	20	20.89	107	104	80-120	3	30
Methyl Acetate	20	19.57	20	19.13	98	96	54-136	2	30
Methyl Tertiary Butyl Ether	20	19.53	20	19.5	98	98	69-122	0	30
4-Methyl-2-pentanone	100	100.84	100	100.63	101	101	62-133	0	30
Methylcyclohexane	20	20.9	20	21.07	104	105	67-121	1	30
Methylene Chloride	20	22.49	20	22.29	112	111	80-120	1	30
Styrene	20	20.81	20	20.09	104	100	80-120	4	30
1,1,2,2-Tetrachloroethane	20	19.99	20	19.53	100	98	72-120	2	30
Tetrachloroethene	20	23.23	20	21.43	116	107	80-120	8	30
Toluene	20	21.15	20	20.6	106	103	80-120	3	30
1,2,4-Trichlorobenzene	20	18.62	20	18.45	93	92	63-120	1	30
1,1,1-Trichloroethane	20	21.72	20	21.72	109	109	67-126	0	30
1,1,2-Trichloroethane	20	21.26	20	20.87	106	104	80-120	2	30
Trichloroethene	20	22.85	20	22.06	114	110	80-120	4	30
Trichlorofluoromethane	20	21.1	20	20.34	105	102	55-135	4	30
Vinyl Chloride	20	20.55	20	20.41	103	102	56-120	1	30
Xylene (Total)	60	63.77	60	62.22	106	104	80-120	2	30
	ug/l	ug/l	ug/l	ug/l					
Batch number: 201340004A	Sample number(s): 1313342								
Methane	59.42	64.13			108		85-115		
	ug/l	ug/l	ug/l	ug/l					
Batch number: 201360002A	Sample number(s): 1313340-1313342								
DRO C10-C28	2857.87	1734.78	2857.87	1796.2	61	63	47-116	3	20
	mg/l	mg/l	mg/l	mg/l					
Batch number: 201340571304	Sample number(s): 1313340-1313342								
Mercury	0.00100	0.000874			87		80-110		
Batch number: 201341404401	Sample number(s): 1313340-1313342								
Antimony	0.100	0.108			108		80-120		
Arsenic	0.0600	0.0616			103		80-120		
Barium	0.0100	0.0105			105		80-120		
Beryllium	0.0100	0.00983			98		80-120		
Cadmium	0.0100	0.0101			101		80-120		
Chromium	0.0300	0.0312			104		80-120		
Cobalt	0.0100	0.0108			108		80-120		
Copper	0.0400	0.0423			106		80-120		
Lead	0.0300	0.0330			110		80-120		

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: GES, Inc. Group Number: 2099243
Reported: 05/22/2020 13:58

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
Manganese	0.0200	0.0212			106		80-120		
Molybdenum	0.0200	0.0201			101		80-120		
Nickel	2.02	2.13			105		80-120		
Selenium	0.100	0.104			104		80-120		
Silver	0.0200	0.0199			100		80-120		
Thallium	0.0600	0.0667			111		80-120		
Vanadium	0.0200	0.0208			104		80-120		
Zinc	0.440	0.436			99		80-120		
	mg/l	**mg/l**	**mg/l**	**mg/l**					
Batch number: 20134105101A	Sample number(s): 1313342								
Nitrite Nitrogen	0.700	0.763			109		90-110		
Batch number: 20134127101A	Sample number(s): 1313342								
Ferrous Iron	1.00	1.04			104		90-110		
Batch number: 20135076109A	Sample number(s): 1313341								
Sulfate	7.50	7.83			104		90-110		
Batch number: 20135076109B	Sample number(s): 1313342								
Sulfate	7.50	7.83			104		90-110		
Batch number: 20137106101A	Sample number(s): 1313342								
Nitrate Nitrogen	2.50	2.56			102		90-110		
	mg/l as CaCO3	**mg/l as CaCO3**	**mg/l as CaCO3**	**mg/l as CaCO3**					
Batch number: 20134002102A	Sample number(s): 1313341-1313342								
Total Alkalinity to pH 4.5	188	164.52			88		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: TCL 4.3 VOCs
Batch number: 4201411AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
1313340	104	103	97	99
1313341	104	102	97	100
1313342	104	104	96	100
Blank	102	100	97	98
LCS	102	102	98	101

*- 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. Group Number: 2099243
Reported: 05/22/2020 13:58

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: TCL 4.3 VOCs
Batch number: 4201411AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
LCSD	103	105	97	101
Limits:	80-120	80-120	80-120	80-120

Analysis Name: Methane
Batch number: 201340004A

	Propene
1313342	77
Blank	104
LCS	105
Limits:	28-140

Analysis Name: DRO micro-ext 8015B
Batch number: 201360002A

	Orthoterphenyl
1313340	105
1313341	114
1313342	71
Blank	87
LCS	84
LCSD	82
Limits:	52-132

*- 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 # 2099243 Sample # 1313340-42

Client: Groundwater & Env. Services, Inc.

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

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

Sampler: Kirk Marks | PWSID #:

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

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

Sample Identification	Collection Date	Collection Time	Grab	Composite	Matrix: Soil	Sediment	Water: Potable	Ground	NPDES	Surface	Other:	Total # of Containers	Analyses Requested / Preservation Codes: TPH-DRO C-10-28 (SW-846 8015B) H	Alkalinity (SM 2320B) -	Nitrate NO3 -1 & Nitrite NO2(EPA 353.2) -/S	Manganese (6010) N	Ferrous Iron Fe2+ (SM 3500-Fe B modified-1997) H	Sulfate SO4 2- (EPA 300.0) -	Methane (RSKSOP-175 modified) H	Full VOCs (8260) H	T-HG & 22 Metals (6010) + Hg 1720
MW-08S	5-11-20	10:55	X				X					6	X							X	X
RW-05S	↓	12:12	X				X					9	X	X				X		X	X
MW-12I	↓	13:52	X				X					14	X	X	X	X	X	X	X	X	X

For Lab Use Only

SF #:

SCR #:

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

Remarks

Turnaround Time Requested (TAT) (please check): Standard ☑ Rush ☐

(Rush TAT is subject to laboratory approval and surcharges.)

Date results are needed:

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

E-mail Address: midatlantic@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
	5-11-2020	16:30	Denise Wooding	5-12-20	0900
Denise Wooding	5-12-20	1015		5/12/20	10:[illegible]
				5/12/20	1617

Relinquished by Commercial Carrier:

UPS _____ FedEx _____ Other _____

Temperature upon receipt 0.5 °C

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7045 0614

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Sample Administration Receipt Documentation Log

Doc Log ID: 284275

Group Number(s): 2099243

Client: GES, Inc

Delivery and Receipt Information

Delivery Method:	ELLE Courier	Arrival Date:	05/12/2020
Number of Packages:	1	Number of Projects:	3
State/Province of Origin:	VA		

Arrival Condition Summary

Shipping Container Sealed:	No	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	No	Sample Date/Times match COC:	Yes
Samples Chilled:	Yes	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

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	DT42-01	0.5	DT	Wet	Y	Loose	N

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Lancaster, PA 17605-2425
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Explanation of Symbols and Abbreviations

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

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

<	less than
>	greater than
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.
ppb	parts per billion
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

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

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

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

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

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Data Qualifiers

Qualifier	Definition
C	Result confirmed by reanalysis
D1	Indicates for dual column analyses that the result is reported from column 1
D2	Indicates for dual column analyses that the result is reported from column 2
E	Concentration exceeds the calibration range
K1	Initial Calibration Blank is above the QC limit and the sample result is less than the LOQ
K2	Continuing Calibration Blank is above the QC limit and the sample result is less than the LOQ
K3	Initial Calibration Verification is above the QC limit and the sample result is less than the LOQ
K4	Continuing Calibration Verification is above the QC limit and the sample result is less than the LOQ
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: May 22, 2020 13:59

Project: NRG PRGS

Account #: 08390
Group Number: 2099244
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-01S Grab Groundwater	05/11/2020 12:03	1313343
MW/RW-25 Grab Groundwater	05/11/2020 14:20	1313344
TW-14 Grab Groundwater	05/11/2020 10:30	1313345
TW-05 Grab Groundwater	05/11/2020 12:55	1313346

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

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/12/2020 16:17
Collection Date/Time: 05/11/2020 12:03

GES, Inc.
ELLE Sample #: RW 1313343
ELLE Group #: 2099244
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acetone	67-64-1	N.D.	0.8	1
10335	Benzene	71-43-2	N.D.	0.2	1
10335	Bromodichloromethane	75-27-4	N.D.	0.2	1
10335	Bromoform	75-25-2	N.D.	2	1
10335	Bromomethane	74-83-9	N.D.	0.5	1
10335	2-Butanone	78-93-3	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	0.3	1
10335	Carbon Tetrachloride	56-23-5	N.D.	0.2	1
10335	Chlorobenzene	108-90-7	N.D.	0.2	1
10335	Chloroethane	75-00-3	N.D.	0.3	1
10335	Chloroform	67-66-3	N.D.	0.2	1
10335	Chloromethane	74-87-3	N.D.	0.3	1
10335	Cyclohexane	110-82-7	N.D.	2	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	0.4	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.3	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.	0.2	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.	0.2	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.	0.2	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	0.3	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.2	1
10335	1,2-Dichloroethane	107-06-2	N.D.	2	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.2	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.2	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.2	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.2	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.2	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.4	1
10335	Ethylbenzene	100-41-4	N.D.	0.2	1
10335	Freon 113	76-13-1	N.D.	2	1
10335	2-Hexanone	591-78-6	N.D.	3	1
10335	Isopropylbenzene	98-82-8	N.D.	0.3	1
10335	Methyl Acetate	79-20-9	N.D.	0.6	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.2	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	0.5	1
10335	Methylcyclohexane	108-87-2	N.D.	0.2	1
10335	Methylene Chloride	75-09-2	N.D.	0.2	1
10335	Styrene	100-42-5	N.D.	0.2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.2	1
10335	Tetrachloroethene	127-18-4	N.D.	0.2	1
10335	Toluene	108-88-3	N.D.	0.2	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.4	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.2	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.2	1
10335	Trichloroethene	79-01-6	N.D.	0.2	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.4	1
10335	Vinyl Chloride	75-01-4	N.D.	0.4	1
10335	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Miscellaneous	**RSKSOP-175 modified**		**ug/l**	**ug/l**	

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/12/2020 16:17
Collection Date/Time: 05/11/2020 12:03

GES, Inc.
ELLE Sample #: RW 1313343
ELLE Group #: 2099244
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Miscellaneous	**RSKSOP-175 modified**		**ug/l**	**ug/l**	
07105	Methane	74-82-8	440	3.0	1
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**	
07044	Antimony	7440-36-0	N.D.	0.0160	1
07035	Arsenic	7440-38-2	N.D.	0.0160	1
07046	Barium	7440-39-3	0.0924	0.0010	1
07047	Beryllium	7440-41-7	N.D.	0.0010	1
07049	Cadmium	7440-43-9	N.D.	0.0010	1
07051	Chromium	7440-47-3	0.0018 J	0.0016	1
07052	Cobalt	7440-48-4	0.0043 J	0.0015	1
07053	Copper	7440-50-8	N.D.	0.0120	1
07055	Lead	7439-92-1	N.D.	0.0071	1
07058	Manganese	7439-96-5	6.92	0.0030	1
07060	Molybdenum	7439-98-7	N.D.	0.0020	1
07061	Nickel	7440-02-0	0.0082 J	0.0021	1
07036	Selenium	7782-49-2	N.D.	0.0160	1
07066	Silver	7440-22-4	N.D.	0.0050	1
07022	Thallium	7440-28-0	N.D.	0.0081	1
07071	Vanadium	7440-62-2	N.D.	0.0019	1
07072	Zinc	7440-66-6	0.0254	0.0037	1
	SW-846 7470A		**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000050	1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	
00228	Sulfate	14808-79-8	187	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[1]	n.a.	46.6	0.750	50
	SM 2320 B-2011		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5	n.a.	211	2.6	1

Sample Comments

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

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/12/2020 16:17
Collection Date/Time: 05/11/2020 12:03

GES, Inc.
ELLE Sample #: RW 1313343
ELLE Group #: 2099244
Matrix: Groundwater

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	TCL 4.3 VOCs	SW-846 8260B	1	4201411AA	05/20/2020 13:35	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	4201411AA	05/20/2020 13:34	Linda C Pape	1
07105	Methane	RSKSOP-175 modified	1	201340004A	05/13/2020 15:04	Esther Kathryn Lane	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	201360002A	05/16/2020 07:03	Timothy M Emrick	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	201360002A	05/15/2020 12:15	Shawn J McMullen	1
07044	Antimony	SW-846 6010C	1	201341404401	05/14/2020 19:20	Cindy M Gehman	1
07035	Arsenic	SW-846 6010C	1	201341404401	05/14/2020 19:20	Cindy M Gehman	1
07046	Barium	SW-846 6010C	1	201341404401	05/14/2020 19:20	Cindy M Gehman	1
07047	Beryllium	SW-846 6010C	1	201341404401	05/14/2020 19:20	Cindy M Gehman	1
07049	Cadmium	SW-846 6010C	1	201341404401	05/14/2020 19:20	Cindy M Gehman	1
07051	Chromium	SW-846 6010C	1	201341404401	05/14/2020 19:20	Cindy M Gehman	1
07052	Cobalt	SW-846 6010C	1	201341404401	05/14/2020 19:20	Cindy M Gehman	1
07053	Copper	SW-846 6010C	1	201341404401	05/14/2020 19:20	Cindy M Gehman	1
07055	Lead	SW-846 6010C	1	201341404401	05/18/2020 08:50	Lisa J Cooke	1
07058	Manganese	SW-846 6010C	1	201341404401	05/14/2020 19:20	Cindy M Gehman	1
07060	Molybdenum	SW-846 6010C	1	201341404401	05/14/2020 19:20	Cindy M Gehman	1
07061	Nickel	SW-846 6010C	1	201341404401	05/14/2020 19:20	Cindy M Gehman	1
07036	Selenium	SW-846 6010C	1	201341404401	05/18/2020 08:50	Lisa J Cooke	1
07066	Silver	SW-846 6010C	1	201341404401	05/14/2020 19:20	Cindy M Gehman	1
07022	Thallium	SW-846 6010C	1	201341404401	05/14/2020 19:20	Cindy M Gehman	1
07071	Vanadium	SW-846 6010C	1	201341404401	05/14/2020 19:20	Cindy M Gehman	1
07072	Zinc	SW-846 6010C	1	201341404401	05/14/2020 19:20	Cindy M Gehman	1
00259	Mercury	SW-846 7470A	1	201340571304	05/19/2020 09:48	Damary Valentin	1
14044	ICP-WW, 3005A (tot rec) - U345	SW-846 3005A	1	201341404401	05/14/2020 03:13	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	201340571304	05/14/2020 15:45	JoElla L Rice	1
00228	Sulfate	EPA 300.0	1	20135076109B	05/18/2020 16:56	Kevin Litwa	50
00220	Nitrate Nitrogen	EPA 353.2	1	20137106101A	05/16/2020 08:07	Ashlynn M Cornelius	1
00219	Nitrite Nitrogen	EPA 353.2	1	20134105101A	05/13/2020 09:25	Ashlynn M Cornelius	1
14855	Ferrous Iron	SM 3500-Fe B-2011	1	20134127101A	05/13/2020 11:57	Jonathan Saul	50
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	20134002102A	05/13/2020 22:10	Jeremy L Bolf	1

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/12/2020 16:17
Collection Date/Time: 05/11/2020 14:20

GES, Inc.
ELLE Sample #: RW 1313344
ELLE Group #: 2099244
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acetone	67-64-1	3 J	0.8	1
10335	Benzene	71-43-2	N.D.	0.2	1
10335	Bromodichloromethane	75-27-4	N.D.	0.2	1
10335	Bromoform	75-25-2	N.D.	2	1
10335	Bromomethane	74-83-9	N.D.	0.5	1
10335	2-Butanone	78-93-3	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	0.3	1
10335	Carbon Tetrachloride	56-23-5	N.D.	0.2	1
10335	Chlorobenzene	108-90-7	N.D.	0.2	1
10335	Chloroethane	75-00-3	N.D.	0.3	1
10335	Chloroform	67-66-3	N.D.	0.2	1
10335	Chloromethane	74-87-3	N.D.	0.3	1
10335	Cyclohexane	110-82-7	N.D.	2	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	0.4	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.3	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.	0.2	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.	0.2	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.	0.2	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	0.3	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.2	1
10335	1,2-Dichloroethane	107-06-2	N.D.	2	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.2	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.2	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.2	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.2	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.2	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.4	1
10335	Ethylbenzene	100-41-4	N.D.	0.2	1
10335	Freon 113	76-13-1	N.D.	2	1
10335	2-Hexanone	591-78-6	N.D.	3	1
10335	Isopropylbenzene	98-82-8	N.D.	0.3	1
10335	Methyl Acetate	79-20-9	N.D.	0.6	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.2	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	0.5	1
10335	Methylcyclohexane	108-87-2	N.D.	0.2	1
10335	Methylene Chloride	75-09-2	N.D.	0.2	1
10335	Styrene	100-42-5	N.D.	0.2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.2	1
10335	Tetrachloroethene	127-18-4	N.D.	0.2	1
10335	Toluene	108-88-3	N.D.	0.2	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.4	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.2	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.2	1
10335	Trichloroethene	79-01-6	N.D.	0.2	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.4	1
10335	Vinyl Chloride	75-01-4	N.D.	0.4	1
10335	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Miscellaneous	**RSKSOP-175 modified**		**ug/l**	**ug/l**	

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/12/2020 16:17
Collection Date/Time: 05/11/2020 14:20

GES, Inc.
ELLE Sample #: RW 1313344
ELLE Group #: 2099244
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Miscellaneous	**RSKSOP-175 modified**		**ug/l**	**ug/l**	
07105	Methane	74-82-8	450	3.0	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	5,400	53	1
Metals	**SW-846 6010C**		**mg/l**	**mg/l**	
07044	Antimony	7440-36-0	N.D.	0.0160	1
07035	Arsenic	7440-38-2	N.D.	0.0160	1
07046	Barium	7440-39-3	0.0294	0.0010	1
07047	Beryllium	7440-41-7	N.D.	0.0010	1
07049	Cadmium	7440-43-9	N.D.	0.0010	1
07051	Chromium	7440-47-3	N.D.	0.0016	1
07052	Cobalt	7440-48-4	0.0198	0.0015	1
07053	Copper	7440-50-8	N.D.	0.0120	1
07055	Lead	7439-92-1	N.D.	0.0071	1
07058	Manganese	7439-96-5	2.39	0.0030	1
07060	Molybdenum	7439-98-7	N.D.	0.0020	1
07061	Nickel	7440-02-0	0.0140	0.0021	1
07036	Selenium	7782-49-2	N.D.	0.0160	1
07066	Silver	7440-22-4	N.D.	0.0050	1
07022	Thallium	7440-28-0	N.D. K2	0.0081	1
07071	Vanadium	7440-62-2	N.D.	0.0019	1
07072	Zinc	7440-66-6	0.0095 J	0.0037	1
	SW-846 7470A		**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000060 J	0.000050	1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	
00228	Sulfate	14808-79-8	168	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[1]	n.a.	22.0	0.300	20
	SM 2320 B-2011		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5	n.a.	152	2.6	1

Sample Comments

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

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/12/2020 16:17
Collection Date/Time: 05/11/2020 14:20

GES, Inc.
ELLE Sample #: RW 1313344
ELLE Group #: 2099244
Matrix: Groundwater

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	TCL 4.3 VOCs	SW-846 8260B	1	4201411AA	05/20/2020 13:58	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	4201411AA	05/20/2020 13:57	Linda C Pape	1
07105	Methane	RSKSOP-175 modified	1	201340004A	05/13/2020 15:22	Esther Kathryn Lane	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	201360002A	05/16/2020 07:27	Timothy M Emrick	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	201360002A	05/15/2020 12:15	Shawn J McMullen	1
07044	Antimony	SW-846 6010C	1	201341404401	05/14/2020 19:42	Cindy M Gehman	1
07035	Arsenic	SW-846 6010C	1	201341404401	05/14/2020 19:42	Cindy M Gehman	1
07046	Barium	SW-846 6010C	1	201341404401	05/14/2020 19:42	Cindy M Gehman	1
07047	Beryllium	SW-846 6010C	1	201341404401	05/14/2020 19:42	Cindy M Gehman	1
07049	Cadmium	SW-846 6010C	1	201341404401	05/14/2020 19:42	Cindy M Gehman	1
07051	Chromium	SW-846 6010C	1	201341404401	05/14/2020 19:42	Cindy M Gehman	1
07052	Cobalt	SW-846 6010C	1	201341404401	05/14/2020 19:42	Cindy M Gehman	1
07053	Copper	SW-846 6010C	1	201341404401	05/14/2020 19:42	Cindy M Gehman	1
07055	Lead	SW-846 6010C	1	201341404401	05/14/2020 19:42	Cindy M Gehman	1
07058	Manganese	SW-846 6010C	1	201341404401	05/14/2020 19:42	Cindy M Gehman	1
07060	Molybdenum	SW-846 6010C	1	201341404401	05/14/2020 19:42	Cindy M Gehman	1
07061	Nickel	SW-846 6010C	1	201341404401	05/14/2020 19:42	Cindy M Gehman	1
07036	Selenium	SW-846 6010C	1	201341404401	05/18/2020 08:57	Lisa J Cooke	1
07066	Silver	SW-846 6010C	1	201341404401	05/14/2020 19:42	Cindy M Gehman	1
07022	Thallium	SW-846 6010C	1	201341404401	05/14/2020 19:42	Cindy M Gehman	1
07071	Vanadium	SW-846 6010C	1	201341404401	05/14/2020 19:42	Cindy M Gehman	1
07072	Zinc	SW-846 6010C	1	201341404401	05/14/2020 19:42	Cindy M Gehman	1
00259	Mercury	SW-846 7470A	1	201340571304	05/19/2020 10:13	Damary Valentin	1
14044	ICP-WW, 3005A (tot rec) - U345	SW-846 3005A	1	201341404401	05/14/2020 03:13	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	201340571304	05/14/2020 15:45	JoElla L Rice	1
00228	Sulfate	EPA 300.0	1	20135076109B	05/18/2020 17:34	Kevin Litwa	50
00220	Nitrate Nitrogen	EPA 353.2	1	20137106101A	05/16/2020 08:08	Ashlynn M Cornelius	1
00219	Nitrite Nitrogen	EPA 353.2	1	20134105101A	05/13/2020 09:32	Ashlynn M Cornelius	1
14855	Ferrous Iron	SM 3500-Fe B-2011	1	20134127101A	05/13/2020 11:42	Jonathan Saul	20
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	20134002102A	05/13/2020 22:03	Jeremy L Bolf	1

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/12/2020 16:17
Collection Date/Time: 05/11/2020 10:30

GES, Inc.
ELLE Sample #: RW 1313345
ELLE Group #: 2099244
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Metals		**SW-846 6010C**	**mg/l**	**mg/l**	
07044	Antimony	7440-36-0	N.D.	0.0160	1
07035	Arsenic	7440-38-2	N.D.	0.0160	1
07046	Barium	7440-39-3	0.0662	0.0010	1
07047	Beryllium	7440-41-7	N.D.	0.0010	1
07049	Cadmium	7440-43-9	N.D.	0.0010	1
07051	Chromium	7440-47-3	N.D.	0.0016	1
07052	Cobalt	7440-48-4	N.D.	0.0015	1
07053	Copper	7440-50-8	N.D.	0.0120	1
07055	Lead	7439-92-1	N.D.	0.0071	1
07060	Molybdenum	7439-98-7	N.D.	0.0020	1
07061	Nickel	7440-02-0	N.D.	0.0021	1
07036	Selenium	7782-49-2	N.D.	0.0160	1
07066	Silver	7440-22-4	N.D.	0.0050	1
07022	Thallium	7440-28-0	N.D.	0.0081	1
07071	Vanadium	7440-62-2	N.D.	0.0019	1
07072	Zinc	7440-66-6	N.D.	0.0037	1
		SW-846 7470A	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000050	1

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07044	Antimony	SW-846 6010C	1	201341404401	05/14/2020 19:10	Cindy M Gehman	1
07035	Arsenic	SW-846 6010C	1	201341404401	05/14/2020 19:10	Cindy M Gehman	1
07046	Barium	SW-846 6010C	1	201341404401	05/14/2020 19:10	Cindy M Gehman	1
07047	Beryllium	SW-846 6010C	1	201341404401	05/14/2020 19:10	Cindy M Gehman	1
07049	Cadmium	SW-846 6010C	1	201341404401	05/14/2020 19:10	Cindy M Gehman	1
07051	Chromium	SW-846 6010C	1	201341404401	05/14/2020 19:10	Cindy M Gehman	1
07052	Cobalt	SW-846 6010C	1	201341404401	05/14/2020 19:10	Cindy M Gehman	1
07053	Copper	SW-846 6010C	1	201341404401	05/14/2020 19:10	Cindy M Gehman	1
07055	Lead	SW-846 6010C	1	201341404401	05/14/2020 19:10	Cindy M Gehman	1
07060	Molybdenum	SW-846 6010C	1	201341404401	05/14/2020 19:10	Cindy M Gehman	1
07061	Nickel	SW-846 6010C	1	201341404401	05/14/2020 19:10	Cindy M Gehman	1
07036	Selenium	SW-846 6010C	1	201341404401	05/18/2020 08:34	Lisa J Cooke	1
07066	Silver	SW-846 6010C	1	201341404401	05/14/2020 19:10	Cindy M Gehman	1
07022	Thallium	SW-846 6010C	1	201341404401	05/14/2020 19:10	Cindy M Gehman	1
07071	Vanadium	SW-846 6010C	1	201341404401	05/14/2020 19:10	Cindy M Gehman	1
07072	Zinc	SW-846 6010C	1	201341404401	05/14/2020 19:10	Cindy M Gehman	1
00259	Mercury	SW-846 7470A	1	201350571302	05/19/2020 10:25	Damary Valentin	1
14044	ICP-WW, 3005A (tot rec) - U345	SW-846 3005A	1	201341404401	05/14/2020 03:13	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	201350571302	05/19/2020 04:03	James L Mertz	1

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/12/2020 16:17
Collection Date/Time: 05/11/2020 12:55

GES, Inc.
ELLE Sample #: RW 1313346
ELLE Group #: 2099244
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Miscellaneous	**RSKSOP-175 modified**		**ug/l**	**ug/l**	
07105	Methane	74-82-8	8.2	3.0	1
Metals	**SW-846 6010C**		**mg/l**	**mg/l**	
07044	Antimony	7440-36-0	N.D.	0.0160	1
07035	Arsenic	7440-38-2	N.D.	0.0160	1
07046	Barium	7440-39-3	0.0267	0.0010	1
07047	Beryllium	7440-41-7	N.D.	0.0010	1
07049	Cadmium	7440-43-9	0.0044 J	0.0010	1
07051	Chromium	7440-47-3	N.D.	0.0016	1
07052	Cobalt	7440-48-4	0.109	0.0015	1
07053	Copper	7440-50-8	N.D.	0.0120	1
07055	Lead	7439-92-1	0.0087 J	0.0071	1
07058	Manganese	7439-96-5	4.35	0.0030	1
07060	Molybdenum	7439-98-7	N.D.	0.0020	1
07061	Nickel	7440-02-0	0.0481	0.0021	1
07036	Selenium	7782-49-2	N.D.	0.0160	1
07066	Silver	7440-22-4	N.D.	0.0050	1
07022	Thallium	7440-28-0	N.D.	0.0081	1
07071	Vanadium	7440-62-2	N.D.	0.0019	1
07072	Zinc	7440-66-6	0.142	0.0037	1
	SW-846 7470A		**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000050	1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	
00228	Sulfate	14808-79-8	543	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.	98.4	0.750	50
	SM 2320 B-2011		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5	n.a.	25.9	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	201340004A	05/13/2020 15:40	Esther Kathryn Lane	1
07044	Antimony	SW-846 6010C	1	201341404401	05/14/2020 18:30	Cindy M Gehman	1
07035	Arsenic	SW-846 6010C	1	201341404401	05/14/2020 18:30	Cindy M Gehman	1

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/12/2020 16:17
Collection Date/Time: 05/11/2020 12:55

GES, Inc.
ELLE Sample #: RW 1313346
ELLE Group #: 2099244
Matrix: Groundwater

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07046	Barium	SW-846 6010C	1	201341404401	05/14/2020 18:30	Cindy M Gehman	1
07047	Beryllium	SW-846 6010C	1	201341404401	05/14/2020 18:30	Cindy M Gehman	1
07049	Cadmium	SW-846 6010C	1	201341404401	05/14/2020 18:30	Cindy M Gehman	1
07051	Chromium	SW-846 6010C	1	201341404401	05/14/2020 18:30	Cindy M Gehman	1
07052	Cobalt	SW-846 6010C	1	201341404401	05/14/2020 18:30	Cindy M Gehman	1
07053	Copper	SW-846 6010C	1	201341404401	05/14/2020 18:30	Cindy M Gehman	1
07055	Lead	SW-846 6010C	1	201341404401	05/18/2020 08:15	Lisa J Cooke	1
07058	Manganese	SW-846 6010C	1	201341404401	05/14/2020 18:30	Cindy M Gehman	1
07060	Molybdenum	SW-846 6010C	1	201341404401	05/14/2020 18:30	Cindy M Gehman	1
07061	Nickel	SW-846 6010C	1	201341404401	05/14/2020 18:30	Cindy M Gehman	1
07036	Selenium	SW-846 6010C	1	201341404401	05/18/2020 08:15	Lisa J Cooke	1
07066	Silver	SW-846 6010C	1	201341404401	05/14/2020 18:30	Cindy M Gehman	1
07022	Thallium	SW-846 6010C	1	201341404401	05/14/2020 18:30	Cindy M Gehman	1
07071	Vanadium	SW-846 6010C	1	201341404401	05/14/2020 18:30	Cindy M Gehman	1
07072	Zinc	SW-846 6010C	1	201341404401	05/14/2020 18:30	Cindy M Gehman	1
00259	Mercury	SW-846 7470A	1	201340571304	05/19/2020 09:46	Damary Valentin	1
14044	ICP-WW, 3005A (tot rec) - U345	SW-846 3005A	1	201341404401	05/14/2020 03:13	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	201340571304	05/14/2020 15:45	JoElla L Rice	1
00228	Sulfate	EPA 300.0	1	20135076109B	05/15/2020 00:52	Niyati Desai	500
00220	Nitrate Nitrogen	EPA 353.2	1	20137106101A	05/16/2020 08:12	Ashlynn M Cornelius	1
00219	Nitrite Nitrogen	EPA 353.2	1	20134105101A	05/13/2020 09:29	Ashlynn M Cornelius	1
14855	Ferrous Iron	SM 3500-Fe B-2011	1	20134127101A	05/13/2020 10:04	Jonathan Saul	50
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	20134002102A	05/13/2020 21:57	Jeremy L Bolf	1

Quality Control Summary

Client Name: GES, Inc. Group Number: 2099244
Reported: 05/22/2020 13:59

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: 4201411AA	Sample number(s): 1313343-1313344	
Acetone	N.D.	0.8
Benzene	N.D.	0.2
Bromodichloromethane	N.D.	0.2
Bromoform	N.D.	2
Bromomethane	N.D.	0.5
2-Butanone	N.D.	1
Carbon Disulfide	N.D.	0.3
Carbon Tetrachloride	N.D.	0.2
Chlorobenzene	N.D.	0.2
Chloroethane	N.D.	0.3
Chloroform	N.D.	0.2
Chloromethane	N.D.	0.3
Cyclohexane	N.D.	2
1,2-Dibromo-3-chloropropane	N.D.	1
Dibromochloromethane	N.D.	0.4
1,2-Dibromoethane	N.D.	0.3
1,2-Dichlorobenzene	N.D.	0.2
1,3-Dichlorobenzene	N.D.	0.2
1,4-Dichlorobenzene	N.D.	0.2
Dichlorodifluoromethane	N.D.	0.3
1,1-Dichloroethane	N.D.	0.2
1,2-Dichloroethane	N.D.	2
1,1-Dichloroethene	N.D.	0.2
cis-1,2-Dichloroethene	N.D.	0.2
trans-1,2-Dichloroethene	N.D.	0.2
1,2-Dichloropropane	N.D.	0.2
cis-1,3-Dichloropropene	N.D.	0.2
trans-1,3-Dichloropropene	N.D.	0.4
Ethylbenzene	N.D.	0.2
Freon 113	N.D.	2
2-Hexanone	N.D.	3
Isopropylbenzene	N.D.	0.3
Methyl Acetate	N.D.	0.6
Methyl Tertiary Butyl Ether	N.D.	0.2
4-Methyl-2-pentanone	N.D.	0.5
Methylcyclohexane	N.D.	0.2
Methylene Chloride	N.D.	0.2
Styrene	N.D.	0.2
1,1,2,2-Tetrachloroethane	N.D.	0.2

*- 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: 05/22/2020 13:59

Group Number: 2099244

Method Blank (continued)

Analysis Name	Result	MDL
	ug/l	ug/l
Tetrachloroethene	N.D.	0.2
Toluene	N.D.	0.2
1,2,4-Trichlorobenzene	N.D.	0.4
1,1,1-Trichloroethane	N.D.	0.2
1,1,2-Trichloroethane	N.D.	0.2
Trichloroethene	N.D.	0.2
Trichlorofluoromethane	N.D.	0.4
Vinyl Chloride	N.D.	0.4
Xylene (Total)	N.D.	0.5
Batch number: 201340004A	Sample number(s): 1313343-1313344,1313346	
Methane	N.D.	3.0
Batch number: 201360002A	Sample number(s): 1313343-1313344	
DRO C10-C28	N.D.	53
	mg/l	mg/l
Batch number: 201340571304	Sample number(s): 1313343-1313344,1313346	
Mercury	N.D.	0.000050
Batch number: 201341404401	Sample number(s): 1313343-1313346	
Antimony	N.D.	0.0160
Arsenic	N.D.	0.0160
Barium	N.D.	0.0010
Beryllium	N.D.	0.0010
Cadmium	N.D.	0.0010
Chromium	N.D.	0.0016
Cobalt	N.D.	0.0015
Copper	N.D.	0.0120
Lead	N.D.	0.0071
Manganese	N.D.	0.0030
Molybdenum	N.D.	0.0020
Nickel	N.D.	0.0021
Selenium	N.D.	0.0160
Silver	N.D.	0.0050
Thallium	N.D.	0.0081
Vanadium	N.D.	0.0019
Zinc	N.D.	0.0037
Batch number: 201350571302	Sample number(s): 1313345	
Mercury	N.D.	0.000050
Batch number: 20134105101A	Sample number(s): 1313343-1313344,1313346	
Nitrite Nitrogen	N.D.	0.015
Batch number: 20134127101A	Sample number(s): 1313343-1313344,1313346	
Ferrous Iron	N.D.	0.0150
Batch number: 20135076109B	Sample number(s): 1313343-1313344,1313346	

*- 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: 05/22/2020 13:59

Group Number: 2099244

Method Blank (continued)

Analysis Name	Result	MDL
	mg/l	mg/l
Sulfate	N.D.	0.30
Batch number: 20137106101A	Sample number(s): 1313343-1313344,1313346	
Nitrate Nitrogen	N.D.	0.040
	mg/l as CaCO3	mg/l as CaCO3
Batch number: 20134002102A	Sample number(s): 1313343-1313344,1313346	
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: 4201411AA	Sample number(s): 1313343-1313344								
Acetone	150	125.79	150	121.67	84	81	54-157	3	30
Benzene	20	22.34	20	21.89	112	109	80-120	2	30
Bromodichloromethane	20	21.65	20	21.45	108	107	71-120	1	30
Bromoform	20	19.67	20	19.06	98	95	51-120	3	30
Bromomethane	20	14.28	20	14.41	71	72	53-128	1	30
2-Butanone	150	121.27	150	127.18	81	85	59-135	5	30
Carbon Disulfide	20	20.7	20	20.73	103	104	65-128	0	30
Carbon Tetrachloride	20	22.02	20	21.8	110	109	64-134	1	30
Chlorobenzene	20	21.6	20	20.79	108	104	80-120	4	30
Chloroethane	20	15.92	20	15.97	80	80	55-123	0	30
Chloroform	20	22.23	20	21.89	111	109	80-120	2	30
Chloromethane	20	20.3	20	20.32	101	102	56-121	0	30
Cyclohexane	20	22.47	20	22.28	112	111	68-126	1	30
1,2-Dibromo-3-chloropropane	20	19.72	20	19.32	99	97	47-131	2	30
Dibromochloromethane	20	20.55	20	19.88	103	99	71-120	3	30
1,2-Dibromoethane	20	20.74	20	20.25	104	101	77-120	2	30
1,2-Dichlorobenzene	20	20.48	20	19.98	102	100	80-120	2	30
1,3-Dichlorobenzene	20	20.44	20	20.15	102	101	80-120	1	30
1,4-Dichlorobenzene	20	20.83	20	20.03	104	100	80-120	4	30
Dichlorodifluoromethane	20	18.44	20	18.58	92	93	41-127	1	30
1,1-Dichloroethane	20	22.19	20	21.82	111	109	80-120	2	30
1,2-Dichloroethane	20	21.14	20	20.77	106	104	73-124	2	30
1,1-Dichloroethene	20	22.68	20	22.52	113	113	80-131	1	30
cis-1,2-Dichloroethene	20	23.08	20	22.63	115	113	80-125	2	30
trans-1,2-Dichloroethene	20	22.11	20	21.74	111	109	80-126	2	30
1,2-Dichloropropane	20	21.98	20	21.81	110	109	80-120	1	30
cis-1,3-Dichloropropene	20	21.94	20	21.65	110	108	75-120	1	30

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: GES, Inc. Group Number: 2099244
Reported: 05/22/2020 13:59

LCS/LCSD (continued)

Analysis Name	LCS Spike Added	LCS Conc	LCSD Spike Added	LCSD Conc	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
	ug/l	ug/l	ug/l	ug/l					
trans-1,3-Dichloropropene	20	19.61	20	19.3	98	96	67-120	2	30
Ethylbenzene	20	21.25	20	20.71	106	104	80-120	3	30
Freon 113	20	21.15	20	20.99	106	105	73-139	1	30
2-Hexanone	100	86.87	100	89.65	87	90	56-135	3	30
Isopropylbenzene	20	21.46	20	20.89	107	104	80-120	3	30
Methyl Acetate	20	19.57	20	19.13	98	96	54-136	2	30
Methyl Tertiary Butyl Ether	20	19.53	20	19.5	98	98	69-122	0	30
4-Methyl-2-pentanone	100	100.84	100	100.63	101	101	62-133	0	30
Methylcyclohexane	20	20.9	20	21.07	104	105	67-121	1	30
Methylene Chloride	20	22.49	20	22.29	112	111	80-120	1	30
Styrene	20	20.81	20	20.09	104	100	80-120	4	30
1,1,2,2-Tetrachloroethane	20	19.99	20	19.53	100	98	72-120	2	30
Tetrachloroethene	20	23.23	20	21.43	116	107	80-120	8	30
Toluene	20	21.15	20	20.6	106	103	80-120	3	30
1,2,4-Trichlorobenzene	20	18.62	20	18.45	93	92	63-120	1	30
1,1,1-Trichloroethane	20	21.72	20	21.72	109	109	67-126	0	30
1,1,2-Trichloroethane	20	21.26	20	20.87	106	104	80-120	2	30
Trichloroethene	20	22.85	20	22.06	114	110	80-120	4	30
Trichlorofluoromethane	20	21.1	20	20.34	105	102	55-135	4	30
Vinyl Chloride	20	20.55	20	20.41	103	102	56-120	1	30
Xylene (Total)	60	63.77	60	62.22	106	104	80-120	2	30
	ug/l	ug/l	ug/l	ug/l					
Batch number: 201340004A	Sample number(s): 1313343-1313344,1313346								
Methane	59.42	64.13			108		85-115		
	ug/l	ug/l	ug/l	ug/l					
Batch number: 201360002A	Sample number(s): 1313343-1313344								
DRO C10-C28	2857.87	1734.78	2857.87	1796.2	61	63	47-116	3	20
	mg/l	mg/l	mg/l	mg/l					
Batch number: 201340571304	Sample number(s): 1313343-1313344,1313346								
Mercury	0.00100	0.000874			87		80-110		
Batch number: 201341404401	Sample number(s): 1313343-1313346								
Antimony	0.100	0.108			108		80-120		
Arsenic	0.0600	0.0616			103		80-120		
Barium	0.0100	0.0105			105		80-120		
Beryllium	0.0100	0.00983			98		80-120		
Cadmium	0.0100	0.0101			101		80-120		
Chromium	0.0300	0.0312			104		80-120		
Cobalt	0.0100	0.0108			108		80-120		
Copper	0.0400	0.0423			106		80-120		
Lead	0.0300	0.0330			110		80-120		

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: GES, Inc. Group Number: 2099244
Reported: 05/22/2020 13:59

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
Manganese	0.0200	0.0212			106		80-120		
Molybdenum	0.0200	0.0201			101		80-120		
Nickel	2.02	2.13			105		80-120		
Selenium	0.100	0.104			104		80-120		
Silver	0.0200	0.0199			100		80-120		
Thallium	0.0600	0.0667			111		80-120		
Vanadium	0.0200	0.0208			104		80-120		
Zinc	0.440	0.436			99		80-120		
Batch number: 201350571302	Sample number(s): 1313345								
Mercury	0.00100	0.000877			88		80-110		
	mg/l	**mg/l**	**mg/l**	**mg/l**					
Batch number: 20134105101A	Sample number(s): 1313343-1313344,1313346								
Nitrite Nitrogen	0.700	0.763			109		90-110		
Batch number: 20134127101A	Sample number(s): 1313343-1313344,1313346								
Ferrous Iron	1.00	1.04			104		90-110		
Batch number: 20135076109B	Sample number(s): 1313343-1313344,1313346								
Sulfate	7.50	7.83			104		90-110		
Batch number: 20137106101A	Sample number(s): 1313343-1313344,1313346								
Nitrate Nitrogen	2.50	2.56			102		90-110		
	mg/l as CaCO3	**mg/l as CaCO3**	**mg/l as CaCO3**	**mg/l as CaCO3**					
Batch number: 20134002102A	Sample number(s): 1313343-1313344,1313346								
Total Alkalinity to pH 4.5	188	164.52			88		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: 201341404401	Sample number(s): 1313343-1313346 UNSPK: 1313346									
Antimony	N.D.	0.100	0.106	0.100	0.107	106	107	75-125	1	20
Arsenic	N.D.	0.0600	0.0624	0.0600	0.0613	104	102	75-125	2	20
Barium	0.0267	0.0100	0.0372	0.0100	0.0369	105	102	75-125	1	20
Beryllium	N.D.	0.0100	0.0107	0.0100	0.0106	107	106	75-125	0	20
Cadmium	0.00438	0.0100	0.0112	0.0100	0.0111	68*	67*	75-125	1	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.

Quality Control Summary

Client Name: GES, Inc. Group Number: 2099244
Reported: 05/22/2020 13:59

MS/MSD (continued)

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

Analysis Name	Unspiked Conc mg/l	MS Spike Added mg/l	MS Conc mg/l	MSD Spike Added mg/l	MSD Conc mg/l	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Chromium	N.D.	0.0300	0.0289	0.0300	0.0289	96	96	75-125	0	20
Cobalt	0.109	0.0100	0.117	0.0100	0.117	77 (2)	79 (2)	75-125	0	20
Copper	N.D.	0.0400	0.0394	0.0400	0.0408	98	102	75-125	4	20
Lead	0.00872	0.0300	0.0396	0.0300	0.0383	103	99	75-125	3	20
Manganese	4.35	0.0200	4.41	0.0200	4.37	306 (2)	71 (2)	75-125	1	20
Molybdenum	N.D.	0.0200	0.0182	0.0200	0.0180	91	90	75-125	1	20
Nickel	0.0481	2.02	2.13	2.02	2.09	103	101	75-125	2	20
Selenium	N.D.	0.100	0.105	0.100	0.107	105	107	75-125	2	20
Silver	N.D.	0.0200	0.0205	0.0200	0.0202	102	101	75-125	1	20
Thallium	N.D.	0.0600	0.0534	0.0600	0.0559	89	93	75-125	5	20
Vanadium	N.D.	0.0200	0.0205	0.0200	0.0210	103	105	75-125	2	20
Zinc	0.142	0.440	0.580	0.440	0.572	99	98	75-125	1	20
Batch number: 201350571302	Sample number(s): 1313345 UNSPK: 1313345									
Mercury	N.D.	0.00100	0.000888	0.00100	0.000923	89	92	80-120	4	20
	mg/l	mg/l	mg/l	mg/l	mg/l					
Batch number: 20134105101A	Sample number(s): 1313343-1313344,1313346 UNSPK: 1313343									
Nitrite Nitrogen	N.D.	0.200	0.192			96		90-110		
Batch number: 20134127101A	Sample number(s): 1313343-1313344,1313346 UNSPK: 1313346									
Ferrous Iron	98.36	1.00	98.91	1.00	105	55 (2)	663 (2)	90-110	6	10

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: 201341404401	Sample number(s): 1313343-1313346 BKG: 1313346			
Antimony	N.D.	N.D.	0 (1)	20
Arsenic	N.D.	N.D.	0 (1)	20
Barium	0.0267	0.0269	1	20
Beryllium	N.D.	N.D.	0 (1)	20
Cadmium	0.00438	0.00120	114* (1)	20
Chromium	N.D.	N.D.	0 (1)	20
Cobalt	0.109	0.108	1	20
Copper	N.D.	N.D.	0 (1)	20
Lead	0.00872	0.0113	26* (1)	20
Manganese	4.35	4.37	0	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.

Quality Control Summary

Client Name: GES, Inc. Group Number: 2099244
Reported: 05/22/2020 13:59

Laboratory Duplicate (continued)

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

Analysis Name	BKG Conc	DUP Conc	DUP RPD	DUP RPD Max
	mg/l	mg/l		
Molybdenum	N.D.	N.D.	0 (1)	20
Nickel	0.0481	0.0440	9 (1)	20
Selenium	N.D.	N.D.	0 (1)	20
Silver	N.D.	N.D.	0 (1)	20
Thallium	N.D.	N.D.	0 (1)	20
Vanadium	N.D.	N.D.	0 (1)	20
Zinc	0.142	0.142	0	20
Batch number: 201350571302	Sample number(s): 1313345 BKG: 1313345			
Mercury	N.D.	N.D.	0 (1)	20
	mg/l	mg/l		
Batch number: 20134105101A	Sample number(s): 1313343-1313344,1313346 BKG: 1313343			
Nitrite Nitrogen	N.D.	N.D.	0 (1)	20
Batch number: 20134127101A	Sample number(s): 1313343-1313344,1313346 BKG: 1313346			
Ferrous Iron	98.36	97.84	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: TCL 4.3 VOCs
Batch number: 4201411AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
1313343	103	102	98	99
1313344	104	101	97	99
Blank	102	100	97	98
LCS	102	102	98	101
LCSD	103	105	97	101
Limits:	80-120	80-120	80-120	80-120

Analysis Name: Methane
Batch number: 201340004A

	Propene
1313343	82
1313344	80
1313346	80
Blank	104

*- 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. Group Number: 2099244
Reported: 05/22/2020 13:59

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: 201340004A

	Propene
LCS	105
Limits:	28-140

Analysis Name: DRO micro-ext 8015B
Batch number: 201360002A

	Orthoterphenyl
1313343	87
1313344	97
Blank	87
LCS	84
LCSD	82
Limits:	52-132

*- 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

eurofins | Lancaster Laboratories Environmental

Acct. # 8390 Group # 209244 Sample # 13133343-46

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

Sample Identification	Collection Date	Collection Time	Grab	Composite	Matrix: Soil	Sediment	Water: Potable	Ground	NPDES	Surface	Other:	Total # of Containers	TPH-DRO C-10-28 (SW-846 8015B) H	Alkalinity (SM 2320B) -	Nitrate NO3 -1 & Nitrite NO-2(EPA 353.2) -/S	Manganese (6010) N	Ferrous Iron Fe2+ (SM 3500-Fe B modified-1997) H	Sulfate SO4 2- (EPA 300.0) -	Methane (RSKSOP-175 modified) H	VOCs (8260)	Title 22 Metals +Hg (6010) (7470)			Remarks
MW-01S	5/11/2020	1203	X				X					14	X	X	X	X	X	X	X	X	X			
MW/RW-25	↓	1420	X				X					14	X	X	X	X	X	X	X	X	X			
TW-14	↓	1030	X				X					1									X			
TW-05	5/11/2020	1255	X				X					9		X	X	X	X	X	X		X			

Analyses Requested — Preservation Codes

For Lab Use Only
SF #:
SCR #:

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

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: midatlantic@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
	5/11/2020	1630	Denise Wooding	5-12-20	0900
Denise Wooding	5-12-20	1015		5/12/20	10:15

Relinquished by Commercial Carrier:

UPS _____ FedEx _____ Other _____

Temperature upon receipt 0.5 °C

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Sample Administration Receipt Documentation Log

Doc Log ID: 284275

Group Number(s): 2099244

Client: GES, Inc

Delivery and Receipt Information

Delivery Method:	ELLE Courier	Arrival Date:	05/12/2020
Number of Packages:	1	Number of Projects:	3
State/Province of Origin:	VA		

Arrival Condition Summary

Shipping Container Sealed:	No	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	No	Sample Date/Times match COC:	Yes
Samples Chilled:	Yes	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

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	DT42-01	0.5	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.

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

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

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

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 less than the LOQ
K2	Continuing Calibration Blank is above the QC limit and the sample result is less than the LOQ
K3	Initial Calibration Verification is above the QC limit and the sample result is less than the LOQ
K4	Continuing Calibration Verification is above the QC limit and the sample result is less than the LOQ
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: May 18, 2020 14:03

Project: NRG PRGS

Account #: 08390
Group Number: 2099265
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-08S-Grab Grab Groundwater	05/11/2020 14:00	1313421
MW-01S-Grab Grab Groundwater	05/11/2020 14:20	1313422
MW-05S/RW-05S-Grab Grab Groundwater	05/11/2020 14:35	1313423

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

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/12/2020 16:17
Collection Date/Time: 05/11/2020 14:00

GES, Inc.
ELLE Sample #: RW 1313421
ELLE Group #: 2099265
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.	10,000	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	201360002A	05/16/2020 07:51	Timothy M Emrick	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	201360002A	05/15/2020 12:15	Shawn J McMullen	1

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/12/2020 16:17
Collection Date/Time: 05/11/2020 14:20

GES, Inc.
ELLE Sample #: RW 1313422
ELLE Group #: 2099265
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.	5,500	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	201360002A	05/16/2020 08:15	Timothy M Emrick	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	201360002A	05/15/2020 12:15	Shawn J McMullen	1

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/12/2020 16:17
Collection Date/Time: 05/11/2020 14:35

GES, Inc.
ELLE Sample #: RW 1313423
ELLE Group #: 2099265
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.	6,300	53	1

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12858	DRO micro-ext 8015B	SW-846 8015B	1	201360002A	05/16/2020 08:39	Timothy M Emrick	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	201360002A	05/15/2020 12:15	Shawn J McMullen	1

Quality Control Summary

Client Name: GES, Inc. Group Number: 2099265
Reported: 05/18/2020 14:03

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: 201360002A	Sample number(s): 1313421-1313423	
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: 201360002A	Sample number(s): 1313421-1313423								
DRO C10-C28	2857.87	1734.78	2857.87	1796.2	61	63	47-116	3	20

Surrogate Quality Control

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

Analysis Name: DRO micro-ext 8015B
Batch number: 201360002A

	Orthoterphenyl
1313421	98
1313422	92
1313423	112
Blank	87
LCS	84
LCSD	82
Limits:	52-132

*- 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 # 2099265 Sample # 1313421-23

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

Sample Identification	Collection Date	Collection Time	Grab	Composite	Matrix: Soil	Sediment	Water: Potable	Ground	NPDES	Surface	Other:	Total # of Containers	TPH-DRO C-10-28 (SW-846 8015B) H	Alkalinity (SM 2320B) -	Nitrate NO3 -1 & Nitrite NO-2(EPA 353.2) -/S	Manganese (6010) N	Ferrous Iron Fe2+ (SM 3500-Fe B modified-1997) H	Sulfate SO4 2- (EPA 300.0) -	Methane (RSKSOP-175 modified) H
MW-08S - Grab	5-11-20	1400	X				X					2	X						
MW-01S Grab	5-11-20	1420	X				X					2	X						
MW-05S/RW-05S Grab	5-11-20	1435	X				X					2	X						

Analyses Requested — Preservation Codes

For Lab Use Only
SF #:
SCR #:

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

Remarks

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

Date results are needed:

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

E-mail Address: midatlantic@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
JeffPlummer	5-12-2020	0800	Denise Woodring	5/12/20	0900
Denise Woodring	5-12-20	1015		5/12/20	10:11
	5/12/20	16:15			

Relinquished by Commercial Carrier:

UPS _____ FedEx _____ Other _____

Temperature upon receipt 0.5 °C

Client: GES, Inc

Delivery and Receipt Information

Delivery Method:	ELLE Courier	Arrival Date:	05/12/2020
Number of Packages:	1	Number of Projects:	3
State/Province of Origin:	VA		

Arrival Condition Summary

Shipping Container Sealed:	No	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	No	Sample Date/Times match COC:	Yes
Samples Chilled:	Yes	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

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	DT42-01	0.5	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 less than the LOQ
K2	Continuing Calibration Blank is above the QC limit and the sample result is less than the LOQ
K3	Initial Calibration Verification is above the QC limit and the sample result is less than the LOQ
K4	Continuing Calibration Verification is above the QC limit and the sample result is less than the LOQ
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: May 28, 2020 14:27

Project: NRG PRGS

Account #: 08390
Group Number: 2099427
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	05/12/2020 10:12	1314111
RW-28S Grab Groundwater	05/12/2020 11:38	1314112
MW-27 Grab Groundwater	05/12/2020 12:57	1314113
RW-123S Grab Groundwater	05/12/2020 14:28	1314114

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

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/13/2020 16:25
Collection Date/Time: 05/12/2020 10:12

GES, Inc.
ELLE Sample #: RW 1314111
ELLE Group #: 2099427
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acetone	67-64-1	N.D.	0.8	1
10335	Benzene	71-43-2	N.D.	0.2	1
10335	Bromodichloromethane	75-27-4	N.D.	0.2	1
10335	Bromoform	75-25-2	N.D.	2	1
10335	Bromomethane	74-83-9	N.D.	0.5	1
10335	2-Butanone	78-93-3	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	0.3	1
10335	Carbon Tetrachloride	56-23-5	N.D.	0.2	1
10335	Chlorobenzene	108-90-7	N.D.	0.2	1
10335	Chloroethane	75-00-3	N.D.	0.3	1
10335	Chloroform	67-66-3	N.D.	0.2	1
10335	Chloromethane	74-87-3	N.D.	0.3	1
10335	Cyclohexane	110-82-7	N.D.	2	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	0.4	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.3	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.	0.2	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.	0.2	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.	0.2	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	0.3	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.2	1
10335	1,2-Dichloroethane	107-06-2	N.D.	2	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.2	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.2	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.2	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.2	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.2	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.4	1
10335	Ethylbenzene	100-41-4	N.D.	0.2	1
10335	Freon 113	76-13-1	N.D.	2	1
10335	2-Hexanone	591-78-6	N.D.	3	1
10335	Isopropylbenzene	98-82-8	N.D.	0.3	1
10335	Methyl Acetate	79-20-9	N.D.	0.6	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.2	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	0.5	1
10335	Methylcyclohexane	108-87-2	N.D.	0.2	1
10335	Methylene Chloride	75-09-2	N.D.	0.2	1
10335	Styrene	100-42-5	N.D.	0.2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.2	1
10335	Tetrachloroethene	127-18-4	N.D.	0.2	1
10335	Toluene	108-88-3	N.D.	0.2	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.4	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.2	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.2	1

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/13/2020 16:25
Collection Date/Time: 05/12/2020 10:12

GES, Inc.
ELLE Sample #: RW 1314111
ELLE Group #: 2099427
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Trichloroethene	79-01-6	N.D.	0.2	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.4	1
10335	Vinyl Chloride	75-01-4	N.D.	0.4	1
10335	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	
14242	Acenaphthene	83-32-9	0.6	0.1	1
14242	Acenaphthylene	208-96-8	N.D.	0.1	1
14242	Acetophenone	98-86-2	N.D.	4	1
14242	Anthracene	120-12-7	N.D.	0.1	1
14242	Atrazine	1912-24-9	N.D.	2	1
14242	Benzaldehyde	100-52-7	N.D.	3	1
14242	Benzo(a)anthracene	56-55-3	N.D.	0.1	1
14242	Benzo(a)pyrene	50-32-8	N.D.	0.1	1
14242	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	1
14242	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	1
14242	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	1
14242	1,1'-Biphenyl	92-52-4	N.D.	3	1
14242	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	1
14242	Butylbenzylphthalate	85-68-7	N.D.	2	1
14242	Di-n-butylphthalate	84-74-2	N.D.	2	1
14242	Caprolactam	105-60-2	N.D.	5	1
14242	Carbazole	86-74-8	N.D.	0.5	1
14242	4-Chloro-3-methylphenol	59-50-7	N.D.	2	1
14242	4-Chloroaniline	106-47-8	N.D.	4	1
14242	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	1
14242	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	1
14242	2-Chloronaphthalene	91-58-7	N.D.	0.4	1
14242	2-Chlorophenol	95-57-8	N.D.	0.5	1
14242	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	1
14242	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	0.5	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.				
14242	Chrysene	218-01-9	N.D.	0.1	1
14242	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	1
14242	Dibenzofuran	132-64-9	N.D.	0.5	1
14242	3,3'-Dichlorobenzidine	91-94-1	N.D.	3	1
14242	2,4-Dichlorophenol	120-83-2	N.D.	0.5	1
14242	Diethylphthalate	84-66-2	N.D.	2	1
14242	2,4-Dimethylphenol	105-67-9	N.D.	3	1
14242	Dimethylphthalate	131-11-3	N.D.	2	1
14242	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	8	1

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/13/2020 16:25
Collection Date/Time: 05/12/2020 10:12

GES, Inc.
ELLE Sample #: RW 1314111
ELLE Group #: 2099427
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	
14242	2,4-Dinitrophenol	51-28-5	N.D.	14	1
14242	2,4-Dinitrotoluene	121-14-2	N.D.	1	1
14242	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	1
14242	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	5	1
14242	Fluoranthene	206-44-0	0.2 J	0.1	1
14242	Fluorene	86-73-7	0.3 J	0.1	1
14242	Hexachlorobenzene	118-74-1	N.D.	0.1	1
14242	Hexachlorobutadiene	87-68-3	N.D.	0.5	1
14242	Hexachlorocyclopentadiene	77-47-4	N.D.	5	1
14242	Hexachloroethane	67-72-1	N.D.	1	1
14242	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	1
14242	Isophorone	78-59-1	N.D.	0.5	1
14242	2-Methylnaphthalene	91-57-6	N.D.	0.1	1
14242	2-Methylphenol	95-48-7	N.D.	0.5	1
14242	4-Methylphenol	106-44-5	N.D.	0.5	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.				
14242	Naphthalene	91-20-3	N.D.	0.1	1
14242	2-Nitroaniline	88-74-4	N.D.	2	1
14242	3-Nitroaniline	99-09-2	N.D.	3	1
14242	4-Nitroaniline	100-01-6	N.D.	0.9	1
14242	Nitrobenzene	98-95-3	N.D.	0.5	1
14242	2-Nitrophenol	88-75-5	N.D.	3	1
14242	4-Nitrophenol	100-02-7	N.D.	10	1
14242	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.7	1
14242	N-Nitrosodiphenylamine	86-30-6	N.D.	0.7	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.				
14242	Di-n-octylphthalate	117-84-0	N.D.	5	1
14242	Pentachlorophenol	87-86-5	N.D.	1	1
14242	Phenanthrene	85-01-8	N.D.	0.1	1
14242	Phenol	108-95-2	N.D.	0.5	1
14242	Pyrene	129-00-0	0.3 J	0.1	1
14242	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	1
14242	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	400	53	1
Metals	**SW-846 6010C**		**mg/l**	**mg/l**	
07044	Antimony	7440-36-0	N.D.	0.0160	1

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/13/2020 16:25
Collection Date/Time: 05/12/2020 10:12

GES, Inc.
ELLE Sample #: RW 1314111
ELLE Group #: 2099427
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Metals		**SW-846 6010C**	**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	N.D.	0.0160	1
07046	Barium	7440-39-3	0.0686	0.0010	1
07047	Beryllium	7440-41-7	N.D.	0.0010	1
07049	Cadmium	7440-43-9	N.D.	0.0010	1
07051	Chromium	7440-47-3	0.0023 J	0.0016	1
07052	Cobalt	7440-48-4	0.0086	0.0015	1
07053	Copper	7440-50-8	N.D.	0.0120	1
07055	Lead	7439-92-1	N.D.	0.0071	1
07060	Molybdenum	7439-98-7	N.D.	0.0020	1
07061	Nickel	7440-02-0	0.0253	0.0021	1
07036	Selenium	7782-49-2	N.D.	0.0160	1
07066	Silver	7440-22-4	N.D.	0.0050	1
07022	Thallium	7440-28-0	N.D.	0.0081	1
07071	Vanadium	7440-62-2	0.0027 J	0.0019	1
07072	Zinc	7440-66-6	0.0047 J	0.0037	1
		SW-846 7470A	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000050	1

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	TCL 4.3 VOCs	SW-846 8260B	1	N201422AA	05/22/2020 04:41	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N201422AA	05/22/2020 04:40	Sara E Johnson	1
14242	TCL 4.3 SVOCs	SW-846 8270D	1	20139WAD026	05/20/2020 13:28	Kira N Beck	1
00813	BNA Water Extraction	SW-846 3510C	1	20139WAD026	05/19/2020 08:23	Christine E Gleim	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	201360002A	05/16/2020 09:03	Timothy M Emrick	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	201360002A	05/15/2020 12:15	Shawn J McMullen	1
07044	Antimony	SW-846 6010C	1	201351404401	05/19/2020 20:08	Cindy M Gehman	1
07035	Arsenic	SW-846 6010C	1	201351404401	05/19/2020 20:08	Cindy M Gehman	1
07046	Barium	SW-846 6010C	1	201351404401	05/19/2020 20:08	Cindy M Gehman	1
07047	Beryllium	SW-846 6010C	1	201351404401	05/19/2020 20:08	Cindy M Gehman	1
07049	Cadmium	SW-846 6010C	1	201351404401	05/19/2020 20:08	Cindy M Gehman	1
07051	Chromium	SW-846 6010C	1	201351404401	05/19/2020 20:08	Cindy M Gehman	1
07052	Cobalt	SW-846 6010C	1	201351404401	05/19/2020 20:08	Cindy M Gehman	1
07053	Copper	SW-846 6010C	1	201351404401	05/20/2020 08:18	Lisa J Cooke	1
07055	Lead	SW-846 6010C	1	201351404401	05/19/2020 20:08	Cindy M Gehman	1
07060	Molybdenum	SW-846 6010C	1	201351404401	05/19/2020 20:08	Cindy M Gehman	1
07061	Nickel	SW-846 6010C	1	201351404401	05/19/2020 20:08	Cindy M Gehman	1
07036	Selenium	SW-846 6010C	1	201351404401	05/19/2020 20:08	Cindy M Gehman	1
07066	Silver	SW-846 6010C	1	201351404401	05/19/2020 20:08	Cindy M Gehman	1
07022	Thallium	SW-846 6010C	1	201351404401	05/19/2020 20:08	Cindy M Gehman	1

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/13/2020 16:25
Collection Date/Time: 05/12/2020 10:12

GES, Inc.
ELLE Sample #: RW 1314111
ELLE Group #: 2099427
Matrix: Groundwater

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07071	Vanadium	SW-846 6010C	1	201351404401	05/19/2020 20:08	Cindy M Gehman	1
07072	Zinc	SW-846 6010C	1	201351404401	05/19/2020 20:08	Cindy M Gehman	1
00259	Mercury	SW-846 7470A	1	201350571303	05/19/2020 08:55	Damary Valentin	1
14044	ICP-WW, 3005A (tot rec) - U345	SW-846 3005A	1	201351404401	05/19/2020 02:57	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	201350571303	05/14/2020 18:05	JoElla L Rice	1

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/13/2020 16:25
Collection Date/Time: 05/12/2020 11:38

GES, Inc.
ELLE Sample #: RW 1314112
ELLE Group #: 2099427
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acetone	67-64-1	N.D.	0.8	1
10335	Benzene	71-43-2	N.D.	0.2	1
10335	Bromodichloromethane	75-27-4	N.D.	0.2	1
10335	Bromoform	75-25-2	N.D.	2	1
10335	Bromomethane	74-83-9	N.D.	0.5	1
10335	2-Butanone	78-93-3	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	0.3	1
10335	Carbon Tetrachloride	56-23-5	N.D.	0.2	1
10335	Chlorobenzene	108-90-7	N.D.	0.2	1
10335	Chloroethane	75-00-3	N.D.	0.3	1
10335	Chloroform	67-66-3	N.D.	0.2	1
10335	Chloromethane	74-87-3	N.D.	0.3	1
10335	Cyclohexane	110-82-7	N.D.	2	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	0.4	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.3	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.	0.2	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.	0.2	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.	0.2	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	0.3	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.2	1
10335	1,2-Dichloroethane	107-06-2	N.D.	2	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.2	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.2	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.2	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.2	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.2	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.4	1
10335	Ethylbenzene	100-41-4	N.D.	0.2	1
10335	Freon 113	76-13-1	N.D.	2	1
10335	2-Hexanone	591-78-6	N.D.	3	1
10335	Isopropylbenzene	98-82-8	N.D.	0.3	1
10335	Methyl Acetate	79-20-9	N.D.	0.6	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.2	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	0.5	1
10335	Methylcyclohexane	108-87-2	N.D.	0.2	1
10335	Methylene Chloride	75-09-2	N.D.	0.2	1
10335	Styrene	100-42-5	N.D.	0.2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.2	1
10335	Tetrachloroethene	127-18-4	N.D.	0.2	1
10335	Toluene	108-88-3	N.D.	0.2	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.4	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.2	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.2	1

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/13/2020 16:25
Collection Date/Time: 05/12/2020 11:38

GES, Inc.
ELLE Sample #: RW 1314112
ELLE Group #: 2099427
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Trichloroethene	79-01-6	N.D.	0.2	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.4	1
10335	Vinyl Chloride	75-01-4	N.D.	0.4	1
10335	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	
14242	Acenaphthene	83-32-9	N.D.	0.1	1
14242	Acenaphthylene	208-96-8	N.D.	0.1	1
14242	Acetophenone	98-86-2	N.D.	4	1
14242	Anthracene	120-12-7	N.D.	0.1	1
14242	Atrazine	1912-24-9	N.D.	2	1
14242	Benzaldehyde	100-52-7	N.D.	3	1
14242	Benzo(a)anthracene	56-55-3	N.D.	0.1	1
14242	Benzo(a)pyrene	50-32-8	N.D.	0.1	1
14242	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	1
14242	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	1
14242	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	1
14242	1,1'-Biphenyl	92-52-4	N.D.	3	1
14242	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	1
14242	Butylbenzylphthalate	85-68-7	N.D.	2	1
14242	Di-n-butylphthalate	84-74-2	N.D.	2	1
14242	Caprolactam	105-60-2	N.D.	5	1
14242	Carbazole	86-74-8	N.D.	0.5	1
14242	4-Chloro-3-methylphenol	59-50-7	N.D.	2	1
14242	4-Chloroaniline	106-47-8	N.D.	4	1
14242	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	1
14242	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	1
14242	2-Chloronaphthalene	91-58-7	N.D.	0.4	1
14242	2-Chlorophenol	95-57-8	N.D.	0.5	1
14242	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	1
14242	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	0.5	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.				
14242	Chrysene	218-01-9	N.D.	0.1	1
14242	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	1
14242	Dibenzofuran	132-64-9	N.D.	0.5	1
14242	3,3'-Dichlorobenzidine	91-94-1	N.D.	3	1
14242	2,4-Dichlorophenol	120-83-2	N.D.	0.5	1
14242	Diethylphthalate	84-66-2	N.D.	2	1
14242	2,4-Dimethylphenol	105-67-9	N.D.	3	1
14242	Dimethylphthalate	131-11-3	N.D.	2	1
14242	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	8	1

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/13/2020 16:25
Collection Date/Time: 05/12/2020 11:38

GES, Inc.
ELLE Sample #: RW 1314112
ELLE Group #: 2099427
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	
14242	2,4-Dinitrophenol	51-28-5	N.D.	14	1
14242	2,4-Dinitrotoluene	121-14-2	N.D.	1	1
14242	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	1
14242	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	5	1
14242	Fluoranthene	206-44-0	N.D.	0.1	1
14242	Fluorene	86-73-7	N.D.	0.1	1
14242	Hexachlorobenzene	118-74-1	N.D.	0.1	1
14242	Hexachlorobutadiene	87-68-3	N.D.	0.5	1
14242	Hexachlorocyclopentadiene	77-47-4	N.D.	5	1
14242	Hexachloroethane	67-72-1	N.D.	1	1
14242	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	1
14242	Isophorone	78-59-1	N.D.	0.5	1
14242	2-Methylnaphthalene	91-57-6	N.D.	0.1	1
14242	2-Methylphenol	95-48-7	N.D.	0.5	1
14242	4-Methylphenol	106-44-5	N.D.	0.5	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.				
14242	Naphthalene	91-20-3	N.D.	0.1	1
14242	2-Nitroaniline	88-74-4	N.D.	2	1
14242	3-Nitroaniline	99-09-2	N.D.	3	1
14242	4-Nitroaniline	100-01-6	N.D.	0.9	1
14242	Nitrobenzene	98-95-3	N.D.	0.5	1
14242	2-Nitrophenol	88-75-5	N.D.	3	1
14242	4-Nitrophenol	100-02-7	N.D.	10	1
14242	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.7	1
14242	N-Nitrosodiphenylamine	86-30-6	N.D.	0.7	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.				
14242	Di-n-octylphthalate	117-84-0	N.D.	5	1
14242	Pentachlorophenol	87-86-5	N.D.	1	1
14242	Phenanthrene	85-01-8	N.D.	0.1	1
14242	Phenol	108-95-2	N.D.	0.5	1
14242	Pyrene	129-00-0	N.D.	0.1	1
14242	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	1
14242	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	1
	The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The following action was taken: The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the first trial.				
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/13/2020 16:25
Collection Date/Time: 05/12/2020 11:38

GES, Inc.
ELLE Sample #: RW 1314112
ELLE Group #: 2099427
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.	N.D.	53	1
Metals	**SW-846 6010C**		**mg/l**	**mg/l**	
07044	Antimony	7440-36-0	N.D.	0.0160	1
07035	Arsenic	7440-38-2	N.D.	0.0160	1
07046	Barium	7440-39-3	0.0237	0.0010	1
07047	Beryllium	7440-41-7	N.D.	0.0010	1
07049	Cadmium	7440-43-9	N.D.	0.0010	1
07051	Chromium	7440-47-3	0.0021 J	0.0016	1
07052	Cobalt	7440-48-4	0.0053	0.0015	1
07053	Copper	7440-50-8	N.D.	0.0120	1
07055	Lead	7439-92-1	N.D.	0.0071	1
07060	Molybdenum	7439-98-7	N.D.	0.0020	1
07061	Nickel	7440-02-0	0.0078 J	0.0021	1
07036	Selenium	7782-49-2	N.D.	0.0160	1
07066	Silver	7440-22-4	N.D.	0.0050	1
07022	Thallium	7440-28-0	N.D.	0.0081	1
07071	Vanadium	7440-62-2	N.D.	0.0019	1
07072	Zinc	7440-66-6	0.0078 J	0.0037	1
	SW-846 7470A		**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000050	1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	
00228	Sulfate	14808-79-8	852	150	500
	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
10335	TCL 4.3 VOCs	SW-846 8260B	1	4201431AA	05/22/2020 11:51	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	4201431AA	05/22/2020 11:50	Linda C Pape	1
14242	TCL 4.3 SVOCs	SW-846 8270D	1	20139WAD026	05/20/2020 13:57	Kira N Beck	1
00813	BNA Water Extraction	SW-846 3510C	1	20139WAD026	05/19/2020 08:23	Christine E Gleim	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	201360002A	05/16/2020 09:27	Timothy M Emrick	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	201360002A	05/15/2020 12:15	Shawn J McMullen	1
07044	Antimony	SW-846 6010C	1	201351404402	05/19/2020 05:31	Lisa J Cooke	1
07035	Arsenic	SW-846 6010C	1	201351404402	05/19/2020 05:31	Lisa J Cooke	1
07046	Barium	SW-846 6010C	1	201351404402	05/19/2020 05:31	Lisa J Cooke	1

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/13/2020 16:25
Collection Date/Time: 05/12/2020 11:38

GES, Inc.
ELLE Sample #: RW 1314112
ELLE Group #: 2099427
Matrix: Groundwater

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07047	Beryllium	SW-846 6010C	1	201351404402	05/19/2020 05:31	Lisa J Cooke	1
07049	Cadmium	SW-846 6010C	1	201351404402	05/19/2020 05:31	Lisa J Cooke	1
07051	Chromium	SW-846 6010C	1	201351404402	05/19/2020 05:31	Lisa J Cooke	1
07052	Cobalt	SW-846 6010C	1	201351404402	05/19/2020 05:31	Lisa J Cooke	1
07053	Copper	SW-846 6010C	1	201351404402	05/19/2020 05:31	Lisa J Cooke	1
07055	Lead	SW-846 6010C	1	201351404402	05/19/2020 05:31	Lisa J Cooke	1
07060	Molybdenum	SW-846 6010C	1	201351404402	05/19/2020 05:31	Lisa J Cooke	1
07061	Nickel	SW-846 6010C	1	201351404402	05/19/2020 05:31	Lisa J Cooke	1
07036	Selenium	SW-846 6010C	1	201351404402	05/19/2020 05:31	Lisa J Cooke	1
07066	Silver	SW-846 6010C	1	201351404402	05/19/2020 05:31	Lisa J Cooke	1
07022	Thallium	SW-846 6010C	1	201351404402	05/19/2020 05:31	Lisa J Cooke	1
07071	Vanadium	SW-846 6010C	1	201351404402	05/19/2020 05:31	Lisa J Cooke	1
07072	Zinc	SW-846 6010C	1	201351404402	05/19/2020 05:31	Lisa J Cooke	1
00259	Mercury	SW-846 7470A	1	201350571303	05/19/2020 08:57	Damary Valentin	1
14044	ICP-WW, 3005A (tot rec) - U345	SW-846 3005A	1	201351404402	05/18/2020 14:30	JoElla L Rice	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	201350571303	05/14/2020 18:05	JoElla L Rice	1
00228	Sulfate	EPA 300.0	1	20138135217B	05/18/2020 01:51	Kevin Litwa	500
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	20136002103A	05/16/2020 01:28	Jeremy L Bolf	1

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/13/2020 16:25
Collection Date/Time: 05/12/2020 12:57

GES, Inc.
ELLE Sample #: RW 1314113
ELLE Group #: 2099427
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acetone	67-64-1	N.D.	0.8	1
10335	Benzene	71-43-2	N.D.	0.2	1
10335	Bromodichloromethane	75-27-4	N.D.	0.2	1
10335	Bromoform	75-25-2	N.D.	2	1
10335	Bromomethane	74-83-9	N.D.	0.5	1
10335	2-Butanone	78-93-3	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	0.3	1
10335	Carbon Tetrachloride	56-23-5	N.D.	0.2	1
10335	Chlorobenzene	108-90-7	N.D.	0.2	1
10335	Chloroethane	75-00-3	N.D.	0.3	1
10335	Chloroform	67-66-3	N.D.	0.2	1
10335	Chloromethane	74-87-3	N.D.	0.3	1
10335	Cyclohexane	110-82-7	N.D.	2	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	0.4	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.3	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.	0.2	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.	0.2	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.	0.2	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	0.3	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.2	1
10335	1,2-Dichloroethane	107-06-2	N.D.	2	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.2	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.2	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.2	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.2	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.2	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.4	1
10335	Ethylbenzene	100-41-4	N.D.	0.2	1
10335	Freon 113	76-13-1	N.D.	2	1
10335	2-Hexanone	591-78-6	N.D.	3	1
10335	Isopropylbenzene	98-82-8	N.D.	0.3	1
10335	Methyl Acetate	79-20-9	N.D.	0.6	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.2	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	0.5	1
10335	Methylcyclohexane	108-87-2	N.D.	0.2	1
10335	Methylene Chloride	75-09-2	N.D.	0.2	1
10335	Styrene	100-42-5	N.D.	0.2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.2	1
10335	Tetrachloroethene	127-18-4	N.D.	0.2	1
10335	Toluene	108-88-3	N.D.	0.2	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.4	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.2	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.2	1

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/13/2020 16:25
Collection Date/Time: 05/12/2020 12:57

GES, Inc.
ELLE Sample #: RW 1314113
ELLE Group #: 2099427
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Trichloroethene	79-01-6	N.D.	0.2	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.4	1
10335	Vinyl Chloride	75-01-4	N.D.	0.4	1
10335	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	
14242	Acenaphthene	83-32-9	0.7	0.1	1
14242	Acenaphthylene	208-96-8	N.D.	0.1	1
14242	Acetophenone	98-86-2	N.D.	4	1
14242	Anthracene	120-12-7	N.D.	0.1	1
14242	Atrazine	1912-24-9	N.D.	2	1
14242	Benzaldehyde	100-52-7	N.D.	3	1
14242	Benzo(a)anthracene	56-55-3	N.D.	0.1	1
14242	Benzo(a)pyrene	50-32-8	N.D.	0.1	1
14242	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	1
14242	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	1
14242	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	1
14242	1,1'-Biphenyl	92-52-4	N.D.	3	1
14242	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	1
14242	Butylbenzylphthalate	85-68-7	N.D.	2	1
14242	Di-n-butylphthalate	84-74-2	N.D.	2	1
14242	Caprolactam	105-60-2	N.D.	5	1
14242	Carbazole	86-74-8	N.D.	0.5	1
14242	4-Chloro-3-methylphenol	59-50-7	N.D.	2	1
14242	4-Chloroaniline	106-47-8	N.D.	4	1
14242	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	1
14242	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	1
14242	2-Chloronaphthalene	91-58-7	N.D.	0.4	1
14242	2-Chlorophenol	95-57-8	N.D.	0.5	1
14242	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	1
14242	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	0.5	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.				
14242	Chrysene	218-01-9	N.D.	0.1	1
14242	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	1
14242	Dibenzofuran	132-64-9	N.D.	0.5	1
14242	3,3'-Dichlorobenzidine	91-94-1	N.D.	3	1
14242	2,4-Dichlorophenol	120-83-2	N.D.	0.5	1
14242	Diethylphthalate	84-66-2	N.D.	2	1
14242	2,4-Dimethylphenol	105-67-9	N.D.	3	1
14242	Dimethylphthalate	131-11-3	N.D.	2	1
14242	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	8	1

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/13/2020 16:25
Collection Date/Time: 05/12/2020 12:57

GES, Inc.
ELLE Sample #: RW 1314113
ELLE Group #: 2099427
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	
14242	2,4-Dinitrophenol	51-28-5	N.D.	14	1
14242	2,4-Dinitrotoluene	121-14-2	N.D.	1	1
14242	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	1
14242	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	5	1
14242	Fluoranthene	206-44-0	N.D.	0.1	1
14242	Fluorene	86-73-7	0.9	0.1	1
14242	Hexachlorobenzene	118-74-1	N.D.	0.1	1
14242	Hexachlorobutadiene	87-68-3	N.D.	0.5	1
14242	Hexachlorocyclopentadiene	77-47-4	N.D.	5	1
14242	Hexachloroethane	67-72-1	N.D.	1	1
14242	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	1
14242	Isophorone	78-59-1	N.D.	0.5	1
14242	2-Methylnaphthalene	91-57-6	N.D.	0.1	1
14242	2-Methylphenol	95-48-7	N.D.	0.5	1
14242	4-Methylphenol	106-44-5	N.D.	0.5	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.				
14242	Naphthalene	91-20-3	N.D.	0.1	1
14242	2-Nitroaniline	88-74-4	N.D.	2	1
14242	3-Nitroaniline	99-09-2	N.D.	3	1
14242	4-Nitroaniline	100-01-6	N.D.	0.9	1
14242	Nitrobenzene	98-95-3	N.D.	0.5	1
14242	2-Nitrophenol	88-75-5	N.D.	3	1
14242	4-Nitrophenol	100-02-7	N.D.	10	1
14242	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.7	1
14242	N-Nitrosodiphenylamine	86-30-6	N.D.	0.7	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.				
14242	Di-n-octylphthalate	117-84-0	N.D.	5	1
14242	Pentachlorophenol	87-86-5	N.D.	1	1
14242	Phenanthrene	85-01-8	N.D.	0.1	1
14242	Phenol	108-95-2	N.D.	0.5	1
14242	Pyrene	129-00-0	N.D.	0.1	1
14242	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	1
14242	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	1
GC Miscellaneous	**RSKSOP-175 modified**		**ug/l**	**ug/l**	
07105	Methane	74-82-8	770	15	5
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	1,100	53	1

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/13/2020 16:25
Collection Date/Time: 05/12/2020 12:57

GES, Inc.
ELLE Sample #: RW 1314113
ELLE Group #: 2099427
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Metals	**SW-846 6010C**		**mg/l**	**mg/l**	
07044	Antimony	7440-36-0	N.D.	0.0160	1
07035	Arsenic	7440-38-2	N.D.	0.0160	1
07046	Barium	7440-39-3	0.0335	0.0010	1
07047	Beryllium	7440-41-7	N.D.	0.0010	1
07049	Cadmium	7440-43-9	0.0016 J	0.0010	1
07051	Chromium	7440-47-3	N.D.	0.0016	1
07052	Cobalt	7440-48-4	0.0878	0.0015	1
07053	Copper	7440-50-8	N.D.	0.0120	1
07055	Lead	7439-92-1	N.D.	0.0071	1
07058	Manganese	7439-96-5	15.6	0.0030	1
07060	Molybdenum	7439-98-7	N.D.	0.0020	1
07061	Nickel	7440-02-0	0.0614	0.0021	1
07036	Selenium	7782-49-2	N.D.	0.0160	1
07066	Silver	7440-22-4	N.D.	0.0050	1
07022	Thallium	7440-28-0	N.D.	0.0405	5
07071	Vanadium	7440-62-2	0.0085 J	0.0019	1
07072	Zinc	7440-66-6	0.0102 J	0.0037	1
	SW-846 7470A		**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000050	1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	
00228	Sulfate	14808-79-8	826	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.	83.0	0.750	50
	SM 2320 B-2011		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5	n.a.	140	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
10335	TCL 4.3 VOCs	SW-846 8260B	1	4201431AA	05/22/2020 12:14	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	4201431AA	05/22/2020 12:13	Linda C Pape	1

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/13/2020 16:25
Collection Date/Time: 05/12/2020 12:57

GES, Inc.
ELLE Sample #: RW 1314113
ELLE Group #: 2099427
Matrix: Groundwater

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14242	TCL 4.3 SVOCs	SW-846 8270D	1	20139WAD026	05/20/2020 14:27	Kira N Beck	1
00813	BNA Water Extraction	SW-846 3510C	1	20139WAD026	05/19/2020 08:23	Christine E Gleim	1
07105	Methane	RSKSOP-175 modified	1	201360010A	05/18/2020 17:23	Esther Kathryn Lane	5
12858	DRO micro-ext 8015B	SW-846 8015B	1	201360002A	05/16/2020 09:50	Timothy M Emrick	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	201360002A	05/15/2020 12:15	Shawn J McMullen	1
07044	Antimony	SW-846 6010C	1	201351404401	05/19/2020 19:59	Cindy M Gehman	1
07035	Arsenic	SW-846 6010C	1	201351404401	05/19/2020 19:59	Cindy M Gehman	1
07046	Barium	SW-846 6010C	1	201351404401	05/19/2020 19:59	Cindy M Gehman	1
07047	Beryllium	SW-846 6010C	1	201351404401	05/19/2020 19:59	Cindy M Gehman	1
07049	Cadmium	SW-846 6010C	1	201351404401	05/19/2020 19:59	Cindy M Gehman	1
07051	Chromium	SW-846 6010C	1	201351404401	05/19/2020 19:59	Cindy M Gehman	1
07052	Cobalt	SW-846 6010C	1	201351404401	05/19/2020 19:59	Cindy M Gehman	1
07053	Copper	SW-846 6010C	1	201351404401	05/20/2020 08:03	Lisa J Cooke	1
07055	Lead	SW-846 6010C	1	201351404401	05/19/2020 19:59	Cindy M Gehman	1
07058	Manganese	SW-846 6010C	1	201351404401	05/19/2020 19:59	Cindy M Gehman	1
07060	Molybdenum	SW-846 6010C	1	201351404401	05/19/2020 19:59	Cindy M Gehman	1
07061	Nickel	SW-846 6010C	1	201351404401	05/19/2020 19:59	Cindy M Gehman	1
07036	Selenium	SW-846 6010C	1	201351404401	05/19/2020 19:59	Cindy M Gehman	1
07066	Silver	SW-846 6010C	1	201351404401	05/19/2020 19:59	Cindy M Gehman	1
07022	Thallium	SW-846 6010C	1	201351404401	05/19/2020 20:32	Cindy M Gehman	5
07071	Vanadium	SW-846 6010C	1	201351404401	05/19/2020 19:59	Cindy M Gehman	1
07072	Zinc	SW-846 6010C	1	201351404401	05/19/2020 19:59	Cindy M Gehman	1
00259	Mercury	SW-846 7470A	1	201350571303	05/19/2020 08:47	Damary Valentin	1
14044	ICP-WW, 3005A (tot rec) - U345	SW-846 3005A	1	201351404401	05/19/2020 02:57	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	201350571303	05/14/2020 18:05	JoElla L Rice	1
00228	Sulfate	EPA 300.0	1	20138135217A	05/17/2020 20:03	Kevin Litwa	500
00220	Nitrate Nitrogen	EPA 353.2	1	20138106101A	05/17/2020 07:13	Ashlynn M Cornelius	1
00219	Nitrite Nitrogen	EPA 353.2	1	20135105101A	05/14/2020 08:03	Jonathan Saul	1
14855	Ferrous Iron	SM 3500-Fe B-2011	1	20139127101A	05/18/2020 13:57	Jonathan Saul	50
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	20136002103A	05/16/2020 00:37	Jeremy L Bolf	1

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/13/2020 16:25
Collection Date/Time: 05/12/2020 14:28

GES, Inc.
ELLE Sample #: RW 1314114
ELLE Group #: 2099427
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acetone	67-64-1	8 J	0.8	1
10335	Benzene	71-43-2	N.D.	0.2	1
10335	Bromodichloromethane	75-27-4	N.D.	0.2	1
10335	Bromoform	75-25-2	N.D.	2	1
10335	Bromomethane	74-83-9	N.D.	0.5	1
10335	2-Butanone	78-93-3	1 J	1	1
10335	Carbon Disulfide	75-15-0	N.D.	0.3	1
10335	Carbon Tetrachloride	56-23-5	N.D.	0.2	1
10335	Chlorobenzene	108-90-7	N.D.	0.2	1
10335	Chloroethane	75-00-3	N.D.	0.3	1
10335	Chloroform	67-66-3	N.D.	0.2	1
10335	Chloromethane	74-87-3	N.D.	0.3	1
10335	Cyclohexane	110-82-7	N.D.	2	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	0.4	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.3	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.	0.2	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.	0.2	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.	0.2	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	0.3	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.2	1
10335	1,2-Dichloroethane	107-06-2	N.D.	2	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.2	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.2	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.2	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.2	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.2	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.4	1
10335	Ethylbenzene	100-41-4	N.D.	0.2	1
10335	Freon 113	76-13-1	N.D.	2	1
10335	2-Hexanone	591-78-6	N.D.	3	1
10335	Isopropylbenzene	98-82-8	N.D.	0.3	1
10335	Methyl Acetate	79-20-9	N.D.	0.6	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.2	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	0.5	1
10335	Methylcyclohexane	108-87-2	N.D.	0.2	1
10335	Methylene Chloride	75-09-2	N.D.	0.2	1
10335	Styrene	100-42-5	N.D.	0.2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.2	1
10335	Tetrachloroethene	127-18-4	N.D.	0.2	1
10335	Toluene	108-88-3	N.D.	0.2	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.4	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.2	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.2	1

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/13/2020 16:25
Collection Date/Time: 05/12/2020 14:28

GES, Inc.
ELLE Sample #: RW 1314114
ELLE Group #: 2099427
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Trichloroethene	79-01-6	N.D.	0.2	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.4	1
10335	Vinyl Chloride	75-01-4	N.D.	0.4	1
10335	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	
14242	Acenaphthene	83-32-9	N.D.	0.5	5
14242	Acenaphthylene	208-96-8	N.D.	0.5	5
14242	Acetophenone	98-86-2	N.D.	20	5
14242	Anthracene	120-12-7	N.D.	0.5	5
14242	Atrazine	1912-24-9	N.D.	10	5
14242	Benzaldehyde	100-52-7	N.D.	15	5
14242	Benzo(a)anthracene	56-55-3	N.D.	0.5	5
14242	Benzo(a)pyrene	50-32-8	N.D.	0.5	5
14242	Benzo(b)fluoranthene	205-99-2	N.D.	0.5	5
14242	Benzo(g,h,i)perylene	191-24-2	N.D.	0.5	5
14242	Benzo(k)fluoranthene	207-08-9	N.D.	0.5	5
14242	1,1'-Biphenyl	92-52-4	N.D.	15	5
14242	4-Bromophenyl-phenylether	101-55-3	N.D.	3	5
14242	Butylbenzylphthalate	85-68-7	N.D.	10	5
14242	Di-n-butylphthalate	84-74-2	N.D.	10	5
14242	Caprolactam	105-60-2	N.D.	25	5
14242	Carbazole	86-74-8	N.D.	3	5
14242	4-Chloro-3-methylphenol	59-50-7	N.D.	8	5
14242	4-Chloroaniline	106-47-8	N.D.	20	5
14242	bis(2-Chloroethoxy)methane	111-91-1	N.D.	3	5
14242	bis(2-Chloroethyl)ether	111-44-4	N.D.	3	5
14242	2-Chloronaphthalene	91-58-7	N.D.	2	5
14242	2-Chlorophenol	95-57-8	N.D.	3	5
14242	4-Chlorophenyl-phenylether	7005-72-3	N.D.	3	5
14242	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	3	5
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.				
14242	Chrysene	218-01-9	N.D.	0.5	5
14242	Dibenz(a,h)anthracene	53-70-3	N.D.	0.5	5
14242	Dibenzofuran	132-64-9	N.D.	3	5
14242	3,3'-Dichlorobenzidine	91-94-1	N.D.	15	5
14242	2,4-Dichlorophenol	120-83-2	N.D.	3	5
14242	Diethylphthalate	84-66-2	N.D.	10	5
14242	2,4-Dimethylphenol	105-67-9	N.D.	15	5
14242	Dimethylphthalate	131-11-3	N.D.	10	5
14242	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	40	5

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/13/2020 16:25
Collection Date/Time: 05/12/2020 14:28

GES, Inc.
ELLE Sample #: RW 1314114
ELLE Group #: 2099427
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	
14242	2,4-Dinitrophenol	51-28-5	N.D.	70	5
14242	2,4-Dinitrotoluene	121-14-2	N.D.	5	5
14242	2,6-Dinitrotoluene	606-20-2	N.D.	3	5
14242	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	25	5
14242	Fluoranthene	206-44-0	N.D.	0.5	5
14242	Fluorene	86-73-7	N.D.	0.5	5
14242	Hexachlorobenzene	118-74-1	N.D.	0.5	5
14242	Hexachlorobutadiene	87-68-3	N.D.	3	5
14242	Hexachlorocyclopentadiene	77-47-4	N.D.	25	5
14242	Hexachloroethane	67-72-1	N.D.	5	5
14242	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.5	5
14242	Isophorone	78-59-1	N.D.	3	5
14242	2-Methylnaphthalene	91-57-6	N.D.	0.5	5
14242	2-Methylphenol	95-48-7	N.D.	3	5
14242	4-Methylphenol	106-44-5	N.D.	3	5
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.				
14242	Naphthalene	91-20-3	N.D.	0.5	5
14242	2-Nitroaniline	88-74-4	N.D.	10	5
14242	3-Nitroaniline	99-09-2	N.D.	15	5
14242	4-Nitroaniline	100-01-6	N.D.	5	5
14242	Nitrobenzene	98-95-3	N.D.	3	5
14242	2-Nitrophenol	88-75-5	N.D.	15	5
14242	4-Nitrophenol	100-02-7	N.D.	50	5
14242	N-Nitroso-di-n-propylamine	621-64-7	N.D.	4	5
14242	N-Nitrosodiphenylamine	86-30-6	N.D.	4	5
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.				
14242	Di-n-octylphthalate	117-84-0	N.D.	25	5
14242	Pentachlorophenol	87-86-5	N.D.	5	5
14242	Phenanthrene	85-01-8	N.D.	0.5	5
14242	Phenol	108-95-2	N.D.	3	5
14242	Pyrene	129-00-0	N.D.	0.5	5
14242	2,4,5-Trichlorophenol	95-95-4	N.D.	3	5
14242	2,4,6-Trichlorophenol	88-06-2	N.D.	3	5
	Reporting limits were raised due to interference from the sample matrix.				
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	4,200	53	1
Metals	**SW-846 6010C**		**mg/l**	**mg/l**	

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/13/2020 16:25
Collection Date/Time: 05/12/2020 14:28

GES, Inc.
ELLE Sample #: RW 1314114
ELLE Group #: 2099427
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Metals		**SW-846 6010C**	**mg/l**	**mg/l**	
07044	Antimony	7440-36-0	N.D.	0.0160	1
07035	Arsenic	7440-38-2	N.D.	0.0160	1
07046	Barium	7440-39-3	0.342	0.0010	1
07047	Beryllium	7440-41-7	N.D.	0.0010	1
07049	Cadmium	7440-43-9	0.0028 J	0.0010	1
07051	Chromium	7440-47-3	N.D.	0.0016	1
07052	Cobalt	7440-48-4	0.0071	0.0015	1
07053	Copper	7440-50-8	N.D.	0.0120	1
07055	Lead	7439-92-1	N.D.	0.0071	1
07060	Molybdenum	7439-98-7	N.D.	0.0020	1
07061	Nickel	7440-02-0	0.0028 J	0.0021	1
07036	Selenium	7782-49-2	N.D.	0.0160	1
07066	Silver	7440-22-4	N.D.	0.0050	1
07022	Thallium	7440-28-0	N.D.	0.0081	1
07071	Vanadium	7440-62-2	0.0120	0.0019	1
07072	Zinc	7440-66-6	N.D.	0.0037	1
		SW-846 7470A	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000050	1

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	TCL 4.3 VOCs	SW-846 8260B	1	4201431AA	05/22/2020 12:37	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	4201431AA	05/22/2020 12:36	Linda C Pape	1
14242	TCL 4.3 SVOCs	SW-846 8270D	1	20139WAD026	05/22/2020 16:03	Linda M Hartenstine	5
00813	BNA Water Extraction	SW-846 3510C	1	20139WAD026	05/19/2020 08:23	Christine E Gleim	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	201360002A	05/16/2020 10:14	Timothy M Emrick	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	201360002A	05/15/2020 12:15	Shawn J McMullen	1
07044	Antimony	SW-846 6010C	1	201351404401	05/19/2020 20:05	Cindy M Gehman	1
07035	Arsenic	SW-846 6010C	1	201351404401	05/19/2020 20:05	Cindy M Gehman	1
07046	Barium	SW-846 6010C	1	201351404401	05/19/2020 20:05	Cindy M Gehman	1
07047	Beryllium	SW-846 6010C	1	201351404401	05/19/2020 20:05	Cindy M Gehman	1
07049	Cadmium	SW-846 6010C	1	201351404401	05/19/2020 20:05	Cindy M Gehman	1
07051	Chromium	SW-846 6010C	1	201351404401	05/19/2020 20:05	Cindy M Gehman	1
07052	Cobalt	SW-846 6010C	1	201351404401	05/19/2020 20:05	Cindy M Gehman	1
07053	Copper	SW-846 6010C	1	201351404401	05/20/2020 08:15	Lisa J Cooke	1
07055	Lead	SW-846 6010C	1	201351404401	05/19/2020 20:05	Cindy M Gehman	1
07060	Molybdenum	SW-846 6010C	1	201351404401	05/19/2020 20:05	Cindy M Gehman	1
07061	Nickel	SW-846 6010C	1	201351404401	05/19/2020 20:05	Cindy M Gehman	1
07036	Selenium	SW-846 6010C	1	201351404401	05/19/2020 20:05	Cindy M Gehman	1
07066	Silver	SW-846 6010C	1	201351404401	05/19/2020 20:05	Cindy M Gehman	1

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/13/2020 16:25
Collection Date/Time: 05/12/2020 14:28

GES, Inc.
ELLE Sample #: RW 1314114
ELLE Group #: 2099427
Matrix: Groundwater

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07022	Thallium	SW-846 6010C	1	201351404401	05/19/2020 20:05	Cindy M Gehman	1
07071	Vanadium	SW-846 6010C	1	201351404401	05/19/2020 20:05	Cindy M Gehman	1
07072	Zinc	SW-846 6010C	1	201351404401	05/19/2020 20:05	Cindy M Gehman	1
00259	Mercury	SW-846 7470A	1	201350571302	05/19/2020 11:18	Damary Valentin	1
14044	ICP-WW, 3005A (tot rec) - U345	SW-846 3005A	1	201351404401	05/19/2020 02:57	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	201350571302	05/19/2020 04:03	James L Mertz	1

Quality Control Summary

Client Name: GES, Inc. Group Number: 2099427
Reported: 05/28/2020 14:27

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: 4201431AA	Sample number(s): 1314112-1314114	
Acetone	N.D.	0.8
Benzene	N.D.	0.2
Bromodichloromethane	N.D.	0.2
Bromoform	N.D.	2
Bromomethane	N.D.	0.5
2-Butanone	N.D.	1
Carbon Disulfide	N.D.	0.3
Carbon Tetrachloride	N.D.	0.2
Chlorobenzene	N.D.	0.2
Chloroethane	N.D.	0.3
Chloroform	N.D.	0.2
Chloromethane	N.D.	0.3
Cyclohexane	N.D.	2
1,2-Dibromo-3-chloropropane	N.D.	1
Dibromochloromethane	N.D.	0.4
1,2-Dibromoethane	N.D.	0.3
1,2-Dichlorobenzene	N.D.	0.2
1,3-Dichlorobenzene	N.D.	0.2
1,4-Dichlorobenzene	N.D.	0.2
Dichlorodifluoromethane	N.D.	0.3
1,1-Dichloroethane	N.D.	0.2
1,2-Dichloroethane	N.D.	2
1,1-Dichloroethene	N.D.	0.2
cis-1,2-Dichloroethene	N.D.	0.2
trans-1,2-Dichloroethene	N.D.	0.2
1,2-Dichloropropane	N.D.	0.2
cis-1,3-Dichloropropene	N.D.	0.2
trans-1,3-Dichloropropene	N.D.	0.4
Ethylbenzene	N.D.	0.2
Freon 113	N.D.	2
2-Hexanone	N.D.	3
Isopropylbenzene	N.D.	0.3
Methyl Acetate	N.D.	0.6
Methyl Tertiary Butyl Ether	N.D.	0.2
4-Methyl-2-pentanone	N.D.	0.5
Methylcyclohexane	N.D.	0.2
Methylene Chloride	N.D.	0.2
Styrene	N.D.	0.2
1,1,2,2-Tetrachloroethane	N.D.	0.2

*- 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. Group Number: 2099427
Reported: 05/28/2020 14:27

Method Blank (continued)

Analysis Name	Result	MDL
	ug/l	ug/l
Tetrachloroethene	N.D.	0.2
Toluene	N.D.	0.2
1,2,4-Trichlorobenzene	N.D.	0.4
1,1,1-Trichloroethane	N.D.	0.2
1,1,2-Trichloroethane	N.D.	0.2
Trichloroethene	N.D.	0.2
Trichlorofluoromethane	N.D.	0.4
Vinyl Chloride	N.D.	0.4
Xylene (Total)	N.D.	0.5
Batch number: N201422AA	Sample number(s): 1314111	
Acetone	N.D.	0.8
Benzene	N.D.	0.2
Bromodichloromethane	N.D.	0.2
Bromoform	N.D.	2
Bromomethane	N.D.	0.5
2-Butanone	N.D.	1
Carbon Disulfide	N.D.	0.3
Carbon Tetrachloride	N.D.	0.2
Chlorobenzene	N.D.	0.2
Chloroethane	N.D.	0.3
Chloroform	N.D.	0.2
Chloromethane	N.D.	0.3
Cyclohexane	N.D.	2
1,2-Dibromo-3-chloropropane	N.D.	1
Dibromochloromethane	N.D.	0.4
1,2-Dibromoethane	N.D.	0.3
1,2-Dichlorobenzene	N.D.	0.2
1,3-Dichlorobenzene	N.D.	0.2
1,4-Dichlorobenzene	N.D.	0.2
Dichlorodifluoromethane	N.D.	0.3
1,1-Dichloroethane	N.D.	0.2
1,2-Dichloroethane	N.D.	2
1,1-Dichloroethene	N.D.	0.2
cis-1,2-Dichloroethene	N.D.	0.2
trans-1,2-Dichloroethene	N.D.	0.2
1,2-Dichloropropane	N.D.	0.2
cis-1,3-Dichloropropene	N.D.	0.2
trans-1,3-Dichloropropene	N.D.	0.4
Ethylbenzene	N.D.	0.2
Freon 113	N.D.	2
2-Hexanone	N.D.	3
Isopropylbenzene	N.D.	0.3
Methyl Acetate	N.D.	0.6
Methyl Tertiary Butyl Ether	N.D.	0.2

*- 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. Group Number: 2099427
Reported: 05/28/2020 14:27

Method Blank (continued)

Analysis Name	Result	MDL
	ug/l	ug/l
4-Methyl-2-pentanone	N.D.	0.5
Methylcyclohexane	N.D.	0.2
Methylene Chloride	N.D.	0.2
Styrene	N.D.	0.2
1,1,2,2-Tetrachloroethane	N.D.	0.2
Tetrachloroethene	N.D.	0.2
Toluene	N.D.	0.2
1,2,4-Trichlorobenzene	N.D.	0.4
1,1,1-Trichloroethane	N.D.	0.2
1,1,2-Trichloroethane	N.D.	0.2
Trichloroethene	N.D.	0.2
Trichlorofluoromethane	N.D.	0.4
Vinyl Chloride	N.D.	0.4
Xylene (Total)	N.D.	0.5
Batch number: 20139WAD026	Sample number(s): 1314111-1314114	
Acenaphthene	N.D.	0.1
Acenaphthylene	N.D.	0.1
Acetophenone	N.D.	4
Anthracene	N.D.	0.1
Atrazine	N.D.	2
Benzaldehyde	N.D.	3
Benzo(a)anthracene	N.D.	0.1
Benzo(a)pyrene	N.D.	0.1
Benzo(b)fluoranthene	N.D.	0.1
Benzo(g,h,i)perylene	N.D.	0.1
Benzo(k)fluoranthene	N.D.	0.1
1,1'-Biphenyl	N.D.	3
4-Bromophenyl-phenylether	N.D.	0.5
Butylbenzylphthalate	N.D.	2
Di-n-butylphthalate	N.D.	2
Caprolactam	N.D.	5
Carbazole	N.D.	0.5
4-Chloro-3-methylphenol	N.D.	2
4-Chloroaniline	N.D.	4
bis(2-Chloroethoxy)methane	N.D.	0.5
bis(2-Chloroethyl)ether	N.D.	0.5
2-Chloronaphthalene	N.D.	0.4
2-Chlorophenol	N.D.	0.5
4-Chlorophenyl-phenylether	N.D.	0.5
2,2'-oxybis(1-Chloropropane)	N.D.	0.5
Chrysene	N.D.	0.1
Dibenz(a,h)anthracene	N.D.	0.1
Dibenzofuran	N.D.	0.5
3,3'-Dichlorobenzidine	N.D.	3

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Quality Control Summary

Client Name: GES, Inc. Group Number: 2099427
Reported: 05/28/2020 14:27

Method Blank (continued)

Analysis Name	Result	MDL
	ug/l	ug/l
2,4-Dichlorophenol	N.D.	0.5
Diethylphthalate	N.D.	2
2,4-Dimethylphenol	N.D.	3
Dimethylphthalate	N.D.	2
4,6-Dinitro-2-methylphenol	N.D.	8
2,4-Dinitrophenol	N.D.	14
2,4-Dinitrotoluene	N.D.	1
2,6-Dinitrotoluene	N.D.	0.5
bis(2-Ethylhexyl)phthalate	N.D.	5
Fluoranthene	N.D.	0.1
Fluorene	N.D.	0.1
Hexachlorobenzene	N.D.	0.1
Hexachlorobutadiene	N.D.	0.5
Hexachlorocyclopentadiene	N.D.	5
Hexachloroethane	N.D.	1
Indeno(1,2,3-cd)pyrene	N.D.	0.1
Isophorone	N.D.	0.5
2-Methylnaphthalene	N.D.	0.1
2-Methylphenol	N.D.	0.5
4-Methylphenol	N.D.	0.5
Naphthalene	N.D.	0.1
2-Nitroaniline	N.D.	2
3-Nitroaniline	N.D.	3
4-Nitroaniline	N.D.	0.9
Nitrobenzene	N.D.	0.5
2-Nitrophenol	N.D.	3
4-Nitrophenol	N.D.	10
N-Nitroso-di-n-propylamine	N.D.	0.7
N-Nitrosodiphenylamine	N.D.	0.7
Di-n-octylphthalate	N.D.	5
Pentachlorophenol	N.D.	1
Phenanthrene	N.D.	0.1
Phenol	N.D.	0.5
Pyrene	N.D.	0.1
2,4,5-Trichlorophenol	N.D.	0.5
2,4,6-Trichlorophenol	N.D.	0.5
Batch number: 201360010A	Sample number(s): 1314113	
Methane	N.D.	3.0
Batch number: 201360002A	Sample number(s): 1314111-1314114	
DRO C10-C28	N.D.	53
	mg/l	mg/l
Batch number: 201350571302	Sample number(s): 1314114	
Mercury	N.D.	0.000050

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Quality Control Summary

Client Name: GES, Inc. Group Number: 2099427
Reported: 05/28/2020 14:27

Method Blank (continued)

Analysis Name	Result	MDL
	mg/l	mg/l
Batch number: 201350571303	Sample number(s): 1314111-1314113	
Mercury	N.D.	0.000050
Batch number: 201351404401	Sample number(s): 1314111,1314113-1314114	
Antimony	N.D.	0.0160
Arsenic	N.D.	0.0160
Barium	N.D.	0.0010
Beryllium	N.D.	0.0010
Cadmium	N.D.	0.0010
Chromium	0.0018 J	0.0016
Cobalt	N.D.	0.0015
Copper	N.D.	0.0120
Lead	N.D.	0.0071
Manganese	N.D.	0.0030
Molybdenum	N.D.	0.0020
Nickel	N.D.	0.0021
Selenium	N.D.	0.0160
Silver	N.D.	0.0050
Thallium	N.D.	0.0081
Vanadium	N.D.	0.0019
Zinc	N.D.	0.0037
Batch number: 201351404402	Sample number(s): 1314112	
Antimony	N.D.	0.0160
Arsenic	N.D.	0.0160
Barium	N.D.	0.0010
Beryllium	N.D.	0.0010
Cadmium	N.D.	0.0010
Chromium	N.D.	0.0016
Cobalt	N.D.	0.0015
Copper	N.D.	0.0120
Lead	N.D.	0.0071
Molybdenum	N.D.	0.0020
Nickel	N.D.	0.0021
Selenium	N.D.	0.0160
Silver	N.D.	0.0050
Thallium	N.D.	0.0081
Vanadium	N.D.	0.0019
Zinc	N.D.	0.0037
Batch number: 20135105101A	Sample number(s): 1314113	
Nitrite Nitrogen	N.D.	0.015
Batch number: 20138106101A	Sample number(s): 1314113	
Nitrate Nitrogen	N.D.	0.040
Batch number: 20138135217A	Sample number(s): 1314113	

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Quality Control Summary

Client Name: GES, Inc.
Reported: 05/28/2020 14:27

Group Number: 2099427

Method Blank (continued)

Analysis Name	Result	MDL
	mg/l	mg/l
Sulfate	N.D.	0.30
Batch number: 20138135217B	Sample number(s): 1314112	
Sulfate	N.D.	0.30
Batch number: 20139127101A	Sample number(s): 1314113	
Ferrous Iron	N.D.	0.0150
	mg/l as CaCO3	mg/l as CaCO3
Batch number: 20136002103A	Sample number(s): 1314112-1314113	
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: 4201431AA	Sample number(s): 1314112-1314114								
Acetone	150	139.91	150	135.53	93	90	54-157	3	30
Benzene	20	21.88	20	21.79	109	109	80-120	0	30
Bromodichloromethane	20	21.27	20	21.01	106	105	71-120	1	30
Bromoform	20	19.21	20	18.93	96	95	51-120	1	30
Bromomethane	20	14.57	20	13.47	73	67	53-128	8	30
2-Butanone	150	147.86	150	146.17	99	97	59-135	1	30
Carbon Disulfide	20	19.73	20	19.56	99	98	65-128	1	30
Carbon Tetrachloride	20	21.47	20	21.43	107	107	64-134	0	30
Chlorobenzene	20	21.21	20	21.29	106	106	80-120	0	30
Chloroethane	20	16.11	20	15.6	81	78	55-123	3	30
Chloroform	20	21.68	20	21.91	108	110	80-120	1	30
Chloromethane	20	19.79	20	19.54	99	98	56-121	1	30
Cyclohexane	20	20.97	20	21.05	105	105	68-126	0	30
1,2-Dibromo-3-chloropropane	20	19.3	20	19	96	95	47-131	2	30
Dibromochloromethane	20	19.91	20	19.87	100	99	71-120	0	30
1,2-Dibromoethane	20	20.43	20	20.24	102	101	77-120	1	30
1,2-Dichlorobenzene	20	20.39	20	19.93	102	100	80-120	2	30
1,3-Dichlorobenzene	20	20.42	20	20.03	102	100	80-120	2	30
1,4-Dichlorobenzene	20	20.54	20	20.07	103	100	80-120	2	30
Dichlorodifluoromethane	20	18.45	20	18.05	92	90	41-127	2	30
1,1-Dichloroethane	20	21.62	20	21.17	108	106	80-120	2	30
1,2-Dichloroethane	20	20.48	20	20.45	102	102	73-124	0	30
1,1-Dichloroethene	20	21.71	20	21.64	109	108	80-131	0	30
cis-1,2-Dichloroethene	20	22.93	20	22.75	115	114	80-125	1	30

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Quality Control Summary

Client Name: GES, Inc.
Reported: 05/28/2020 14:27

Group Number: 2099427

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
trans-1,2-Dichloroethene	20	21.62	20	21.86	108	109	80-126	1	30
1,2-Dichloropropane	20	21.73	20	21.83	109	109	80-120	0	30
cis-1,3-Dichloropropene	20	20.93	20	20.92	105	105	75-120	0	30
trans-1,3-Dichloropropene	20	19.05	20	19.04	95	95	67-120	0	30
Ethylbenzene	20	21.06	20	20.99	105	105	80-120	0	30
Freon 113	20	20.06	20	20.01	100	100	73-139	0	30
2-Hexanone	100	97.91	100	96.92	98	97	56-135	1	30
Isopropylbenzene	20	21.07	20	21.09	105	105	80-120	0	30
Methyl Acetate	20	19.8	20	19.92	99	100	54-136	1	30
Methyl Tertiary Butyl Ether	20	19.02	20	18.99	95	95	69-122	0	30
4-Methyl-2-pentanone	100	99.22	100	98.58	99	99	62-133	1	30
Methylcyclohexane	20	21.38	20	21.81	107	109	67-121	2	30
Methylene Chloride	20	21.98	20	21.87	110	109	80-120	1	30
Styrene	20	20.35	20	20.29	102	101	80-120	0	30
1,1,2,2-Tetrachloroethane	20	20.32	20	20.19	102	101	72-120	1	30
Tetrachloroethene	20	21.29	20	21.44	106	107	80-120	1	30
Toluene	20	20.89	20	20.88	104	104	80-120	0	30
1,2,4-Trichlorobenzene	20	19.38	20	18.59	97	93	63-120	4	30
1,1,1-Trichloroethane	20	21.37	20	21.29	107	106	67-126	0	30
1,1,2-Trichloroethane	20	20.94	20	20.91	105	105	80-120	0	30
Trichloroethene	20	21.93	20	21.6	110	108	80-120	2	30
Trichlorofluoromethane	20	20.37	20	20.24	102	101	55-135	1	30
Vinyl Chloride	20	20.72	20	20.14	104	101	56-120	3	30
Xylene (Total)	60	62.89	60	63.21	105	105	80-120	1	30
Batch number: N201422AA	Sample number(s): 1314111								
Acetone	150	190.01			127		54-157		
Benzene	20	20.18			101		80-120		
Bromodichloromethane	20	18.61			93		71-120		
Bromoform	20	18.7			94		51-120		
Bromomethane	20	15.84			79		53-128		
2-Butanone	150	145.89			97		59-135		
Carbon Disulfide	20	21.72			109		65-128		
Carbon Tetrachloride	20	19.01			95		64-134		
Chlorobenzene	20	20.56			103		80-120		
Chloroethane	20	16.98			85		55-123		
Chloroform	20	19.56			98		80-120		
Chloromethane	20	13.88			69		56-121		
Cyclohexane	20	22.48			112		68-126		
1,2-Dibromo-3-chloropropane	20	17.82			89		47-131		
Dibromochloromethane	20	19.98			100		71-120		
1,2-Dibromoethane	20	19.78			99		77-120		
1,2-Dichlorobenzene	20	20.53			103		80-120		
1,3-Dichlorobenzene	20	20.37			102		80-120		

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Quality Control Summary

Client Name: GES, Inc. Group Number: 2099427
Reported: 05/28/2020 14:27

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
1,4-Dichlorobenzene	20	20.49			102		80-120		
Dichlorodifluoromethane	20	12.05			60		41-127		
1,1-Dichloroethane	20	20.64			103		80-120		
1,2-Dichloroethane	20	17.64			88		73-124		
1,1-Dichloroethene	20	20.65			103		80-131		
cis-1,2-Dichloroethene	20	20.98			105		80-125		
trans-1,2-Dichloroethene	20	20.24			101		80-126		
1,2-Dichloropropane	20	21.14			106		80-120		
cis-1,3-Dichloropropene	20	18.94			95		75-120		
trans-1,3-Dichloropropene	20	18.55			93		67-120		
Ethylbenzene	20	20.28			101		80-120		
Freon 113	20	21.35			107		73-139		
2-Hexanone	100	96.99			97		56-135		
Isopropylbenzene	20	20.62			103		80-120		
Methyl Acetate	20	21.09			105		54-136		
Methyl Tertiary Butyl Ether	20	17.67			88		69-122		
4-Methyl-2-pentanone	100	94.17			94		62-133		
Methylcyclohexane	20	22.68			113		67-121		
Methylene Chloride	20	20.2			101		80-120		
Styrene	20	20.38			102		80-120		
1,1,2,2-Tetrachloroethane	20	21.03			105		72-120		
Tetrachloroethene	20	20.27			101		80-120		
Toluene	20	20.37			102		80-120		
1,2,4-Trichlorobenzene	20	19.6			98		63-120		
1,1,1-Trichloroethane	20	18.16			91		67-126		
1,1,2-Trichloroethane	20	20.69			103		80-120		
Trichloroethene	20	19.01			95		80-120		
Trichlorofluoromethane	20	18.48			92		55-135		
Vinyl Chloride	20	14.55			73		56-120		
Xylene (Total)	60	61.87			103		80-120		
	ug/l	**ug/l**	**ug/l**	**ug/l**					
Batch number: 20139WAD026	Sample number(s): 1314111-1314114								
Acenaphthene	50	38.18	50	46.27	76	93	52-114	19	30
Acenaphthylene	50	38.8	50	45.41	78	91	56-127	16	30
Acetophenone	50	35.6	50	39.39	71	79	61-114	10	30
Anthracene	50	39.96	50	46.17	80	92	67-116	14	30
Atrazine	50	41.23	50	48.32	82	97	71-133	16	30
Benzaldehyde	50	38.72	50	43.16	77	86	55-116	11	30
Benzo(a)anthracene	50	46.75	50	54.58	93	109	68-123	15	30
Benzo(a)pyrene	50	37.76	50	45.48	76	91	71-117	19	30
Benzo(b)fluoranthene	50	38.28	50	45.75	77	92	69-121	18	30
Benzo(g,h,i)perylene	50	36.34	50	43.91	73	88	60-119	19	30
Benzo(k)fluoranthene	50	39.17	50	47.08	78	94	69-122	18	30

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Quality Control Summary

Client Name: GES, Inc.
Reported: 05/28/2020 14:27

Group Number: 2099427

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
1,1'-Biphenyl	50	37.13	50	44.4	74	89	56-109	18	30
4-Bromophenyl-phenylether	50	38.53	50	43.34	77	87	60-114	12	30
Butylbenzylphthalate	50	35.54	50	44.04	71	88	40-133	21	30
Di-n-butylphthalate	50	36.21	50	43.15	72	86	58-125	17	30
Caprolactam	50	9.98	50	12.06	20	24	10-57	19	30
Carbazole	50	39.43	50	44.81	79	90	64-127	13	30
4-Chloro-3-methylphenol	50	35.33	50	41.75	71	83	60-118	17	30
4-Chloroaniline	50	29.77	50	33.51	60	67	45-111	12	30
bis(2-Chloroethoxy)methane	50	38.76	50	44	78	88	63-116	13	30
bis(2-Chloroethyl)ether	50	34.89	50	37.89	70	76	58-108	8	30
2-Chloronaphthalene	50	35.22	50	42.05	70	84	51-107	18	30
2-Chlorophenol	50	36.56	50	40.63	73	81	57-105	11	30
4-Chlorophenyl-phenylether	50	36.68	50	44.15	73	88	57-110	18	30
2,2'-oxybis(1-Chloropropane)	50	34.5	50	37.82	69	76	48-105	9	30
Chrysene	50	42.49	50	49.73	85	99	65-121	16	30
Dibenz(a,h)anthracene	50	38.49	50	46.57	77	93	63-128	19	30
Dibenzofuran	50	37.27	50	42.46	75	85	60-112	13	30
3,3'-Dichlorobenzidine	50	37.45	50	39.19	75	78	42-107	5	30
2,4-Dichlorophenol	50	34.16	50	41.15	68	82	65-110	19	30
Diethylphthalate	50	31.55	50	38.24	63	76	42-126	19	30
2,4-Dimethylphenol	50	30.32	50	35.64	61	71	53-93	16	30
Dimethylphthalate	50	22.86	50	29.59	46	59	10-134	26	30
4,6-Dinitro-2-methylphenol	50	40.77	50	50.03	82	100	63-129	20	30
2,4-Dinitrophenol	100	83.43	100	99.04	83	99	44-134	17	30
2,4-Dinitrotoluene	50	38.21	50	44.46	76	89	66-122	15	30
2,6-Dinitrotoluene	50	41.47	50	46.87	83	94	71-120	12	30
bis(2-Ethylhexyl)phthalate	50	45.86	50	54.88	92	110	61-129	18	30
Fluoranthene	50	38.29	50	45.46	77	91	63-122	17	30
Fluorene	50	36.71	50	42.7	73	85	56-115	15	30
Hexachlorobenzene	50	37.87	50	44.02	76	88	60-117	15	30
Hexachlorobutadiene	50	26.88	50	35.84	54	72	20-108	29	30
Hexachlorocyclopentadiene	100	23.42	100	30.19	23	30	10-91	25	30
Hexachloroethane	50	26.59	50	31.94	53	64	23-95	18	30
Indeno(1,2,3-cd)pyrene	50	37.9	50	46.61	76	93	59-123	21	30
Isophorone	50	36	50	42.01	72	84	63-120	15	30
2-Methylnaphthalene	50	34.52	50	41.67	69	83	51-107	19	30
2-Methylphenol	50	33.65	50	36.7	67	73	53-107	9	30
4-Methylphenol	50	30.21	50	32.76	60	66	49-108	8	30
Naphthalene	50	36.06	50	42.78	72	86	51-102	17	30
2-Nitroaniline	50	41.8	50	48.9	84	98	66-126	16	30
3-Nitroaniline	50	37.58	50	43.99	75	88	55-121	16	30
4-Nitroaniline	50	34.13	50	38.82	68	78	55-113	13	30
Nitrobenzene	50	34.73	50	40.81	69	82	59-109	16	30
2-Nitrophenol	50	41.35	50	45.87	83	92	63-111	10	30

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: GES, Inc. Group Number: 2099427
Reported: 05/28/2020 14:27

LCS/LCSD (continued)

Analysis Name	LCS Spike Added	LCS Conc	LCSD Spike Added	LCSD Conc	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
	ug/l	ug/l	ug/l	ug/l					
4-Nitrophenol	50	18.72	50	22.03	37	44	23-89	16	30
N-Nitroso-di-n-propylamine	50	35.01	50	38.88	70	78	58-120	10	30
N-Nitrosodiphenylamine	50	40.32	50	45.99	81	92	60-126	13	30
Di-n-octylphthalate	50	46.47	50	56.14	93	112	60-136	19	30
Pentachlorophenol	50	37.04	50	44.56	74	89	54-131	18	30
Phenanthrene	50	40.32	50	45.59	81	91	65-113	12	30
Phenol	50	17.5	50	18.37	35	37	19-79	5	30
Pyrene	50	38.91	50	44.81	78	90	65-115	14	30
2,4,5-Trichlorophenol	50	38.03	50	45.38	76	91	66-118	18	30
2,4,6-Trichlorophenol	50	39.77	50	49.27	80	99	69-117	21	30
	ug/l	ug/l	ug/l	ug/l					
Batch number: 201360010A	Sample number(s): 1314113								
Methane	59.42	59.8	59.42	61.81	101	104	85-115	3	20
	ug/l	ug/l	ug/l	ug/l					
Batch number: 201360002A	Sample number(s): 1314111-1314114								
DRO C10-C28	2857.87	1734.78	2857.87	1796.2	61	63	47-116	3	20
	mg/l	mg/l	mg/l	mg/l					
Batch number: 201350571302	Sample number(s): 1314114								
Mercury	0.00100	0.000877			88		80-110		
Batch number: 201350571303	Sample number(s): 1314111-1314113								
Mercury	0.00100	0.000857			86		80-110		
Batch number: 201351404401	Sample number(s): 1314111,1314113-1314114								
Antimony	0.100	0.104			104		80-120		
Arsenic	0.0600	0.0564			94		80-120		
Barium	0.0100	0.0101			101		80-120		
Beryllium	0.0100	0.00937			94		80-120		
Cadmium	0.0100	0.0104			104		80-120		
Chromium	0.0300	0.0308			103		80-120		
Cobalt	0.0100	0.0110			110		80-120		
Copper	0.0400	0.0414			103		80-120		
Lead	0.0300	0.0312			104		80-120		
Manganese	0.0200	0.0203			101		80-120		
Molybdenum	0.0200	0.0203			102		80-120		
Nickel	2.02	2.08			103		80-120		
Selenium	0.100	0.0901			90		80-120		
Silver	0.0200	0.0204			102		80-120		
Thallium	0.0600	0.0654			109		80-120		
Vanadium	0.0200	0.0206			103		80-120		
Zinc	0.440	0.428			97		80-120		

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: GES, Inc. Group Number: 2099427
Reported: 05/28/2020 14:27

LCS/LCSD (continued)

Analysis Name	LCS Spike Added mg/l	LCS Conc mg/l	LCSD Spike Added mg/l	LCSD Conc mg/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 201351404402	Sample number(s): 1314112								
Antimony	0.100	0.113			113		80-120		
Arsenic	0.0600	0.0594			99		80-120		
Barium	0.0100	0.0107			107		80-120		
Beryllium	0.0100	0.00985			99		80-120		
Cadmium	0.0100	0.0106			106		80-120		
Chromium	0.0300	0.0314			105		80-120		
Cobalt	0.0100	0.0106			106		80-120		
Copper	0.0400	0.0416			104		80-120		
Lead	0.0300	0.0322			107		80-120		
Molybdenum	0.0200	0.0217			108		80-120		
Nickel	2.02	2.09			103		80-120		
Selenium	0.100	0.0973			97		80-120		
Silver	0.0200	0.0201			101		80-120		
Thallium	0.0600	0.0615			102		80-120		
Vanadium	0.0200	0.0210			105		80-120		
Zinc	0.440	0.438			100		80-120		
	mg/l	**mg/l**	**mg/l**	**mg/l**					
Batch number: 20135105101A	Sample number(s): 1314113								
Nitrite Nitrogen	0.700	0.710			101		90-110		
Batch number: 20138106101A	Sample number(s): 1314113								
Nitrate Nitrogen	2.50	2.64			106		90-110		
Batch number: 20138135217A	Sample number(s): 1314113								
Sulfate	7.50	7.76			103		90-110		
Batch number: 20138135217B	Sample number(s): 1314112								
Sulfate	7.50	7.76			103		90-110		
Batch number: 20139127101A	Sample number(s): 1314113								
Ferrous Iron	1.00	0.931			93		90-110		
	mg/l as CaCO3	**mg/l as CaCO3**	**mg/l as CaCO3**	**mg/l as CaCO3**					
Batch number: 20136002103A	Sample number(s): 1314112-1314113								
Total Alkalinity to pH 4.5	188	165.96			88		82-106		

MS/MSD

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

*- 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: 05/28/2020 14:27

Group Number: 2099427

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: 201350571303	Sample number(s): 1314111-1314113 UNSPK: 1314113									
Mercury	N.D.	0.00100	0.000870	0.00100	0.000844	87	84	80-120	3	20
	mg/l	**mg/l**	**mg/l**	**mg/l**	**mg/l**					
Batch number: 20138106101A	Sample number(s): 1314113 UNSPK: 1314113									
Nitrate Nitrogen	N.D.	1.00	0.553			55*		90-110		
Batch number: 20138135217A	Sample number(s): 1314113 UNSPK: 1314113									
Sulfate	825.63	2500	2568.42			70*		90-110		
Batch number: 20138135217B	Sample number(s): 1314112 UNSPK: 1314112									
Sulfate	851.53	2500	3563.67			108		90-110		

Laboratory Duplicate

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

Analysis Name	BKG Conc	DUP Conc	DUP RPD	DUP RPD Max
	mg/l	**mg/l**		
Batch number: 201350571303	Sample number(s): 1314111-1314113 BKG: 1314113			
Mercury	N.D.	N.D.	0 (1)	20
	mg/l	**mg/l**		
Batch number: 20138106101A	Sample number(s): 1314113 BKG: 1314113			
Nitrate Nitrogen	N.D.	N.D.	0 (1)	10
Batch number: 20138135217A	Sample number(s): 1314113 BKG: 1314113			
Sulfate	825.63	832.29	1 (1)	15
Batch number: 20138135217B	Sample number(s): 1314112 BKG: 1314112			
Sulfate	851.53	821.39	4 (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: TCL 4.3 VOCs
Batch number: 4201431AA

*- 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. Group Number: 2099427
Reported: 05/28/2020 14:27

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: TCL 4.3 VOCs
Batch number: 4201431AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
1314112	102	103	96	97
1314113	102	102	97	96
1314114	103	105	96	98
Blank	102	102	96	96
LCS	101	103	98	99
LCSD	102	104	98	100
Limits:	80-120	80-120	80-120	80-120

Analysis Name: TCL 4.3 VOCs
Batch number: N201422AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
1314111	96	93	101	85
Blank	95	96	96	88
LCS	94	97	97	92
Limits:	80-120	80-120	80-120	80-120

Analysis Name: TCL 4.3 SVOCs
Batch number: 20139WAD026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
1314111	36	48	77	76	83	59
1314112	8*	9*	58	74	86	91
1314113	39	38	76	25*	69	90
1314114	15	8*	64	23*	40*	75
Blank	34	48	80	74	71	94
LCS	35	49	74	68	70	83
LCSD	36	51	82	79	82	97
Limits:	10-67	10-84	18-141	38-113	44-102	34-128

Analysis Name: DRO micro-ext 8015B
Batch number: 201360002A

	Orthoterphenyl
1314111	88
1314112	87
1314113	88
1314114	90
Blank	87
LCS	84
LCSD	82

*- 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. Group Number: 2099427
Reported: 05/28/2020 14:27

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: 201360002A

Limits: 52-132

Analysis Name: Methane
Batch number: 201360010A

	Propene
1314113	81
Blank	102
LCS	97
LCSD	98

Limits: 28-140

*- 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.

Environmental Analysis Request/Chain of Custody

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Acct. # 8390 Group # 2099427 Sample # 13/4111-14

Client: **Groundwater & Env. Services, Inc.**

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

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

Sampler: Kirk Marks | PWSID #:

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

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

For Lab Use Only

SF #: _____

SCR #: _____

Sample Identification	Collection Date	Collection Time	Grab	Composite	Matrix: Soil	Matrix: Sediment	Matrix: Water (Potable / Ground / Surface / NPDES)	Matrix: Other:	Total # of Containers	TPH-DRO C-10-28 (SW-846 8015B) H	Alkalinity (SM 2320B) -	Nitrate NO3 -1 & Nitrite NO2(EPA 353.2) -/S	Manganese (6010) N	Ferrous Iron Fe2+ (SM 3500-Fe B modified-1997) H	Sulfate SO4 2- (EPA 300.0) -	Methane (RSKSOP-175 modified) H	Full VOCs (8260) H	Full SVOCs (8270) -	Title 22 Metals(6010) + Hg(7470) N
MW-31/RW-31	5-12-2020	10:12	X				X		8	X							X	X	X
RW-28S	↓	11:38	X				X		10	X	X				X		X	X	X
MW-27		12:57	X				X		16	X	X	X	X	X	X	X	X	X	X
RW-123S	↓	14:28	X				X		8	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

Remarks

Turnaround Time Requested (TAT) (please check): Standard ☑ Rush ☐

(Rush TAT is subject to laboratory approval and surcharges.)

Date results are needed:

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

E-mail Address: midatlantic@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
Kirk Marks	5-13-2020	07:00	Denise Woodring	5-13-20	0900
Denise Woodring	5-13-20	1102	[illegible]	5/13/20	1102
[illegible]	5/13/20	16:00			
			[illegible]	5/13/20	1625

Relinquished by Commercial Carrier:

UPS _____ FedEx _____ Other _____

Temperature upon receipt 0.4-5.2 °C

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Sample Administration Receipt Documentation Log

Doc Log ID: 284420

Group Number(s): 2099427

Client: GES

Delivery and Receipt Information

Delivery Method:	ELLE Courier	Arrival Date:	05/13/2020
Number of Packages:	3	Number of Projects:	3
State/Province of Origin:	VA		

Arrival Condition Summary

Shipping Container Sealed:	No	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	No	Sample Date/Times match COC:	Yes
Samples Chilled:	Yes	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

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	DT42-01	0.8	DT	Wet	Y	Loose	N
2	Water	DT42-01	0.4	DT	Wet	Y	Loose	N
3	Water	46730061WS	5.2	IR	Wet	Y	Loose	N

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Lancaster, PA 17605-2425
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Explanation of Symbols and Abbreviations

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

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

<	less than
>	greater than
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.
ppb	parts per billion
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

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

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

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

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

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Data Qualifiers

Qualifier	Definition
C	Result confirmed by reanalysis
D1	Indicates for dual column analyses that the result is reported from column 1
D2	Indicates for dual column analyses that the result is reported from column 2
E	Concentration exceeds the calibration range
K1	Initial Calibration Blank is above the QC limit and the sample result is less than the LOQ
K2	Continuing Calibration Blank is above the QC limit and the sample result is less than the LOQ
K3	Initial Calibration Verification is above the QC limit and the sample result is less than the LOQ
K4	Continuing Calibration Verification is above the QC limit and the sample result is less than the LOQ
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: May 28, 2020 15:12

Project: NRG PRGS

Account #: 08390
Group Number: 2099428
PO Number: 0402919/51/206
Release Number: ORG # 0404
State of Sample Origin: VA

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

Respectfully Submitted,

Lynn M. Frederiksen
Principal Specialist Group Leader

(717) 556-7255

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SAMPLE INFORMATION

Client Sample Description	Sample Collection Date/Time	ELLE#
TW-07 Grab Groundwater	05/12/2020 09:10	1314115
MW-121-Grab Grab Groundwater	05/12/2020 10:00	1314116
MW-25/RW-25-Grab Grab Groundwater	05/12/2020 10:10	1314117
TW-06 Grab Groundwater	05/12/2020 11:00	1314118
MW-122 Grab Groundwater	05/12/2020 11:10	1314119
MW-05/RW-05 Grab Groundwater	05/12/2020 12:25	1314120
TW-03 Grab Groundwater	05/12/2020 12:40	1314121
RW-1 Grab Groundwater	05/12/2020 14:20	1314122

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

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/13/2020 16:25
Collection Date/Time: 05/12/2020 09:10

GES, Inc.
ELLE Sample #: RW 1314115
ELLE Group #: 2099428
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	
14242	Acenaphthene	83-32-9	N.D.	0.1	1
14242	Acenaphthylene	208-96-8	N.D.	0.1	1
14242	Acetophenone	98-86-2	N.D.	4	1
14242	Anthracene	120-12-7	N.D.	0.1	1
14242	Atrazine	1912-24-9	N.D.	2	1
14242	Benzaldehyde	100-52-7	N.D.	3	1
14242	Benzo(a)anthracene	56-55-3	N.D.	0.1	1
14242	Benzo(a)pyrene	50-32-8	N.D.	0.1	1
14242	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	1
14242	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	1
14242	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	1
14242	1,1'-Biphenyl	92-52-4	N.D.	3	1
14242	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	1
14242	Butylbenzylphthalate	85-68-7	N.D.	2	1
14242	Di-n-butylphthalate	84-74-2	N.D.	2	1
14242	Caprolactam	105-60-2	N.D.	5	1
14242	Carbazole	86-74-8	N.D.	0.5	1
14242	4-Chloro-3-methylphenol	59-50-7	N.D.	2	1
14242	4-Chloroaniline	106-47-8	N.D.	4	1
14242	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	1
14242	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	1
14242	2-Chloronaphthalene	91-58-7	N.D.	0.4	1
14242	2-Chlorophenol	95-57-8	N.D.	0.5	1
14242	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	1
14242	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	0.5	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.				
14242	Chrysene	218-01-9	N.D.	0.1	1
14242	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	1
14242	Dibenzofuran	132-64-9	N.D.	0.5	1
14242	3,3'-Dichlorobenzidine	91-94-1	N.D.	3	1
14242	2,4-Dichlorophenol	120-83-2	N.D.	0.5	1
14242	Diethylphthalate	84-66-2	N.D.	2	1
14242	2,4-Dimethylphenol	105-67-9	N.D.	3	1
14242	Dimethylphthalate	131-11-3	N.D.	2	1
14242	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	8	1
14242	2,4-Dinitrophenol	51-28-5	N.D.	14	1
14242	2,4-Dinitrotoluene	121-14-2	N.D.	1	1
14242	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	1
14242	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	5	1
14242	Fluoranthene	206-44-0	N.D.	0.1	1
14242	Fluorene	86-73-7	N.D.	0.1	1
14242	Hexachlorobenzene	118-74-1	N.D.	0.1	1
14242	Hexachlorobutadiene	87-68-3	N.D.	0.5	1
14242	Hexachlorocyclopentadiene	77-47-4	N.D.	5	1
14242	Hexachloroethane	67-72-1	N.D.	1	1
14242	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	1
14242	Isophorone	78-59-1	N.D.	0.5	1
14242	2-Methylnaphthalene	91-57-6	N.D.	0.1	1

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/13/2020 16:25
Collection Date/Time: 05/12/2020 09:10

GES, Inc.
ELLE Sample #: RW 1314115
ELLE Group #: 2099428
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	
14242	2-Methylphenol	95-48-7	N.D.	0.5	1
14242	4-Methylphenol	106-44-5	N.D.	0.5	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.				
14242	Naphthalene	91-20-3	N.D.	0.1	1
14242	2-Nitroaniline	88-74-4	N.D.	2	1
14242	3-Nitroaniline	99-09-2	N.D.	3	1
14242	4-Nitroaniline	100-01-6	N.D.	0.9	1
14242	Nitrobenzene	98-95-3	N.D.	0.5	1
14242	2-Nitrophenol	88-75-5	N.D.	3	1
14242	4-Nitrophenol	100-02-7	N.D.	10	1
14242	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.7	1
14242	N-Nitrosodiphenylamine	86-30-6	N.D.	0.7	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.				
14242	Di-n-octylphthalate	117-84-0	N.D.	5	1
14242	Pentachlorophenol	87-86-5	N.D.	1	1
14242	Phenanthrene	85-01-8	N.D.	0.1	1
14242	Phenol	108-95-2	N.D.	0.5	1
14242	Pyrene	129-00-0	N.D.	0.1	1
14242	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	1
14242	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	1
GC Miscellaneous	**RSKSOP-175 modified**		**ug/l**	**ug/l**	
07105	Methane	74-82-8	81	3.0	1
Metals	**SW-846 6010C**		**mg/l**	**mg/l**	
07044	Antimony	7440-36-0	N.D.	0.0160	1
07035	Arsenic	7440-38-2	N.D.	0.0160	1
07046	Barium	7440-39-3	0.0714	0.0010	1
07047	Beryllium	7440-41-7	N.D.	0.0010	1
07049	Cadmium	7440-43-9	0.0010 J	0.0010	1
07051	Chromium	7440-47-3	N.D.	0.0016	1
07052	Cobalt	7440-48-4	0.0429	0.0015	1
07053	Copper	7440-50-8	N.D.	0.0120	1
07055	Lead	7439-92-1	N.D.	0.0071	1
07058	Manganese	7439-96-5	3.64	0.0030	1
07060	Molybdenum	7439-98-7	N.D.	0.0020	1
07061	Nickel	7440-02-0	0.0247	0.0021	1
07036	Selenium	7782-49-2	N.D.	0.0160	1
07066	Silver	7440-22-4	N.D.	0.0050	1
07022	Thallium	7440-28-0	N.D.	0.0081	1
07071	Vanadium	7440-62-2	0.0034 J	0.0019	1
07072	Zinc	7440-66-6	0.0724	0.0037	1
	SW-846 7470A		**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000050	1

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/13/2020 16:25
Collection Date/Time: 05/12/2020 09:10

GES, Inc.
ELLE Sample #: RW 1314115
ELLE Group #: 2099428
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	
00228	Sulfate	14808-79-8	345	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[1]	n.a.	24.6	0.300	20
	SM 2320 B-2011		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5	n.a.	12.9	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
14242	TCL 4.3 SVOCs	SW-846 8270D	1	20139WAD026	05/20/2020 15:26	Kira N Beck	1
00813	BNA Water Extraction	SW-846 3510C	1	20139WAD026	05/19/2020 08:23	Christine E Gleim	1
07105	Methane	RSKSOP-175 modified	1	201360010A	05/15/2020 23:11	Esther Kathryn Lane	1
07044	Antimony	SW-846 6010C	1	201351404401	05/19/2020 20:02	Cindy M Gehman	1
07035	Arsenic	SW-846 6010C	1	201351404401	05/19/2020 20:02	Cindy M Gehman	1
07046	Barium	SW-846 6010C	1	201351404401	05/19/2020 20:02	Cindy M Gehman	1
07047	Beryllium	SW-846 6010C	1	201351404401	05/19/2020 20:02	Cindy M Gehman	1
07049	Cadmium	SW-846 6010C	1	201351404401	05/19/2020 20:02	Cindy M Gehman	1
07051	Chromium	SW-846 6010C	1	201351404401	05/19/2020 20:02	Cindy M Gehman	1
07052	Cobalt	SW-846 6010C	1	201351404401	05/19/2020 20:02	Cindy M Gehman	1
07053	Copper	SW-846 6010C	1	201351404401	05/20/2020 08:06	Lisa J Cooke	1
07055	Lead	SW-846 6010C	1	201351404401	05/19/2020 20:02	Cindy M Gehman	1
07058	Manganese	SW-846 6010C	1	201351404401	05/19/2020 20:02	Cindy M Gehman	1
07060	Molybdenum	SW-846 6010C	1	201351404401	05/19/2020 20:02	Cindy M Gehman	1
07061	Nickel	SW-846 6010C	1	201351404401	05/19/2020 20:02	Cindy M Gehman	1
07036	Selenium	SW-846 6010C	1	201351404401	05/19/2020 20:02	Cindy M Gehman	1
07066	Silver	SW-846 6010C	1	201351404401	05/19/2020 20:02	Cindy M Gehman	1
07022	Thallium	SW-846 6010C	1	201351404401	05/19/2020 20:02	Cindy M Gehman	1
07071	Vanadium	SW-846 6010C	1	201351404401	05/19/2020 20:02	Cindy M Gehman	1
07072	Zinc	SW-846 6010C	1	201351404401	05/19/2020 20:02	Cindy M Gehman	1
00259	Mercury	SW-846 7470A	1	201350571302	05/19/2020 11:02	Damary Valentin	1
14044	ICP-WW, 3005A (tot rec) - U345	SW-846 3005A	1	201351404401	05/19/2020 02:57	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	201350571302	05/19/2020 04:03	James L Mertz	1
00228	Sulfate	EPA 300.0	2	20138135217B	05/20/2020 06:27	Samantha Faverio	200
00220	Nitrate Nitrogen	EPA 353.2	1	20138106101A	05/17/2020 07:17	Ashlynn M Cornelius	1
00219	Nitrite Nitrogen	EPA 353.2	1	20135105101A	05/14/2020 07:59	Jonathan Saul	1
14855	Ferrous Iron	SM 3500-Fe B-2011	1	20139127101A	05/18/2020 10:23	Jonathan Saul	20
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	20136002103A	05/16/2020 00:50	Jeremy L Bolf	1

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/13/2020 16:25
Collection Date/Time: 05/12/2020 10:00

GES, Inc.
ELLE Sample #: RW 1314116
ELLE Group #: 2099428
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.	27,000	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	201360002A	05/16/2020 10:38	Timothy M Emrick	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	201360002A	05/15/2020 12:15	Shawn J McMullen	1

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/13/2020 16:25
Collection Date/Time: 05/12/2020 10:10

GES, Inc.
ELLE Sample #: RW 1314117
ELLE Group #: 2099428
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.	53,000	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	201360002A	05/16/2020 11:02	Timothy M Emrick	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	201360002A	05/15/2020 12:15	Shawn J McMullen	1

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/13/2020 16:25
Collection Date/Time: 05/12/2020 11:00

GES, Inc.
ELLE Sample #: RW 1314118
ELLE Group #: 2099428
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	
14242	Acenaphthene	83-32-9	N.D.	0.1	1
14242	Acenaphthylene	208-96-8	N.D.	0.1	1
14242	Acetophenone	98-86-2	N.D.	4	1
14242	Anthracene	120-12-7	N.D.	0.1	1
14242	Atrazine	1912-24-9	N.D.	2	1
14242	Benzaldehyde	100-52-7	N.D.	3	1
14242	Benzo(a)anthracene	56-55-3	N.D.	0.1	1
14242	Benzo(a)pyrene	50-32-8	N.D.	0.1	1
14242	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	1
14242	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	1
14242	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	1
14242	1,1'-Biphenyl	92-52-4	N.D.	3	1
14242	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	1
14242	Butylbenzylphthalate	85-68-7	N.D.	2	1
14242	Di-n-butylphthalate	84-74-2	N.D.	2	1
14242	Caprolactam	105-60-2	N.D.	5	1
14242	Carbazole	86-74-8	N.D.	0.5	1
14242	4-Chloro-3-methylphenol	59-50-7	N.D.	2	1
14242	4-Chloroaniline	106-47-8	N.D.	4	1
14242	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	1
14242	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	1
14242	2-Chloronaphthalene	91-58-7	N.D.	0.4	1
14242	2-Chlorophenol	95-57-8	N.D.	0.5	1
14242	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	1
14242	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	0.5	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.				
14242	Chrysene	218-01-9	N.D.	0.1	1
14242	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	1
14242	Dibenzofuran	132-64-9	N.D.	0.5	1
14242	3,3'-Dichlorobenzidine	91-94-1	N.D.	3	1
14242	2,4-Dichlorophenol	120-83-2	N.D.	0.5	1
14242	Diethylphthalate	84-66-2	N.D.	2	1
14242	2,4-Dimethylphenol	105-67-9	N.D.	3	1
14242	Dimethylphthalate	131-11-3	N.D.	2	1
14242	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	8	1
14242	2,4-Dinitrophenol	51-28-5	N.D.	14	1
14242	2,4-Dinitrotoluene	121-14-2	N.D.	1	1
14242	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	1
14242	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	5	1
14242	Fluoranthene	206-44-0	N.D.	0.1	1
14242	Fluorene	86-73-7	0.8	0.1	1
14242	Hexachlorobenzene	118-74-1	N.D.	0.1	1
14242	Hexachlorobutadiene	87-68-3	N.D.	0.5	1
14242	Hexachlorocyclopentadiene	77-47-4	N.D.	5	1
14242	Hexachloroethane	67-72-1	N.D.	1	1
14242	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	1
14242	Isophorone	78-59-1	N.D.	0.5	1
14242	2-Methylnaphthalene	91-57-6	N.D.	0.1	1

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/13/2020 16:25
Collection Date/Time: 05/12/2020 11:00

GES, Inc.
ELLE Sample #: RW 1314118
ELLE Group #: 2099428
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	
14242	2-Methylphenol	95-48-7	N.D.	0.5	1
14242	4-Methylphenol	106-44-5	N.D.	0.5	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.				
14242	Naphthalene	91-20-3	N.D.	0.1	1
14242	2-Nitroaniline	88-74-4	N.D.	2	1
14242	3-Nitroaniline	99-09-2	N.D.	3	1
14242	4-Nitroaniline	100-01-6	N.D.	0.9	1
14242	Nitrobenzene	98-95-3	N.D.	0.5	1
14242	2-Nitrophenol	88-75-5	N.D.	3	1
14242	4-Nitrophenol	100-02-7	N.D.	10	1
14242	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.7	1
14242	N-Nitrosodiphenylamine	86-30-6	N.D.	0.7	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.				
14242	Di-n-octylphthalate	117-84-0	N.D.	5	1
14242	Pentachlorophenol	87-86-5	N.D.	1	1
14242	Phenanthrene	85-01-8	0.3 J	0.1	1
14242	Phenol	108-95-2	N.D.	0.5	1
14242	Pyrene	129-00-0	N.D.	0.1	1
14242	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	1
14242	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	1
GC Miscellaneous	**RSKSOP-175 modified**		**ug/l**	**ug/l**	
07105	Methane	74-82-8	43	3.0	1
Metals	**SW-846 6010C**		**mg/l**	**mg/l**	
07044	Antimony	7440-36-0	N.D.	0.0160	1
07035	Arsenic	7440-38-2	N.D.	0.0160	1
07046	Barium	7440-39-3	0.0416	0.0010	1
07047	Beryllium	7440-41-7	N.D.	0.0010	1
07049	Cadmium	7440-43-9	N.D.	0.0010	1
07051	Chromium	7440-47-3	N.D.	0.0016	1
07052	Cobalt	7440-48-4	0.0066	0.0015	1
07053	Copper	7440-50-8	N.D.	0.0120	1
07055	Lead	7439-92-1	N.D.	0.0071	1
07058	Manganese	7439-96-5	0.994	0.0030	1
07060	Molybdenum	7439-98-7	N.D.	0.0020	1
07061	Nickel	7440-02-0	0.0083 J	0.0021	1
07036	Selenium	7782-49-2	N.D.	0.0160	1
07066	Silver	7440-22-4	N.D.	0.0050	1
07022	Thallium	7440-28-0	N.D.	0.0081	1
07071	Vanadium	7440-62-2	N.D.	0.0019	1
07072	Zinc	7440-66-6	0.225	0.0037	1
	SW-846 7470A		**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000050	1

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/13/2020 16:25
Collection Date/Time: 05/12/2020 11:00

GES, Inc.
ELLE Sample #: RW 1314118
ELLE Group #: 2099428
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	
00228	Sulfate	14808-79-8	210	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[1]	n.a.	54.0	0.750	50
	SM 2320 B-2011		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5	n.a.	55.6	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
14242	TCL 4.3 SVOCs	SW-846 8270D	1	20139WAD026	05/20/2020 15:55	Kira N Beck	1
00813	BNA Water Extraction	SW-846 3510C	1	20139WAD026	05/19/2020 08:23	Christine E Gleim	1
07105	Methane	RSKSOP-175 modified	1	201360010A	05/15/2020 23:30	Esther Kathryn Lane	1
07044	Antimony	SW-846 6010C	1	201351404402	05/19/2020 05:28	Lisa J Cooke	1
07035	Arsenic	SW-846 6010C	1	201351404402	05/19/2020 05:28	Lisa J Cooke	1
07046	Barium	SW-846 6010C	1	201351404402	05/19/2020 05:28	Lisa J Cooke	1
07047	Beryllium	SW-846 6010C	1	201351404402	05/19/2020 05:28	Lisa J Cooke	1
07049	Cadmium	SW-846 6010C	1	201351404402	05/19/2020 05:28	Lisa J Cooke	1
07051	Chromium	SW-846 6010C	1	201351404402	05/19/2020 05:28	Lisa J Cooke	1
07052	Cobalt	SW-846 6010C	1	201351404402	05/19/2020 05:28	Lisa J Cooke	1
07053	Copper	SW-846 6010C	1	201351404402	05/19/2020 05:28	Lisa J Cooke	1
07055	Lead	SW-846 6010C	1	201351404402	05/19/2020 05:28	Lisa J Cooke	1
07058	Manganese	SW-846 6010C	1	201351404402	05/19/2020 05:28	Lisa J Cooke	1
07060	Molybdenum	SW-846 6010C	1	201351404402	05/19/2020 05:28	Lisa J Cooke	1
07061	Nickel	SW-846 6010C	1	201351404402	05/19/2020 05:28	Lisa J Cooke	1
07036	Selenium	SW-846 6010C	1	201351404402	05/19/2020 05:28	Lisa J Cooke	1
07066	Silver	SW-846 6010C	1	201351404402	05/19/2020 05:28	Lisa J Cooke	1
07022	Thallium	SW-846 6010C	1	201351404402	05/19/2020 05:28	Lisa J Cooke	1
07071	Vanadium	SW-846 6010C	1	201351404402	05/19/2020 05:28	Lisa J Cooke	1
07072	Zinc	SW-846 6010C	1	201351404402	05/19/2020 05:28	Lisa J Cooke	1
00259	Mercury	SW-846 7470A	1	201350571303	05/19/2020 09:09	Damary Valentin	1
14044	ICP-WW, 3005A (tot rec) - U345	SW-846 3005A	1	201351404402	05/18/2020 14:30	JoElla L Rice	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	201350571303	05/14/2020 18:05	JoElla L Rice	1
00228	Sulfate	EPA 300.0	1	20139135117A	05/18/2020 11:36	Kevin Litwa	50
00220	Nitrate Nitrogen	EPA 353.2	1	20138106101A	05/17/2020 07:18	Ashlynn M Cornelius	1
00219	Nitrite Nitrogen	EPA 353.2	1	20135105101A	05/14/2020 08:01	Jonathan Saul	1
14855	Ferrous Iron	SM 3500-Fe B-2011	1	20139127101A	05/18/2020 13:56	Jonathan Saul	50
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	20136002103A	05/16/2020 00:43	Jeremy L Bolf	1

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/13/2020 16:25
Collection Date/Time: 05/12/2020 11:10

GES, Inc.
ELLE Sample #: RW 1314119
ELLE Group #: 2099428
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acetone	67-64-1	N.D.	0.8	1
10335	Benzene	71-43-2	N.D.	0.2	1
10335	Bromodichloromethane	75-27-4	N.D.	0.2	1
10335	Bromoform	75-25-2	N.D.	2	1
10335	Bromomethane	74-83-9	N.D.	0.5	1
10335	2-Butanone	78-93-3	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	0.3	1
10335	Carbon Tetrachloride	56-23-5	N.D.	0.2	1
10335	Chlorobenzene	108-90-7	N.D.	0.2	1
10335	Chloroethane	75-00-3	N.D.	0.3	1
10335	Chloroform	67-66-3	N.D.	0.2	1
10335	Chloromethane	74-87-3	N.D.	0.3	1
10335	Cyclohexane	110-82-7	N.D.	2	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	0.4	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.3	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.	0.2	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.	0.2	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.	0.2	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	0.3	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.2	1
10335	1,2-Dichloroethane	107-06-2	N.D.	2	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.2	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.2	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.2	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.2	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.2	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.4	1
10335	Ethylbenzene	100-41-4	N.D.	0.2	1
10335	Freon 113	76-13-1	N.D.	2	1
10335	2-Hexanone	591-78-6	N.D.	3	1
10335	Isopropylbenzene	98-82-8	N.D.	0.3	1
10335	Methyl Acetate	79-20-9	N.D.	0.6	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.2	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	0.5	1
10335	Methylcyclohexane	108-87-2	N.D.	0.2	1
10335	Methylene Chloride	75-09-2	N.D.	0.2	1
10335	Styrene	100-42-5	N.D.	0.2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.2	1
10335	Tetrachloroethene	127-18-4	N.D.	0.2	1
10335	Toluene	108-88-3	N.D.	0.2	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.4	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.2	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.2	1
10335	Trichloroethene	79-01-6	N.D.	0.2	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.4	1
10335	Vinyl Chloride	75-01-4	N.D.	0.4	1
10335	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/13/2020 16:25
Collection Date/Time: 05/12/2020 11:10

GES, Inc.
ELLE Sample #: RW 1314119
ELLE Group #: 2099428
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	
14242	Acenaphthene	83-32-9	N.D.	0.1	1
14242	Acenaphthylene	208-96-8	N.D.	0.1	1
14242	Acetophenone	98-86-2	N.D.	4	1
14242	Anthracene	120-12-7	N.D.	0.1	1
14242	Atrazine	1912-24-9	N.D.	2	1
14242	Benzaldehyde	100-52-7	N.D.	3	1
14242	Benzo(a)anthracene	56-55-3	N.D.	0.1	1
14242	Benzo(a)pyrene	50-32-8	N.D.	0.1	1
14242	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	1
14242	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	1
14242	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	1
14242	1,1'-Biphenyl	92-52-4	N.D.	3	1
14242	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	1
14242	Butylbenzylphthalate	85-68-7	N.D.	2	1
14242	Di-n-butylphthalate	84-74-2	N.D.	2	1
14242	Caprolactam	105-60-2	N.D.	5	1
14242	Carbazole	86-74-8	N.D.	0.5	1
14242	4-Chloro-3-methylphenol	59-50-7	N.D.	2	1
14242	4-Chloroaniline	106-47-8	N.D.	4	1
14242	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	1
14242	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	1
14242	2-Chloronaphthalene	91-58-7	N.D.	0.4	1
14242	2-Chlorophenol	95-57-8	N.D.	0.5	1
14242	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	1
14242	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	0.5	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.				
14242	Chrysene	218-01-9	N.D.	0.1	1
14242	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	1
14242	Dibenzofuran	132-64-9	N.D.	0.5	1
14242	3,3'-Dichlorobenzidine	91-94-1	N.D.	3	1
14242	2,4-Dichlorophenol	120-83-2	N.D.	0.5	1
14242	Diethylphthalate	84-66-2	N.D.	2	1
14242	2,4-Dimethylphenol	105-67-9	N.D.	3	1
14242	Dimethylphthalate	131-11-3	N.D.	2	1
14242	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	8	1
14242	2,4-Dinitrophenol	51-28-5	N.D.	14	1
14242	2,4-Dinitrotoluene	121-14-2	N.D.	1	1
14242	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	1
14242	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	5	1
14242	Fluoranthene	206-44-0	N.D.	0.1	1
14242	Fluorene	86-73-7	0.7	0.1	1
14242	Hexachlorobenzene	118-74-1	N.D.	0.1	1
14242	Hexachlorobutadiene	87-68-3	N.D.	0.5	1
14242	Hexachlorocyclopentadiene	77-47-4	N.D.	5	1
14242	Hexachloroethane	67-72-1	N.D.	1	1
14242	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	1
14242	Isophorone	78-59-1	N.D.	0.5	1
14242	2-Methylnaphthalene	91-57-6	N.D.	0.1	1

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/13/2020 16:25
Collection Date/Time: 05/12/2020 11:10

GES, Inc.
ELLE Sample #: RW 1314119
ELLE Group #: 2099428
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	
14242	2-Methylphenol	95-48-7	N.D.	0.5	1
14242	4-Methylphenol	106-44-5	N.D.	0.5	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.				
14242	Naphthalene	91-20-3	N.D.	0.1	1
14242	2-Nitroaniline	88-74-4	N.D.	2	1
14242	3-Nitroaniline	99-09-2	N.D.	3	1
14242	4-Nitroaniline	100-01-6	N.D.	0.9	1
14242	Nitrobenzene	98-95-3	N.D.	0.5	1
14242	2-Nitrophenol	88-75-5	N.D.	3	1
14242	4-Nitrophenol	100-02-7	N.D.	10	1
14242	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.7	1
14242	N-Nitrosodiphenylamine	86-30-6	N.D.	0.7	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.				
14242	Di-n-octylphthalate	117-84-0	N.D.	5	1
14242	Pentachlorophenol	87-86-5	N.D.	1	1
14242	Phenanthrene	85-01-8	N.D.	0.1	1
14242	Phenol	108-95-2	N.D.	0.5	1
14242	Pyrene	129-00-0	N.D.	0.1	1
14242	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	1
14242	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	1
GC Miscellaneous	**RSKSOP-175 modified**		**ug/l**	**ug/l**	
07105	Methane	74-82-8	1,700	30	10
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	840	53	1
Metals	**SW-846 6010C**		**mg/l**	**mg/l**	
07044	Antimony	7440-36-0	N.D.	0.0160	1
07035	Arsenic	7440-38-2	N.D.	0.0160	1
07046	Barium	7440-39-3	0.0827	0.0010	1
07047	Beryllium	7440-41-7	N.D.	0.0010	1
07049	Cadmium	7440-43-9	N.D.	0.0010	1
07051	Chromium	7440-47-3	N.D.	0.0016	1
07052	Cobalt	7440-48-4	0.0130	0.0015	1
07053	Copper	7440-50-8	N.D.	0.0120	1
07055	Lead	7439-92-1	N.D.	0.0071	1
07058	Manganese	7439-96-5	5.14	0.0030	1
07060	Molybdenum	7439-98-7	N.D.	0.0020	1
07061	Nickel	7440-02-0	0.0109	0.0021	1
07036	Selenium	7782-49-2	N.D.	0.0160	1
07066	Silver	7440-22-4	N.D.	0.0050	1
07022	Thallium	7440-28-0	N.D.	0.0081	1
07071	Vanadium	7440-62-2	N.D.	0.0019	1
07072	Zinc	7440-66-6	0.0055 J	0.0037	1

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/13/2020 16:25
Collection Date/Time: 05/12/2020 11:10

GES, Inc.
ELLE Sample #: RW 1314119
ELLE Group #: 2099428
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Metals	**SW-846 7470A**		**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000050	1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	
00228	Sulfate	14808-79-8	166	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[1]	n.a.	48.6	0.750	50
	SM 2320 B-2011		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5	n.a.	306	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
10335	TCL 4.3 VOCs	SW-846 8260B	1	4201431AA	05/22/2020 12:59	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	4201431AA	05/22/2020 12:58	Linda C Pape	1
14242	TCL 4.3 SVOCs	SW-846 8270D	1	20139WAD026	05/20/2020 16:25	Kira N Beck	1
00813	BNA Water Extraction	SW-846 3510C	1	20139WAD026	05/19/2020 08:23	Christine E Gleim	1
07105	Methane	RSKSOP-175 modified	1	201360010A	05/18/2020 17:39	Esther Kathryn Lane	10
12858	DRO micro-ext 8015B	SW-846 8015B	1	201360002A	05/16/2020 11:26	Timothy M Emrick	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	201360002A	05/15/2020 12:15	Shawn J McMullen	1
07044	Antimony	SW-846 6010C	1	201351404402	05/19/2020 05:08	Lisa J Cooke	1
07035	Arsenic	SW-846 6010C	1	201351404402	05/19/2020 05:08	Lisa J Cooke	1
07046	Barium	SW-846 6010C	1	201351404402	05/19/2020 05:08	Lisa J Cooke	1
07047	Beryllium	SW-846 6010C	1	201351404402	05/19/2020 05:08	Lisa J Cooke	1
07049	Cadmium	SW-846 6010C	1	201351404402	05/19/2020 05:08	Lisa J Cooke	1
07051	Chromium	SW-846 6010C	1	201351404402	05/19/2020 05:08	Lisa J Cooke	1
07052	Cobalt	SW-846 6010C	1	201351404402	05/19/2020 05:08	Lisa J Cooke	1
07053	Copper	SW-846 6010C	1	201351404402	05/19/2020 05:08	Lisa J Cooke	1
07055	Lead	SW-846 6010C	1	201351404402	05/19/2020 05:08	Lisa J Cooke	1
07058	Manganese	SW-846 6010C	1	201351404402	05/19/2020 05:08	Lisa J Cooke	1
07060	Molybdenum	SW-846 6010C	1	201351404402	05/19/2020 05:08	Lisa J Cooke	1
07061	Nickel	SW-846 6010C	1	201351404402	05/19/2020 05:08	Lisa J Cooke	1
07036	Selenium	SW-846 6010C	1	201351404402	05/19/2020 05:08	Lisa J Cooke	1
07066	Silver	SW-846 6010C	1	201351404402	05/19/2020 05:08	Lisa J Cooke	1
07022	Thallium	SW-846 6010C	1	201351404402	05/19/2020 05:08	Lisa J Cooke	1
07071	Vanadium	SW-846 6010C	1	201351404402	05/19/2020 05:08	Lisa J Cooke	1
07072	Zinc	SW-846 6010C	1	201351404402	05/19/2020 05:08	Lisa J Cooke	1

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/13/2020 16:25
Collection Date/Time: 05/12/2020 11:10

GES, Inc.
ELLE Sample #: RW 1314119
ELLE Group #: 2099428
Matrix: Groundwater

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00259	Mercury	SW-846 7470A	1	201350571303	05/19/2020 09:14	Damary Valentin	1
14044	ICP-WW, 3005A (tot rec) - U345	SW-846 3005A	1	201351404402	05/18/2020 14:30	JoElla L Rice	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	201350571303	05/14/2020 18:05	JoElla L Rice	1
00228	Sulfate	EPA 300.0	1	20139135117A	05/18/2020 12:26	Kevin Litwa	50
00220	Nitrate Nitrogen	EPA 353.2	1	20138106101A	05/17/2020 07:19	Ashlynn M Cornelius	1
00219	Nitrite Nitrogen	EPA 353.2	1	20135105101A	05/14/2020 08:02	Jonathan Saul	1
14855	Ferrous Iron	SM 3500-Fe B-2011	1	20139127101A	05/18/2020 10:41	Jonathan Saul	50
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	20136002103A	05/16/2020 01:04	Jeremy L Bolf	1

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/13/2020 16:25
Collection Date/Time: 05/12/2020 12:25

GES, Inc.
ELLE Sample #: RW 1314120
ELLE Group #: 2099428
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acetone	67-64-1	N.D.	0.8	1
10335	Benzene	71-43-2	4	0.2	1
10335	Bromodichloromethane	75-27-4	N.D.	0.2	1
10335	Bromoform	75-25-2	N.D.	2	1
10335	Bromomethane	74-83-9	N.D.	0.5	1
10335	2-Butanone	78-93-3	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	0.3	1
10335	Carbon Tetrachloride	56-23-5	N.D.	0.2	1
10335	Chlorobenzene	108-90-7	N.D.	0.2	1
10335	Chloroethane	75-00-3	N.D.	0.3	1
10335	Chloroform	67-66-3	N.D.	0.2	1
10335	Chloromethane	74-87-3	N.D.	0.3	1
10335	Cyclohexane	110-82-7	N.D.	2	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	0.4	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.3	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.	0.2	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.	0.2	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.	0.2	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	0.3	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.2	1
10335	1,2-Dichloroethane	107-06-2	N.D.	2	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.2	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.2	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.2	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.2	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.2	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.4	1
10335	Ethylbenzene	100-41-4	2	0.2	1
10335	Freon 113	76-13-1	N.D.	2	1
10335	2-Hexanone	591-78-6	N.D.	3	1
10335	Isopropylbenzene	98-82-8	1 J	0.3	1
10335	Methyl Acetate	79-20-9	N.D.	0.6	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.2	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	0.5	1
10335	Methylcyclohexane	108-87-2	N.D.	0.2	1
10335	Methylene Chloride	75-09-2	N.D.	0.2	1
10335	Styrene	100-42-5	N.D.	0.2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.2	1
10335	Tetrachloroethene	127-18-4	N.D.	0.2	1
10335	Toluene	108-88-3	0.2 J	0.2	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.4	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.2	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.2	1
10335	Trichloroethene	79-01-6	N.D.	0.2	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.4	1
10335	Vinyl Chloride	75-01-4	N.D.	0.4	1
10335	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/13/2020 16:25
Collection Date/Time: 05/12/2020 12:25

GES, Inc.
ELLE Sample #: RW 1314120
ELLE Group #: 2099428
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	
14242	Acenaphthene	83-32-9	1	0.1	1
14242	Acenaphthylene	208-96-8	N.D.	0.1	1
14242	Acetophenone	98-86-2	N.D.	4	1
14242	Anthracene	120-12-7	N.D.	0.1	1
14242	Atrazine	1912-24-9	N.D.	2	1
14242	Benzaldehyde	100-52-7	N.D.	3	1
14242	Benzo(a)anthracene	56-55-3	N.D.	0.1	1
14242	Benzo(a)pyrene	50-32-8	N.D.	0.1	1
14242	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	1
14242	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	1
14242	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	1
14242	1,1'-Biphenyl	92-52-4	N.D.	3	1
14242	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	1
14242	Butylbenzylphthalate	85-68-7	N.D.	2	1
14242	Di-n-butylphthalate	84-74-2	N.D.	2	1
14242	Caprolactam	105-60-2	N.D.	5	1
14242	Carbazole	86-74-8	N.D.	0.5	1
14242	4-Chloro-3-methylphenol	59-50-7	N.D.	2	1
14242	4-Chloroaniline	106-47-8	N.D.	4	1
14242	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	1
14242	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	1
14242	2-Chloronaphthalene	91-58-7	N.D.	0.4	1
14242	2-Chlorophenol	95-57-8	N.D.	0.5	1
14242	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	1
14242	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	0.5	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.				
14242	Chrysene	218-01-9	N.D.	0.1	1
14242	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	1
14242	Dibenzofuran	132-64-9	N.D.	0.5	1
14242	3,3'-Dichlorobenzidine	91-94-1	N.D.	3	1
14242	2,4-Dichlorophenol	120-83-2	N.D.	0.5	1
14242	Diethylphthalate	84-66-2	N.D.	2	1
14242	2,4-Dimethylphenol	105-67-9	N.D.	3	1
14242	Dimethylphthalate	131-11-3	N.D.	2	1
14242	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	8	1
14242	2,4-Dinitrophenol	51-28-5	N.D.	14	1
14242	2,4-Dinitrotoluene	121-14-2	N.D.	1	1
14242	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	1
14242	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	5	1
14242	Fluoranthene	206-44-0	N.D.	0.1	1
14242	Fluorene	86-73-7	N.D.	0.1	1
14242	Hexachlorobenzene	118-74-1	N.D.	0.1	1
14242	Hexachlorobutadiene	87-68-3	N.D.	0.5	1
14242	Hexachlorocyclopentadiene	77-47-4	N.D.	5	1
14242	Hexachloroethane	67-72-1	N.D.	1	1
14242	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	1
14242	Isophorone	78-59-1	N.D.	0.5	1
14242	2-Methylnaphthalene	91-57-6	N.D.	0.1	1

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/13/2020 16:25
Collection Date/Time: 05/12/2020 12:25

GES, Inc.
ELLE Sample #: RW 1314120
ELLE Group #: 2099428
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	
14242	2-Methylphenol	95-48-7	N.D.	0.5	1
14242	4-Methylphenol	106-44-5	N.D.	0.5	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.				
14242	Naphthalene	91-20-3	N.D.	0.1	1
14242	2-Nitroaniline	88-74-4	N.D.	2	1
14242	3-Nitroaniline	99-09-2	N.D.	3	1
14242	4-Nitroaniline	100-01-6	N.D.	0.9	1
14242	Nitrobenzene	98-95-3	N.D.	0.5	1
14242	2-Nitrophenol	88-75-5	N.D.	3	1
14242	4-Nitrophenol	100-02-7	N.D.	10	1
14242	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.7	1
14242	N-Nitrosodiphenylamine	86-30-6	N.D.	0.7	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.				
14242	Di-n-octylphthalate	117-84-0	N.D.	5	1
14242	Pentachlorophenol	87-86-5	N.D.	1	1
14242	Phenanthrene	85-01-8	N.D.	0.1	1
14242	Phenol	108-95-2	N.D.	0.5	1
14242	Pyrene	129-00-0	N.D.	0.1	1
14242	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	1
14242	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	3,600	53	1
Metals	**SW-846 6010C**		**mg/l**	**mg/l**	
07044	Antimony	7440-36-0	N.D.	0.0160	1
07035	Arsenic	7440-38-2	N.D.	0.0160	1
07046	Barium	7440-39-3	0.155	0.0010	1
07047	Beryllium	7440-41-7	N.D.	0.0010	1
07049	Cadmium	7440-43-9	N.D.	0.0010	1
07051	Chromium	7440-47-3	0.0019 J	0.0016	1
07052	Cobalt	7440-48-4	N.D.	0.0015	1
07053	Copper	7440-50-8	N.D.	0.0120	1
07055	Lead	7439-92-1	N.D.	0.0071	1
07060	Molybdenum	7439-98-7	N.D.	0.0020	1
07061	Nickel	7440-02-0	0.0162	0.0021	1
07036	Selenium	7782-49-2	N.D.	0.0160	1
07066	Silver	7440-22-4	N.D.	0.0050	1
07022	Thallium	7440-28-0	N.D.	0.0081	1
07071	Vanadium	7440-62-2	0.0059 J	0.0019	1
07072	Zinc	7440-66-6	N.D.	0.0037	1
	SW-846 7470A		**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000050	1

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/13/2020 16:25
Collection Date/Time: 05/12/2020 12:25

GES, Inc.
ELLE Sample #: RW 1314120
ELLE Group #: 2099428
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Wet Chemistry		**SM 2320 B-2011**	**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5	n.a.	254	2.6	1

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	TCL 4.3 VOCs	SW-846 8260B	1	4201431AA	05/22/2020 13:22	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	4201431AA	05/22/2020 13:21	Linda C Pape	1
14242	TCL 4.3 SVOCs	SW-846 8270D	1	20139WAD026	05/20/2020 16:54	Kira N Beck	1
00813	BNA Water Extraction	SW-846 3510C	1	20139WAD026	05/19/2020 08:23	Christine E Gleim	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	201360002A	05/16/2020 11:50	Timothy M Emrick	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	201360002A	05/15/2020 12:15	Shawn J McMullen	1
07044	Antimony	SW-846 6010C	1	201351404402	05/19/2020 05:41	Lisa J Cooke	1
07035	Arsenic	SW-846 6010C	1	201351404402	05/19/2020 05:41	Lisa J Cooke	1
07046	Barium	SW-846 6010C	1	201351404402	05/19/2020 05:41	Lisa J Cooke	1
07047	Beryllium	SW-846 6010C	1	201351404402	05/19/2020 05:41	Lisa J Cooke	1
07049	Cadmium	SW-846 6010C	1	201351404402	05/19/2020 05:41	Lisa J Cooke	1
07051	Chromium	SW-846 6010C	1	201351404402	05/19/2020 05:41	Lisa J Cooke	1
07052	Cobalt	SW-846 6010C	1	201351404402	05/19/2020 05:41	Lisa J Cooke	1
07053	Copper	SW-846 6010C	1	201351404402	05/19/2020 05:41	Lisa J Cooke	1
07055	Lead	SW-846 6010C	1	201351404402	05/19/2020 05:41	Lisa J Cooke	1
07060	Molybdenum	SW-846 6010C	1	201351404402	05/19/2020 05:41	Lisa J Cooke	1
07061	Nickel	SW-846 6010C	1	201351404402	05/19/2020 05:41	Lisa J Cooke	1
07036	Selenium	SW-846 6010C	1	201351404402	05/19/2020 05:41	Lisa J Cooke	1
07066	Silver	SW-846 6010C	1	201351404402	05/19/2020 05:41	Lisa J Cooke	1
07022	Thallium	SW-846 6010C	1	201351404402	05/19/2020 05:41	Lisa J Cooke	1
07071	Vanadium	SW-846 6010C	1	201351404402	05/19/2020 05:41	Lisa J Cooke	1
07072	Zinc	SW-846 6010C	1	201351404402	05/19/2020 05:41	Lisa J Cooke	1
00259	Mercury	SW-846 7470A	1	201350571303	05/19/2020 08:59	Damary Valentin	1
14044	ICP-WW, 3005A (tot rec) - U345	SW-846 3005A	1	201351404402	05/18/2020 14:30	JoElla L Rice	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	201350571303	05/14/2020 18:05	JoElla L Rice	1
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	20136002103A	05/16/2020 00:57	Jeremy L Bolf	1

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/13/2020 16:25
Collection Date/Time: 05/12/2020 12:40

GES, Inc.
ELLE Sample #: RW 1314121
ELLE Group #: 2099428
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	
14242	Acenaphthene	83-32-9	N.D.	0.1	1
14242	Acenaphthylene	208-96-8	N.D.	0.1	1
14242	Acetophenone	98-86-2	N.D.	4	1
14242	Anthracene	120-12-7	N.D.	0.1	1
14242	Atrazine	1912-24-9	N.D.	2	1
14242	Benzaldehyde	100-52-7	N.D.	3	1
14242	Benzo(a)anthracene	56-55-3	N.D.	0.1	1
14242	Benzo(a)pyrene	50-32-8	N.D.	0.1	1
14242	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	1
14242	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	1
14242	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	1
14242	1,1'-Biphenyl	92-52-4	N.D.	3	1
14242	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	1
14242	Butylbenzylphthalate	85-68-7	N.D.	2	1
14242	Di-n-butylphthalate	84-74-2	N.D.	2	1
14242	Caprolactam	105-60-2	N.D.	5	1
14242	Carbazole	86-74-8	N.D.	0.5	1
14242	4-Chloro-3-methylphenol	59-50-7	N.D.	2	1
14242	4-Chloroaniline	106-47-8	N.D.	4	1
14242	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	1
14242	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	1
14242	2-Chloronaphthalene	91-58-7	N.D.	0.4	1
14242	2-Chlorophenol	95-57-8	N.D.	0.5	1
14242	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	1
14242	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	0.5	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.				
14242	Chrysene	218-01-9	N.D.	0.1	1
14242	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	1
14242	Dibenzofuran	132-64-9	N.D.	0.5	1
14242	3,3'-Dichlorobenzidine	91-94-1	N.D.	3	1
14242	2,4-Dichlorophenol	120-83-2	N.D.	0.5	1
14242	Diethylphthalate	84-66-2	N.D.	2	1
14242	2,4-Dimethylphenol	105-67-9	N.D.	3	1
14242	Dimethylphthalate	131-11-3	N.D.	2	1
14242	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	9	1
14242	2,4-Dinitrophenol	51-28-5	N.D.	15	1
14242	2,4-Dinitrotoluene	121-14-2	N.D.	1	1
14242	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	1
14242	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	5	1
14242	Fluoranthene	206-44-0	N.D.	0.1	1
14242	Fluorene	86-73-7	N.D.	0.1	1
14242	Hexachlorobenzene	118-74-1	N.D.	0.1	1
14242	Hexachlorobutadiene	87-68-3	N.D.	0.5	1
14242	Hexachlorocyclopentadiene	77-47-4	N.D.	5	1
14242	Hexachloroethane	67-72-1	N.D.	1	1
14242	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	1
14242	Isophorone	78-59-1	N.D.	0.5	1
14242	2-Methylnaphthalene	91-57-6	N.D.	0.1	1

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/13/2020 16:25
Collection Date/Time: 05/12/2020 12:40

GES, Inc.
ELLE Sample #: RW 1314121
ELLE Group #: 2099428
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	
14242	2-Methylphenol	95-48-7	N.D.	0.5	1
14242	4-Methylphenol	106-44-5	N.D.	0.5	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.				
14242	Naphthalene	91-20-3	N.D.	0.1	1
14242	2-Nitroaniline	88-74-4	N.D.	2	1
14242	3-Nitroaniline	99-09-2	N.D.	3	1
14242	4-Nitroaniline	100-01-6	N.D.	1	1
14242	Nitrobenzene	98-95-3	N.D.	0.5	1
14242	2-Nitrophenol	88-75-5	N.D.	3	1
14242	4-Nitrophenol	100-02-7	N.D.	11	1
14242	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.7	1
14242	N-Nitrosodiphenylamine	86-30-6	N.D.	0.7	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.				
14242	Di-n-octylphthalate	117-84-0	N.D.	5	1
14242	Pentachlorophenol	87-86-5	N.D.	1	1
14242	Phenanthrene	85-01-8	N.D.	0.1	1
14242	Phenol	108-95-2	N.D.	0.5	1
14242	Pyrene	129-00-0	N.D.	0.1	1
14242	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	1
14242	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	1
GC Miscellaneous	**RSKSOP-175 modified**		**ug/l**	**ug/l**	
07105	Methane	74-82-8	95	3.0	1
Metals	**SW-846 6010C**		**mg/l**	**mg/l**	
07044	Antimony	7440-36-0	N.D.	0.0160	1
07035	Arsenic	7440-38-2	N.D.	0.0160	1
07046	Barium	7440-39-3	0.0180	0.0010	1
07047	Beryllium	7440-41-7	0.0013 J	0.0010	1
07049	Cadmium	7440-43-9	0.0017 J	0.0010	1
07051	Chromium	7440-47-3	N.D.	0.0016	1
07052	Cobalt	7440-48-4	0.125	0.0015	1
07053	Copper	7440-50-8	N.D.	0.0120	1
07055	Lead	7439-92-1	0.0244	0.0071	1
07058	Manganese	7439-96-5	6.63	0.0030	1
07060	Molybdenum	7439-98-7	N.D.	0.0020	1
07061	Nickel	7440-02-0	0.0608	0.0021	1
07036	Selenium	7782-49-2	N.D.	0.0160	1
07066	Silver	7440-22-4	N.D.	0.0050	1
07022	Thallium	7440-28-0	N.D.	0.0405	5
07071	Vanadium	7440-62-2	0.0056 J	0.0019	1
07072	Zinc	7440-66-6	0.143	0.0037	1
	SW-846 7470A		**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000050	1

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/13/2020 16:25
Collection Date/Time: 05/12/2020 12:40

GES, Inc.
ELLE Sample #: RW 1314121
ELLE Group #: 2099428
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	
00228	Sulfate	14808-79-8	492	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[1]	n.a.	57.8	0.750	50
	SM 2320 B-2011		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5	n.a.	8.8	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
14242	TCL 4.3 SVOCs	SW-846 8270D	1	20139WAD026	05/20/2020 17:23	Kira N Beck	1
00813	BNA Water Extraction	SW-846 3510C	1	20139WAD026	05/19/2020 08:23	Christine E Gleim	1
07105	Methane	RSKSOP-175 modified	1	201360010A	05/16/2020 00:30	Esther Kathryn Lane	1
07044	Antimony	SW-846 6010C	1	201351404401	05/19/2020 20:12	Cindy M Gehman	1
07035	Arsenic	SW-846 6010C	1	201351404401	05/19/2020 20:12	Cindy M Gehman	1
07046	Barium	SW-846 6010C	1	201351404401	05/19/2020 20:12	Cindy M Gehman	1
07047	Beryllium	SW-846 6010C	1	201351404401	05/19/2020 20:12	Cindy M Gehman	1
07049	Cadmium	SW-846 6010C	1	201351404401	05/19/2020 20:12	Cindy M Gehman	1
07051	Chromium	SW-846 6010C	1	201351404401	05/19/2020 20:12	Cindy M Gehman	1
07052	Cobalt	SW-846 6010C	1	201351404401	05/19/2020 20:12	Cindy M Gehman	1
07053	Copper	SW-846 6010C	1	201351404401	05/20/2020 08:21	Lisa J Cooke	1
07055	Lead	SW-846 6010C	1	201351404401	05/19/2020 20:12	Cindy M Gehman	1
07058	Manganese	SW-846 6010C	1	201351404401	05/19/2020 20:12	Cindy M Gehman	1
07060	Molybdenum	SW-846 6010C	1	201351404401	05/19/2020 20:12	Cindy M Gehman	1
07061	Nickel	SW-846 6010C	1	201351404401	05/19/2020 20:12	Cindy M Gehman	1
07036	Selenium	SW-846 6010C	1	201351404401	05/19/2020 20:12	Cindy M Gehman	1
07066	Silver	SW-846 6010C	1	201351404401	05/19/2020 20:12	Cindy M Gehman	1
07022	Thallium	SW-846 6010C	1	201351404401	05/19/2020 20:35	Cindy M Gehman	5
07071	Vanadium	SW-846 6010C	1	201351404401	05/19/2020 20:12	Cindy M Gehman	1
07072	Zinc	SW-846 6010C	1	201351404401	05/19/2020 20:12	Cindy M Gehman	1
00259	Mercury	SW-846 7470A	1	201350571303	05/19/2020 09:12	Damary Valentin	1
14044	ICP-WW, 3005A (tot rec) - U345	SW-846 3005A	1	201351404401	05/19/2020 02:57	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	201350571303	05/14/2020 18:05	JoElla L Rice	1
00228	Sulfate	EPA 300.0	1	20139135117A	05/18/2020 12:43	Kevin Litwa	100
00220	Nitrate Nitrogen	EPA 353.2	1	20138106101A	05/17/2020 07:21	Ashlynn M Cornelius	1
00219	Nitrite Nitrogen	EPA 353.2	1	20135105101A	05/14/2020 08:07	Jonathan Saul	1
14855	Ferrous Iron	SM 3500-Fe B-2011	1	20139127101A	05/18/2020 12:17	Jonathan Saul	50
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	20136002103A	05/16/2020 01:11	Jeremy L Bolf	1

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/13/2020 16:25
Collection Date/Time: 05/12/2020 14:20

GES, Inc.
ELLE Sample #: RW 1314122
ELLE Group #: 2099428
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acetone	67-64-1	4 J	0.8	1
10335	Benzene	71-43-2	N.D.	0.2	1
10335	Bromodichloromethane	75-27-4	N.D.	0.2	1
10335	Bromoform	75-25-2	N.D.	2	1
10335	Bromomethane	74-83-9	N.D.	0.5	1
10335	2-Butanone	78-93-3	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	0.3	1
10335	Carbon Tetrachloride	56-23-5	N.D.	0.2	1
10335	Chlorobenzene	108-90-7	N.D.	0.2	1
10335	Chloroethane	75-00-3	N.D.	0.3	1
10335	Chloroform	67-66-3	N.D.	0.2	1
10335	Chloromethane	74-87-3	N.D.	0.3	1
10335	Cyclohexane	110-82-7	N.D.	2	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	0.4	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.3	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.	0.2	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.	0.2	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.	0.2	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	0.3	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.2	1
10335	1,2-Dichloroethane	107-06-2	N.D.	2	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.2	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.2	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.2	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.2	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.2	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.4	1
10335	Ethylbenzene	100-41-4	N.D.	0.2	1
10335	Freon 113	76-13-1	N.D.	2	1
10335	2-Hexanone	591-78-6	N.D.	3	1
10335	Isopropylbenzene	98-82-8	N.D.	0.3	1
10335	Methyl Acetate	79-20-9	N.D.	0.6	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.2	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	0.5	1
10335	Methylcyclohexane	108-87-2	N.D.	0.2	1
10335	Methylene Chloride	75-09-2	N.D.	0.2	1
10335	Styrene	100-42-5	N.D.	0.2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.2	1
10335	Tetrachloroethene	127-18-4	N.D.	0.2	1
10335	Toluene	108-88-3	N.D.	0.2	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.4	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.2	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.2	1
10335	Trichloroethene	79-01-6	N.D.	0.2	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.4	1
10335	Vinyl Chloride	75-01-4	N.D.	0.4	1
10335	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/13/2020 16:25
Collection Date/Time: 05/12/2020 14:20

GES, Inc.
ELLE Sample #: RW 1314122
ELLE Group #: 2099428
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	
14242	Acenaphthene	83-32-9	N.D.	0.2	2
14242	Acenaphthylene	208-96-8	N.D.	0.2	2
14242	Acetophenone	98-86-2	N.D.	8	2
14242	Anthracene	120-12-7	N.D.	0.2	2
14242	Atrazine	1912-24-9	N.D.	4	2
14242	Benzaldehyde	100-52-7	N.D.	6	2
14242	Benzo(a)anthracene	56-55-3	N.D.	0.2	2
14242	Benzo(a)pyrene	50-32-8	N.D.	0.2	2
14242	Benzo(b)fluoranthene	205-99-2	N.D.	0.2	2
14242	Benzo(g,h,i)perylene	191-24-2	N.D.	0.2	2
14242	Benzo(k)fluoranthene	207-08-9	N.D.	0.2	2
14242	1,1'-Biphenyl	92-52-4	N.D.	6	2
14242	4-Bromophenyl-phenylether	101-55-3	N.D.	1	2
14242	Butylbenzylphthalate	85-68-7	N.D.	4	2
14242	Di-n-butylphthalate	84-74-2	N.D.	4	2
14242	Caprolactam	105-60-2	N.D.	10	2
14242	Carbazole	86-74-8	N.D.	1	2
14242	4-Chloro-3-methylphenol	59-50-7	N.D.	3	2
14242	4-Chloroaniline	106-47-8	N.D.	8	2
14242	bis(2-Chloroethoxy)methane	111-91-1	N.D.	1	2
14242	bis(2-Chloroethyl)ether	111-44-4	N.D.	1	2
14242	2-Chloronaphthalene	91-58-7	N.D.	0.8	2
14242	2-Chlorophenol	95-57-8	N.D.	1	2
14242	4-Chlorophenyl-phenylether	7005-72-3	N.D.	1	2
14242	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	1	2
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.				
14242	Chrysene	218-01-9	N.D.	0.2	2
14242	Dibenz(a,h)anthracene	53-70-3	N.D.	0.2	2
14242	Dibenzofuran	132-64-9	N.D.	1	2
14242	3,3'-Dichlorobenzidine	91-94-1	N.D.	6	2
14242	2,4-Dichlorophenol	120-83-2	N.D.	1	2
14242	Diethylphthalate	84-66-2	N.D.	4	2
14242	2,4-Dimethylphenol	105-67-9	N.D.	6	2
14242	Dimethylphthalate	131-11-3	N.D.	4	2
14242	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	16	2
14242	2,4-Dinitrophenol	51-28-5	N.D.	28	2
14242	2,4-Dinitrotoluene	121-14-2	N.D.	2	2
14242	2,6-Dinitrotoluene	606-20-2	N.D.	1	2
14242	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	10	2
14242	Fluoranthene	206-44-0	N.D.	0.2	2
14242	Fluorene	86-73-7	N.D.	0.2	2
14242	Hexachlorobenzene	118-74-1	N.D.	0.2	2
14242	Hexachlorobutadiene	87-68-3	N.D.	1	2
14242	Hexachlorocyclopentadiene	77-47-4	N.D.	10	2
14242	Hexachloroethane	67-72-1	N.D.	2	2
14242	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.2	2
14242	Isophorone	78-59-1	N.D.	1	2
14242	2-Methylnaphthalene	91-57-6	N.D.	0.2	2

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/13/2020 16:25
Collection Date/Time: 05/12/2020 14:20

GES, Inc.
ELLE Sample #: RW 1314122
ELLE Group #: 2099428
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	
14242	2-Methylphenol	95-48-7	N.D.	1	2
14242	4-Methylphenol	106-44-5	N.D.	1	2
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.				
14242	Naphthalene	91-20-3	N.D.	0.2	2
14242	2-Nitroaniline	88-74-4	N.D.	4	2
14242	3-Nitroaniline	99-09-2	N.D.	6	2
14242	4-Nitroaniline	100-01-6	N.D.	2	2
14242	Nitrobenzene	98-95-3	N.D.	1	2
14242	2-Nitrophenol	88-75-5	N.D.	6	2
14242	4-Nitrophenol	100-02-7	N.D.	20	2
14242	N-Nitroso-di-n-propylamine	621-64-7	N.D.	1	2
14242	N-Nitrosodiphenylamine	86-30-6	N.D.	1	2
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.				
14242	Di-n-octylphthalate	117-84-0	N.D.	10	2
14242	Pentachlorophenol	87-86-5	N.D.	2	2
14242	Phenanthrene	85-01-8	N.D.	0.2	2
14242	Phenol	108-95-2	N.D.	1	2
14242	Pyrene	129-00-0	N.D.	0.2	2
14242	2,4,5-Trichlorophenol	95-95-4	N.D.	1	2
14242	2,4,6-Trichlorophenol	88-06-2	N.D.	1	2
	The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The following action was taken: The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the first trial.				
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	2,900	53	1
Metals	**SW-846 6010C**		**mg/l**	**mg/l**	
07044	Antimony	7440-36-0	N.D.	0.0160	1
07035	Arsenic	7440-38-2	N.D.	0.0160	1
07046	Barium	7440-39-3	0.177	0.0010	1
07047	Beryllium	7440-41-7	N.D.	0.0010	1
07049	Cadmium	7440-43-9	N.D.	0.0010	1
07051	Chromium	7440-47-3	N.D.	0.0016	1
07052	Cobalt	7440-48-4	N.D.	0.0015	1
07053	Copper	7440-50-8	N.D.	0.0120	1
07055	Lead	7439-92-1	N.D.	0.0071	1
07060	Molybdenum	7439-98-7	N.D.	0.0020	1
07061	Nickel	7440-02-0	0.0055 J	0.0021	1
07036	Selenium	7782-49-2	N.D.	0.0160	1
07066	Silver	7440-22-4	N.D.	0.0050	1
07022	Thallium	7440-28-0	N.D.	0.0405	5
07071	Vanadium	7440-62-2	0.0032 J	0.0019	1
07072	Zinc	7440-66-6	0.0091 J	0.0037	1

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/13/2020 16:25
Collection Date/Time: 05/12/2020 14:20

GES, Inc.
ELLE Sample #: RW 1314122
ELLE Group #: 2099428
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Metals		**SW-846 7470A**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000050	1
Wet Chemistry		**EPA 300.0**	**mg/l**	**mg/l**	
00228	Sulfate	14808-79-8	33.2	1.5	5
		SM 2320 B-2011	**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5	n.a.	249	2.6	1

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	TCL 4.3 VOCs	SW-846 8260B	1	4201431AA	05/22/2020 13:45	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	4201431AA	05/22/2020 13:44	Linda C Pape	1
14242	TCL 4.3 SVOCs	SW-846 8270D	1	20139WAD026	05/22/2020 16:33	Linda M Hartenstine	2
00813	BNA Water Extraction	SW-846 3510C	1	20139WAD026	05/19/2020 08:23	Christine E Gleim	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	201360002A	05/16/2020 12:14	Timothy M Emrick	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	201360002A	05/15/2020 12:15	Shawn J McMullen	1
07044	Antimony	SW-846 6010C	1	201351404401	05/19/2020 19:52	Cindy M Gehman	1
07035	Arsenic	SW-846 6010C	1	201351404401	05/19/2020 19:52	Cindy M Gehman	1
07046	Barium	SW-846 6010C	1	201351404401	05/19/2020 19:52	Cindy M Gehman	1
07047	Beryllium	SW-846 6010C	1	201351404401	05/19/2020 19:52	Cindy M Gehman	1
07049	Cadmium	SW-846 6010C	1	201351404401	05/19/2020 19:52	Cindy M Gehman	1
07051	Chromium	SW-846 6010C	1	201351404401	05/19/2020 19:52	Cindy M Gehman	1
07052	Cobalt	SW-846 6010C	1	201351404401	05/19/2020 19:52	Cindy M Gehman	1
07053	Copper	SW-846 6010C	1	201351404401	05/20/2020 07:56	Lisa J Cooke	1
07055	Lead	SW-846 6010C	1	201351404401	05/19/2020 19:52	Cindy M Gehman	1
07060	Molybdenum	SW-846 6010C	1	201351404401	05/19/2020 19:52	Cindy M Gehman	1
07061	Nickel	SW-846 6010C	1	201351404401	05/19/2020 19:52	Cindy M Gehman	1
07036	Selenium	SW-846 6010C	1	201351404401	05/19/2020 19:52	Cindy M Gehman	1
07066	Silver	SW-846 6010C	1	201351404401	05/19/2020 19:52	Cindy M Gehman	1
07022	Thallium	SW-846 6010C	1	201351404401	05/19/2020 20:29	Cindy M Gehman	5
07071	Vanadium	SW-846 6010C	1	201351404401	05/19/2020 19:52	Cindy M Gehman	1
07072	Zinc	SW-846 6010C	1	201351404401	05/19/2020 19:52	Cindy M Gehman	1
00259	Mercury	SW-846 7470A	1	201350571302	05/19/2020 10:56	Damary Valentin	1
14044	ICP-WW, 3005A (tot rec) - U345	SW-846 3005A	1	201351404401	05/19/2020 02:57	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	201350571302	05/19/2020 04:03	James L Mertz	1
00228	Sulfate	EPA 300.0	1	20139135117A	05/18/2020 12:59	Kevin Litwa	5
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	20139006102B	05/18/2020 23:59	Jeremy L Bolf	1

Quality Control Summary

Client Name: GES, Inc. Group Number: 2099428
Reported: 05/28/2020 15:12

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: 4201431AA	Sample number(s): 1314119-1314120,1314122	
Acetone	N.D.	0.8
Benzene	N.D.	0.2
Bromodichloromethane	N.D.	0.2
Bromoform	N.D.	2
Bromomethane	N.D.	0.5
2-Butanone	N.D.	1
Carbon Disulfide	N.D.	0.3
Carbon Tetrachloride	N.D.	0.2
Chlorobenzene	N.D.	0.2
Chloroethane	N.D.	0.3
Chloroform	N.D.	0.2
Chloromethane	N.D.	0.3
Cyclohexane	N.D.	2
1,2-Dibromo-3-chloropropane	N.D.	1
Dibromochloromethane	N.D.	0.4
1,2-Dibromoethane	N.D.	0.3
1,2-Dichlorobenzene	N.D.	0.2
1,3-Dichlorobenzene	N.D.	0.2
1,4-Dichlorobenzene	N.D.	0.2
Dichlorodifluoromethane	N.D.	0.3
1,1-Dichloroethane	N.D.	0.2
1,2-Dichloroethane	N.D.	2
1,1-Dichloroethene	N.D.	0.2
cis-1,2-Dichloroethene	N.D.	0.2
trans-1,2-Dichloroethene	N.D.	0.2
1,2-Dichloropropane	N.D.	0.2
cis-1,3-Dichloropropene	N.D.	0.2
trans-1,3-Dichloropropene	N.D.	0.4
Ethylbenzene	N.D.	0.2
Freon 113	N.D.	2
2-Hexanone	N.D.	3
Isopropylbenzene	N.D.	0.3
Methyl Acetate	N.D.	0.6
Methyl Tertiary Butyl Ether	N.D.	0.2
4-Methyl-2-pentanone	N.D.	0.5
Methylcyclohexane	N.D.	0.2
Methylene Chloride	N.D.	0.2
Styrene	N.D.	0.2
1,1,2,2-Tetrachloroethane	N.D.	0.2

*- 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. Group Number: 2099428
Reported: 05/28/2020 15:12

Method Blank (continued)

Analysis Name	Result	MDL
	ug/l	ug/l
Tetrachloroethene	N.D.	0.2
Toluene	N.D.	0.2
1,2,4-Trichlorobenzene	N.D.	0.4
1,1,1-Trichloroethane	N.D.	0.2
1,1,2-Trichloroethane	N.D.	0.2
Trichloroethene	N.D.	0.2
Trichlorofluoromethane	N.D.	0.4
Vinyl Chloride	N.D.	0.4
Xylene (Total)	N.D.	0.5
Batch number: 20139WAD026	Sample number(s): 1314115,1314118-1314122	
Acenaphthene	N.D.	0.1
Acenaphthylene	N.D.	0.1
Acetophenone	N.D.	4
Anthracene	N.D.	0.1
Atrazine	N.D.	2
Benzaldehyde	N.D.	3
Benzo(a)anthracene	N.D.	0.1
Benzo(a)pyrene	N.D.	0.1
Benzo(b)fluoranthene	N.D.	0.1
Benzo(g,h,i)perylene	N.D.	0.1
Benzo(k)fluoranthene	N.D.	0.1
1,1'-Biphenyl	N.D.	3
4-Bromophenyl-phenylether	N.D.	0.5
Butylbenzylphthalate	N.D.	2
Di-n-butylphthalate	N.D.	2
Caprolactam	N.D.	5
Carbazole	N.D.	0.5
4-Chloro-3-methylphenol	N.D.	2
4-Chloroaniline	N.D.	4
bis(2-Chloroethoxy)methane	N.D.	0.5
bis(2-Chloroethyl)ether	N.D.	0.5
2-Chloronaphthalene	N.D.	0.4
2-Chlorophenol	N.D.	0.5
4-Chlorophenyl-phenylether	N.D.	0.5
2,2'-oxybis(1-Chloropropane)	N.D.	0.5
Chrysene	N.D.	0.1
Dibenz(a,h)anthracene	N.D.	0.1
Dibenzofuran	N.D.	0.5
3,3'-Dichlorobenzidine	N.D.	3
2,4-Dichlorophenol	N.D.	0.5
Diethylphthalate	N.D.	2
2,4-Dimethylphenol	N.D.	3
Dimethylphthalate	N.D.	2
4,6-Dinitro-2-methylphenol	N.D.	8

*- 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. Group Number: 2099428
Reported: 05/28/2020 15:12

Method Blank (continued)

Analysis Name	Result	MDL
	ug/l	ug/l
2,4-Dinitrophenol	N.D.	14
2,4-Dinitrotoluene	N.D.	1
2,6-Dinitrotoluene	N.D.	0.5
bis(2-Ethylhexyl)phthalate	N.D.	5
Fluoranthene	N.D.	0.1
Fluorene	N.D.	0.1
Hexachlorobenzene	N.D.	0.1
Hexachlorobutadiene	N.D.	0.5
Hexachlorocyclopentadiene	N.D.	5
Hexachloroethane	N.D.	1
Indeno(1,2,3-cd)pyrene	N.D.	0.1
Isophorone	N.D.	0.5
2-Methylnaphthalene	N.D.	0.1
2-Methylphenol	N.D.	0.5
4-Methylphenol	N.D.	0.5
Naphthalene	N.D.	0.1
2-Nitroaniline	N.D.	2
3-Nitroaniline	N.D.	3
4-Nitroaniline	N.D.	0.9
Nitrobenzene	N.D.	0.5
2-Nitrophenol	N.D.	3
4-Nitrophenol	N.D.	10
N-Nitroso-di-n-propylamine	N.D.	0.7
N-Nitrosodiphenylamine	N.D.	0.7
Di-n-octylphthalate	N.D.	5
Pentachlorophenol	N.D.	1
Phenanthrene	N.D.	0.1
Phenol	N.D.	0.5
Pyrene	N.D.	0.1
2,4,5-Trichlorophenol	N.D.	0.5
2,4,6-Trichlorophenol	N.D.	0.5
Batch number: 201360010A	Sample number(s): 1314115,1314118-1314119,1314121	
Methane	N.D.	3.0
Batch number: 201360002A	Sample number(s): 1314116-1314117,1314119-1314120,1314122	
DRO C10-C28	N.D.	53
	mg/l	mg/l
Batch number: 201350571302	Sample number(s): 1314115,1314122	
Mercury	N.D.	0.000050
Batch number: 201350571303	Sample number(s): 1314118-1314121	
Mercury	N.D.	0.000050
Batch number: 201351404401	Sample number(s): 1314115,1314121-1314122	
Antimony	N.D.	0.0160

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Quality Control Summary

Client Name: GES, Inc. Group Number: 2099428
Reported: 05/28/2020 15:12

Method Blank (continued)

Analysis Name	Result	MDL
	mg/l	mg/l
Arsenic	N.D.	0.0160
Barium	N.D.	0.0010
Beryllium	N.D.	0.0010
Cadmium	N.D.	0.0010
Chromium	0.0018 J	0.0016
Cobalt	N.D.	0.0015
Copper	N.D.	0.0120
Lead	N.D.	0.0071
Manganese	N.D.	0.0030
Molybdenum	N.D.	0.0020
Nickel	N.D.	0.0021
Selenium	N.D.	0.0160
Silver	N.D.	0.0050
Thallium	N.D.	0.0081
Vanadium	N.D.	0.0019
Zinc	N.D.	0.0037
Batch number: 201351404402	Sample number(s): 1314118-1314120	
Antimony	N.D.	0.0160
Arsenic	N.D.	0.0160
Barium	N.D.	0.0010
Beryllium	N.D.	0.0010
Cadmium	N.D.	0.0010
Chromium	N.D.	0.0016
Cobalt	N.D.	0.0015
Copper	N.D.	0.0120
Lead	N.D.	0.0071
Manganese	N.D.	0.0030
Molybdenum	N.D.	0.0020
Nickel	N.D.	0.0021
Selenium	N.D.	0.0160
Silver	N.D.	0.0050
Thallium	N.D.	0.0081
Vanadium	N.D.	0.0019
Zinc	N.D.	0.0037
Batch number: 20135105101A	Sample number(s): 1314115,1314118-1314119,1314121	
Nitrite Nitrogen	N.D.	0.015
Batch number: 20138106101A	Sample number(s): 1314115,1314118-1314119,1314121	
Nitrate Nitrogen	N.D.	0.040
Batch number: 20138135217B	Sample number(s): 1314115	
Sulfate	N.D.	0.30
Batch number: 20139127101A	Sample number(s): 1314115,1314118-1314119,1314121	
Ferrous Iron	N.D.	0.0150

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Quality Control Summary

Client Name: GES, Inc.
Reported: 05/28/2020 15:12

Group Number: 2099428

Method Blank (continued)

Analysis Name	Result	MDL
	mg/l	mg/l
Batch number: 20139135117A	Sample number(s): 1314118-1314119,1314121-1314122	
Sulfate	N.D.	0.30
	mg/l as CaCO3	mg/l as CaCO3
Batch number: 20136002103A	Sample number(s): 1314115,1314118-1314121	
Total Alkalinity to pH 4.5	N.D.	2.6
Batch number: 20139006102B	Sample number(s): 1314122	
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: 4201431AA	Sample number(s): 1314119-1314120,1314122								
Acetone	150	139.91	150	135.53	93	90	54-157	3	30
Benzene	20	21.88	20	21.79	109	109	80-120	0	30
Bromodichloromethane	20	21.27	20	21.01	106	105	71-120	1	30
Bromoform	20	19.21	20	18.93	96	95	51-120	1	30
Bromomethane	20	14.57	20	13.47	73	67	53-128	8	30
2-Butanone	150	147.86	150	146.17	99	97	59-135	1	30
Carbon Disulfide	20	19.73	20	19.56	99	98	65-128	1	30
Carbon Tetrachloride	20	21.47	20	21.43	107	107	64-134	0	30
Chlorobenzene	20	21.21	20	21.29	106	106	80-120	0	30
Chloroethane	20	16.11	20	15.6	81	78	55-123	3	30
Chloroform	20	21.68	20	21.91	108	110	80-120	1	30
Chloromethane	20	19.79	20	19.54	99	98	56-121	1	30
Cyclohexane	20	20.97	20	21.05	105	105	68-126	0	30
1,2-Dibromo-3-chloropropane	20	19.3	20	19	96	95	47-131	2	30
Dibromochloromethane	20	19.91	20	19.87	100	99	71-120	0	30
1,2-Dibromoethane	20	20.43	20	20.24	102	101	77-120	1	30
1,2-Dichlorobenzene	20	20.39	20	19.93	102	100	80-120	2	30
1,3-Dichlorobenzene	20	20.42	20	20.03	102	100	80-120	2	30
1,4-Dichlorobenzene	20	20.54	20	20.07	103	100	80-120	2	30
Dichlorodifluoromethane	20	18.45	20	18.05	92	90	41-127	2	30
1,1-Dichloroethane	20	21.62	20	21.17	108	106	80-120	2	30
1,2-Dichloroethane	20	20.48	20	20.45	102	102	73-124	0	30
1,1-Dichloroethene	20	21.71	20	21.64	109	108	80-131	0	30
cis-1,2-Dichloroethene	20	22.93	20	22.75	115	114	80-125	1	30
trans-1,2-Dichloroethene	20	21.62	20	21.86	108	109	80-126	1	30
1,2-Dichloropropane	20	21.73	20	21.83	109	109	80-120	0	30

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Quality Control Summary

Client Name: GES, Inc.
Reported: 05/28/2020 15:12

Group Number: 2099428

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
cis-1,3-Dichloropropene	20	20.93	20	20.92	105	105	75-120	0	30
trans-1,3-Dichloropropene	20	19.05	20	19.04	95	95	67-120	0	30
Ethylbenzene	20	21.06	20	20.99	105	105	80-120	0	30
Freon 113	20	20.06	20	20.01	100	100	73-139	0	30
2-Hexanone	100	97.91	100	96.92	98	97	56-135	1	30
Isopropylbenzene	20	21.07	20	21.09	105	105	80-120	0	30
Methyl Acetate	20	19.8	20	19.92	99	100	54-136	1	30
Methyl Tertiary Butyl Ether	20	19.02	20	18.99	95	95	69-122	0	30
4-Methyl-2-pentanone	100	99.22	100	98.58	99	99	62-133	1	30
Methylcyclohexane	20	21.38	20	21.81	107	109	67-121	2	30
Methylene Chloride	20	21.98	20	21.87	110	109	80-120	1	30
Styrene	20	20.35	20	20.29	102	101	80-120	0	30
1,1,2,2-Tetrachloroethane	20	20.32	20	20.19	102	101	72-120	1	30
Tetrachloroethene	20	21.29	20	21.44	106	107	80-120	1	30
Toluene	20	20.89	20	20.88	104	104	80-120	0	30
1,2,4-Trichlorobenzene	20	19.38	20	18.59	97	93	63-120	4	30
1,1,1-Trichloroethane	20	21.37	20	21.29	107	106	67-126	0	30
1,1,2-Trichloroethane	20	20.94	20	20.91	105	105	80-120	0	30
Trichloroethene	20	21.93	20	21.6	110	108	80-120	2	30
Trichlorofluoromethane	20	20.37	20	20.24	102	101	55-135	1	30
Vinyl Chloride	20	20.72	20	20.14	104	101	56-120	3	30
Xylene (Total)	60	62.89	60	63.21	105	105	80-120	1	30
	ug/l	ug/l	ug/l	ug/l					
Batch number: 20139WAD026	Sample number(s): 1314115,1314118-1314122								
Acenaphthene	50	38.18	50	46.27	76	93	52-114	19	30
Acenaphthylene	50	38.8	50	45.41	78	91	56-127	16	30
Acetophenone	50	35.6	50	39.39	71	79	61-114	10	30
Anthracene	50	39.96	50	46.17	80	92	67-116	14	30
Atrazine	50	41.23	50	48.32	82	97	71-133	16	30
Benzaldehyde	50	38.72	50	43.16	77	86	55-116	11	30
Benzo(a)anthracene	50	46.75	50	54.58	93	109	68-123	15	30
Benzo(a)pyrene	50	37.76	50	45.48	76	91	71-117	19	30
Benzo(b)fluoranthene	50	38.28	50	45.75	77	92	69-121	18	30
Benzo(g,h,i)perylene	50	36.34	50	43.91	73	88	60-119	19	30
Benzo(k)fluoranthene	50	39.17	50	47.08	78	94	69-122	18	30
1,1'-Biphenyl	50	37.13	50	44.4	74	89	56-109	18	30
4-Bromophenyl-phenylether	50	38.53	50	43.34	77	87	60-114	12	30
Butylbenzylphthalate	50	35.54	50	44.04	71	88	40-133	21	30
Di-n-butylphthalate	50	36.21	50	43.15	72	86	58-125	17	30
Caprolactam	50	9.98	50	12.06	20	24	10-57	19	30
Carbazole	50	39.43	50	44.81	79	90	64-127	13	30
4-Chloro-3-methylphenol	50	35.33	50	41.75	71	83	60-118	17	30
4-Chloroaniline	50	29.77	50	33.51	60	67	45-111	12	30

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Quality Control Summary

Client Name: GES, Inc.
Reported: 05/28/2020 15:12

Group Number: 2099428

LCS/LCSD (continued)

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
bis(2-Chloroethoxy)methane	50	38.76	50	44	78	88	63-116	13	30
bis(2-Chloroethyl)ether	50	34.89	50	37.89	70	76	58-108	8	30
2-Chloronaphthalene	50	35.22	50	42.05	70	84	51-107	18	30
2-Chlorophenol	50	36.56	50	40.63	73	81	57-105	11	30
4-Chlorophenyl-phenylether	50	36.68	50	44.15	73	88	57-110	18	30
2,2'-oxybis(1-Chloropropane)	50	34.5	50	37.82	69	76	48-105	9	30
Chrysene	50	42.49	50	49.73	85	99	65-121	16	30
Dibenz(a,h)anthracene	50	38.49	50	46.57	77	93	63-128	19	30
Dibenzofuran	50	37.27	50	42.46	75	85	60-112	13	30
3,3'-Dichlorobenzidine	50	37.45	50	39.19	75	78	42-107	5	30
2,4-Dichlorophenol	50	34.16	50	41.15	68	82	65-110	19	30
Diethylphthalate	50	31.55	50	38.24	63	76	42-126	19	30
2,4-Dimethylphenol	50	30.32	50	35.64	61	71	53-93	16	30
Dimethylphthalate	50	22.86	50	29.59	46	59	10-134	26	30
4,6-Dinitro-2-methylphenol	50	40.77	50	50.03	82	100	63-129	20	30
2,4-Dinitrophenol	100	83.43	100	99.04	83	99	44-134	17	30
2,4-Dinitrotoluene	50	38.21	50	44.46	76	89	66-122	15	30
2,6-Dinitrotoluene	50	41.47	50	46.87	83	94	71-120	12	30
bis(2-Ethylhexyl)phthalate	50	45.86	50	54.88	92	110	61-129	18	30
Fluoranthene	50	38.29	50	45.46	77	91	63-122	17	30
Fluorene	50	36.71	50	42.7	73	85	56-115	15	30
Hexachlorobenzene	50	37.87	50	44.02	76	88	60-117	15	30
Hexachlorobutadiene	50	26.88	50	35.84	54	72	20-108	29	30
Hexachlorocyclopentadiene	100	23.42	100	30.19	23	30	10-91	25	30
Hexachloroethane	50	26.59	50	31.94	53	64	23-95	18	30
Indeno(1,2,3-cd)pyrene	50	37.9	50	46.61	76	93	59-123	21	30
Isophorone	50	36	50	42.01	72	84	63-120	15	30
2-Methylnaphthalene	50	34.52	50	41.67	69	83	51-107	19	30
2-Methylphenol	50	33.65	50	36.7	67	73	53-107	9	30
4-Methylphenol	50	30.21	50	32.76	60	66	49-108	8	30
Naphthalene	50	36.06	50	42.78	72	86	51-102	17	30
2-Nitroaniline	50	41.8	50	48.9	84	98	66-126	16	30
3-Nitroaniline	50	37.58	50	43.99	75	88	55-121	16	30
4-Nitroaniline	50	34.13	50	38.82	68	78	55-113	13	30
Nitrobenzene	50	34.73	50	40.81	69	82	59-109	16	30
2-Nitrophenol	50	41.35	50	45.87	83	92	63-111	10	30
4-Nitrophenol	50	18.72	50	22.03	37	44	23-89	16	30
N-Nitroso-di-n-propylamine	50	35.01	50	38.88	70	78	58-120	10	30
N-Nitrosodiphenylamine	50	40.32	50	45.99	81	92	60-126	13	30
Di-n-octylphthalate	50	46.47	50	56.14	93	112	60-136	19	30
Pentachlorophenol	50	37.04	50	44.56	74	89	54-131	18	30
Phenanthrene	50	40.32	50	45.59	81	91	65-113	12	30
Phenol	50	17.5	50	18.37	35	37	19-79	5	30
Pyrene	50	38.91	50	44.81	78	90	65-115	14	30

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Quality Control Summary

Client Name: GES, Inc. Group Number: 2099428
Reported: 05/28/2020 15:12

LCS/LCSD (continued)

Analysis Name	LCS Spike Added	LCS Conc	LCSD Spike Added	LCSD Conc	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
	ug/l	ug/l	ug/l	ug/l					
2,4,5-Trichlorophenol	50	38.03	50	45.38	76	91	66-118	18	30
2,4,6-Trichlorophenol	50	39.77	50	49.27	80	99	69-117	21	30
	ug/l	**ug/l**	**ug/l**	**ug/l**					
Batch number: 201360010A	Sample number(s): 1314115,1314118-1314119,1314121								
Methane	59.42	59.8	59.42	61.81	101	104	85-115	3	20
	ug/l	**ug/l**	**ug/l**	**ug/l**					
Batch number: 201360002A	Sample number(s): 1314116-1314117,1314119-1314120,1314122								
DRO C10-C28	2857.87	1734.78	2857.87	1796.2	61	63	47-116	3	20
	mg/l	**mg/l**	**mg/l**	**mg/l**					
Batch number: 201350571302	Sample number(s): 1314115,1314122								
Mercury	0.00100	0.000877			88		80-110		
Batch number: 201350571303	Sample number(s): 1314118-1314121								
Mercury	0.00100	0.000857			86		80-110		
Batch number: 201351404401	Sample number(s): 1314115,1314121-1314122								
Antimony	0.100	0.104			104		80-120		
Arsenic	0.0600	0.0564			94		80-120		
Barium	0.0100	0.0101			101		80-120		
Beryllium	0.0100	0.00937			94		80-120		
Cadmium	0.0100	0.0104			104		80-120		
Chromium	0.0300	0.0308			103		80-120		
Cobalt	0.0100	0.0110			110		80-120		
Copper	0.0400	0.0414			103		80-120		
Lead	0.0300	0.0312			104		80-120		
Manganese	0.0200	0.0203			101		80-120		
Molybdenum	0.0200	0.0203			102		80-120		
Nickel	2.02	2.08			103		80-120		
Selenium	0.100	0.0901			90		80-120		
Silver	0.0200	0.0204			102		80-120		
Thallium	0.0600	0.0654			109		80-120		
Vanadium	0.0200	0.0206			103		80-120		
Zinc	0.440	0.428			97		80-120		
Batch number: 201351404402	Sample number(s): 1314118-1314120								
Antimony	0.100	0.113			113		80-120		
Arsenic	0.0600	0.0594			99		80-120		
Barium	0.0100	0.0107			107		80-120		
Beryllium	0.0100	0.00985			99		80-120		
Cadmium	0.0100	0.0106			106		80-120		
Chromium	0.0300	0.0314			105		80-120		
Cobalt	0.0100	0.0106			106		80-120		

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Quality Control Summary

Client Name: GES, Inc. Group Number: 2099428
Reported: 05/28/2020 15:12

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
Copper	0.0400	0.0416			104		80-120		
Lead	0.0300	0.0322			107		80-120		
Manganese	0.0200	0.0210			105		80-120		
Molybdenum	0.0200	0.0217			108		80-120		
Nickel	2.02	2.09			103		80-120		
Selenium	0.100	0.0973			97		80-120		
Silver	0.0200	0.0201			101		80-120		
Thallium	0.0600	0.0615			102		80-120		
Vanadium	0.0200	0.0210			105		80-120		
Zinc	0.440	0.438			100		80-120		
	mg/l	**mg/l**	**mg/l**	**mg/l**					
Batch number: 20135105101A	Sample number(s): 1314115,1314118-1314119,1314121								
Nitrite Nitrogen	0.700	0.710			101		90-110		
Batch number: 20138106101A	Sample number(s): 1314115,1314118-1314119,1314121								
Nitrate Nitrogen	2.50	2.64			106		90-110		
Batch number: 20138135217B	Sample number(s): 1314115								
Sulfate	7.50	7.76			103		90-110		
Batch number: 20139127101A	Sample number(s): 1314115,1314118-1314119,1314121								
Ferrous Iron	1.00	0.931			93		90-110		
Batch number: 20139135117A	Sample number(s): 1314118-1314119,1314121-1314122								
Sulfate	7.50	7.46			100		90-110		
	mg/l as CaCO3	**mg/l as CaCO3**	**mg/l as CaCO3**	**mg/l as CaCO3**					
Batch number: 20136002103A	Sample number(s): 1314115,1314118-1314121								
Total Alkalinity to pH 4.5	188	165.96			88		82-106		
Batch number: 20139006102B	Sample number(s): 1314122								
Total Alkalinity to pH 4.5	188	169.03			90		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: 201351404402	Sample number(s): 1314118-1314120 UNSPK: 1314119									
Antimony	N.D.	0.100	0.113	0.100	0.110	113	110	75-125	3	20

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: GES, Inc. Group Number: 2099428
Reported: 05/28/2020 15:12

MS/MSD (continued)

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

Analysis Name	Unspiked Conc mg/l	MS Spike Added mg/l	MS Conc mg/l	MSD Spike Added mg/l	MSD Conc mg/l	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Arsenic	N.D.	0.0600	0.0677	0.0600	0.0647	113	108	75-125	5	20
Barium	0.0827	0.0100	0.0931	0.0100	0.0915	104 (2)	88 (2)	75-125	2	20
Beryllium	N.D.	0.0100	0.00972	0.0100	0.00968	97	97	75-125	0	20
Cadmium	N.D.	0.0100	0.00944	0.0100	0.00917	94	92	75-125	3	20
Chromium	N.D.	0.0300	0.0301	0.0300	0.0303	100	101	75-125	1	20
Cobalt	0.0130	0.0100	0.0233	0.0100	0.0230	103	100	75-125	2	20
Copper	N.D.	0.0400	0.0385	0.0400	0.0378	96	95	75-125	2	20
Lead	N.D.	0.0300	0.0338	0.0300	0.0330	113	110	75-125	2	20
Manganese	5.14	0.0200	5.14	0.0200	5.06	5 (2)	-380 (2)	75-125	2	20
Molybdenum	N.D.	0.0200	0.0205	0.0200	0.0203	102	102	75-125	1	20
Nickel	0.0109	2.02	2.01	2.02	1.99	99	98	75-125	1	20
Selenium	N.D.	0.100	0.0968	0.100	0.0976	97	98	75-125	1	20
Silver	N.D.	0.0200	0.0201	0.0200	0.0199	101	100	75-125	1	20
Thallium	N.D.	0.0600	0.0611	0.0600	0.0578	102	96	75-125	6	20
Vanadium	N.D.	0.0200	0.0214	0.0200	0.0207	107	104	75-125	3	20
Zinc	0.00545	0.440	0.438	0.440	0.430	98	96	75-125	2	20
	mg/l	**mg/l**	**mg/l**	**mg/l**	**mg/l**					
Batch number: 20139127101A	Sample number(s): 1314115,1314118-1314119,1314121 UNSPK: 1314115									
Ferrous Iron	24.58	1.00	25.19	1.00	24.58	62 (2)	1 (2)	90-110	2	10
Batch number: 20139135117A	Sample number(s): 1314118-1314119,1314121-1314122 UNSPK: 1314118									
Sulfate	209.85	250	461.36			101		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: 201351404402	Sample number(s): 1314118-1314120 BKG: 1314119			
Antimony	N.D.	N.D.	0 (1)	20
Arsenic	N.D.	N.D.	0 (1)	20
Barium	0.0827	0.0826	0	20
Beryllium	N.D.	N.D.	0 (1)	20
Cadmium	N.D.	N.D.	0 (1)	20
Chromium	N.D.	N.D.	0 (1)	20
Cobalt	0.0130	0.0127	2 (1)	20
Copper	N.D.	N.D.	0 (1)	20
Lead	N.D.	N.D.	0 (1)	20

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: GES, Inc. Group Number: 2099428
Reported: 05/28/2020 15:12

Laboratory Duplicate (continued)

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

Analysis Name	BKG Conc	DUP Conc	DUP RPD	DUP RPD Max
	mg/l	mg/l		
Manganese	5.14	5.09	1	20
Molybdenum	N.D.	N.D.	0 (1)	20
Nickel	0.0109	0.0110	1 (1)	20
Selenium	N.D.	N.D.	0 (1)	20
Silver	N.D.	N.D.	0 (1)	20
Thallium	N.D.	N.D.	0 (1)	20
Vanadium	N.D.	N.D.	0 (1)	20
Zinc	0.00545	0.00559	3 (1)	20
	mg/l	mg/l		
Batch number: 20139127101A	Sample number(s): 1314115,1314118-1314119,1314121 BKG: 1314115			
Ferrous Iron	24.58	24.07	2	10
Batch number: 20139135117A	Sample number(s): 1314118-1314119,1314121-1314122 BKG: 1314118			
Sulfate	209.85	210.46	0 (1)	15
	mg/l as CaCO3	mg/l as CaCO3		
Batch number: 20139006102B	Sample number(s): 1314122 BKG: 1314122			
Total Alkalinity to pH 4.5	249.33	246.67	1	5

Surrogate Quality Control

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

Analysis Name: TCL 4.3 VOCs
Batch number: 4201431AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
1314119	103	103	97	97
1314120	103	104	96	98
1314122	103	105	96	98
Blank	102	102	96	96
LCS	101	103	98	99
LCSD	102	104	98	100
Limits:	80-120	80-120	80-120	80-120

Analysis Name: TCL 4.3 SVOCs
Batch number: 20139WAD026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
1314115	1*	2*	10*	64	71	77

*- 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: 05/28/2020 15:12

Group Number: 2099428

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: TCL 4.3 SVOCs
Batch number: 20139WAD026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
1314118	12	14	61	62	64	84
1314119	10	3*	18	70	76	82
1314120	36	36	77	40	59	80
1314121	15	5*	15*	71	80	78
1314122	8*	5*	26	59	65	81
Blank	34	48	80	74	71	94
LCS	35	49	74	68	70	83
LCSD	36	51	82	79	82	97
Limits:	10-67	10-84	18-141	38-113	44-102	34-128

Analysis Name: DRO micro-ext 8015B
Batch number: 201360002A

	Orthoterphenyl
1314116	65
1314117	111
1314119	86
1314120	94
1314122	95
Blank	87
LCS	84
LCSD	82
Limits:	52-132

Analysis Name: Methane
Batch number: 201360010A

	Propene
1314115	85
1314118	77
1314119	90
1314121	83
Blank	102
LCS	97
LCSD	98
Limits:	28-140

*- 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.

Environmental Analysis Request/Chain of Custody

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Acct. # 8390 Group # 209428 Sample # 13/4115-22

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 #:

Sample Identification	Collection Date	Collection Time	Grab	Composite	Matrix: Soil	Sediment	Water: Potable	Ground	NPDES	Surface	Other:	Total # of Containers	TPH-DRO C-10-28 (SW-846 8015B) H	Alkalinity (SM 2320B) -	Nitrate NO3 -1 & Nitrite NO-2(EPA 353.2) -/S	Manganese (6010) N	Ferrous Iron Fe2+ (SM 3500-Fe B modified-1997) H	Sulfate SO4 2- (EPA 300.0) -	Methane (RSKSOP-175 modified) H	Full Vocs (8260) H	Title 22 Metals (6010) N	Mercury (7470) N	Full SVOCs 8270 -	Remarks
TW-07	5-12-20	0910	X				X					11		X	X	X	X	X	X		X	X	X	
MW-121-Grab		1000										2	X											
MW-25/RW-25-Grab		1010										2	X											
TW-06		1100										11		X	X	X	X	X	X		X	X	X	
MW-122		1110										16	X	X	X	X	X	X	X	X	X	X	X	
MW-05/RW-05		1225										9	X	X						X	X	X	X	
TW-03		1240										11		X	X	X	X	X	X		X	X	X	
RW-1	5-12-20	1420	X				X					10	X	X				X		X	X	X	X	

Analyses Requested / Preservation Codes

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: midatlantic@gesonline.com & ges@equisonline.com

Phone:

Data Package Options (please check if required)

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

Type III (Reduced non-CLP) ☐ CT RCP ☐

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

NYSDEC Category ☐ A or ☐ B

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

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

Relinquished by:	Date	Time	Received by:	Date	Time
Jeff Plummer	5-13-20	0800	Denise Woody	5-13-20	0900
Denise Woody	5-13-20	1102		5/13/20	16:00
	5/13/20	16:00			

Relinquished by Commercial Carrier:

UPS _____ FedEx _____ Other _____

Temperature upon receipt 0.4-5.2 °C

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Sample Administration Receipt Documentation Log

Doc Log ID: 284420

Group Number(s): 2099428

Client: GES

Delivery and Receipt Information

Delivery Method:	ELLE Courier	Arrival Date:	05/13/2020
Number of Packages:	3	Number of Projects:	3
State/Province of Origin:	VA		

Arrival Condition Summary

Shipping Container Sealed:	No	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	No	Sample Date/Times match COC:	Yes
Samples Chilled:	Yes	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

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	DT42-01	0.8	DT	Wet	Y	Loose	N
2	Water	DT42-01	0.4	DT	Wet	Y	Loose	N
3	Water	46730061WS	5.2	IR	Wet	Y	Loose	N

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Lancaster, PA 17605-2425

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Explanation of Symbols and Abbreviations

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

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

<	less than
>	greater than
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.
ppb	parts per billion
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

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

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

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

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

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

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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 less than the LOQ
K2	Continuing Calibration Blank is above the QC limit and the sample result is less than the LOQ
K3	Initial Calibration Verification is above the QC limit and the sample result is less than the LOQ
K4	Continuing Calibration Verification is above the QC limit and the sample result is less than the LOQ
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: May 22, 2020 16:19

Project: NRG PRGS

Account #: 08390
Group Number: 2099429
PO Number: 0402919/51/206
Release Number: ORG # 0404
State of Sample Origin: VA

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

Respectfully Submitted,

Lynn M. Frederiksen
Principal Specialist Group Leader

(717) 556-7255

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SAMPLE INFORMATION

Client Sample Description	Sample Collection Date/Time	ELLE#
TW-14 Grab Groundwater	05/11/2020 10:30	1314123
MW-08S Grab Groundwater	05/11/2020 10:55	1314124
RW-05S Grab Groundwater	05/11/2020 12:12	1314125
MW-01S Grab Groundwater	05/11/2020 12:13	1314126
TW-05 Grab Groundwater	05/11/2020 12:55	1314127
MW-121 Grab Groundwater	05/11/2020 13:52	1314128
MW-25/RW-25 Grab Groundwater	05/11/2020 14:20	1314129
TW-04 Grab Groundwater	05/11/2020 15:05	1314130

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

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/13/2020 16:25
Collection Date/Time: 05/11/2020 10:30

GES, Inc.
ELLE Sample #: RW 1314123
ELLE Group #: 2099429
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	
14242	Acenaphthene	83-32-9	N.D.	0.1	1
14242	Acenaphthylene	208-96-8	N.D.	0.1	1
14242	Acetophenone	98-86-2	N.D.	4	1
14242	Anthracene	120-12-7	N.D.	0.1	1
14242	Atrazine	1912-24-9	N.D.	2	1
14242	Benzaldehyde	100-52-7	N.D.	3	1
14242	Benzo(a)anthracene	56-55-3	N.D.	0.1	1
14242	Benzo(a)pyrene	50-32-8	N.D.	0.1	1
14242	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	1
14242	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	1
14242	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	1
14242	1,1'-Biphenyl	92-52-4	N.D.	3	1
14242	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	1
14242	Butylbenzylphthalate	85-68-7	N.D.	2	1
14242	Di-n-butylphthalate	84-74-2	N.D.	2	1
14242	Caprolactam	105-60-2	N.D.	5	1
14242	Carbazole	86-74-8	N.D.	0.5	1
14242	4-Chloro-3-methylphenol	59-50-7	N.D.	2	1
14242	4-Chloroaniline	106-47-8	N.D.	4	1
14242	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	1
14242	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	1
14242	2-Chloronaphthalene	91-58-7	N.D.	0.4	1
14242	2-Chlorophenol	95-57-8	N.D.	0.5	1
14242	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	1
14242	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	0.5	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.				
14242	Chrysene	218-01-9	N.D.	0.1	1
14242	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	1
14242	Dibenzofuran	132-64-9	N.D.	0.5	1
14242	3,3'-Dichlorobenzidine	91-94-1	N.D.	3	1
14242	2,4-Dichlorophenol	120-83-2	N.D.	0.5	1
14242	Diethylphthalate	84-66-2	N.D.	2	1
14242	2,4-Dimethylphenol	105-67-9	N.D.	3	1
14242	Dimethylphthalate	131-11-3	N.D.	2	1
14242	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	8	1
14242	2,4-Dinitrophenol	51-28-5	N.D.	15	1
14242	2,4-Dinitrotoluene	121-14-2	N.D.	1	1
14242	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	1
14242	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	5	1
14242	Fluoranthene	206-44-0	N.D.	0.1	1
14242	Fluorene	86-73-7	N.D.	0.1	1

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/13/2020 16:25
Collection Date/Time: 05/11/2020 10:30

GES, Inc.
ELLE Sample #: RW 1314123
ELLE Group #: 2099429
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	
14242	Hexachlorobenzene	118-74-1	N.D.	0.1	1
14242	Hexachlorobutadiene	87-68-3	N.D.	0.5	1
14242	Hexachlorocyclopentadiene	77-47-4	N.D.	5	1
14242	Hexachloroethane	67-72-1	N.D.	1	1
14242	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	1
14242	Isophorone	78-59-1	N.D.	0.5	1
14242	2-Methylnaphthalene	91-57-6	N.D.	0.1	1
14242	2-Methylphenol	95-48-7	N.D.	0.5	1
14242	4-Methylphenol	106-44-5	N.D.	0.5	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.				
14242	Naphthalene	91-20-3	0.6	0.1	1
14242	2-Nitroaniline	88-74-4	N.D.	2	1
14242	3-Nitroaniline	99-09-2	N.D.	3	1
14242	4-Nitroaniline	100-01-6	N.D.	0.9	1
14242	Nitrobenzene	98-95-3	N.D.	0.5	1
14242	2-Nitrophenol	88-75-5	N.D.	3	1
14242	4-Nitrophenol	100-02-7	N.D.	11	1
14242	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.7	1
14242	N-Nitrosodiphenylamine	86-30-6	N.D.	0.7	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.				
14242	Di-n-octylphthalate	117-84-0	N.D.	5	1
14242	Pentachlorophenol	87-86-5	N.D.	1	1
14242	Phenanthrene	85-01-8	N.D.	0.1	1
14242	Phenol	108-95-2	N.D.	0.5	1
14242	Pyrene	129-00-0	N.D.	0.1	1
14242	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	1
14242	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	1

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14242	TCL 4.3 SVOCs	SW-846 8270D	1	20136WAD026	05/18/2020 17:51	Edward C Monborne	1
00813	BNA Water Extraction	SW-846 3510C	1	20136WAD026	05/18/2020 02:00	Mathias Okpo	1

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/13/2020 16:25
Collection Date/Time: 05/11/2020 10:55

GES, Inc.
ELLE Sample #: RW 1314124
ELLE Group #: 2099429
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	
14242	Acenaphthene	83-32-9	2	0.1	1
14242	Acenaphthylene	208-96-8	N.D.	0.1	1
14242	Acetophenone	98-86-2	N.D.	4	1
14242	Anthracene	120-12-7	N.D.	0.1	1
14242	Atrazine	1912-24-9	N.D.	2	1
14242	Benzaldehyde	100-52-7	N.D.	3	1
14242	Benzo(a)anthracene	56-55-3	N.D.	0.1	1
14242	Benzo(a)pyrene	50-32-8	N.D.	0.1	1
14242	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	1
14242	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	1
14242	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	1
14242	1,1'-Biphenyl	92-52-4	N.D.	3	1
14242	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	1
14242	Butylbenzylphthalate	85-68-7	N.D.	2	1
14242	Di-n-butylphthalate	84-74-2	N.D.	2	1
14242	Caprolactam	105-60-2	N.D.	5	1
14242	Carbazole	86-74-8	N.D.	0.5	1
14242	4-Chloro-3-methylphenol	59-50-7	N.D.	2	1
14242	4-Chloroaniline	106-47-8	N.D.	4	1
14242	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	1
14242	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	1
14242	2-Chloronaphthalene	91-58-7	N.D.	0.4	1
14242	2-Chlorophenol	95-57-8	N.D.	0.5	1
14242	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	1
14242	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	0.5	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.				
14242	Chrysene	218-01-9	N.D.	0.1	1
14242	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	1
14242	Dibenzofuran	132-64-9	N.D.	0.5	1
14242	3,3'-Dichlorobenzidine	91-94-1	N.D.	3	1
14242	2,4-Dichlorophenol	120-83-2	N.D.	0.5	1
14242	Diethylphthalate	84-66-2	N.D.	2	1
14242	2,4-Dimethylphenol	105-67-9	N.D.	3	1
14242	Dimethylphthalate	131-11-3	N.D.	2	1
14242	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	8	1
14242	2,4-Dinitrophenol	51-28-5	N.D.	14	1
14242	2,4-Dinitrotoluene	121-14-2	N.D.	1	1
14242	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	1
14242	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	5	1
14242	Fluoranthene	206-44-0	N.D.	0.1	1
14242	Fluorene	86-73-7	2	0.1	1

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/13/2020 16:25
Collection Date/Time: 05/11/2020 10:55

GES, Inc.
ELLE Sample #: RW 1314124
ELLE Group #: 2099429
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	
14242	Hexachlorobenzene	118-74-1	N.D.	0.1	1
14242	Hexachlorobutadiene	87-68-3	N.D.	0.5	1
14242	Hexachlorocyclopentadiene	77-47-4	N.D.	5	1
14242	Hexachloroethane	67-72-1	N.D.	1	1
14242	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	1
14242	Isophorone	78-59-1	N.D.	0.5	1
14242	2-Methylnaphthalene	91-57-6	N.D.	0.1	1
14242	2-Methylphenol	95-48-7	N.D.	0.5	1
14242	4-Methylphenol	106-44-5	N.D.	0.5	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.				
14242	Naphthalene	91-20-3	N.D.	0.1	1
14242	2-Nitroaniline	88-74-4	N.D.	2	1
14242	3-Nitroaniline	99-09-2	N.D.	3	1
14242	4-Nitroaniline	100-01-6	N.D.	0.9	1
14242	Nitrobenzene	98-95-3	N.D.	0.5	1
14242	2-Nitrophenol	88-75-5	N.D.	3	1
14242	4-Nitrophenol	100-02-7	N.D.	10	1
14242	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.7	1
14242	N-Nitrosodiphenylamine	86-30-6	N.D.	0.7	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.				
14242	Di-n-octylphthalate	117-84-0	N.D.	5	1
14242	Pentachlorophenol	87-86-5	N.D.	1	1
14242	Phenanthrene	85-01-8	N.D.	0.1	1
14242	Phenol	108-95-2	N.D.	0.5	1
14242	Pyrene	129-00-0	N.D.	0.1	1
14242	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	1
14242	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	1

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14242	TCL 4.3 SVOCs	SW-846 8270D	1	20136WAD026	05/18/2020 18:19	Edward C Monborne	1
00813	BNA Water Extraction	SW-846 3510C	1	20136WAD026	05/18/2020 02:00	Mathias Okpo	1

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/13/2020 16:25
Collection Date/Time: 05/11/2020 12:12

GES, Inc.
ELLE Sample #: RW 1314125
ELLE Group #: 2099429
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	
14242	Acenaphthene	83-32-9	N.D.	0.1	1
14242	Acenaphthylene	208-96-8	N.D.	0.1	1
14242	Acetophenone	98-86-2	N.D.	4	1
14242	Anthracene	120-12-7	N.D.	0.1	1
14242	Atrazine	1912-24-9	N.D.	2	1
14242	Benzaldehyde	100-52-7	N.D.	3	1
14242	Benzo(a)anthracene	56-55-3	N.D.	0.1	1
14242	Benzo(a)pyrene	50-32-8	N.D.	0.1	1
14242	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	1
14242	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	1
14242	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	1
14242	1,1'-Biphenyl	92-52-4	N.D.	3	1
14242	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	1
14242	Butylbenzylphthalate	85-68-7	N.D.	2	1
14242	Di-n-butylphthalate	84-74-2	3 J	2	1
14242	Caprolactam	105-60-2	N.D.	5	1
14242	Carbazole	86-74-8	N.D.	0.5	1
14242	4-Chloro-3-methylphenol	59-50-7	N.D.	2	1
14242	4-Chloroaniline	106-47-8	N.D.	4	1
14242	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	1
14242	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	1
14242	2-Chloronaphthalene	91-58-7	N.D.	0.4	1
14242	2-Chlorophenol	95-57-8	N.D.	0.5	1
14242	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	1
14242	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	0.5	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.				
14242	Chrysene	218-01-9	N.D.	0.1	1
14242	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	1
14242	Dibenzofuran	132-64-9	N.D.	0.5	1
14242	3,3'-Dichlorobenzidine	91-94-1	N.D.	3	1
14242	2,4-Dichlorophenol	120-83-2	N.D.	0.5	1
14242	Diethylphthalate	84-66-2	N.D.	2	1
14242	2,4-Dimethylphenol	105-67-9	N.D.	3	1
14242	Dimethylphthalate	131-11-3	N.D.	2	1
14242	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	8	1
14242	2,4-Dinitrophenol	51-28-5	N.D.	15	1
14242	2,4-Dinitrotoluene	121-14-2	N.D.	1	1
14242	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	1
14242	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	5	1
14242	Fluoranthene	206-44-0	N.D.	0.1	1
14242	Fluorene	86-73-7	0.6	0.1	1

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/13/2020 16:25
Collection Date/Time: 05/11/2020 12:12

GES, Inc.
ELLE Sample #: RW 1314125
ELLE Group #: 2099429
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	
14242	Hexachlorobenzene	118-74-1	N.D.	0.1	1
14242	Hexachlorobutadiene	87-68-3	N.D.	0.5	1
14242	Hexachlorocyclopentadiene	77-47-4	N.D.	5	1
14242	Hexachloroethane	67-72-1	N.D.	1	1
14242	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	1
14242	Isophorone	78-59-1	N.D.	0.5	1
14242	2-Methylnaphthalene	91-57-6	N.D.	0.1	1
14242	2-Methylphenol	95-48-7	0.6 J	0.5	1
14242	4-Methylphenol	106-44-5	N.D.	0.5	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.				
14242	Naphthalene	91-20-3	N.D.	0.1	1
14242	2-Nitroaniline	88-74-4	N.D.	2	1
14242	3-Nitroaniline	99-09-2	N.D.	3	1
14242	4-Nitroaniline	100-01-6	N.D.	0.9	1
14242	Nitrobenzene	98-95-3	N.D.	0.5	1
14242	2-Nitrophenol	88-75-5	N.D.	3	1
14242	4-Nitrophenol	100-02-7	N.D.	10	1
14242	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.7	1
14242	N-Nitrosodiphenylamine	86-30-6	N.D.	0.7	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.				
14242	Di-n-octylphthalate	117-84-0	N.D.	5	1
14242	Pentachlorophenol	87-86-5	N.D.	1	1
14242	Phenanthrene	85-01-8	N.D.	0.1	1
14242	Phenol	108-95-2	N.D.	0.5	1
14242	Pyrene	129-00-0	0.4 J	0.1	1
14242	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	1
14242	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	1

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14242	TCL 4.3 SVOCs	SW-846 8270D	1	20136WAD026	05/18/2020 18:47	Edward C Monborne	1
00813	BNA Water Extraction	SW-846 3510C	1	20136WAD026	05/18/2020 02:00	Mathias Okpo	1

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/13/2020 16:25
Collection Date/Time: 05/11/2020 12:13

GES, Inc.
ELLE Sample #: RW 1314126
ELLE Group #: 2099429
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	
14242	Acenaphthene	83-32-9	N.D.	0.1	1
14242	Acenaphthylene	208-96-8	N.D.	0.1	1
14242	Acetophenone	98-86-2	N.D.	4	1
14242	Anthracene	120-12-7	N.D.	0.1	1
14242	Atrazine	1912-24-9	N.D.	2	1
14242	Benzaldehyde	100-52-7	N.D.	3	1
14242	Benzo(a)anthracene	56-55-3	N.D.	0.1	1
14242	Benzo(a)pyrene	50-32-8	N.D.	0.1	1
14242	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	1
14242	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	1
14242	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	1
14242	1,1'-Biphenyl	92-52-4	N.D.	3	1
14242	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	1
14242	Butylbenzylphthalate	85-68-7	N.D.	2	1
14242	Di-n-butylphthalate	84-74-2	N.D.	2	1
14242	Caprolactam	105-60-2	N.D.	5	1
14242	Carbazole	86-74-8	N.D.	0.5	1
14242	4-Chloro-3-methylphenol	59-50-7	N.D.	2	1
14242	4-Chloroaniline	106-47-8	N.D.	4	1
14242	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	1
14242	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	1
14242	2-Chloronaphthalene	91-58-7	N.D.	0.4	1
14242	2-Chlorophenol	95-57-8	N.D.	0.5	1
14242	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	1
14242	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	0.5	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.				
14242	Chrysene	218-01-9	N.D.	0.1	1
14242	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	1
14242	Dibenzofuran	132-64-9	N.D.	0.5	1
14242	3,3'-Dichlorobenzidine	91-94-1	N.D.	3	1
14242	2,4-Dichlorophenol	120-83-2	N.D.	0.5	1
14242	Diethylphthalate	84-66-2	N.D.	2	1
14242	2,4-Dimethylphenol	105-67-9	N.D.	3	1
14242	Dimethylphthalate	131-11-3	N.D.	2	1
14242	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	8	1
14242	2,4-Dinitrophenol	51-28-5	N.D.	14	1
14242	2,4-Dinitrotoluene	121-14-2	N.D.	1	1
14242	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	1
14242	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	5	1
14242	Fluoranthene	206-44-0	N.D.	0.1	1
14242	Fluorene	86-73-7	N.D.	0.1	1

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/13/2020 16:25
Collection Date/Time: 05/11/2020 12:13

GES, Inc.
ELLE Sample #: RW 1314126
ELLE Group #: 2099429
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	
14242	Hexachlorobenzene	118-74-1	N.D.	0.1	1
14242	Hexachlorobutadiene	87-68-3	N.D.	0.5	1
14242	Hexachlorocyclopentadiene	77-47-4	N.D.	5	1
14242	Hexachloroethane	67-72-1	N.D.	1	1
14242	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	1
14242	Isophorone	78-59-1	N.D.	0.5	1
14242	2-Methylnaphthalene	91-57-6	N.D.	0.1	1
14242	2-Methylphenol	95-48-7	N.D.	0.5	1
14242	4-Methylphenol	106-44-5	N.D.	0.5	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.				
14242	Naphthalene	91-20-3	N.D.	0.1	1
14242	2-Nitroaniline	88-74-4	N.D.	2	1
14242	3-Nitroaniline	99-09-2	N.D.	3	1
14242	4-Nitroaniline	100-01-6	N.D.	0.9	1
14242	Nitrobenzene	98-95-3	N.D.	0.5	1
14242	2-Nitrophenol	88-75-5	N.D.	3	1
14242	4-Nitrophenol	100-02-7	N.D.	10	1
14242	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.7	1
14242	N-Nitrosodiphenylamine	86-30-6	N.D.	0.7	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.				
14242	Di-n-octylphthalate	117-84-0	N.D.	5	1
14242	Pentachlorophenol	87-86-5	N.D.	1	1
14242	Phenanthrene	85-01-8	N.D.	0.1	1
14242	Phenol	108-95-2	N.D.	0.5	1
14242	Pyrene	129-00-0	0.2 J	0.1	1
14242	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	1
14242	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	1

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14242	TCL 4.3 SVOCs	SW-846 8270D	1	20136WAD026	05/18/2020 19:15	Edward C Monborne	1
00813	BNA Water Extraction	SW-846 3510C	1	20136WAD026	05/18/2020 02:00	Mathias Okpo	1

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/13/2020 16:25
Collection Date/Time: 05/11/2020 12:55

GES, Inc.
ELLE Sample #: RW 1314127
ELLE Group #: 2099429
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	
14242	Acenaphthene	83-32-9	0.8	0.1	1
14242	Acenaphthylene	208-96-8	N.D.	0.1	1
14242	Acetophenone	98-86-2	N.D.	4	1
14242	Anthracene	120-12-7	N.D.	0.1	1
14242	Atrazine	1912-24-9	N.D.	2	1
14242	Benzaldehyde	100-52-7	N.D.	3	1
14242	Benzo(a)anthracene	56-55-3	N.D.	0.1	1
14242	Benzo(a)pyrene	50-32-8	N.D.	0.1	1
14242	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	1
14242	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	1
14242	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	1
14242	1,1'-Biphenyl	92-52-4	N.D.	3	1
14242	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	1
14242	Butylbenzylphthalate	85-68-7	N.D.	2	1
14242	Di-n-butylphthalate	84-74-2	N.D.	2	1
14242	Caprolactam	105-60-2	N.D.	5	1
14242	Carbazole	86-74-8	N.D.	0.5	1
14242	4-Chloro-3-methylphenol	59-50-7	N.D.	2	1
14242	4-Chloroaniline	106-47-8	N.D.	4	1
14242	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	1
14242	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	1
14242	2-Chloronaphthalene	91-58-7	N.D.	0.4	1
14242	2-Chlorophenol	95-57-8	N.D.	0.5	1
14242	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	1
14242	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	0.5	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.				
14242	Chrysene	218-01-9	N.D.	0.1	1
14242	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	1
14242	Dibenzofuran	132-64-9	N.D.	0.5	1
14242	3,3'-Dichlorobenzidine	91-94-1	N.D.	3	1
14242	2,4-Dichlorophenol	120-83-2	N.D.	0.5	1
14242	Diethylphthalate	84-66-2	N.D.	2	1
14242	2,4-Dimethylphenol	105-67-9	N.D.	3	1
14242	Dimethylphthalate	131-11-3	N.D.	2	1
14242	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	8	1
14242	2,4-Dinitrophenol	51-28-5	N.D.	14	1
14242	2,4-Dinitrotoluene	121-14-2	N.D.	1	1
14242	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	1
14242	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	5	1
14242	Fluoranthene	206-44-0	N.D.	0.1	1
14242	Fluorene	86-73-7	0.6	0.1	1

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/13/2020 16:25
Collection Date/Time: 05/11/2020 12:55

GES, Inc.
ELLE Sample #: RW 1314127
ELLE Group #: 2099429
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	
14242	Hexachlorobenzene	118-74-1	N.D.	0.1	1
14242	Hexachlorobutadiene	87-68-3	N.D.	0.5	1
14242	Hexachlorocyclopentadiene	77-47-4	N.D.	5	1
14242	Hexachloroethane	67-72-1	N.D.	1	1
14242	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	1
14242	Isophorone	78-59-1	N.D.	0.5	1
14242	2-Methylnaphthalene	91-57-6	N.D.	0.1	1
14242	2-Methylphenol	95-48-7	N.D.	0.5	1
14242	4-Methylphenol	106-44-5	N.D.	0.5	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.				
14242	Naphthalene	91-20-3	N.D.	0.1	1
14242	2-Nitroaniline	88-74-4	N.D.	2	1
14242	3-Nitroaniline	99-09-2	N.D.	3	1
14242	4-Nitroaniline	100-01-6	N.D.	0.9	1
14242	Nitrobenzene	98-95-3	N.D.	0.5	1
14242	2-Nitrophenol	88-75-5	N.D.	3	1
14242	4-Nitrophenol	100-02-7	N.D.	10	1
14242	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.7	1
14242	N-Nitrosodiphenylamine	86-30-6	N.D.	0.7	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.				
14242	Di-n-octylphthalate	117-84-0	N.D.	5	1
14242	Pentachlorophenol	87-86-5	N.D.	1	1
14242	Phenanthrene	85-01-8	0.3 J	0.1	1
14242	Phenol	108-95-2	N.D.	0.5	1
14242	Pyrene	129-00-0	0.2 J	0.1	1
14242	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	1
14242	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	1

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14242	TCL 4.3 SVOCs	SW-846 8270D	1	20136WAD026	05/18/2020 19:43	Edward C Monborne	1
00813	BNA Water Extraction	SW-846 3510C	1	20136WAD026	05/18/2020 02:00	Mathias Okpo	1

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/13/2020 16:25
Collection Date/Time: 05/11/2020 13:52

GES, Inc.
ELLE Sample #: RW 1314128
ELLE Group #: 2099429
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	
14242	Acenaphthene	83-32-9	N.D.	0.1	1
14242	Acenaphthylene	208-96-8	N.D.	0.1	1
14242	Acetophenone	98-86-2	N.D.	4	1
14242	Anthracene	120-12-7	N.D.	0.1	1
14242	Atrazine	1912-24-9	N.D.	2	1
14242	Benzaldehyde	100-52-7	N.D.	3	1
14242	Benzo(a)anthracene	56-55-3	N.D.	0.1	1
14242	Benzo(a)pyrene	50-32-8	N.D.	0.1	1
14242	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	1
14242	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	1
14242	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	1
14242	1,1'-Biphenyl	92-52-4	N.D.	3	1
14242	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	1
14242	Butylbenzylphthalate	85-68-7	N.D.	2	1
14242	Di-n-butylphthalate	84-74-2	N.D.	2	1
14242	Caprolactam	105-60-2	N.D.	5	1
14242	Carbazole	86-74-8	N.D.	0.5	1
14242	4-Chloro-3-methylphenol	59-50-7	N.D.	2	1
14242	4-Chloroaniline	106-47-8	N.D.	4	1
14242	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	1
14242	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	1
14242	2-Chloronaphthalene	91-58-7	N.D.	0.4	1
14242	2-Chlorophenol	95-57-8	N.D.	0.5	1
14242	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	1
14242	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	0.5	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.				
14242	Chrysene	218-01-9	N.D.	0.1	1
14242	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	1
14242	Dibenzofuran	132-64-9	N.D.	0.5	1
14242	3,3'-Dichlorobenzidine	91-94-1	N.D.	3	1
14242	2,4-Dichlorophenol	120-83-2	N.D.	0.5	1
14242	Diethylphthalate	84-66-2	N.D.	2	1
14242	2,4-Dimethylphenol	105-67-9	9 J	3	1
14242	Dimethylphthalate	131-11-3	N.D.	2	1
14242	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	8	1
14242	2,4-Dinitrophenol	51-28-5	N.D.	14	1
14242	2,4-Dinitrotoluene	121-14-2	N.D.	1	1
14242	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	1
14242	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	5	1
14242	Fluoranthene	206-44-0	N.D.	0.1	1
14242	Fluorene	86-73-7	N.D.	0.1	1

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/13/2020 16:25
Collection Date/Time: 05/11/2020 13:52

GES, Inc.
ELLE Sample #: RW 1314128
ELLE Group #: 2099429
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	
14242	Hexachlorobenzene	118-74-1	N.D.	0.1	1
14242	Hexachlorobutadiene	87-68-3	N.D.	0.5	1
14242	Hexachlorocyclopentadiene	77-47-4	N.D.	5	1
14242	Hexachloroethane	67-72-1	N.D.	1	1
14242	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	1
14242	Isophorone	78-59-1	N.D.	0.5	1
14242	2-Methylnaphthalene	91-57-6	N.D.	0.1	1
14242	2-Methylphenol	95-48-7	0.9 J	0.5	1
14242	4-Methylphenol	106-44-5	N.D.	0.5	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.				
14242	Naphthalene	91-20-3	2	0.1	1
14242	2-Nitroaniline	88-74-4	N.D.	2	1
14242	3-Nitroaniline	99-09-2	N.D.	3	1
14242	4-Nitroaniline	100-01-6	N.D.	0.9	1
14242	Nitrobenzene	98-95-3	N.D.	0.5	1
14242	2-Nitrophenol	88-75-5	N.D.	3	1
14242	4-Nitrophenol	100-02-7	N.D.	10	1
14242	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.7	1
14242	N-Nitrosodiphenylamine	86-30-6	N.D.	0.7	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.				
14242	Di-n-octylphthalate	117-84-0	N.D.	5	1
14242	Pentachlorophenol	87-86-5	N.D.	1	1
14242	Phenanthrene	85-01-8	N.D.	0.1	1
14242	Phenol	108-95-2	N.D.	0.5	1
14242	Pyrene	129-00-0	N.D.	0.1	1
14242	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	1
14242	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	1

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14242	TCL 4.3 SVOCs	SW-846 8270D	1	20136WAD026	05/18/2020 20:11	Edward C Monborne	1
00813	BNA Water Extraction	SW-846 3510C	1	20136WAD026	05/18/2020 02:00	Mathias Okpo	1

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/13/2020 16:25
Collection Date/Time: 05/11/2020 14:20

GES, Inc.
ELLE Sample #: RW 1314129
ELLE Group #: 2099429
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	
14242	Acenaphthene	83-32-9	N.D.	0.1	1
14242	Acenaphthylene	208-96-8	N.D.	0.1	1
14242	Acetophenone	98-86-2	N.D.	4	1
14242	Anthracene	120-12-7	N.D.	0.1	1
14242	Atrazine	1912-24-9	N.D.	2	1
14242	Benzaldehyde	100-52-7	N.D.	3	1
14242	Benzo(a)anthracene	56-55-3	N.D.	0.1	1
14242	Benzo(a)pyrene	50-32-8	N.D.	0.1	1
14242	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	1
14242	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	1
14242	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	1
14242	1,1'-Biphenyl	92-52-4	N.D.	3	1
14242	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	1
14242	Butylbenzylphthalate	85-68-7	N.D.	2	1
14242	Di-n-butylphthalate	84-74-2	N.D.	2	1
14242	Caprolactam	105-60-2	N.D.	5	1
14242	Carbazole	86-74-8	N.D.	0.5	1
14242	4-Chloro-3-methylphenol	59-50-7	N.D.	2	1
14242	4-Chloroaniline	106-47-8	N.D.	4	1
14242	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	1
14242	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	1
14242	2-Chloronaphthalene	91-58-7	N.D.	0.4	1
14242	2-Chlorophenol	95-57-8	N.D.	0.5	1
14242	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	1
14242	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	0.5	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.				
14242	Chrysene	218-01-9	N.D.	0.1	1
14242	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	1
14242	Dibenzofuran	132-64-9	N.D.	0.5	1
14242	3,3'-Dichlorobenzidine	91-94-1	N.D.	3	1
14242	2,4-Dichlorophenol	120-83-2	N.D.	0.5	1
14242	Diethylphthalate	84-66-2	N.D.	2	1
14242	2,4-Dimethylphenol	105-67-9	N.D.	3	1
14242	Dimethylphthalate	131-11-3	N.D.	2	1
14242	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	8	1
14242	2,4-Dinitrophenol	51-28-5	N.D.	14	1
14242	2,4-Dinitrotoluene	121-14-2	N.D.	1	1
14242	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	1
14242	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	5	1
14242	Fluoranthene	206-44-0	N.D.	0.1	1
14242	Fluorene	86-73-7	N.D.	0.1	1

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/13/2020 16:25
Collection Date/Time: 05/11/2020 14:20

GES, Inc.
ELLE Sample #: RW 1314129
ELLE Group #: 2099429
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	
14242	Hexachlorobenzene	118-74-1	N.D.	0.1	1
14242	Hexachlorobutadiene	87-68-3	N.D.	0.5	1
14242	Hexachlorocyclopentadiene	77-47-4	N.D.	5	1
14242	Hexachloroethane	67-72-1	N.D.	1	1
14242	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	1
14242	Isophorone	78-59-1	N.D.	0.5	1
14242	2-Methylnaphthalene	91-57-6	N.D.	0.1	1
14242	2-Methylphenol	95-48-7	N.D.	0.5	1
14242	4-Methylphenol	106-44-5	N.D.	0.5	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.				
14242	Naphthalene	91-20-3	N.D.	0.1	1
14242	2-Nitroaniline	88-74-4	N.D.	2	1
14242	3-Nitroaniline	99-09-2	N.D.	3	1
14242	4-Nitroaniline	100-01-6	N.D.	0.9	1
14242	Nitrobenzene	98-95-3	N.D.	0.5	1
14242	2-Nitrophenol	88-75-5	N.D.	3	1
14242	4-Nitrophenol	100-02-7	N.D.	10	1
14242	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.7	1
14242	N-Nitrosodiphenylamine	86-30-6	N.D.	0.7	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.				
14242	Di-n-octylphthalate	117-84-0	N.D.	5	1
14242	Pentachlorophenol	87-86-5	N.D.	1	1
14242	Phenanthrene	85-01-8	N.D.	0.1	1
14242	Phenol	108-95-2	N.D.	0.5	1
14242	Pyrene	129-00-0	N.D.	0.1	1
14242	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	1
14242	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	1

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14242	TCL 4.3 SVOCs	SW-846 8270D	1	20136WAD026	05/18/2020 20:40	Edward C Monborne	1
00813	BNA Water Extraction	SW-846 3510C	1	20136WAD026	05/18/2020 02:00	Mathias Okpo	1

Sample Description: **TW-04 Grab Groundwater**
NRG - PRGS

Project Name: **NRG PRGS**

Submittal Date/Time: 05/13/2020 16:25
Collection Date/Time: 05/11/2020 15:05

GES, Inc.
ELLE Sample #: RW 1314130
ELLE Group #: 2099429
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	
14242	Acenaphthene	83-32-9	0.9	0.1	1
14242	Acenaphthylene	208-96-8	N.D.	0.1	1
14242	Acetophenone	98-86-2	N.D.	4	1
14242	Anthracene	120-12-7	N.D.	0.1	1
14242	Atrazine	1912-24-9	N.D.	2	1
14242	Benzaldehyde	100-52-7	N.D.	3	1
14242	Benzo(a)anthracene	56-55-3	N.D.	0.1	1
14242	Benzo(a)pyrene	50-32-8	N.D.	0.1	1
14242	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	1
14242	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	1
14242	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	1
14242	1,1'-Biphenyl	92-52-4	N.D.	3	1
14242	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	1
14242	Butylbenzylphthalate	85-68-7	N.D.	2	1
14242	Di-n-butylphthalate	84-74-2	N.D.	2	1
14242	Caprolactam	105-60-2	N.D.	5	1
14242	Carbazole	86-74-8	0.8 J	0.5	1
14242	4-Chloro-3-methylphenol	59-50-7	N.D.	2	1
14242	4-Chloroaniline	106-47-8	N.D.	4	1
14242	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	1
14242	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	1
14242	2-Chloronaphthalene	91-58-7	N.D.	0.4	1
14242	2-Chlorophenol	95-57-8	N.D.	0.5	1
14242	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	1
14242	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	0.5	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.				
14242	Chrysene	218-01-9	N.D.	0.1	1
14242	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	1
14242	Dibenzofuran	132-64-9	N.D.	0.5	1
14242	3,3'-Dichlorobenzidine	91-94-1	N.D.	3	1
14242	2,4-Dichlorophenol	120-83-2	N.D.	0.5	1
14242	Diethylphthalate	84-66-2	N.D.	2	1
14242	2,4-Dimethylphenol	105-67-9	N.D.	3	1
14242	Dimethylphthalate	131-11-3	N.D.	2	1
14242	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	8	1
14242	2,4-Dinitrophenol	51-28-5	N.D.	14	1
14242	2,4-Dinitrotoluene	121-14-2	N.D.	1	1
14242	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	1
14242	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	5	1
14242	Fluoranthene	206-44-0	0.2 J	0.1	1
14242	Fluorene	86-73-7	0.4 J	0.1	1

Sample Description: **TW-04 Grab Groundwater**
NRG - PRGS

Project Name: **NRG PRGS**

Submittal Date/Time: 05/13/2020 16:25
Collection Date/Time: 05/11/2020 15:05

GES, Inc.
ELLE Sample #: RW 1314130
ELLE Group #: 2099429
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	
14242	Hexachlorobenzene	118-74-1	N.D.	0.1	1
14242	Hexachlorobutadiene	87-68-3	N.D.	0.5	1
14242	Hexachlorocyclopentadiene	77-47-4	N.D.	5	1
14242	Hexachloroethane	67-72-1	N.D.	1	1
14242	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	1
14242	Isophorone	78-59-1	N.D.	0.5	1
14242	2-Methylnaphthalene	91-57-6	N.D.	0.1	1
14242	2-Methylphenol	95-48-7	N.D.	0.5	1
14242	4-Methylphenol	106-44-5	N.D.	0.5	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.				
14242	Naphthalene	91-20-3	0.3 J	0.1	1
14242	2-Nitroaniline	88-74-4	N.D.	2	1
14242	3-Nitroaniline	99-09-2	N.D.	3	1
14242	4-Nitroaniline	100-01-6	N.D.	0.9	1
14242	Nitrobenzene	98-95-3	N.D.	0.5	1
14242	2-Nitrophenol	88-75-5	N.D.	3	1
14242	4-Nitrophenol	100-02-7	N.D.	10	1
14242	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.7	1
14242	N-Nitrosodiphenylamine	86-30-6	N.D.	0.7	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.				
14242	Di-n-octylphthalate	117-84-0	N.D.	5	1
14242	Pentachlorophenol	87-86-5	N.D.	1	1
14242	Phenanthrene	85-01-8	0.3 J	0.1	1
14242	Phenol	108-95-2	N.D.	0.5	1
14242	Pyrene	129-00-0	N.D.	0.1	1
14242	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	1
14242	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	1
Metals	**SW-846 6010C**		**mg/l**	**mg/l**	
07044	Antimony	7440-36-0	N.D.	0.0160	1
07035	Arsenic	7440-38-2	N.D.	0.0160	1
07046	Barium	7440-39-3	0.0382	0.0010	1
07047	Beryllium	7440-41-7	N.D.	0.0010	1
07049	Cadmium	7440-43-9	0.0023 J	0.0010	1
07051	Chromium	7440-47-3	N.D.	0.0016	1
07052	Cobalt	7440-48-4	0.0911	0.0015	1
07053	Copper	7440-50-8	N.D.	0.0120	1
07055	Lead	7439-92-1	0.0119 J	0.0071	1
07060	Molybdenum	7439-98-7	N.D.	0.0020	1
07061	Nickel	7440-02-0	0.123	0.0021	1

Sample Description: **TW-04 Grab Groundwater**
NRG - PRGS

Project Name: **NRG PRGS**

Submittal Date/Time: 05/13/2020 16:25
Collection Date/Time: 05/11/2020 15:05

GES, Inc.
ELLE Sample #: RW 1314130
ELLE Group #: 2099429
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Metals		**SW-846 6010C**	**mg/l**	**mg/l**	
07036	Selenium	7782-49-2	N.D.	0.0160	1
07066	Silver	7440-22-4	N.D.	0.0050	1
07022	Thallium	7440-28-0	N.D.	0.0081	1
07071	Vanadium	7440-62-2	0.0022 J	0.0019	1
07072	Zinc	7440-66-6	0.190	0.0037	1
		SW-846 7470A	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000050	1

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14242	TCL 4.3 SVOCs	SW-846 8270D	1	20136WAD026	05/18/2020 21:08	Edward C Monborne	1
00813	BNA Water Extraction	SW-846 3510C	1	20136WAD026	05/18/2020 02:00	Mathias Okpo	1
07044	Antimony	SW-846 6010C	1	201391404401	05/19/2020 18:12	Elaine F Stoltzfus	1
07035	Arsenic	SW-846 6010C	1	201391404401	05/20/2020 16:52	Cindy M Gehman	1
07046	Barium	SW-846 6010C	1	201391404401	05/19/2020 18:12	Elaine F Stoltzfus	1
07047	Beryllium	SW-846 6010C	1	201391404401	05/19/2020 18:12	Elaine F Stoltzfus	1
07049	Cadmium	SW-846 6010C	1	201391404401	05/19/2020 18:12	Elaine F Stoltzfus	1
07051	Chromium	SW-846 6010C	1	201391404401	05/19/2020 18:12	Elaine F Stoltzfus	1
07052	Cobalt	SW-846 6010C	1	201391404401	05/19/2020 18:12	Elaine F Stoltzfus	1
07053	Copper	SW-846 6010C	1	201391404401	05/19/2020 18:12	Elaine F Stoltzfus	1
07055	Lead	SW-846 6010C	1	201391404401	05/19/2020 18:12	Elaine F Stoltzfus	1
07060	Molybdenum	SW-846 6010C	1	201391404401	05/19/2020 18:12	Elaine F Stoltzfus	1
07061	Nickel	SW-846 6010C	1	201391404401	05/19/2020 18:12	Elaine F Stoltzfus	1
07036	Selenium	SW-846 6010C	1	201391404401	05/19/2020 18:12	Elaine F Stoltzfus	1
07066	Silver	SW-846 6010C	1	201391404401	05/20/2020 16:52	Cindy M Gehman	1
07022	Thallium	SW-846 6010C	1	201391404401	05/19/2020 18:12	Elaine F Stoltzfus	1
07071	Vanadium	SW-846 6010C	1	201391404401	05/19/2020 18:12	Elaine F Stoltzfus	1
07072	Zinc	SW-846 6010C	1	201391404401	05/19/2020 18:12	Elaine F Stoltzfus	1
00259	Mercury	SW-846 7470A	1	201350571302	05/19/2020 10:58	Damary Valentin	1
14044	ICP-WW, 3005A (tot rec) - U345	SW-846 3005A	1	201391404401	05/19/2020 03:11	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	201350571302	05/19/2020 04:03	James L Mertz	1

Quality Control Summary

Client Name: GES, Inc. Group Number: 2099429
Reported: 05/22/2020 16:19

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: 20136WAD026	Sample number(s): 1314123-1314130	
Acenaphthene	N.D.	0.1
Acenaphthylene	N.D.	0.1
Acetophenone	N.D.	4
Anthracene	N.D.	0.1
Atrazine	N.D.	2
Benzaldehyde	N.D.	3
Benzo(a)anthracene	N.D.	0.1
Benzo(a)pyrene	N.D.	0.1
Benzo(b)fluoranthene	N.D.	0.1
Benzo(g,h,i)perylene	N.D.	0.1
Benzo(k)fluoranthene	N.D.	0.1
1,1'-Biphenyl	N.D.	3
4-Bromophenyl-phenylether	N.D.	0.5
Butylbenzylphthalate	N.D.	2
Di-n-butylphthalate	N.D.	2
Caprolactam	N.D.	5
Carbazole	N.D.	0.5
4-Chloro-3-methylphenol	N.D.	2
4-Chloroaniline	N.D.	4
bis(2-Chloroethoxy)methane	N.D.	0.5
bis(2-Chloroethyl)ether	N.D.	0.5
2-Chloronaphthalene	N.D.	0.4
2-Chlorophenol	N.D.	0.5
4-Chlorophenyl-phenylether	N.D.	0.5
2,2'-oxybis(1-Chloropropane)	N.D.	0.5
Chrysene	N.D.	0.1
Dibenz(a,h)anthracene	N.D.	0.1
Dibenzofuran	N.D.	0.5
3,3'-Dichlorobenzidine	N.D.	3
2,4-Dichlorophenol	N.D.	0.5
Diethylphthalate	N.D.	2
2,4-Dimethylphenol	N.D.	3
Dimethylphthalate	N.D.	2
4,6-Dinitro-2-methylphenol	N.D.	8
2,4-Dinitrophenol	N.D.	14
2,4-Dinitrotoluene	N.D.	1
2,6-Dinitrotoluene	N.D.	0.5
bis(2-Ethylhexyl)phthalate	N.D.	5
Fluoranthene	N.D.	0.1

*- 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: 05/22/2020 16:19

Group Number: 2099429

Method Blank (continued)

Analysis Name	Result	MDL
	ug/l	ug/l
Fluorene	N.D.	0.1
Hexachlorobenzene	N.D.	0.1
Hexachlorobutadiene	N.D.	0.5
Hexachlorocyclopentadiene	N.D.	5
Hexachloroethane	N.D.	1
Indeno(1,2,3-cd)pyrene	N.D.	0.1
Isophorone	N.D.	0.5
2-Methylnaphthalene	N.D.	0.1
2-Methylphenol	N.D.	0.5
4-Methylphenol	N.D.	0.5
Naphthalene	N.D.	0.1
2-Nitroaniline	N.D.	2
3-Nitroaniline	N.D.	3
4-Nitroaniline	N.D.	0.9
Nitrobenzene	N.D.	0.5
2-Nitrophenol	N.D.	3
4-Nitrophenol	N.D.	10
N-Nitroso-di-n-propylamine	N.D.	0.7
N-Nitrosodiphenylamine	N.D.	0.7
Di-n-octylphthalate	N.D.	5
Pentachlorophenol	N.D.	1
Phenanthrene	N.D.	0.1
Phenol	N.D.	0.5
Pyrene	N.D.	0.1
2,4,5-Trichlorophenol	N.D.	0.5
2,4,6-Trichlorophenol	N.D.	0.5
	mg/l	mg/l
Batch number: 201350571302	Sample number(s): 1314130	
Mercury	N.D.	0.000050
Batch number: 201391404401	Sample number(s): 1314130	
Antimony	N.D.	0.0160
Arsenic	N.D.	0.0160
Barium	N.D.	0.0010
Beryllium	N.D.	0.0010
Cadmium	N.D.	0.0010
Chromium	N.D.	0.0016
Cobalt	N.D.	0.0015
Copper	N.D.	0.0120
Lead	N.D.	0.0071
Molybdenum	N.D.	0.0020
Nickel	N.D.	0.0021
Selenium	N.D.	0.0160
Silver	N.D.	0.0050
Thallium	N.D.	0.0081

*- 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: 05/22/2020 16:19

Group Number: 2099429

Method Blank (continued)

Analysis Name	Result	MDL
	mg/l	mg/l
Vanadium	N.D.	0.0019
Zinc	N.D.	0.0037

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: 20136WAD026	Sample number(s): 1314123-1314130								
Acenaphthene	50	41.45	50	38.66	83	77	52-114	7	30
Acenaphthylene	50	41.4	50	38.69	83	77	56-127	7	30
Acetophenone	50	41.94	50	40.26	84	81	61-114	4	30
Anthracene	50	44.9	50	42.06	90	84	67-116	7	30
Atrazine	50	47.03	50	45.35	94	91	71-133	4	30
Benzaldehyde	50	43.22	50	39.62	86	79	55-116	9	30
Benzo(a)anthracene	50	47.83	50	45.15	96	90	68-123	6	30
Benzo(a)pyrene	50	46.48	50	44.62	93	89	71-117	4	30
Benzo(b)fluoranthene	50	46.56	50	44.89	93	90	69-121	4	30
Benzo(g,h,i)perylene	50	45.38	50	44.09	91	88	60-119	3	30
Benzo(k)fluoranthene	50	47.33	50	45.65	95	91	69-122	4	30
1,1'-Biphenyl	50	40.46	50	37.11	81	74	56-109	9	30
4-Bromophenyl-phenylether	50	43.02	50	39.61	86	79	60-114	8	30
Butylbenzylphthalate	50	34.33	50	29.93	69	60	40-133	14	30
Di-n-butylphthalate	50	42.05	50	38.83	84	78	58-125	8	30
Caprolactam	50	11.05	50	10.77	22	22	10-57	3	30
Carbazole	50	47.22	50	45.28	94	91	64-127	4	30
4-Chloro-3-methylphenol	50	42.72	50	40.33	85	81	60-118	6	30
4-Chloroaniline	50	37.4	50	35.27	75	71	45-111	6	30
bis(2-Chloroethoxy)methane	50	43.5	50	40.65	87	81	63-116	7	30
bis(2-Chloroethyl)ether	50	40.37	50	39.36	81	79	58-108	3	30
2-Chloronaphthalene	50	38.92	50	35.14	78	70	51-107	10	30
2-Chlorophenol	50	34.96	50	35.57	70	71	57-105	2	30
4-Chlorophenyl-phenylether	50	42.04	50	37.83	84	76	57-110	11	30
2,2'-oxybis(1-Chloropropane)	50	45.28	50	43.1	91	86	48-105	5	30
Chrysene	50	43.86	50	41.74	88	83	65-121	5	30
Dibenz(a,h)anthracene	50	47.55	50	45.29	95	91	63-128	5	30
Dibenzofuran	50	42.35	50	39.89	85	80	60-112	6	30
3,3'-Dichlorobenzidine	50	32.6	50	29.76	65	60	42-107	9	30
2,4-Dichlorophenol	50	39.7	50	38.85	79	78	65-110	2	30
Diethylphthalate	50	33.89	50	30.01	68	60	42-126	12	30
2,4-Dimethylphenol	50	34.72	50	32.86	69	66	53-93	6	30
Dimethylphthalate	50	18.72	50	13.94	37	28	10-134	29	30

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: GES, Inc.
Reported: 05/22/2020 16:19

Group Number: 2099429

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
4,6-Dinitro-2-methylphenol	50	42.22	50	42.35	84	85	63-129	0	30
2,4-Dinitrophenol	100	82.71	100	83.54	83	84	44-134	1	30
2,4-Dinitrotoluene	50	44.66	50	42.93	89	86	66-122	4	30
2,6-Dinitrotoluene	50	44.8	50	43.45	90	87	71-120	3	30
bis(2-Ethylhexyl)phthalate	50	47.04	50	43.76	94	88	61-129	7	30
Fluoranthene	50	46.86	50	44.53	94	89	63-122	5	30
Fluorene	50	44.21	50	40.86	88	82	56-115	8	30
Hexachlorobenzene	50	42.06	50	38.93	84	78	60-117	8	30
Hexachlorobutadiene	50	31.65	50	26.06	63	52	20-108	19	30
Hexachlorocyclopentadiene	100	21.78	100	17.49	22	17	10-91	22	30
Hexachloroethane	50	29.14	50	25.38	58	51	23-95	14	30
Indeno(1,2,3-cd)pyrene	50	43.29	50	41.85	87	84	59-123	3	30
Isophorone	50	45.08	50	42.56	90	85	63-120	6	30
2-Methylnaphthalene	50	40.39	50	34.86	81	70	51-107	15	30
2-Methylphenol	50	33.89	50	33.99	68	68	53-107	0	30
4-Methylphenol	50	35.23	50	34.88	70	70	49-108	1	30
Naphthalene	50	39.15	50	34.89	78	70	51-102	12	30
2-Nitroaniline	50	43.8	50	43.18	88	86	66-126	1	30
3-Nitroaniline	50	41.25	50	40.13	82	80	55-121	3	30
4-Nitroaniline	50	37.09	50	36.65	74	73	55-113	1	30
Nitrobenzene	50	43.34	50	39.97	87	80	59-109	8	30
2-Nitrophenol	50	39.89	50	38.78	80	78	63-111	3	30
4-Nitrophenol	50	26.15	50	26.26	52	53	23-89	0	30
N-Nitroso-di-n-propylamine	50	44.08	50	42.83	88	86	58-120	3	30
N-Nitrosodiphenylamine	50	44.23	50	42.43	88	85	60-126	4	30
Di-n-octylphthalate	50	47.12	50	45.8	94	92	60-136	3	30
Pentachlorophenol	50	42.4	50	41.82	85	84	54-131	1	30
Phenanthrene	50	45.19	50	42.25	90	84	65-113	7	30
Phenol	50	22.02	50	21.5	44	43	19-79	2	30
Pyrene	50	44.29	50	42.05	89	84	65-115	5	30
2,4,5-Trichlorophenol	50	42.21	50	42.57	84	85	66-118	1	30
2,4,6-Trichlorophenol	50	42.55	50	42.38	85	85	69-117	0	30
	mg/l	**mg/l**	**mg/l**	**mg/l**					
Batch number: 201350571302	Sample number(s): 1314130								
Mercury	0.00100	0.000877			88		80-110		
Batch number: 201391404401	Sample number(s): 1314130								
Antimony	0.100	0.107			107		80-120		
Arsenic	0.0600	0.0577			96		80-120		
Barium	0.0100	0.00995			100		80-120		
Beryllium	0.0100	0.00974			97		80-120		
Cadmium	0.0100	0.0105			105		80-120		
Chromium	0.0300	0.0306			102		80-120		

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: GES, Inc.
Reported: 05/22/2020 16:19

Group Number: 2099429

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
Cobalt	0.0100	0.0106			106		80-120		
Copper	0.0400	0.0418			104		80-120		
Lead	0.0300	0.0288			96		80-120		
Molybdenum	0.0200	0.0204			102		80-120		
Nickel	2.02	2.21			109		80-120		
Selenium	0.100	0.101			101		80-120		
Silver	0.0200	0.0202			101		80-120		
Thallium	0.0600	0.0617			103		80-120		
Vanadium	0.0200	0.0207			104		80-120		
Zinc	0.440	0.459			104		80-120		

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: TCL 4.3 SVOCs
Batch number: 20136WAD026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
1314123	24	30	73	59	54	89
1314124	25	25	69	62	62	79
1314125	27	31	77	64	59	87
1314126	1*	3*	31	68	61	89
1314127	1*	2*	19	28*	65	85
1314128	38	41	73	66	63	82
1314129	14	14	51	76	71	91
1314130	1*	2*	14*	65	66	90
Blank	29	37	79	79	74	106
LCS	36	46	82	85	79	98
LCSD	36	46	81	79	72	92
Limits:	10-67	10-84	18-141	38-113	44-102	34-128

*- 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

eurofins | Lancaster Laboratories Environmental

Acct. # 8390 Group # 2099429 Sample # 131412330

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

Sample Identification	Collection Date	Collection Time	Grab	Composite	Matrix: Soil	Sediment	Water: Potable	Water: Ground	Water: Surface	Water: 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)	Full VOCs (8260)	Title 22 Metals (6010)	Mercury (7470)	Full SVOCs (8270)	Remarks
							Analyses Requested / Preservation Codes						H	-	-/S	N	H	-	H	H	N	N	1	
TW-14	5-11-20	1030	X				X					2											X	
MW-08S		1055																						
RW-05S		1212																						
MW-01S		1213																						
TW-05		1255																						
MW-12I		1352																						
MW-25/RW-25		1420										2												
TW-04	5-11-20	1505	X				X					3									X	X	X	

For Lab Use Only

SF #: _____

SCR #: _____

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

Turnaround Time Requested (TAT) (please check): Standard ☑ Rush ☐

(Rush TAT is subject to laboratory approval and surcharges.)

Date results are needed:

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

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

Phone:

Data Package Options (please check if required)

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

Type III (Reduced non-CLP) ☐ CT RCP ☐

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

NYSDEC Category ☐ A or ☐ B

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

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

Relinquished by:	Date	Time	Received by:	Date	Time
Jeff Plummer	5-13-20	0800	Denise Woodring	5-13-20	0900
Denise Woodring	5-13-20	1102		5/13/20	11:02
	5/13/20	16:00			

Relinquished by Commercial Carrier:

UPS _____ FedEx _____ Other _____

Temperature upon receipt 0.4-5.2 °C

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Sample Administration Receipt Documentation Log

Doc Log ID: 284420

Group Number(s): 2079429

Client: GES

Delivery and Receipt Information

Delivery Method:	ELLE Courier	Arrival Date:	05/13/2020
Number of Packages:	3	Number of Projects:	3
State/Province of Origin:	VA		

Arrival Condition Summary

Shipping Container Sealed:	No	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	No	Sample Date/Times match COC:	Yes
Samples Chilled:	Yes	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

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	DT42-01	0.8	DT	Wet	Y	Loose	N
2	Water	DT42-01	0.4	DT	Wet	Y	Loose	N
3	Water	46730061WS	5.2	IR	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 less than the LOQ
K2	Continuing Calibration Blank is above the QC limit and the sample result is less than the LOQ
K3	Initial Calibration Verification is above the QC limit and the sample result is less than the LOQ
K4	Continuing Calibration Verification is above the QC limit and the sample result is less than the LOQ
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: May 28, 2020 13:21

Project: NRG PRGS

Account #: 09811
Group Number: 2099489
SDG: PRG25
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. Zanar

Elizabeth M. Zanar
Project Manager

(717) 556-7290

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#
TW14 Grab Groundwater	05/11/2020 10:30	1314326
TW05 Grab Groundwater	05/11/2020 12:55	1314327
TW04 Grab Groundwater	05/11/2020 15:05	1314328
TW07 Grab Groundwater	05/12/2020 09:10	1314329
TW06 Grab Groundwater	05/12/2020 11:00	1314330
TW03 Grab Groundwater	05/12/2020 12:40	1314331
TW02 Grab Groundwater	05/12/2020 14:40	1314332
TW02 MS Grab Groundwater	05/12/2020 14:40	1314333
TW02 MSD Grab Groundwater	05/12/2020 14:40	1314334
EB20200511 Grab Water	05/11/2020 16:05	1314335
DUP20200512 Grab Groundwater	05/12/2020	1314336
TB20126 Water	05/11/2020	1314337

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

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/13/2020 17:18
Collection Date/Time: 05/11/2020 10:30
SDG#: PRG25-01

GeoSyntec Consultants
ELLE Sample #: GW 1314326
ELLE Group #: 2099489
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.	0.02	0.1	1
10262	Acenaphthylene[1]	208-96-8	N.D.	0.02	0.1	1
10262	Anthracene[1]	120-12-7	N.D.	0.02	0.1	1
10262	Benzo(a)anthracene[1]	56-55-3	N.D.	0.02	0.1	1
10262	Benzo(a)pyrene	50-32-8	N.D.	0.02	0.1	1
10262	Benzo(b)fluoranthene[1]	205-99-2	N.D.	0.08	0.2	1
10262	Benzo(e)pyrene[1]	192-97-2	N.D.	0.02	0.1	1
10262	Benzo(g,h,i)perylene[1]	191-24-2	N.D.	0.06	0.1	1
10262	Benzo(k)fluoranthene[1]	207-08-9	N.D.	0.02	0.1	1
10262	Biphenyl[1]	92-52-4	N.D.	0.04	0.1	1
10262	Chrysene[1]	218-01-9	N.D.	0.02	0.1	1
10262	Dibenz(a,h)anthracene[1]	53-70-3	N.D.	0.02	0.1	1
10262	Dibenzofuran[1]	132-64-9	N.D.	0.02	0.1	1
10262	Dibenzothiophene[1]	132-65-0	N.D.	0.04	0.1	1
10262	Fluoranthene[1]	206-44-0	N.D.	0.02	0.1	1
10262	Fluorene[1]	86-73-7	N.D.	0.02	0.1	1
10262	Indeno(1,2,3-cd)pyrene[1]	193-39-5	N.D.	0.08	0.2	1
10262	1-Methylnaphthalene[1]	90-12-0	N.D.	0.04	0.1	1
10262	2-Methylnaphthalene[1]	91-57-6	N.D.	0.06	0.1	1
10262	Naphthalene[1]	91-20-3	N.D.	0.06	0.2	1
10262	Naphthobenzothiophene[1]	224-10-2	N.D.	0.04	0.1	1
10262	Perylene[1]	198-55-0	N.D.	0.02	0.1	1
10262	Phenanthrene[1]	85-01-8	N.D.	0.06	0.2	1
10262	Pyrene[1]	129-00-0	N.D.	0.04	0.1	1

The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. Since the recovery is high and the target analyte(s) was not detected in the sample, the data is reported.

Reporting limits were raised due to limited sample volume.

GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	

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

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/13/2020 17:18
Collection Date/Time: 05/11/2020 10:30
SDG#: PRG25-01

GeoSyntec Consultants
ELLE Sample #: GW 1314326
ELLE Group #: 2099489
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	
01635	TPH-GRO water C6-C10	n.a.	N.D.	23	50	1
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.	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	F201402AA	05/19/2020 11:42	Alexander D Sechrist	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F201402AA	05/19/2020 11:41	Alexander D Sechrist	1
10262	Alkyl PAHs in Water by GC/MS	SW-846 8270C SIM Modified	1	20136WAM026	05/19/2020 15:32	Joseph M Gambler	1
11012	Alkyl PAH Extract	SW-846 3510C	1	20136WAM026	05/18/2020 12:41	Christine E Gleim	1
01635	TPH-GRO water C6-C10	SW-846 8015B	1	20135A53A	05/16/2020 03:17	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	20135A53A	05/16/2020 03:16	Marie D Beamenderfer	1
12858	DRO Microextraction Master	SW-846 8015B	1	201400003A	05/21/2020 00:56	Bridget Kovacs	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	201400003A	05/20/2020 07:15	Maria Davenport	1
08079	HEM (oil & grease)	EPA 1664B	1	20140807902A	05/19/2020 15:34	Tesfaye Dabsu	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: 05/13/2020 17:18
Collection Date/Time: 05/11/2020 12:55
SDG#: PRG25-02

GeoSyntec Consultants
ELLE Sample #: GW 1314327
ELLE Group #: 2099489
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	0.8	0.02	0.1	1
10262	Acenaphthylene[1]	208-96-8	N.D.	0.02	0.1	1
10262	Anthracene[1]	120-12-7	N.D.	0.02	0.1	1
10262	Benzo(a)anthracene[1]	56-55-3	N.D.	0.02	0.1	1
10262	Benzo(a)pyrene	50-32-8	N.D.	0.02	0.1	1
10262	Benzo(b)fluoranthene[1]	205-99-2	N.D.	0.08	0.2	1
10262	Benzo(e)pyrene[1]	192-97-2	N.D.	0.02	0.1	1
10262	Benzo(g,h,i)perylene[1]	191-24-2	N.D.	0.06	0.1	1
10262	Benzo(k)fluoranthene[1]	207-08-9	N.D.	0.02	0.1	1
10262	Biphenyl[1]	92-52-4	0.2	0.04	0.1	1
10262	Chrysene[1]	218-01-9	N.D.	0.02	0.1	1
10262	Dibenz(a,h)anthracene[1]	53-70-3	N.D.	0.02	0.1	1
10262	Dibenzofuran[1]	132-64-9	0.1 J	0.02	0.1	1
10262	Dibenzothiophene[1]	132-65-0	0.08 J	0.04	0.1	1
10262	Fluoranthene[1]	206-44-0	0.04 J	0.02	0.1	1
10262	Fluorene[1]	86-73-7	0.6	0.02	0.1	1
10262	Indeno(1,2,3-cd)pyrene[1]	193-39-5	N.D.	0.08	0.2	1
10262	1-Methylnaphthalene[1]	90-12-0	2	0.04	0.1	1
10262	2-Methylnaphthalene[1]	91-57-6	0.2	0.06	0.1	1
10262	Naphthalene[1]	91-20-3	0.7	0.06	0.2	1
10262	Naphthobenzothiophene[1]	224-10-2	N.D.	0.04	0.1	1
10262	Perylene[1]	198-55-0	N.D.	0.02	0.1	1
10262	Phenanthrene[1]	85-01-8	0.2	0.06	0.2	1
10262	Pyrene[1]	129-00-0	0.1	0.04	0.1	1

The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The 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.

Reporting limits were raised due to limited sample volume.

GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	

*=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: 05/13/2020 17:18
Collection Date/Time: 05/11/2020 12:55
SDG#: PRG25-02

GeoSyntec Consultants
ELLE Sample #: GW 1314327
ELLE Group #: 2099489
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	
01635	TPH-GRO water C6-C10	n.a.	N.D.	23	50	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	1,100	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	F201402AA	05/19/2020 12:04	Alexander D Sechrist	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F201402AA	05/19/2020 12:03	Alexander D Sechrist	1
10262	Alkyl PAHs in Water by GC/MS	SW-846 8270C SIM Modified	1	20136WAM026	05/19/2020 16:14	Joseph M Gambler	1
11012	Alkyl PAH Extract	SW-846 3510C	1	20136WAM026	05/18/2020 12:41	Christine E Gleim	1
01635	TPH-GRO water C6-C10	SW-846 8015B	1	20135A53A	05/16/2020 03:42	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	20135A53A	05/16/2020 03:41	Marie D Beamenderfer	1
12858	DRO Microextraction Master	SW-846 8015B	1	201430015A	05/27/2020 14:47	Timothy M Emrick	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	2	201430015A	05/25/2020 06:20	Maria Davenport	1
08079	HEM (oil & grease)	EPA 1664B	1	20140807902A	05/19/2020 15:34	Tesfaye Dabsu	1

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

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/13/2020 17:18
Collection Date/Time: 05/11/2020 15:05
SDG#: PRG25-03

GeoSyntec Consultants
ELLE Sample #: GW 1314328
ELLE Group #: 2099489
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 Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	
01635	TPH-GRO water C6-C10	n.a.	N.D.	23	50	1
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	F201402AA	05/19/2020 12:26	Alexander D Sechrist	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F201402AA	05/19/2020 12:25	Alexander D Sechrist	1
01635	TPH-GRO water C6-C10	SW-846 8015B	1	20135A53A	05/16/2020 04:07	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	20135A53A	05/16/2020 04:06	Marie D Beamenderfer	1
12858	DRO Microextraction Master	SW-846 8015B	1	201430015A	05/27/2020 15:11	Timothy M Emrick	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	2	201430015A	05/25/2020 06:20	Maria Davenport	1
08079	HEM (oil & grease)	EPA 1664B	1	20140807902A	05/19/2020 15:34	Tesfaye Dabsu	1

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

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/13/2020 17:18
Collection Date/Time: 05/12/2020 09:10
SDG#: PRG25-04

GeoSyntec Consultants
ELLE Sample #: GW 1314329
ELLE Group #: 2099489
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.	0.02	0.1	1
10262	Acenaphthylene[1]	208-96-8	N.D.	0.02	0.1	1
10262	Anthracene[1]	120-12-7	0.04 J	0.02	0.1	1
10262	Benzo(a)anthracene[1]	56-55-3	N.D.	0.02	0.1	1
10262	Benzo(a)pyrene	50-32-8	N.D.	0.02	0.1	1
10262	Benzo(b)fluoranthene[1]	205-99-2	N.D.	0.09	0.2	1
10262	Benzo(e)pyrene[1]	192-97-2	N.D.	0.02	0.1	1
10262	Benzo(g,h,i)perylene[1]	191-24-2	N.D.	0.06	0.1	1
10262	Benzo(k)fluoranthene[1]	207-08-9	N.D.	0.02	0.1	1
10262	Biphenyl[1]	92-52-4	N.D.	0.04	0.1	1
10262	Chrysene[1]	218-01-9	N.D.	0.02	0.1	1
10262	Dibenz(a,h)anthracene[1]	53-70-3	N.D.	0.02	0.1	1
10262	Dibenzofuran[1]	132-64-9	N.D.	0.02	0.1	1
10262	Dibenzothiophene[1]	132-65-0	N.D.	0.04	0.1	1
10262	Fluoranthene[1]	206-44-0	N.D.	0.02	0.1	1
10262	Fluorene[1]	86-73-7	N.D.	0.02	0.1	1
10262	Indeno(1,2,3-cd)pyrene[1]	193-39-5	N.D.	0.09	0.2	1
10262	1-Methylnaphthalene[1]	90-12-0	N.D.	0.04	0.1	1
10262	2-Methylnaphthalene[1]	91-57-6	N.D.	0.06	0.1	1
10262	Naphthalene[1]	91-20-3	N.D.	0.06	0.2	1
10262	Naphthobenzothiophene[1]	224-10-2	N.D.	0.04	0.1	1
10262	Perylene[1]	198-55-0	N.D.	0.02	0.1	1
10262	Phenanthrene[1]	85-01-8	N.D.	0.06	0.2	1
10262	Pyrene[1]	129-00-0	N.D.	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.	23	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

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/13/2020 17:18
Collection Date/Time: 05/12/2020 09:10
SDG#: PRG25-04

GeoSyntec Consultants
ELLE Sample #: GW 1314329
ELLE Group #: 2099489
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.	73 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	F201402AA	05/19/2020 12:48	Alexander D Sechrist	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F201402AA	05/19/2020 12:47	Alexander D Sechrist	1
10262	Alkyl PAHs in Water by GC/MS	SW-846 8270C SIM Modified	1	20139WAI026	05/21/2020 06:22	Joseph M Gambler	1
11012	Alkyl PAH Extract	SW-846 3510C	1	20139WAI026	05/19/2020 09:20	Logan M Brosemer	1
01635	TPH-GRO water C6-C10	SW-846 8015B	1	20135A53A	05/16/2020 04:33	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	20135A53A	05/16/2020 04:32	Marie D Beamenderfer	1
12858	DRO Microextraction Master	SW-846 8015B	1	201430015A	05/27/2020 15:35	Timothy M Emrick	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	2	201430015A	05/25/2020 06:20	Maria Davenport	1
08079	HEM (oil & grease)	EPA 1664B	1	20140807902A	05/19/2020 15:34	Tesfaye Dabsu	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: 05/13/2020 17:18
Collection Date/Time: 05/12/2020 11:00
SDG#: PRG25-05

GeoSyntec Consultants
ELLE Sample #: GW 1314330
ELLE Group #: 2099489
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	1	0.02	0.1	1
10262	Acenaphthylene[1]	208-96-8	0.08 J	0.02	0.1	1
10262	Anthracene[1]	120-12-7	0.1	0.02	0.1	1
10262	Benzo(a)anthracene[1]	56-55-3	N.D.	0.02	0.1	1
10262	Benzo(a)pyrene	50-32-8	N.D.	0.02	0.1	1
10262	Benzo(b)fluoranthene[1]	205-99-2	N.D.	0.09	0.2	1
10262	Benzo(e)pyrene[1]	192-97-2	N.D.	0.02	0.1	1
10262	Benzo(g,h,i)perylene[1]	191-24-2	N.D.	0.06	0.1	1
10262	Benzo(k)fluoranthene[1]	207-08-9	N.D.	0.02	0.1	1
10262	Biphenyl[1]	92-52-4	0.7	0.04	0.1	1
10262	Chrysene[1]	218-01-9	N.D.	0.02	0.1	1
10262	Dibenz(a,h)anthracene[1]	53-70-3	N.D.	0.02	0.1	1
10262	Dibenzofuran[1]	132-64-9	0.2	0.02	0.1	1
10262	Dibenzothiophene[1]	132-65-0	0.1 J	0.04	0.1	1
10262	Fluoranthene[1]	206-44-0	N.D.	0.02	0.1	1
10262	Fluorene[1]	86-73-7	0.9	0.02	0.1	1
10262	Indeno(1,2,3-cd)pyrene[1]	193-39-5	N.D.	0.09	0.2	1
10262	1-Methylnaphthalene[1]	90-12-0	0.5	0.04	0.1	1
10262	2-Methylnaphthalene[1]	91-57-6	N.D.	0.06	0.1	1
10262	Naphthalene[1]	91-20-3	0.4	0.06	0.2	1
10262	Naphthobenzothiophene[1]	224-10-2	N.D.	0.04	0.1	1
10262	Perylene[1]	198-55-0	N.D.	0.02	0.1	1
10262	Phenanthrene[1]	85-01-8	0.2	0.06	0.2	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.	23	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

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/13/2020 17:18
Collection Date/Time: 05/12/2020 11:00
SDG#: PRG25-05

GeoSyntec Consultants
ELLE Sample #: GW 1314330
ELLE Group #: 2099489
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.	810	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	F201402AA	05/19/2020 13:10	Alexander D Sechrist	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F201402AA	05/19/2020 13:09	Alexander D Sechrist	1
10262	Alkyl PAHs in Water by GC/MS	SW-846 8270C SIM Modified	1	20139WAI026	05/21/2020 07:04	Joseph M Gambler	1
11012	Alkyl PAH Extract	SW-846 3510C	1	20139WAI026	05/19/2020 09:20	Logan M Brosemer	1
01635	TPH-GRO water C6-C10	SW-846 8015B	1	20135A53A	05/16/2020 00:42	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	20135A53A	05/16/2020 00:41	Marie D Beamenderfer	1
12858	DRO Microextraction Master	SW-846 8015B	1	201430015A	05/27/2020 15:59	Timothy M Emrick	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	2	201430015A	05/25/2020 06:20	Maria Davenport	1
08079	HEM (oil & grease)	EPA 1664B	1	20140807902A	05/19/2020 15:34	Tesfaye Dabsu	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: 05/13/2020 17:18
Collection Date/Time: 05/12/2020 12:40
SDG#: PRG25-06

GeoSyntec Consultants
ELLE Sample #: GW 1314331
ELLE Group #: 2099489
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	0.02 J	0.02	0.1	1
10262	Acenaphthylene[1]	208-96-8	N.D.	0.02	0.1	1
10262	Anthracene[1]	120-12-7	0.04 J	0.02	0.1	1
10262	Benzo(a)anthracene[1]	56-55-3	N.D.	0.02	0.1	1
10262	Benzo(a)pyrene	50-32-8	N.D.	0.02	0.1	1
10262	Benzo(b)fluoranthene[1]	205-99-2	N.D.	0.08	0.2	1
10262	Benzo(e)pyrene[1]	192-97-2	N.D.	0.02	0.1	1
10262	Benzo(g,h,i)perylene[1]	191-24-2	N.D.	0.06	0.1	1
10262	Benzo(k)fluoranthene[1]	207-08-9	N.D.	0.02	0.1	1
10262	Biphenyl[1]	92-52-4	N.D.	0.04	0.1	1
10262	Chrysene[1]	218-01-9	N.D.	0.02	0.1	1
10262	Dibenz(a,h)anthracene[1]	53-70-3	N.D.	0.02	0.1	1
10262	Dibenzofuran[1]	132-64-9	0.02 J	0.02	0.1	1
10262	Dibenzothiophene[1]	132-65-0	N.D.	0.04	0.1	1
10262	Fluoranthene[1]	206-44-0	N.D.	0.02	0.1	1
10262	Fluorene[1]	86-73-7	0.07 J	0.02	0.1	1
10262	Indeno(1,2,3-cd)pyrene[1]	193-39-5	N.D.	0.08	0.2	1
10262	1-Methylnaphthalene[1]	90-12-0	N.D.	0.04	0.1	1
10262	2-Methylnaphthalene[1]	91-57-6	N.D.	0.06	0.1	1
10262	Naphthalene[1]	91-20-3	N.D.	0.06	0.2	1
10262	Naphthobenzothiophene[1]	224-10-2	N.D.	0.04	0.1	1
10262	Perylene[1]	198-55-0	N.D.	0.02	0.1	1
10262	Phenanthrene[1]	85-01-8	N.D.	0.06	0.2	1
10262	Pyrene[1]	129-00-0	0.05 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.	N.D.	23	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

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/13/2020 17:18
Collection Date/Time: 05/12/2020 12:40
SDG#: PRG25-06

GeoSyntec Consultants
ELLE Sample #: GW 1314331
ELLE Group #: 2099489
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.	96 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	F201402AA	05/19/2020 13:32	Alexander D Sechrist	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F201402AA	05/19/2020 13:31	Alexander D Sechrist	1
10262	Alkyl PAHs in Water by GC/MS	SW-846 8270C SIM Modified	1	20139WAI026	05/21/2020 07:45	Joseph M Gambler	1
11012	Alkyl PAH Extract	SW-846 3510C	1	20139WAI026	05/19/2020 09:20	Logan M Brosemer	1
01635	TPH-GRO water C6-C10	SW-846 8015B	1	20135A53A	05/16/2020 01:08	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	20135A53A	05/16/2020 01:07	Marie D Beamenderfer	1
12858	DRO Microextraction Master	SW-846 8015B	1	201430015A	05/27/2020 16:23	Timothy M Emrick	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	2	201430015A	05/25/2020 06:20	Maria Davenport	1
08079	HEM (oil & grease)	EPA 1664B	1	20140807902A	05/19/2020 15:34	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: 05/13/2020 17:18
Collection Date/Time: 05/12/2020 14:40
SDG#: PRG25-07BKG

GeoSyntec Consultants
ELLE Sample #: GW 1314332
ELLE Group #: 2099489
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	0.04 J	0.02	0.1	1
10262	Acenaphthylene[1]	208-96-8	N.D.	0.02	0.1	1
10262	Anthracene[1]	120-12-7	N.D.	0.02	0.1	1
10262	Benzo(a)anthracene[1]	56-55-3	N.D.	0.02	0.1	1
10262	Benzo(a)pyrene	50-32-8	N.D.	0.02	0.1	1
10262	Benzo(b)fluoranthene[1]	205-99-2	N.D.	0.08	0.2	1
10262	Benzo(e)pyrene[1]	192-97-2	N.D.	0.02	0.1	1
10262	Benzo(g,h,i)perylene[1]	191-24-2	N.D.	0.06	0.1	1
10262	Benzo(k)fluoranthene[1]	207-08-9	N.D.	0.02	0.1	1
10262	Biphenyl[1]	92-52-4	N.D.	0.04	0.1	1
10262	Chrysene[1]	218-01-9	N.D.	0.02	0.1	1
10262	Dibenz(a,h)anthracene[1]	53-70-3	N.D.	0.02	0.1	1
10262	Dibenzofuran[1]	132-64-9	N.D.	0.02	0.1	1
10262	Dibenzothiophene[1]	132-65-0	N.D.	0.04	0.1	1
10262	Fluoranthene[1]	206-44-0	0.07 J	0.02	0.1	1
10262	Fluorene[1]	86-73-7	N.D.	0.02	0.1	1
10262	Indeno(1,2,3-cd)pyrene[1]	193-39-5	N.D.	0.08	0.2	1
10262	1-Methylnaphthalene[1]	90-12-0	N.D.	0.04	0.1	1
10262	2-Methylnaphthalene[1]	91-57-6	N.D.	0.06	0.1	1
10262	Naphthalene[1]	91-20-3	N.D.	0.06	0.2	1
10262	Naphthobenzothiophene[1]	224-10-2	N.D.	0.04	0.1	1
10262	Perylene[1]	198-55-0	N.D.	0.02	0.1	1
10262	Phenanthrene[1]	85-01-8	N.D.	0.06	0.2	1
10262	Pyrene[1]	129-00-0	0.08 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.	N.D.	23	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

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/13/2020 17:18
Collection Date/Time: 05/12/2020 14:40
SDG#: PRG25-07BKG

GeoSyntec Consultants
ELLE Sample #: GW 1314332
ELLE Group #: 2099489
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.	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	F201402AA	05/19/2020 09:52	Alexander D Sechrist	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F201402AA	05/19/2020 09:51	Alexander D Sechrist	1
10262	Alkyl PAHs in Water by GC/MS	SW-846 8270C SIM Modified	1	20139WAI026	05/20/2020 14:25	Joseph M Gambler	1
11012	Alkyl PAH Extract	SW-846 3510C	1	20139WAI026	05/19/2020 09:20	Logan M Brosemer	1
01635	TPH-GRO water C6-C10	SW-846 8015B	1	20135A53A	05/16/2020 01:34	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	20135A53A	05/16/2020 01:33	Marie D Beamenderfer	1
12858	DRO Microextraction Master	SW-846 8015B	1	201360002A	05/16/2020 12:38	Timothy M Emrick	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	201360002A	05/15/2020 12:15	Shawn J McMullen	1
08079	HEM (oil & grease)	EPA 1664B	1	20140807902A	05/19/2020 15:34	Tesfaye Dabsu	1

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

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/13/2020 17:18
Collection Date/Time: 05/12/2020 14:40
SDG#: PRG25-07MS

GeoSyntec Consultants
ELLE Sample #: WW 1314333
ELLE Group #: 2099489
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	**ug/l**	
10945	Benzene	71-43-2	23	0.2	1	1
10945	t-Butyl alcohol	75-65-0	170	10	25	1
10945	1,2-Dibromoethane	106-93-4	19	0.3	1	1
10945	1,2-Dichloroethane	107-06-2	19	2	5	1
10945	Ethylbenzene	100-41-4	21	0.2	1	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	20	0.2	1	1
10945	Toluene	108-88-3	22	0.2	1	1
10945	Xylene (Total)	1330-20-7	63	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	0.02	0.1	1
10262	Acenaphthylene[1]	208-96-8	2	0.02	0.1	1
10262	Anthracene[1]	120-12-7	2	0.02	0.1	1
10262	Benzo(a)anthracene[1]	56-55-3	2	0.02	0.1	1
10262	Benzo(a)pyrene	50-32-8	2	0.02	0.1	1
10262	Benzo(b)fluoranthene[1]	205-99-2	2	0.08	0.2	1
10262	Benzo(e)pyrene[1]	192-97-2	2	0.02	0.1	1
10262	Benzo(g,h,i)perylene[1]	191-24-2	2	0.06	0.1	1
10262	Benzo(k)fluoranthene[1]	207-08-9	2	0.02	0.1	1
10262	Biphenyl[1]	92-52-4	2	0.04	0.1	1
10262	Chrysene[1]	218-01-9	2	0.02	0.1	1
10262	Dibenz(a,h)anthracene[1]	53-70-3	2	0.02	0.1	1
10262	Dibenzofuran[1]	132-64-9	2	0.02	0.1	1
10262	Dibenzothiophene[1]	132-65-0	2	0.04	0.1	1
10262	Fluoranthene[1]	206-44-0	2	0.02	0.1	1
10262	Fluorene[1]	86-73-7	2	0.02	0.1	1
10262	Indeno(1,2,3-cd)pyrene[1]	193-39-5	2	0.08	0.2	1
10262	1-Methylnaphthalene[1]	90-12-0	2	0.04	0.1	1
10262	2-Methylnaphthalene[1]	91-57-6	2	0.06	0.1	1
10262	Naphthalene[1]	91-20-3	2	0.06	0.2	1
10262	Naphthobenzothiophene[1]	224-10-2	N.D.	0.04	0.1	1
10262	Perylene[1]	198-55-0	2	0.02	0.1	1
10262	Phenanthrene[1]	85-01-8	2	0.06	0.2	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	23	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

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/13/2020 17:18
Collection Date/Time: 05/12/2020 14:40
SDG#: PRG25-07MS

GeoSyntec Consultants
ELLE Sample #: WW 1314333
ELLE Group #: 2099489
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.	41.8	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	F201402AA	05/19/2020 10:14	Alexander D Sechrist	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F201402AA	05/19/2020 10:13	Alexander D Sechrist	1
10262	Alkyl PAHs in Water by GC/MS	SW-846 8270C SIM Modified	1	20139WAI026	05/20/2020 15:06	Joseph M Gambler	1
11012	Alkyl PAH Extract	SW-846 3510C	1	20139WAI026	05/19/2020 09:20	Logan M Brosemer	1
01635	TPH-GRO water C6-C10	SW-846 8015B	1	20135A53A	05/16/2020 02:00	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	20135A53A	05/16/2020 01:59	Marie D Beamenderfer	1
12858	DRO Microextraction Master	SW-846 8015B	1	201360002A	05/16/2020 13:01	Timothy M Emrick	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	201360002A	05/15/2020 12:15	Shawn J McMullen	1
08079	HEM (oil & grease)	EPA 1664B	1	20140807902A	05/19/2020 15:34	Tesfaye Dabsu	1

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

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/13/2020 17:18
Collection Date/Time: 05/12/2020 14:40
SDG#: PRG25-07MSD

GeoSyntec Consultants
ELLE Sample #: WW 1314334
ELLE Group #: 2099489
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	**ug/l**	
10945	Benzene	71-43-2	23	0.2	1	1
10945	t-Butyl alcohol	75-65-0	170	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	21	0.2	1	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	20	0.2	1	1
10945	Toluene	108-88-3	21	0.2	1	1
10945	Xylene (Total)	1330-20-7	62	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	0.02	0.1	1
10262	Acenaphthylene[1]	208-96-8	2	0.02	0.1	1
10262	Anthracene[1]	120-12-7	2	0.02	0.1	1
10262	Benzo(a)anthracene[1]	56-55-3	2	0.02	0.1	1
10262	Benzo(a)pyrene	50-32-8	2	0.02	0.1	1
10262	Benzo(b)fluoranthene[1]	205-99-2	2	0.08	0.2	1
10262	Benzo(e)pyrene[1]	192-97-2	2	0.02	0.1	1
10262	Benzo(g,h,i)perylene[1]	191-24-2	2	0.06	0.1	1
10262	Benzo(k)fluoranthene[1]	207-08-9	2	0.02	0.1	1
10262	Biphenyl[1]	92-52-4	2	0.04	0.1	1
10262	Chrysene[1]	218-01-9	2	0.02	0.1	1
10262	Dibenz(a,h)anthracene[1]	53-70-3	2	0.02	0.1	1
10262	Dibenzofuran[1]	132-64-9	2	0.02	0.1	1
10262	Dibenzothiophene[1]	132-65-0	2	0.04	0.1	1
10262	Fluoranthene[1]	206-44-0	2	0.02	0.1	1
10262	Fluorene[1]	86-73-7	2	0.02	0.1	1
10262	Indeno(1,2,3-cd)pyrene[1]	193-39-5	2	0.08	0.2	1
10262	1-Methylnaphthalene[1]	90-12-0	2	0.04	0.1	1
10262	2-Methylnaphthalene[1]	91-57-6	2	0.06	0.1	1
10262	Naphthalene[1]	91-20-3	2	0.06	0.2	1
10262	Naphthobenzothiophene[1]	224-10-2	N.D.	0.04	0.1	1
10262	Perylene[1]	198-55-0	3	0.02	0.1	1
10262	Phenanthrene[1]	85-01-8	2	0.06	0.2	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	23	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

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/13/2020 17:18
Collection Date/Time: 05/12/2020 14:40
SDG#: PRG25-07MSD

GeoSyntec Consultants
ELLE Sample #: WW 1314334
ELLE Group #: 2099489
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.	1,700	53	100	1
Wet Chemistry	**EPA 1664B**		**mg/l**	**mg/l**	**mg/l**	
08079	HEM (oil & grease)[1]	n.a.	41.6	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	F201402AA	05/19/2020 10:36	Alexander D Sechrist	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F201402AA	05/19/2020 10:35	Alexander D Sechrist	1
10262	Alkyl PAHs in Water by GC/MS	SW-846 8270C SIM Modified	1	20139WAI026	05/20/2020 15:48	Joseph M Gambler	1
11012	Alkyl PAH Extract	SW-846 3510C	1	20139WAI026	05/19/2020 09:20	Logan M Brosemer	1
01635	TPH-GRO water C6-C10	SW-846 8015B	1	20135A53A	05/16/2020 02:25	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	20135A53A	05/16/2020 02:24	Marie D Beamenderfer	1
12858	DRO Microextraction Master	SW-846 8015B	1	201360002A	05/16/2020 13:25	Timothy M Emrick	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	201360002A	05/15/2020 12:15	Shawn J McMullen	1
08079	HEM (oil & grease)	EPA 1664B	1	20140807902A	05/19/2020 15:34	Tesfaye Dabsu	1

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

Sample Description: **EB20200511 Grab Water**
NRG PRGS

Project Name: **NRG PRGS**

Submittal Date/Time: 05/13/2020 17:18
Collection Date/Time: 05/11/2020 16:05
SDG#: PRG25-08EB

GeoSyntec Consultants
ELLE Sample #: **WW 1314335**
ELLE Group #: **2099489**
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/MS Semivolatiles	**SW-846 8270C SIM Modified**		**ug/l**	**ug/l**	**ug/l**	
10262	Acenaphthene[1]	83-32-9	N.D.	0.02	0.1	1
10262	Acenaphthylene[1]	208-96-8	N.D.	0.02	0.1	1
10262	Anthracene[1]	120-12-7	N.D.	0.02	0.1	1
10262	Benzo(a)anthracene[1]	56-55-3	N.D.	0.02	0.1	1
10262	Benzo(a)pyrene	50-32-8	N.D.	0.02	0.1	1
10262	Benzo(b)fluoranthene[1]	205-99-2	N.D.	0.08	0.2	1
10262	Benzo(e)pyrene[1]	192-97-2	N.D.	0.02	0.1	1
10262	Benzo(g,h,i)perylene[1]	191-24-2	N.D.	0.06	0.1	1
10262	Benzo(k)fluoranthene[1]	207-08-9	N.D.	0.02	0.1	1
10262	Biphenyl[1]	92-52-4	N.D.	0.04	0.1	1
10262	Chrysene[1]	218-01-9	N.D.	0.02	0.1	1
10262	Dibenz(a,h)anthracene[1]	53-70-3	N.D.	0.02	0.1	1
10262	Dibenzofuran[1]	132-64-9	N.D.	0.02	0.1	1
10262	Dibenzothiophene[1]	132-65-0	N.D.	0.04	0.1	1
10262	Fluoranthene[1]	206-44-0	N.D.	0.02	0.1	1
10262	Fluorene[1]	86-73-7	N.D.	0.02	0.1	1
10262	Indeno(1,2,3-cd)pyrene[1]	193-39-5	N.D.	0.08	0.2	1
10262	1-Methylnaphthalene[1]	90-12-0	N.D.	0.04	0.1	1
10262	2-Methylnaphthalene[1]	91-57-6	N.D.	0.06	0.1	1
10262	Naphthalene[1]	91-20-3	N.D.	0.06	0.2	1
10262	Naphthobenzothiophene[1]	224-10-2	N.D.	0.04	0.1	1
10262	Perylene[1]	198-55-0	N.D.	0.02	0.1	1
10262	Phenanthrene[1]	85-01-8	N.D.	0.06	0.2	1
10262	Pyrene[1]	129-00-0	N.D.	0.04	0.1	1

The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. Since the recovery is high and the target analyte(s) was not detected in the sample, the data is reported.

Reporting limits were raised due to limited sample volume.

GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	

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

Sample Description: **EB20200511 Grab Water**
NRG PRGS

Project Name: **NRG PRGS**

Submittal Date/Time: 05/13/2020 17:18
Collection Date/Time: 05/11/2020 16:05
SDG#: PRG25-08EB

GeoSyntec Consultants
ELLE Sample #: WW 1314335
ELLE Group #: 2099489
Matrix: Water

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	
01635	TPH-GRO water C6-C10	n.a.	N.D.	23	50	1
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.	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	F201402AA	05/19/2020 10:58	Alexander D Sechrist	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F201402AA	05/19/2020 10:57	Alexander D Sechrist	1
10262	Alkyl PAHs in Water by GC/MS	SW-846 8270C SIM Modified	1	20136WAM026	05/19/2020 16:55	Joseph M Gambler	1
11012	Alkyl PAH Extract	SW-846 3510C	1	20136WAM026	05/18/2020 12:41	Christine E Gleim	1
01635	TPH-GRO water C6-C10	SW-846 8015B	1	20135A53A	05/15/2020 23:52	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	20135A53A	05/15/2020 23:51	Marie D Beamenderfer	1
12858	DRO Microextraction Master	SW-846 8015B	1	201360002A	05/16/2020 13:49	Timothy M Emrick	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	201360002A	05/15/2020 12:15	Shawn J McMullen	1
08079	HEM (oil & grease)	EPA 1664B	1	20140807902A	05/19/2020 15:34	Tesfaye Dabsu	1

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

Sample Description: **DUP20200512 Grab Groundwater NRG PRGS**

Project Name: **NRG PRGS**

Submittal Date/Time: 05/13/2020 17:18
Collection Date/Time: 05/12/2020
SDG#: PRG25-09FD

GeoSyntec Consultants
ELLE Sample #: WW 1314336
ELLE Group #: 2099489
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	0.4 J	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	0.02	0.1	1
10262	Acenaphthylene[1]	208-96-8	0.07 J	0.02	0.1	1
10262	Anthracene[1]	120-12-7	0.1 J	0.02	0.1	1
10262	Benzo(a)anthracene[1]	56-55-3	N.D.	0.02	0.1	1
10262	Benzo(a)pyrene	50-32-8	N.D.	0.02	0.1	1
10262	Benzo(b)fluoranthene[1]	205-99-2	N.D.	0.08	0.2	1
10262	Benzo(e)pyrene[1]	192-97-2	N.D.	0.02	0.1	1
10262	Benzo(g,h,i)perylene[1]	191-24-2	N.D.	0.06	0.1	1
10262	Benzo(k)fluoranthene[1]	207-08-9	N.D.	0.02	0.1	1
10262	Biphenyl[1]	92-52-4	0.7	0.04	0.1	1
10262	Chrysene[1]	218-01-9	N.D.	0.02	0.1	1
10262	Dibenz(a,h)anthracene[1]	53-70-3	N.D.	0.02	0.1	1
10262	Dibenzofuran[1]	132-64-9	0.2	0.02	0.1	1
10262	Dibenzothiophene[1]	132-65-0	0.1	0.04	0.1	1
10262	Fluoranthene[1]	206-44-0	0.05 J	0.02	0.1	1
10262	Fluorene[1]	86-73-7	0.8	0.02	0.1	1
10262	Indeno(1,2,3-cd)pyrene[1]	193-39-5	N.D.	0.08	0.2	1
10262	1-Methylnaphthalene[1]	90-12-0	0.5	0.04	0.1	1
10262	2-Methylnaphthalene[1]	91-57-6	N.D.	0.06	0.1	1
10262	Naphthalene[1]	91-20-3	0.4	0.06	0.2	1
10262	Naphthobenzothiophene[1]	224-10-2	N.D.	0.04	0.1	1
10262	Perylene[1]	198-55-0	N.D.	0.02	0.1	1
10262	Phenanthrene[1]	85-01-8	0.2	0.06	0.2	1
10262	Pyrene[1]	129-00-0	0.1 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.	N.D.	23	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

Sample Description: **DUP20200512 Grab Groundwater NRG PRGS**

Project Name: **NRG PRGS**

Submittal Date/Time: 05/13/2020 17:18
Collection Date/Time: 05/12/2020
SDG#: PRG25-09FD

GeoSyntec Consultants
ELLE Sample #: WW 1314336
ELLE Group #: 2099489
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.	730	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	F201402AA	05/19/2020 11:20	Alexander D Sechrist	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F201402AA	05/19/2020 11:19	Alexander D Sechrist	1
10262	Alkyl PAHs in Water by GC/MS	SW-846 8270C SIM Modified	1	20139WAI026	05/21/2020 08:27	Joseph M Gambler	1
11012	Alkyl PAH Extract	SW-846 3510C	1	20139WAI026	05/19/2020 09:20	Logan M Brosemer	1
01635	TPH-GRO water C6-C10	SW-846 8015B	1	20135A53A	05/16/2020 02:51	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	20135A53A	05/16/2020 02:50	Marie D Beamenderfer	1
12858	DRO Microextraction Master	SW-846 8015B	1	201360002A	05/16/2020 14:13	Timothy M Emrick	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	201360002A	05/15/2020 12:15	Shawn J McMullen	1
08079	HEM (oil & grease)	EPA 1664B	1	20140807902A	05/19/2020 15:34	Tesfaye Dabsu	1

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

Sample Description: **TB20126 Water**
NRG PRGS

Project Name: **NRG PRGS**

Submittal Date/Time: 05/13/2020 17:18
Collection Date/Time: 05/11/2020
SDG#: PRG25-10TB

GeoSyntec Consultants
ELLE Sample #: WW 1314337
ELLE Group #: 2099489
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.	23	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	F201402AA	05/19/2020 09:30	Alexander D Sechrist	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F201402AA	05/19/2020 09:29	Alexander D Sechrist	1
01635	TPH-GRO water C6-C10	SW-846 8015B	1	20135A53A	05/16/2020 00:17	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	20135A53A	05/16/2020 00:16	Marie D Beamenderfer	1

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

Quality Control Summary

Client Name: GeoSyntec Consultants
Reported: 05/28/2020 13:21

Group Number: 2099489

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: F201402AA	Sample number(s): 1314326-1314337		
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: 20136WAM026	Sample number(s): 1314326-1314327,1314335		
Acenaphthene	N.D.	0.01	0.05
Acenaphthylene	N.D.	0.01	0.05
Anthracene	N.D.	0.01	0.05
Benzo(a)anthracene	N.D.	0.01	0.05
Benzo(a)pyrene	N.D.	0.01	0.05
Benzo(b)fluoranthene	N.D.	0.04	0.09
Benzo(e)pyrene	N.D.	0.01	0.05
Benzo(g,h,i)perylene	N.D.	0.03	0.07
Benzo(k)fluoranthene	N.D.	0.01	0.05
Biphenyl	N.D.	0.02	0.05
Chrysene	N.D.	0.01	0.05
Dibenz(a,h)anthracene	N.D.	0.01	0.05
Dibenzofuran	N.D.	0.01	0.05
Dibenzothiophene	N.D.	0.02	0.05
Fluoranthene	N.D.	0.01	0.05
Fluorene	N.D.	0.01	0.05
Indeno(1,2,3-cd)pyrene	N.D.	0.04	0.09
1-Methylnaphthalene	N.D.	0.02	0.05
2-Methylnaphthalene	N.D.	0.03	0.07
Naphthalene	N.D.	0.03	0.08
Naphthobenzothiophene	N.D.	0.02	0.05
Perylene	N.D.	0.01	0.05
Phenanthrene	N.D.	0.03	0.08
Pyrene	N.D.	0.02	0.05
Batch number: 20139WAI026	Sample number(s): 1314329-1314334,1314336		
Acenaphthene	N.D.	0.01	0.05
Acenaphthylene	N.D.	0.01	0.05
Anthracene	N.D.	0.01	0.05
Benzo(a)anthracene	N.D.	0.01	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: 05/28/2020 13:21

Group Number: 2099489

Method Blank (continued)

Analysis Name	Result	MDL**	LOQ
	ug/l	ug/l	ug/l
Benzo(a)pyrene	N.D.	0.01	0.05
Benzo(b)fluoranthene	N.D.	0.04	0.09
Benzo(e)pyrene	N.D.	0.01	0.05
Benzo(g,h,i)perylene	N.D.	0.03	0.07
Benzo(k)fluoranthene	N.D.	0.01	0.05
Biphenyl	N.D.	0.02	0.05
Chrysene	N.D.	0.01	0.05
Dibenz(a,h)anthracene	N.D.	0.01	0.05
Dibenzofuran	N.D.	0.01	0.05
Dibenzothiophene	N.D.	0.02	0.05
Fluoranthene	N.D.	0.01	0.05
Fluorene	N.D.	0.01	0.05
Indeno(1,2,3-cd)pyrene	N.D.	0.04	0.09
1-Methylnaphthalene	N.D.	0.02	0.05
2-Methylnaphthalene	N.D.	0.03	0.07
Naphthalene	N.D.	0.03	0.08
Naphthobenzothiophene	N.D.	0.02	0.05
Perylene	N.D.	0.01	0.05
Phenanthrene	N.D.	0.03	0.08
Pyrene	N.D.	0.02	0.05
Batch number: 20135A53A	Sample number(s): 1314326-1314337		
TPH-GRO water C6-C10	N.D.	23	50
Batch number: 201360002A	Sample number(s): 1314332-1314336		
DRO C10-C28	N.D.	53	100
Batch number: 201400003A	Sample number(s): 1314326		
DRO C10-C28	N.D.	53	100
Batch number: 201430015A	Sample number(s): 1314327-1314331		
DRO C10-C28	N.D.	53	100
	mg/l	mg/l	mg/l
Batch number: 20140807902A	Sample number(s): 1314326-1314336		
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: F201402AA	Sample number(s): 1314326-1314337								
Benzene	20	20.96			105		80-120		

*- Outside of specification
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(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: 05/28/2020 13:21

Group Number: 2099489

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
t-Butyl alcohol	200	163.77			82		60-130		
1,2-Dibromoethane	20	18.18			91		77-120		
1,2-Dichloroethane	20	17.96			90		73-124		
Ethylbenzene	20	19.12			96		80-120		
Methyl Tertiary Butyl Ether	20	19			95		69-122		
Toluene	20	19.6			98		80-120		
Xylene (Total)	60	57.68			96		80-120		
	ug/l	ug/l	ug/l	ug/l					
Batch number: 20136WAM026	Sample number(s): 1314326-1314327,1314335								
Acenaphthene	1.00	0.965	1.00	0.885	96	89	39-125	9	30
Acenaphthylene	1.00	1.08	1.00	1.00	108	100	50-110	8	30
Anthracene	1.00	1.06	1.00	0.957	106	96	56-111	10	30
Benzo(a)anthracene	1.00	1.11	1.00	1.02	111	102	68-116	9	30
Benzo(a)pyrene	1.00	1.00	1.00	0.984	100	98	63-118	2	30
Benzo(b)fluoranthene	1.00	1.06	1.00	0.990	106	99	62-125	7	30
Benzo(e)pyrene	1.00	0.935	1.00	0.889	93	89	66-115	5	30
Benzo(g,h,i)perylene	1.00	1.01	1.00	0.889	101	89	66-109	13	30
Benzo(k)fluoranthene	1.00	0.996	1.00	0.915	100	92	55-121	8	30
Biphenyl	1.00	1.04	1.00	0.915	104*	92	74-101	13	30
Chrysene	1.00	1.10	1.00	0.929	110*	93	66-108	17	30
Dibenz(a,h)anthracene	1.00	0.898	1.00	0.788	90	79	62-117	13	30
Dibenzofuran	1.00	0.957	1.00	0.875	96	88	52-106	9	30
Dibenzothiophene	1.00	1.04	1.00	1.09	104	109	76-111	5	30
Fluoranthene	1.00	1.04	1.00	1.03	104	103	67-109	2	30
Fluorene	1.00	1.03	1.00	0.944	103	94	53-115	9	30
Indeno(1,2,3-cd)pyrene	1.00	0.942	1.00	0.816	94	82	69-117	14	30
1-Methylnaphthalene	1.00	0.990	1.00	0.888	99	89	54-106	11	30
2-Methylnaphthalene	1.00	0.975	1.00	0.882	97	88	43-114	10	30
Naphthalene	1.00	0.939	1.00	0.879	94	88	26-122	7	30
Perylene	1.00	1.11	1.00	1.07	111	107	70-130	3	30
Phenanthrene	1.00	1.01	1.00	0.931	101	93	64-111	8	30
Pyrene	1.00	1.14	1.00	1.09	114*	109*	65-107	5	30
Batch number: 20139WAI026	Sample number(s): 1314329-1314334,1314336								
Acenaphthene	1.00	0.831			83		39-125		
Acenaphthylene	1.00	0.944			94		50-110		
Anthracene	1.00	0.924			92		56-111		
Benzo(a)anthracene	1.00	0.945			95		68-116		
Benzo(a)pyrene	1.00	0.904			90		63-118		
Benzo(b)fluoranthene	1.00	0.951			95		62-125		
Benzo(e)pyrene	1.00	0.904			90		66-115		
Benzo(g,h,i)perylene	1.00	0.866			87		66-109		
Benzo(k)fluoranthene	1.00	0.849			85		55-121		

*- Outside of specification
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(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: 05/28/2020 13:21

Group Number: 2099489

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
Biphenyl	1.00	0.901			90		74-101		
Chrysene	1.00	0.886			89		66-108		
Dibenz(a,h)anthracene	1.00	0.857			86		62-117		
Dibenzofuran	1.00	0.912			91		52-106		
Dibenzothiophene	1.00	1.03			103		76-111		
Fluoranthene	1.00	0.961			96		67-109		
Fluorene	1.00	0.879			88		53-115		
Indeno(1,2,3-cd)pyrene	1.00	0.963			96		69-117		
1-Methylnaphthalene	1.00	0.837			84		54-106		
2-Methylnaphthalene	1.00	0.838			84		43-114		
Naphthalene	1.00	0.858			86		26-122		
Perylene	1.00	1.22			122		70-130		
Phenanthrene	1.00	0.898			90		64-111		
Pyrene	1.00	1.03			103		65-107		
	ug/l	**ug/l**	**ug/l**	**ug/l**					
Batch number: 20135A53A	Sample number(s): 1314326-1314337								
TPH-GRO water C6-C10	1100	995.53			91		70-123		
	ug/l	**ug/l**	**ug/l**	**ug/l**					
Batch number: 201360002A	Sample number(s): 1314332-1314336								
DRO C10-C28	2857.87	1734.78	2857.87	1796.2	61	63	47-116	3	20
Batch number: 201400003A	Sample number(s): 1314326								
DRO C10-C28	2680.93	3789.21			141*		47-116		
Batch number: 201430015A	Sample number(s): 1314327-1314331								
DRO C10-C28	2615.73	2867.89			110		47-116		
	mg/l	**mg/l**	**mg/l**	**mg/l**					
Batch number: 20140807902A	Sample number(s): 1314326-1314336								
HEM (oil & grease)	40	38.8	40	39.1	97	98	78-114	1	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: F201402AA	Sample number(s): 1314326-1314337 UNSPK: 1314332									
Benzene	N.D.	20	23.06	20	22.7	115	114	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: 05/28/2020 13:21

Group Number: 2099489

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
t-Butyl alcohol	N.D.	200	168.52	200	167.64	84	84	60-130	1	30
1,2-Dibromoethane	N.D.	20	19.06	20	18.48	95	92	77-120	3	30
1,2-Dichloroethane	N.D.	20	18.59	20	18.58	93	93	73-124	0	30
Ethylbenzene	N.D.	20	21.12	20	20.54	106	103	80-120	3	30
Methyl Tertiary Butyl Ether	N.D.	20	20	20	19.78	100	99	69-122	1	30
Toluene	N.D.	20	22.05	20	21.23	110	106	80-120	4	30
Xylene (Total)	N.D.	60	63.14	60	61.8	105	103	80-120	2	30
	ug/l	**ug/l**	**ug/l**	**ug/l**	**ug/l**					
Batch number: 20139WAI026	Sample number(s): 1314329-1314334,1314336 UNSPK: 1314332									
Acenaphthene	0.0442	2.07	1.79	2.08	1.85	84	87	39-125	3	30
Acenaphthylene	N.D.	2.07	1.90	2.08	1.98	92	95	50-110	4	30
Anthracene	N.D.	2.07	1.87	2.08	1.98	90	95	56-111	6	30
Benzo(a)anthracene	N.D.	2.07	1.96	2.08	2.13	95	102	68-116	8	30
Benzo(a)pyrene	N.D.	2.07	1.79	2.08	2.00	87	96	63-118	11	30
Benzo(b)fluoranthene	N.D.	2.07	1.71	2.08	1.94	83	93	62-125	13	30
Benzo(e)pyrene	N.D.	2.07	1.81	2.08	2.03	87	97	66-115	12	30
Benzo(g,h,i)perylene	N.D.	2.07	1.76	2.08	2.07	85	99	66-109	16	30
Benzo(k)fluoranthene	N.D.	2.07	1.84	2.08	1.96	89	94	55-121	6	30
Biphenyl	N.D.	2.07	1.80	2.08	1.87	87	90	74-101	4	30
Chrysene	N.D.	2.07	1.82	2.08	1.97	88	94	66-108	8	30
Dibenz(a,h)anthracene	N.D.	2.07	1.77	2.08	2.10	86	101	62-117	17	30
Dibenzofuran	N.D.	2.07	1.88	2.08	1.99	91	95	52-106	6	30
Dibenzothiophene	N.D.	2.07	1.73	2.08	1.90	83	91	76-111	10	30
Fluoranthene	0.0723	2.07	1.77	2.08	2.00	82	93	67-109	13	30
Fluorene	N.D.	2.07	1.80	2.08	1.90	87	91	53-115	5	30
Indeno(1,2,3-cd)pyrene	N.D.	2.07	1.96	2.08	2.31	95	111	69-117	17	30
1-Methylnaphthalene	N.D.	2.07	1.66	2.08	1.75	80	84	54-106	5	30
2-Methylnaphthalene	N.D.	2.07	1.65	2.08	1.70	80	82	43-114	3	30
Naphthalene	N.D.	2.07	1.61	2.08	1.64	78	79	26-122	2	30
Perylene	N.D.	2.07	2.40	2.08	2.59	116	124	70-130	7	30
Phenanthrene	N.D.	2.07	1.75	2.08	1.85	85	89	64-111	5	30
Pyrene	0.0759	2.07	1.95	2.08	2.07	90	96	65-107	6	30
	ug/l	**ug/l**	**ug/l**	**ug/l**	**ug/l**					
Batch number: 20135A53A	Sample number(s): 1314326-1314337 UNSPK: 1314332									
TPH-GRO water C6-C10	N.D.	1100	1203.27	1100	1214.33	109	110	70-123	1	30
	ug/l	**ug/l**	**ug/l**	**ug/l**	**ug/l**					
Batch number: 201360002A	Sample number(s): 1314332-1314336 UNSPK: 1314332									
DRO C10-C28	N.D.	2691.75	1438.46	2698.29	1689.28	53	63	47-116	16	20

*- 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: 05/28/2020 13:21

Group Number: 2099489

MS/MSD (continued)

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

Analysis Name	Unspiked Conc mg/l	MS Spike Added mg/l	MS Conc mg/l	MSD Spike Added mg/l	MSD Conc mg/l	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: 20140807902A	Sample number(s): 1314326-1314336 UNSPK: 1314332									
HEM (oil & grease)	N.D.	43.5	41.85	44	41.65	96	95	78-114	0	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: F201402AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
1314326	96	97	96	97
1314327	98	99	97	96
1314328	94	97	97	97
1314329	97	100	97	96
1314330	97	96	95	96
1314331	98	97	96	96
1314332	96	99	96	97
1314333	94	102	98	100
1314334	95	99	97	99
1314335	96	97	97	95
1314336	96	100	96	100
1314337	96	95	95	96
Blank	95	96	97	96
LCS	96	101	98	99
MS	94	102	98	100
MSD	95	99	97	99
Limits:	80-120	80-120	80-120	80-120

Analysis Name: Alkyl PAHs in Water by GC/MS
Batch number: 20136WAM026

	Fluoranthene-d10	Benzo(a)pyrene-d12	1-Methylnaphthalene-d10
1314326	83	82	100
1314327	88	90	123*
1314335	89	88	89
Blank	93	85	86
LCS	99	85	98
LCSD	97	81	88

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: GeoSyntec Consultants
Reported: 05/28/2020 13:21

Group Number: 2099489

Surrogate Quality Control (continued)

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

Analysis Name: Alkyl PAHs in Water by GC/MS
Batch number: 20136WAM026

Limits:	38-109	31-99	30-108

Analysis Name: Alkyl PAHs in Water by GC/MS
Batch number: 20139WAI026

	Fluoranthene-d10	Benzo(a)pyrene-d12	1-Methylnaphthalene-d10
1314329	93	83	92
1314330	84	87	93
1314331	103	83	93
1314332	98	89	93
1314333	90	82	88
1314334	98	85	90
1314336	87	84	92
Blank	97	86	87
LCS	100	85	93
MS	90	82	88
MSD	98	85	90
Limits:	38-109	31-99	30-108

Analysis Name: TPH-GRO water C6-C10
Batch number: 20135A53A

	Trifluorotoluene-F
1314326	86
1314327	85
1314328	86
1314329	85
1314330	88
1314331	86
1314332	88
1314333	100
1314334	100
1314335	88
1314336	89
1314337	88
Blank	86
LCS	98
MS	100
MSD	100
Limits:	63-135

*- 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: 05/28/2020 13:21

Group Number: 2099489

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 Microextraction Master
Batch number: 201360002A

	Orthoterphenyl
1314332	87
1314333	82
1314334	83
1314335	88
1314336	88
Blank	87
LCS	84
LCSD	82
MS	82
MSD	83
Limits:	52-132

Analysis Name: DRO Microextraction Master
Batch number: 201400003A

	Orthoterphenyl
1314326	100
Blank	103
LCS	95
Limits:	52-132

Analysis Name: DRO Microextraction Master
Batch number: 201430015A

	Orthoterphenyl
1314327	113
1314328	106
1314329	104
1314330	111
1314331	112
Blank	112
LCS	105
Limits:	52-132

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Environmental Analysis Request/Chain of Custody

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For Eurofins Lancaster Laboratories Environmental use only
Acct. # 9811 Group # 2099489 Sample # 1314326-37

COC # 606170

Client Information

Client: Geosyntec
Project Name/#: PRGS
Project Manager: M. Baver
Sampler: A. Ambrosino
State where samples were collected: Virginia
For Compliance: Yes ☐ No ☒

Acct. #:
PWSID #:
P.O. #: MEM11088
Quote #:

Matrix

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

Analysis Requested

Preservation and Filtration Codes

For Lab Use Only
FSC:
SCR#: 258874

Preservation Codes
H=HCl T=Thiosulfate
N=HNO_3 B=NaOH
S=H_2SO_4 P=H_3PO_4
F=Field Filtered O=Other

Remarks

Sample Identification	Collected Date	Collected Time	Grab	Composite	Total # of Containers	HEM (oil & Grease)	TPH-GRO (C6-C10) water	PAHs	VOCs - 5mL Waters 8260B VST	ORO Microextraction Masks
TW14	5/11/20	1030	X		12	X	X	X	X	X
TW05	5/11/20	1255	X		12	X	X	X	X	X
TW04	5/11/20	1505	X		12	X	X	X	X	X
TW07	5/12/20	0910	X		12	X	X	X	X	X
TW06	5/12/20	1100	X		12	X	X	X	X	X
TW03	5/12/20	1240	X		12	X	X	X	X	X
TW02	5/12/20	1440	X		12	X	X	X	X	X

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/gambrosino@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	5/13/20	15:21		5/13/20	15:21
	5-13-20	17:18			

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 t

Temperature upon receipt -1.1 - 0.1 °C

Environmental Analysis Request/Chain of Custody

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For Eurofins Lancaster Laboratories Environmental use only
Acct. # 9811 Group # 209948 Sample # 814826-37

COC #606171

Client Information

Client: GeoSyntec
Acct. #: AA
Project Name/#: PRGS
PWSID #: MEM1108B AA
Project Manager: M. Bauer
P.O. #: MEM1108B
Sampler: A. Ambrosino
Quote #: AA
State where samples were collected: Virginia
For Compliance: Yes ☐ No ☒

Matrix

Soil ☐ Sediment ☐ Tissue ☐ Water ☒ Ground ☐ Potable ☐ Surface ☐ NPDES ☐ Other: ____

Analysis Requested

Preservation and Filtration Codes

For Lab Use Only
FSC:
SCR#:

Preservation Codes
H=HCl T=Thiosulfate
N=HNO_3 B=NaOH
S=H_2SO_4 P=H_3PO_4
F=Field Filtered O=Other

Sample Identification	Collected Date	Collected Time	Grab	Composite	Total # of Containers	HEM (oil & grease)	TPH-GRO (water) 8260B	PAHs	VOCs 5mL water by 8260B VST	DRO Microextraction Method	Remarks
EB20200511	5/11/20	1605	X		12	X	X	X	X	X	
DUP20200512	5/12/20	—	X		12	X	X	X	X	X	
TW02 MS	5/12/20	1440	X		12	X	X	X	X	X	
TW02 MSD	5/12/20	1440	X		12	X	X	X	X	X	
TB20126	—	—	—		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: mbauer@geosyntec.com

Data Package Options (circle if required)

Type I (EPA Level 3 Equivalent/non-CLP)
Type VI (Raw Data Only)
Type III (Reduced non-CLP)
NJ DKQP
TX TRRP-13
NYSDEC Category A or B
MA MCP
CT RCP

Relinquished by	Date	Time	Received by	Date	Time
A. Ambrosino	5/13/20	15:21		5/13/20	15:21
	5-13-20	17:18			
				5/13/20	17:18

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 4.1 - 0.7 °C

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Sample Administration Receipt Documentation Log

Doc Log ID: 284455

Group Number(s): 2099489

Client: GeoSyntec

PRGS

Delivery and Receipt Information

Delivery Method:	ELLE Courier	Arrival Date:	05/13/2020
Number of Packages:	4	Number of Projects:	1
State/Province of Origin:	VA		

Arrival Condition Summary

Shipping Container Sealed:	No	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	No	Sample Date/Times match COC:	Yes
Samples Chilled:	Yes	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 Nicole Reiff

Samples Chilled Details: PRGS

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	46730060WS	-0.5	IR	Wet	Y	Loose	N
2	Water	46730060WS	-1.1	IR	Wet	Y	Loose	N
3	Water	46730060WS	-0.2	IR	Wet	Y	Loose	N
4	Water	46730060WS	0.7	IR	Wet	Y	Loose	N

General Comments: Samples were not frozen.

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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 less than the LOQ
K2	Continuing Calibration Blank is above the QC limit and the sample result is less than the LOQ
K3	Initial Calibration Verification is above the QC limit and the sample result is less than the LOQ
K4	Continuing Calibration Verification is above the QC limit and the sample result is less than the LOQ
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: May 28, 2020 14:24

Project: NRG PRGS

Account #: 08390
Group Number: 2099562
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-51S Grab Groundwater	05/13/2020 09:40	1314768
MW-51-RW-51 Grab Groundwater	05/13/2020 10:45	1314769
TW-06-Grab Grab Groundwater	05/13/2020 12:45	1314770
TW-05-Grab Grab Groundwater	05/13/2020 13:05	1314771
MW-51/RW-51-Grab Grab Groundwater	05/13/2020 13:30	1314772

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

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/14/2020 17:33
Collection Date/Time: 05/13/2020 09:40

GES, Inc.
ELLE Sample #: RW 1314768
ELLE Group #: 2099562
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acetone	67-64-1	N.D.	4	5
10335	Benzene	71-43-2	2 J	1	5
10335	Bromodichloromethane	75-27-4	N.D.	1	5
10335	Bromoform	75-25-2	N.D.	10	5
10335	Bromomethane	74-83-9	N.D.	3	5
10335	2-Butanone	78-93-3	N.D.	5	5
10335	Carbon Disulfide	75-15-0	N.D.	2	5
10335	Carbon Tetrachloride	56-23-5	N.D.	1	5
10335	Chlorobenzene	108-90-7	N.D.	1	5
10335	Chloroethane	75-00-3	N.D.	2	5
10335	Chloroform	67-66-3	N.D.	1	5
10335	Chloromethane	74-87-3	N.D.	2	5
10335	Cyclohexane	110-82-7	N.D.	10	5
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	5	5
10335	Dibromochloromethane	124-48-1	N.D.	2	5
10335	1,2-Dibromoethane	106-93-4	N.D.	2	5
10335	1,2-Dichlorobenzene	95-50-1	N.D.	1	5
10335	1,3-Dichlorobenzene	541-73-1	N.D.	1	5
10335	1,4-Dichlorobenzene	106-46-7	N.D.	1	5
10335	Dichlorodifluoromethane	75-71-8	N.D.	2	5
10335	1,1-Dichloroethane	75-34-3	N.D.	1	5
10335	1,2-Dichloroethane	107-06-2	N.D.	10	5
10335	1,1-Dichloroethene	75-35-4	N.D.	1	5
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	1	5
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	1	5
10335	1,2-Dichloropropane	78-87-5	N.D.	1	5
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	5
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	2	5
10335	Ethylbenzene	100-41-4	N.D.	1	5
10335	Freon 113	76-13-1	N.D.	10	5
10335	2-Hexanone	591-78-6	N.D.	15	5
10335	Isopropylbenzene	98-82-8	N.D.	2	5
10335	Methyl Acetate	79-20-9	N.D.	3	5
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	1	5
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	5
10335	Methylcyclohexane	108-87-2	N.D.	1	5
10335	Methylene Chloride	75-09-2	N.D.	1	5
10335	Styrene	100-42-5	N.D.	1	5
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	5
10335	Tetrachloroethene	127-18-4	N.D.	1	5
10335	Toluene	108-88-3	N.D.	1	5
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	2	5
10335	1,1,1-Trichloroethane	71-55-6	N.D.	1	5
10335	1,1,2-Trichloroethane	79-00-5	N.D.	1	5
10335	Trichloroethene	79-01-6	N.D.	1	5
10335	Trichlorofluoromethane	75-69-4	N.D.	2	5
10335	Vinyl Chloride	75-01-4	N.D.	2	5
10335	Xylene (Total)	1330-20-7	N.D.	3	5

Reporting limits were raised due to sample foaming.

GC/MS Semivolatiles	**SW-846 8270D**	**ug/l**	**ug/l**	

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/14/2020 17:33
Collection Date/Time: 05/13/2020 09:40

GES, Inc.
ELLE Sample #: RW 1314768
ELLE Group #: 2099562
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	
14242	Acenaphthene	83-32-9	N.D.	0.1	1
14242	Acenaphthylene	208-96-8	N.D.	0.1	1
14242	Acetophenone	98-86-2	N.D.	4	1
14242	Anthracene	120-12-7	N.D.	0.1	1
14242	Atrazine	1912-24-9	N.D.	2	1
14242	Benzaldehyde	100-52-7	N.D.	3	1
14242	Benzo(a)anthracene	56-55-3	N.D.	0.1	1
14242	Benzo(a)pyrene	50-32-8	N.D.	0.1	1
14242	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	1
14242	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	1
14242	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	1
14242	1,1'-Biphenyl	92-52-4	N.D.	3	1
14242	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	1
14242	Butylbenzylphthalate	85-68-7	N.D.	2	1
14242	Di-n-butylphthalate	84-74-2	N.D.	2	1
14242	Caprolactam	105-60-2	N.D.	5	1
14242	Carbazole	86-74-8	N.D.	0.5	1
14242	4-Chloro-3-methylphenol	59-50-7	N.D.	2	1
14242	4-Chloroaniline	106-47-8	N.D.	4	1
14242	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	1
14242	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	1
14242	2-Chloronaphthalene	91-58-7	N.D.	0.4	1
14242	2-Chlorophenol	95-57-8	N.D.	0.5	1
14242	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	1
14242	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	0.5	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.				
14242	Chrysene	218-01-9	N.D.	0.1	1
14242	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	1
14242	Dibenzofuran	132-64-9	N.D.	0.5	1
14242	3,3'-Dichlorobenzidine	91-94-1	N.D.	3	1
14242	2,4-Dichlorophenol	120-83-2	N.D.	0.5	1
14242	Diethylphthalate	84-66-2	N.D.	2	1
14242	2,4-Dimethylphenol	105-67-9	N.D.	3	1
14242	Dimethylphthalate	131-11-3	N.D.	2	1
14242	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	8	1
14242	2,4-Dinitrophenol	51-28-5	N.D.	14	1
14242	2,4-Dinitrotoluene	121-14-2	N.D.	1	1
14242	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	1
14242	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	5	1
14242	Fluoranthene	206-44-0	N.D.	0.1	1
14242	Fluorene	86-73-7	N.D.	0.1	1
14242	Hexachlorobenzene	118-74-1	N.D.	0.1	1
14242	Hexachlorobutadiene	87-68-3	N.D.	0.5	1
14242	Hexachlorocyclopentadiene	77-47-4	N.D.	5	1
14242	Hexachloroethane	67-72-1	N.D.	1	1
14242	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	1
14242	Isophorone	78-59-1	N.D.	0.5	1
14242	2-Methylnaphthalene	91-57-6	N.D.	0.1	1

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/14/2020 17:33
Collection Date/Time: 05/13/2020 09:40

GES, Inc.
ELLE Sample #: RW 1314768
ELLE Group #: 2099562
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	
14242	2-Methylphenol	95-48-7	N.D.	0.5	1
14242	4-Methylphenol	106-44-5	N.D.	0.5	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.				
14242	Naphthalene	91-20-3	N.D.	0.1	1
14242	2-Nitroaniline	88-74-4	N.D.	2	1
14242	3-Nitroaniline	99-09-2	N.D.	3	1
14242	4-Nitroaniline	100-01-6	N.D.	0.9	1
14242	Nitrobenzene	98-95-3	N.D.	0.5	1
14242	2-Nitrophenol	88-75-5	N.D.	3	1
14242	4-Nitrophenol	100-02-7	N.D.	10	1
14242	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.7	1
14242	N-Nitrosodiphenylamine	86-30-6	N.D.	0.7	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.				
14242	Di-n-octylphthalate	117-84-0	N.D.	5	1
14242	Pentachlorophenol	87-86-5	N.D.	1	1
14242	Phenanthrene	85-01-8	N.D.	0.1	1
14242	Phenol	108-95-2	N.D.	0.5	1
14242	Pyrene	129-00-0	N.D.	0.1	1
14242	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	1
14242	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	1
	The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following action was taken: The sample was re-extracted and the QC is again outside of the acceptance limits. The data is reported from the initial trial.				
GC Miscellaneous	**RSKSOP-175 modified**		**ug/l**	**ug/l**	
07105	Methane	74-82-8	2,500	30	10
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	9,000	53	1
Metals	**SW-846 6010C**		**mg/l**	**mg/l**	
07044	Antimony	7440-36-0	N.D.	0.0160	1
07035	Arsenic	7440-38-2	N.D.	0.0160	1
07046	Barium	7440-39-3	0.123	0.0010	1
07047	Beryllium	7440-41-7	N.D.	0.0010	1
07049	Cadmium	7440-43-9	0.0016 J	0.0010	1
07051	Chromium	7440-47-3	N.D.	0.0016	1
07052	Cobalt	7440-48-4	0.0042 J	0.0015	1
07053	Copper	7440-50-8	N.D.	0.0120	1
07055	Lead	7439-92-1	N.D.	0.0071	1
07058	Manganese	7439-96-5	0.579	0.0030	1
07060	Molybdenum	7439-98-7	N.D.	0.0020	1
07061	Nickel	7440-02-0	0.0042 J	0.0021	1

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/14/2020 17:33
Collection Date/Time: 05/13/2020 09:40

GES, Inc.
ELLE Sample #: RW 1314768
ELLE Group #: 2099562
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Metals	**SW-846 6010C**		**mg/l**	**mg/l**	
07036	Selenium	7782-49-2	N.D.	0.0160	1
07066	Silver	7440-22-4	N.D.	0.0050	1
07022	Thallium	7440-28-0	N.D.	0.0081	1
07071	Vanadium	7440-62-2	N.D.	0.0019	1
07072	Zinc	7440-66-6	0.0279	0.0037	1
	SW-846 7470A		**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000050	1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	
00228	Sulfate	14808-79-8	51.4	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[1]	n.a.	78.7	0.750	50
	SM 2320 B-2011		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5	n.a.	342	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
10335	TCL 4.3 VOCs	SW-846 8260B	1	N201472AA	05/26/2020 21:42	Sara E Johnson	5
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N201472AA	05/26/2020 21:41	Sara E Johnson	5
14242	TCL 4.3 SVOCs	SW-846 8270D	1	20140WAA026	05/22/2020 13:47	Linda M Hartenstine	1
00813	BNA Water Extraction	SW-846 3510C	1	20140WAA026	05/19/2020 18:10	Patrick Thimes	1
07105	Methane	RSKSOP-175 modified	1	201390001A	05/19/2020 12:28	Johanna C Kennedy	10
12858	DRO micro-ext 8015B	SW-846 8015B	1	201430015A	05/27/2020 16:47	Timothy M Emrick	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	2	201430015A	05/25/2020 06:20	Maria Davenport	1
07044	Antimony	SW-846 6010C	1	201401404404	05/21/2020 09:51	Lisa J Cooke	1
07035	Arsenic	SW-846 6010C	1	201401404404	05/21/2020 09:51	Lisa J Cooke	1
07046	Barium	SW-846 6010C	1	201401404404	05/21/2020 09:51	Lisa J Cooke	1
07047	Beryllium	SW-846 6010C	1	201401404404	05/21/2020 09:51	Lisa J Cooke	1
07049	Cadmium	SW-846 6010C	1	201401404404	05/21/2020 09:51	Lisa J Cooke	1
07051	Chromium	SW-846 6010C	1	201401404404	05/21/2020 09:51	Lisa J Cooke	1
07052	Cobalt	SW-846 6010C	1	201401404404	05/21/2020 09:51	Lisa J Cooke	1
07053	Copper	SW-846 6010C	1	201401404404	05/21/2020 09:51	Lisa J Cooke	1
07055	Lead	SW-846 6010C	1	201401404404	05/22/2020 21:16	Christina Termini	1
07058	Manganese	SW-846 6010C	1	201401404404	05/22/2020 21:16	Christina Termini	1

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/14/2020 17:33
Collection Date/Time: 05/13/2020 09:40

GES, Inc.
ELLE Sample #: RW 1314768
ELLE Group #: 2099562
Matrix: Groundwater

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07060	Molybdenum	SW-846 6010C	1	201401404404	05/21/2020 09:51	Lisa J Cooke	1
07061	Nickel	SW-846 6010C	1	201401404404	05/21/2020 09:51	Lisa J Cooke	1
07036	Selenium	SW-846 6010C	1	201401404404	05/21/2020 09:51	Lisa J Cooke	1
07066	Silver	SW-846 6010C	1	201401404404	05/21/2020 09:51	Lisa J Cooke	1
07022	Thallium	SW-846 6010C	1	201401404404	05/22/2020 21:16	Christina Termini	1
07071	Vanadium	SW-846 6010C	1	201401404404	05/21/2020 09:51	Lisa J Cooke	1
07072	Zinc	SW-846 6010C	1	201401404404	05/21/2020 09:51	Lisa J Cooke	1
00259	Mercury	SW-846 7470A	1	201360571301	05/20/2020 08:10	Damary Valentin	1
14044	ICP-WW, 3005A (tot rec) - U345	SW-846 3005A	1	201401404404	05/20/2020 04:37	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	201360571301	05/19/2020 16:15	JoElla L Rice	1
00228	Sulfate	EPA 300.0	1	20139076117A	05/19/2020 00:20	Niyati Desai	50
00220	Nitrate Nitrogen	EPA 353.2	1	20138106101B	05/17/2020 07:46	Ashlynn M Cornelius	1
00219	Nitrite Nitrogen	EPA 353.2	1	20135105104A	05/15/2020 07:21	Jonathan Saul	1
14855	Ferrous Iron	SM 3500-Fe B-2011	1	20139127101A	05/18/2020 12:16	Jonathan Saul	50
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	20136002104A	05/16/2020 03:30	Jeremy L Bolf	1

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/14/2020 17:33
Collection Date/Time: 05/13/2020 10:45

GES, Inc.
ELLE Sample #: RW 1314769
ELLE Group #: 2099562
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acetone	67-64-1	N.D.	0.8	1
10335	Benzene	71-43-2	0.6 J	0.2	1
10335	Bromodichloromethane	75-27-4	N.D.	0.2	1
10335	Bromoform	75-25-2	N.D.	2	1
10335	Bromomethane	74-83-9	N.D.	0.5	1
10335	2-Butanone	78-93-3	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	0.3	1
10335	Carbon Tetrachloride	56-23-5	N.D.	0.2	1
10335	Chlorobenzene	108-90-7	N.D.	0.2	1
10335	Chloroethane	75-00-3	N.D.	0.3	1
10335	Chloroform	67-66-3	N.D.	0.2	1
10335	Chloromethane	74-87-3	N.D.	0.3	1
10335	Cyclohexane	110-82-7	N.D.	2	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	0.4	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.3	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.	0.2	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.	0.2	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.	0.2	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	0.3	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.2	1
10335	1,2-Dichloroethane	107-06-2	N.D.	2	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.2	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.2	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.2	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.2	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.2	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.4	1
10335	Ethylbenzene	100-41-4	1	0.2	1
10335	Freon 113	76-13-1	N.D.	2	1
10335	2-Hexanone	591-78-6	N.D.	3	1
10335	Isopropylbenzene	98-82-8	1 J	0.3	1
10335	Methyl Acetate	79-20-9	N.D.	0.6	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.2	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	0.5	1
10335	Methylcyclohexane	108-87-2	0.3 J	0.2	1
10335	Methylene Chloride	75-09-2	N.D.	0.2	1
10335	Naphthalene	91-20-3	5 J	4	1
10335	Styrene	100-42-5	N.D.	0.2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.2	1
10335	Tetrachloroethene	127-18-4	N.D.	0.2	1
10335	Toluene	108-88-3	N.D.	0.2	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.4	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.2	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.2	1
10335	Trichloroethene	79-01-6	N.D.	0.2	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.4	1
10335	Vinyl Chloride	75-01-4	N.D.	0.4	1
10335	Xylene (Total)	1330-20-7	0.5 J	0.5	1

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/14/2020 17:33
Collection Date/Time: 05/13/2020 10:45

GES, Inc.
ELLE Sample #: RW 1314769
ELLE Group #: 2099562
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	
14242	Acenaphthene	83-32-9	N.D.	0.1	1
14242	Acenaphthylene	208-96-8	N.D.	0.1	1
14242	Acetophenone	98-86-2	N.D.	4	1
14242	Anthracene	120-12-7	N.D.	0.1	1
14242	Atrazine	1912-24-9	N.D.	2	1
14242	Benzaldehyde	100-52-7	N.D.	3	1
14242	Benzo(a)anthracene	56-55-3	N.D.	0.1	1
14242	Benzo(a)pyrene	50-32-8	N.D.	0.1	1
14242	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	1
14242	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	1
14242	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	1
14242	1,1'-Biphenyl	92-52-4	N.D.	3	1
14242	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	1
14242	Butylbenzylphthalate	85-68-7	N.D.	2	1
14242	Di-n-butylphthalate	84-74-2	N.D.	2	1
14242	Caprolactam	105-60-2	N.D.	5	1
14242	Carbazole	86-74-8	0.9 J	0.5	1
14242	4-Chloro-3-methylphenol	59-50-7	N.D.	2	1
14242	4-Chloroaniline	106-47-8	N.D.	4	1
14242	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	1
14242	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	1
14242	2-Chloronaphthalene	91-58-7	N.D.	0.4	1
14242	2-Chlorophenol	95-57-8	N.D.	0.5	1
14242	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	1
14242	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	0.5	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.				
14242	Chrysene	218-01-9	N.D.	0.1	1
14242	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	1
14242	Dibenzofuran	132-64-9	N.D.	0.5	1
14242	3,3'-Dichlorobenzidine	91-94-1	N.D.	3	1
14242	2,4-Dichlorophenol	120-83-2	N.D.	0.5	1
14242	Diethylphthalate	84-66-2	N.D.	2	1
14242	2,4-Dimethylphenol	105-67-9	N.D.	3	1
14242	Dimethylphthalate	131-11-3	N.D.	2	1
14242	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	8	1
14242	2,4-Dinitrophenol	51-28-5	N.D.	14	1
14242	2,4-Dinitrotoluene	121-14-2	N.D.	1	1
14242	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	1
14242	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	5	1
14242	Fluoranthene	206-44-0	N.D.	0.1	1
14242	Fluorene	86-73-7	N.D.	0.1	1
14242	Hexachlorobenzene	118-74-1	N.D.	0.1	1
14242	Hexachlorobutadiene	87-68-3	N.D.	0.5	1
14242	Hexachlorocyclopentadiene	77-47-4	N.D.	5	1
14242	Hexachloroethane	67-72-1	N.D.	1	1
14242	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	1
14242	Isophorone	78-59-1	N.D.	0.5	1
14242	2-Methylnaphthalene	91-57-6	0.6	0.1	1

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/14/2020 17:33
Collection Date/Time: 05/13/2020 10:45

GES, Inc.
ELLE Sample #: RW 1314769
ELLE Group #: 2099562
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	
14242	2-Methylphenol	95-48-7	0.8 J	0.5	1
14242	4-Methylphenol	106-44-5	6	0.5	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.				
14242	Naphthalene	91-20-3	3	0.1	1
14242	2-Nitroaniline	88-74-4	N.D.	2	1
14242	3-Nitroaniline	99-09-2	N.D.	3	1
14242	4-Nitroaniline	100-01-6	N.D.	0.9	1
14242	Nitrobenzene	98-95-3	N.D.	0.5	1
14242	2-Nitrophenol	88-75-5	N.D.	3	1
14242	4-Nitrophenol	100-02-7	N.D.	10	1
14242	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.7	1
14242	N-Nitrosodiphenylamine	86-30-6	N.D.	0.7	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.				
14242	Di-n-octylphthalate	117-84-0	N.D.	5	1
14242	Pentachlorophenol	87-86-5	N.D.	1	1
14242	Phenanthrene	85-01-8	N.D.	0.1	1
14242	Phenol	108-95-2	N.D.	0.5	1
14242	Pyrene	129-00-0	N.D.	0.1	1
14242	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	1
14242	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	1
	The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following action was taken: The sample was re-extracted and the QC is again outside of the acceptance limits. The data is reported from the initial trial.				
GC Miscellaneous	**RSKSOP-175 modified**		**ug/l**	**ug/l**	
07105	Methane	74-82-8	910	15	5
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	5,500	53	1
Metals	**SW-846 6010C**		**mg/l**	**mg/l**	
07044	Antimony	7440-36-0	N.D.	0.0160	1
07035	Arsenic	7440-38-2	N.D.	0.0160	1
07046	Barium	7440-39-3	0.103	0.0010	1
07047	Beryllium	7440-41-7	N.D.	0.0010	1
07049	Cadmium	7440-43-9	0.0021 J	0.0010	1
07051	Chromium	7440-47-3	N.D.	0.0016	1
07052	Cobalt	7440-48-4	0.0214	0.0015	1
07053	Copper	7440-50-8	N.D.	0.0120	1
07055	Lead	7439-92-1	N.D.	0.0071	1
07058	Manganese	7439-96-5	15.8	0.0030	1
07060	Molybdenum	7439-98-7	N.D.	0.0020	1
07061	Nickel	7440-02-0	0.0513	0.0021	1

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/14/2020 17:33
Collection Date/Time: 05/13/2020 10:45

GES, Inc.
ELLE Sample #: RW 1314769
ELLE Group #: 2099562
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Metals	**SW-846 6010C**		**mg/l**	**mg/l**	
07036	Selenium	7782-49-2	N.D.	0.0160	1
07066	Silver	7440-22-4	N.D.	0.0050	1
07022	Thallium	7440-28-0	N.D.	0.0405	5
07071	Vanadium	7440-62-2	0.0083 J	0.0019	1
07072	Zinc	7440-66-6	N.D.	0.0037	1
	SW-846 7470A		**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000050	1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	
00228	Sulfate	14808-79-8	185	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[1]	n.a.	120	1.50	100
	SM 2320 B-2011		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5	n.a.	455	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
10335	TCL Volatiles in Water	SW-846 8260B	1	N201472AA	05/26/2020 22:04	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N201472AA	05/26/2020 22:03	Sara E Johnson	1
14242	TCL 4.3 SVOCs	SW-846 8270D	1	20140WAA026	05/22/2020 14:15	Linda M Hartenstine	1
00813	BNA Water Extraction	SW-846 3510C	1	20140WAA026	05/19/2020 18:10	Patrick Thimes	1
07105	Methane	RSKSOP-175 modified	1	201390001A	05/19/2020 12:47	Johanna C Kennedy	5
12858	DRO micro-ext 8015B	SW-846 8015B	1	201430015A	05/27/2020 17:10	Timothy M Emrick	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	2	201430015A	05/25/2020 06:20	Maria Davenport	1
07044	Antimony	SW-846 6010C	1	201401404401	05/20/2020 17:02	Cindy M Gehman	1
07035	Arsenic	SW-846 6010C	1	201401404401	05/20/2020 17:02	Cindy M Gehman	1
07046	Barium	SW-846 6010C	1	201401404401	05/20/2020 17:02	Cindy M Gehman	1
07047	Beryllium	SW-846 6010C	1	201401404401	05/20/2020 17:02	Cindy M Gehman	1
07049	Cadmium	SW-846 6010C	1	201401404401	05/20/2020 17:02	Cindy M Gehman	1
07051	Chromium	SW-846 6010C	1	201401404401	05/20/2020 17:02	Cindy M Gehman	1
07052	Cobalt	SW-846 6010C	1	201401404401	05/20/2020 17:02	Cindy M Gehman	1
07053	Copper	SW-846 6010C	1	201401404401	05/20/2020 17:02	Cindy M Gehman	1
07055	Lead	SW-846 6010C	1	201401404401	05/20/2020 17:02	Cindy M Gehman	1
07058	Manganese	SW-846 6010C	1	201401404401	05/20/2020 17:02	Cindy M Gehman	1

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/14/2020 17:33
Collection Date/Time: 05/13/2020 10:45

GES, Inc.
ELLE Sample #: RW 1314769
ELLE Group #: 2099562
Matrix: Groundwater

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07060	Molybdenum	SW-846 6010C	1	201401404401	05/20/2020 17:02	Cindy M Gehman	1
07061	Nickel	SW-846 6010C	1	201401404401	05/20/2020 17:02	Cindy M Gehman	1
07036	Selenium	SW-846 6010C	1	201401404401	05/20/2020 17:02	Cindy M Gehman	1
07066	Silver	SW-846 6010C	1	201401404401	05/20/2020 17:02	Cindy M Gehman	1
07022	Thallium	SW-846 6010C	1	201401404401	05/21/2020 22:38	Cindy M Gehman	5
07071	Vanadium	SW-846 6010C	1	201401404401	05/20/2020 17:02	Cindy M Gehman	1
07072	Zinc	SW-846 6010C	1	201401404401	05/20/2020 17:02	Cindy M Gehman	1
00259	Mercury	SW-846 7470A	1	201360571302	05/21/2020 09:37	Damary Valentin	1
14044	ICP-WW, 3005A (tot rec) - U345	SW-846 3005A	1	201401404401	05/20/2020 03:28	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	201360571302	05/20/2020 15:20	JoElla L Rice	1
00228	Sulfate	EPA 300.0	1	20139076117A	05/21/2020 01:44	Niyati Desai	50
00220	Nitrate Nitrogen	EPA 353.2	1	20138106101B	05/17/2020 07:47	Ashlynn M Cornelius	1
00219	Nitrite Nitrogen	EPA 353.2	1	20135105103A	05/15/2020 07:04	Jonathan Saul	1
14855	Ferrous Iron	SM 3500-Fe B-2011	1	20139127101A	05/18/2020 12:34	Jonathan Saul	100
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	20136002104A	05/16/2020 03:37	Jeremy L Bolf	1

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/14/2020 17:33
Collection Date/Time: 05/13/2020 12:45

GES, Inc.
ELLE Sample #: RW 1314770
ELLE Group #: 2099562
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.	840	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	201430015A	05/27/2020 17:34	Timothy M Emrick	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	2	201430015A	05/25/2020 06:20	Maria Davenport	1

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/14/2020 17:33
Collection Date/Time: 05/13/2020 13:05

GES, Inc.
ELLE Sample #: RW 1314771
ELLE Group #: 2099562
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.	1,400	53	1

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12858	DRO micro-ext 8015B	SW-846 8015B	1	201430015A	05/27/2020 18:46	Timothy M Emrick	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	2	201430015A	05/25/2020 06:20	Maria Davenport	1

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/14/2020 17:33
Collection Date/Time: 05/13/2020 13:30

GES, Inc.
ELLE Sample #: RW 1314772
ELLE Group #: 2099562
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.	60,000	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	201430015A	05/27/2020 19:10	Timothy M Emrick	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	2	201430015A	05/25/2020 06:20	Maria Davenport	1

Quality Control Summary

Client Name: GES, Inc. Group Number: 2099562
Reported: 05/28/2020 14:24

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: N201472AA	Sample number(s): 1314768-1314769	
Acetone	N.D.	0.8
Benzene	N.D.	0.2
Bromodichloromethane	N.D.	0.2
Bromoform	N.D.	2
Bromomethane	N.D.	0.5
2-Butanone	N.D.	1
Carbon Disulfide	N.D.	0.3
Carbon Tetrachloride	N.D.	0.2
Chlorobenzene	N.D.	0.2
Chloroethane	N.D.	0.3
Chloroform	N.D.	0.2
Chloromethane	N.D.	0.3
Cyclohexane	N.D.	2
1,2-Dibromo-3-chloropropane	N.D.	1
Dibromochloromethane	N.D.	0.4
1,2-Dibromoethane	N.D.	0.3
1,2-Dichlorobenzene	N.D.	0.2
1,3-Dichlorobenzene	N.D.	0.2
1,4-Dichlorobenzene	N.D.	0.2
Dichlorodifluoromethane	N.D.	0.3
1,1-Dichloroethane	N.D.	0.2
1,2-Dichloroethane	N.D.	2
1,1-Dichloroethene	N.D.	0.2
cis-1,2-Dichloroethene	N.D.	0.2
trans-1,2-Dichloroethene	N.D.	0.2
1,2-Dichloropropane	N.D.	0.2
cis-1,3-Dichloropropene	N.D.	0.2
trans-1,3-Dichloropropene	N.D.	0.4
Ethylbenzene	N.D.	0.2
Freon 113	N.D.	2
2-Hexanone	N.D.	3
Isopropylbenzene	N.D.	0.3
Methyl Acetate	N.D.	0.6
Methyl Tertiary Butyl Ether	N.D.	0.2
4-Methyl-2-pentanone	N.D.	0.5
Methylcyclohexane	N.D.	0.2
Methylene Chloride	N.D.	0.2
Naphthalene	N.D.	4
Styrene	N.D.	0.2

*- 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. Group Number: 2099562
Reported: 05/28/2020 14:24

Method Blank (continued)

Analysis Name	Result	MDL
	ug/l	ug/l
1,1,2,2-Tetrachloroethane	N.D.	0.2
Tetrachloroethene	N.D.	0.2
Toluene	N.D.	0.2
1,2,4-Trichlorobenzene	N.D.	0.4
1,1,1-Trichloroethane	N.D.	0.2
1,1,2-Trichloroethane	N.D.	0.2
Trichloroethene	N.D.	0.2
Trichlorofluoromethane	N.D.	0.4
Vinyl Chloride	N.D.	0.4
Xylene (Total)	N.D.	0.5
Batch number: 20140WAA026	Sample number(s): 1314768-1314769	
Acenaphthene	N.D.	0.1
Acenaphthylene	N.D.	0.1
Acetophenone	N.D.	4
Anthracene	N.D.	0.1
Atrazine	N.D.	2
Benzaldehyde	N.D.	3
Benzo(a)anthracene	N.D.	0.1
Benzo(a)pyrene	N.D.	0.1
Benzo(b)fluoranthene	N.D.	0.1
Benzo(g,h,i)perylene	N.D.	0.1
Benzo(k)fluoranthene	N.D.	0.1
1,1'-Biphenyl	N.D.	3
4-Bromophenyl-phenylether	N.D.	0.5
Butylbenzylphthalate	N.D.	2
Di-n-butylphthalate	N.D.	2
Caprolactam	N.D.	5
Carbazole	N.D.	0.5
4-Chloro-3-methylphenol	N.D.	2
4-Chloroaniline	N.D.	4
bis(2-Chloroethoxy)methane	N.D.	0.5
bis(2-Chloroethyl)ether	N.D.	0.5
2-Chloronaphthalene	N.D.	0.4
2-Chlorophenol	N.D.	0.5
4-Chlorophenyl-phenylether	N.D.	0.5
2,2'-oxybis(1-Chloropropane)	N.D.	0.5
Chrysene	N.D.	0.1
Dibenz(a,h)anthracene	N.D.	0.1
Dibenzofuran	N.D.	0.5
3,3'-Dichlorobenzidine	N.D.	3
2,4-Dichlorophenol	N.D.	0.5
Diethylphthalate	N.D.	2
2,4-Dimethylphenol	N.D.	3
Dimethylphthalate	N.D.	2

*- 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. Group Number: 2099562
Reported: 05/28/2020 14:24

Method Blank (continued)

Analysis Name	Result	MDL
	ug/l	ug/l
4,6-Dinitro-2-methylphenol	N.D.	8
2,4-Dinitrophenol	N.D.	14
2,4-Dinitrotoluene	N.D.	1
2,6-Dinitrotoluene	N.D.	0.5
bis(2-Ethylhexyl)phthalate	N.D.	5
Fluoranthene	N.D.	0.1
Fluorene	N.D.	0.1
Hexachlorobenzene	N.D.	0.1
Hexachlorobutadiene	N.D.	0.5
Hexachlorocyclopentadiene	N.D.	5
Hexachloroethane	N.D.	1
Indeno(1,2,3-cd)pyrene	N.D.	0.1
Isophorone	N.D.	0.5
2-Methylnaphthalene	N.D.	0.1
2-Methylphenol	N.D.	0.5
4-Methylphenol	N.D.	0.5
Naphthalene	N.D.	0.1
2-Nitroaniline	N.D.	2
3-Nitroaniline	N.D.	3
4-Nitroaniline	N.D.	0.9
Nitrobenzene	N.D.	0.5
2-Nitrophenol	N.D.	3
4-Nitrophenol	N.D.	10
N-Nitroso-di-n-propylamine	N.D.	0.7
N-Nitrosodiphenylamine	N.D.	0.7
Di-n-octylphthalate	N.D.	5
Pentachlorophenol	N.D.	1
Phenanthrene	N.D.	0.1
Phenol	N.D.	0.5
Pyrene	N.D.	0.1
2,4,5-Trichlorophenol	N.D.	0.5
2,4,6-Trichlorophenol	N.D.	0.5
Batch number: 201390001A	Sample number(s): 1314768-1314769	
Methane	N.D.	3.0
Batch number: 201430015A	Sample number(s): 1314768-1314772	
DRO C10-C28	N.D.	53
	mg/l	mg/l
Batch number: 201360571301	Sample number(s): 1314768	
Mercury	N.D.	0.000050
Batch number: 201360571302	Sample number(s): 1314769	
Mercury	N.D.	0.000050
Batch number: 201401404401	Sample number(s): 1314769	

*- 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. Group Number: 2099562
Reported: 05/28/2020 14:24

Method Blank (continued)

Analysis Name	Result	MDL
	mg/l	mg/l
Antimony	N.D.	0.0160
Arsenic	N.D.	0.0160
Barium	N.D.	0.0010
Beryllium	N.D.	0.0010
Cadmium	N.D.	0.0010
Chromium	N.D.	0.0016
Cobalt	N.D.	0.0015
Copper	N.D.	0.0120
Lead	N.D.	0.0071
Manganese	0.0068 J	0.0030
Molybdenum	N.D.	0.0020
Nickel	N.D.	0.0021
Selenium	N.D.	0.0160
Silver	N.D.	0.0050
Thallium	N.D.	0.0081
Vanadium	N.D.	0.0019
Zinc	N.D.	0.0037
Batch number: 201401404404	Sample number(s): 1314768	
Antimony	N.D.	0.0160
Arsenic	N.D.	0.0160
Barium	N.D.	0.0010
Beryllium	N.D.	0.0010
Cadmium	N.D.	0.0010
Chromium	N.D.	0.0016
Cobalt	N.D.	0.0015
Copper	N.D.	0.0120
Lead	N.D.	0.0071
Manganese	N.D.	0.0030
Molybdenum	N.D.	0.0020
Nickel	N.D.	0.0021
Selenium	N.D.	0.0160
Silver	N.D.	0.0050
Thallium	N.D.	0.0081
Vanadium	N.D.	0.0019
Zinc	N.D.	0.0037
Batch number: 20135105103A	Sample number(s): 1314769	
Nitrite Nitrogen	N.D.	0.015
Batch number: 20135105104A	Sample number(s): 1314768	
Nitrite Nitrogen	N.D.	0.015
Batch number: 20138106101B	Sample number(s): 1314768-1314769	
Nitrate Nitrogen	N.D.	0.040
Batch number: 20139076117A	Sample number(s): 1314768-1314769	

*- 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: 05/28/2020 14:24

Group Number: 2099562

Method Blank (continued)

Analysis Name	Result	MDL
	mg/l	mg/l
Sulfate	N.D.	0.30
Batch number: 20139127101A	Sample number(s): 1314768-1314769	
Ferrous Iron	N.D.	0.0150
	mg/l as CaCO3	mg/l as CaCO3
Batch number: 20136002104A	Sample number(s): 1314768-1314769	
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: N201472AA	Sample number(s): 1314768-1314769								
Acetone	150	207.36			138		54-157		
Benzene	20	19.55			98		80-120		
Bromodichloromethane	20	18.16			91		71-120		
Bromoform	20	19.61			98		51-120		
Bromomethane	20	15.52			78		53-128		
2-Butanone	150	132.36			88		59-135		
Carbon Disulfide	20	18.51			93		65-128		
Carbon Tetrachloride	20	17.9			89		64-134		
Chlorobenzene	20	20.23			101		80-120		
Chloroethane	20	15.19			76		55-123		
Chloroform	20	18.66			93		80-120		
Chloromethane	20	14.07			70		56-121		
Cyclohexane	20	21.59			108		68-126		
1,2-Dibromo-3-chloropropane	20	17.87			89		47-131		
Dibromochloromethane	20	19.78			99		71-120		
1,2-Dibromoethane	20	19.64			98		77-120		
1,2-Dichlorobenzene	20	20.35			102		80-120		
1,3-Dichlorobenzene	20	20.14			101		80-120		
1,4-Dichlorobenzene	20	20.41			102		80-120		
Dichlorodifluoromethane	20	12.85			64		41-127		
1,1-Dichloroethane	20	17.47			87		80-120		
1,2-Dichloroethane	20	17.32			87		73-124		
1,1-Dichloroethene	20	17.7			89		80-131		
cis-1,2-Dichloroethene	20	20.41			102		80-125		
trans-1,2-Dichloroethene	20	17.59			88		80-126		
1,2-Dichloropropane	20	20			100		80-120		
cis-1,3-Dichloropropene	20	18.59			93		75-120		

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: GES, Inc.
Reported: 05/28/2020 14:24

Group Number: 2099562

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
trans-1,3-Dichloropropene	20	17.88			89		67-120		
Ethylbenzene	20	19.58			98		80-120		
Freon 113	20	18.58			93		73-139		
2-Hexanone	100	94.79			95		56-135		
Isopropylbenzene	20	20.09			100		80-120		
Methyl Acetate	20	17.31			87		54-136		
Methyl Tertiary Butyl Ether	20	15.18			76		69-122		
4-Methyl-2-pentanone	100	89.18			89		62-133		
Methylcyclohexane	20	20.25			101		67-121		
Methylene Chloride	20	17.04			85		80-120		
Naphthalene	20	19.32			97		53-124		
Styrene	20	19.95			100		80-120		
1,1,2,2-Tetrachloroethane	20	20.47			102		72-120		
Tetrachloroethene	20	19.71			99		80-120		
Toluene	20	19.87			99		80-120		
1,2,4-Trichlorobenzene	20	19.59			98		63-120		
1,1,1-Trichloroethane	20	17.48			87		67-126		
1,1,2-Trichloroethane	20	20.03			100		80-120		
Trichloroethene	20	18.28			91		80-120		
Trichlorofluoromethane	20	16.15			81		55-135		
Vinyl Chloride	20	14.31			72		56-120		
Xylene (Total)	60	59.92			100		80-120		
	ug/l	**ug/l**	**ug/l**	**ug/l**					
Batch number: 20140WAA026	Sample number(s): 1314768-1314769								
Acenaphthene	50	39.08			78		52-114		
Acenaphthylene	50	39.95			80		56-127		
Acetophenone	50	44.07			88		61-114		
Anthracene	50	42.93			86		67-116		
Atrazine	50	44.49			89		71-133		
Benzaldehyde	50	35.66			71		55-116		
Benzo(a)anthracene	50	47.32			95		68-123		
Benzo(a)pyrene	50	46.87			94		71-117		
Benzo(b)fluoranthene	50	48.72			97		69-121		
Benzo(g,h,i)perylene	50	44.33			89		60-119		
Benzo(k)fluoranthene	50	47.61			95		69-122		
1,1'-Biphenyl	50	36.41			73		56-109		
4-Bromophenyl-phenylether	50	38.44			77		60-114		
Butylbenzylphthalate	50	16.43			33*		40-133		
Di-n-butylphthalate	50	34.54			69		58-125		
Caprolactam	50	13.1			26		10-57		
Carbazole	50	47.95			96		64-127		
4-Chloro-3-methylphenol	50	46.15			92		60-118		
4-Chloroaniline	50	40.07			80		45-111		

*- 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: 05/28/2020 14:24

Group Number: 2099562

LCS/LCSD (continued)

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
bis(2-Chloroethoxy)methane	50	44.17			88		63-116		
bis(2-Chloroethyl)ether	50	42.09			84		58-108		
2-Chloronaphthalene	50	36.38			73		51-107		
2-Chlorophenol	50	40.77			82		57-105		
4-Chlorophenyl-phenylether	50	38.87			78		57-110		
2,2'-oxybis(1-Chloropropane)	50	45.81			92		48-105		
Chrysene	50	44.09			88		65-121		
Dibenz(a,h)anthracene	50	47.97			96		63-128		
Dibenzofuran	50	40.77			82		60-112		
3,3'-Dichlorobenzidine	50	32.45			65		42-107		
2,4-Dichlorophenol	50	42.99			86		65-110		
Diethylphthalate	50	22.62			45		42-126		
2,4-Dimethylphenol	50	36.16			72		53-93		
Dimethylphthalate	50	4.52			9*		10-134		
4,6-Dinitro-2-methylphenol	50	45.16			90		63-129		
2,4-Dinitrophenol	100	93.09			93		44-134		
2,4-Dinitrotoluene	50	47.21			94		66-122		
2,6-Dinitrotoluene	50	46.69			93		71-120		
bis(2-Ethylhexyl)phthalate	50	46.33			93		61-129		
Fluoranthene	50	46.88			94		63-122		
Fluorene	50	42.75			85		56-115		
Hexachlorobenzene	50	37.45			75		60-117		
Hexachlorobutadiene	50	26.57			53		20-108		
Hexachlorocyclopentadiene	100	17.9			18		10-91		
Hexachloroethane	50	25.2			50		23-95		
Indeno(1,2,3-cd)pyrene	50	43.89			88		59-123		
Isophorone	50	45.11			90		63-120		
2-Methylnaphthalene	50	34.97			70		51-107		
2-Methylphenol	50	40.67			81		53-107		
4-Methylphenol	50	42.25			84		49-108		
Naphthalene	50	34.84			70		51-102		
2-Nitroaniline	50	47.39			95		66-126		
3-Nitroaniline	50	46.63			93		55-121		
4-Nitroaniline	50	41.83			84		55-113		
Nitrobenzene	50	43.16			86		59-109		
2-Nitrophenol	50	43.34			87		63-111		
4-Nitrophenol	50	32.53			65		23-89		
N-Nitroso-di-n-propylamine	50	45.73			91		58-120		
N-Nitrosodiphenylamine	50	44.39			89		60-126		
Di-n-octylphthalate	50	49.56			99		60-136		
Pentachlorophenol	50	43.71			87		54-131		
Phenanthrene	50	43.42			87		65-113		
Phenol	50	26.17			52		19-79		
Pyrene	50	43.9			88		65-115		

*- 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. Group Number: 2099562
Reported: 05/28/2020 14:24

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
2,4,5-Trichlorophenol	50	46			92		66-118		
2,4,6-Trichlorophenol	50	46.69			93		69-117		
	ug/l	**ug/l**	**ug/l**	**ug/l**					
Batch number: 201390001A	Sample number(s): 1314768-1314769								
Methane	59.42	64.1	59.42	63.51	108	107	85-115	1	20
	ug/l	**ug/l**	**ug/l**	**ug/l**					
Batch number: 201430015A	Sample number(s): 1314768-1314772								
DRO C10-C28	2615.73	2867.89			110		47-116		
	mg/l	**mg/l**	**mg/l**	**mg/l**					
Batch number: 201360571301	Sample number(s): 1314768								
Mercury	0.00100	0.000857			86		80-110		
Batch number: 201360571302	Sample number(s): 1314769								
Mercury	0.00100	0.000823			82		80-110		
Batch number: 201401404401	Sample number(s): 1314769								
Antimony	0.100	0.104			104		80-120		
Arsenic	0.0600	0.0525			87		80-120		
Barium	0.0100	0.0104			104		80-120		
Beryllium	0.0100	0.00951			95		80-120		
Cadmium	0.0100	0.00993			99		80-120		
Chromium	0.0300	0.0294			98		80-120		
Cobalt	0.0100	0.0108			108		80-120		
Copper	0.0400	0.0401			100		80-120		
Lead	0.0300	0.0338			113		80-120		
Manganese	0.0200	0.0200			100		80-120		
Molybdenum	0.0200	0.0201			101		80-120		
Nickel	2.02	2.05			101		80-120		
Selenium	0.100	0.0990			99		80-120		
Silver	0.0200	0.0207			103		80-120		
Thallium	0.0600	0.0632			105		80-120		
Vanadium	0.0200	0.0198			99		80-120		
Zinc	0.440	0.422			96		80-120		
Batch number: 201401404404	Sample number(s): 1314768								
Antimony	0.100	0.111			111		80-120		
Arsenic	0.0600	0.0555			92		80-120		
Barium	0.0100	0.0106			106		80-120		
Beryllium	0.0100	0.0101			101		80-120		
Cadmium	0.0100	0.0102			102		80-120		
Chromium	0.0300	0.0311			104		80-120		
Cobalt	0.0100	0.0107			107		80-120		

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: GES, Inc. Group Number: 2099562
Reported: 05/28/2020 14:24

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
Copper	0.0400	0.0431			108		80-120		
Lead	0.0300	0.0302			101		80-120		
Manganese	0.0200	0.0202			101		80-120		
Molybdenum	0.0200	0.0212			106		80-120		
Nickel	2.02	2.20			109		80-120		
Selenium	0.100	0.100			100		80-120		
Silver	0.0200	0.0199			99		80-120		
Thallium	0.0600	0.0604			101		80-120		
Vanadium	0.0200	0.0205			102		80-120		
Zinc	0.440	0.450			102		80-120		
	mg/l	**mg/l**	**mg/l**	**mg/l**					
Batch number: 20135105103A	Sample number(s): 1314769								
Nitrite Nitrogen	0.700	0.692			99		90-110		
Batch number: 20135105104A	Sample number(s): 1314768								
Nitrite Nitrogen	0.700	0.753			108		90-110		
Batch number: 20138106101B	Sample number(s): 1314768-1314769								
Nitrate Nitrogen	2.50	2.64			106		90-110		
Batch number: 20139076117A	Sample number(s): 1314768-1314769								
Sulfate	7.50	7.54			101		90-110		
Batch number: 20139127101A	Sample number(s): 1314768-1314769								
Ferrous Iron	1.00	0.931			93		90-110		
	mg/l as CaCO3	**mg/l as CaCO3**	**mg/l as CaCO3**	**mg/l as CaCO3**					
Batch number: 20136002104A	Sample number(s): 1314768-1314769								
Total Alkalinity to pH 4.5	188	167.78			89		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: 201360571302	Sample number(s): 1314769 UNSPK: 1314769									
Mercury	N.D.	0.00100	0.000661	0.00100	0.000553	66*	55*	80-120	18	20
Batch number: 201401404404	Sample number(s): 1314768 UNSPK: 1314768									
Antimony	N.D.	0.100	0.107	0.100	0.113	107	113	75-125	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.

Quality Control Summary

Client Name: GES, Inc.
Reported: 05/28/2020 14:24

Group Number: 2099562

MS/MSD (continued)

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

Analysis Name	Unspiked Conc mg/l	MS Spike Added mg/l	MS Conc mg/l	MSD Spike Added mg/l	MSD Conc mg/l	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Arsenic	N.D.	0.0600	0.0659	0.0600	0.0622	110	104	75-125	6	20
Barium	0.123	0.0100	0.132	0.0100	0.131	88 (2)	84 (2)	75-125	0	20
Beryllium	N.D.	0.0100	0.0102	0.0100	0.0102	102	102	75-125	0	20
Cadmium	0.00156	0.0100	0.0119	0.0100	0.0116	103	100	75-125	2	20
Chromium	N.D.	0.0300	0.0292	0.0300	0.0286	97	95	75-125	2	20
Cobalt	0.00418	0.0100	0.0147	0.0100	0.0142	105	101	75-125	3	20
Copper	N.D.	0.0400	0.0362	0.0400	0.0355	91	89	75-125	2	20
Lead	N.D.	0.0300	0.0311	0.0300	0.0308	104	103	75-125	1	20
Manganese	0.579	0.0200	0.594	0.0200	0.589	73 (2)	51 (2)	75-125	1	20
Molybdenum	N.D.	0.0200	0.0213	0.0200	0.0216	107	108	75-125	1	20
Nickel	0.00417	2.02	2.05	2.02	2.13	101	105	75-125	4	20
Selenium	N.D.	0.100	0.0951	0.100	0.109	95	109	75-125	14	20
Silver	N.D.	0.0200	0.0184	0.0200	0.0193	92	97	75-125	5	20
Thallium	N.D.	0.0600	0.0633	0.0600	0.0582	105	97	75-125	8	20
Vanadium	N.D.	0.0200	0.0211	0.0200	0.0208	105	104	75-125	1	20
Zinc	0.0279	0.440	0.464	0.440	0.480	99	103	75-125	3	20

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: 201360571302	Sample number(s): 1314769 BKG: 1314769			
Mercury	N.D.	N.D.	0 (1)	20
Batch number: 201401404404	Sample number(s): 1314768 BKG: 1314768			
Antimony	N.D.	N.D.	0 (1)	20
Arsenic	N.D.	N.D.	0 (1)	20
Barium	0.123	0.125	1	20
Beryllium	N.D.	N.D.	0 (1)	20
Cadmium	0.00156	0.00159	2 (1)	20
Chromium	N.D.	N.D.	0 (1)	20
Cobalt	0.00418	0.00454	8 (1)	20
Copper	N.D.	N.D.	0 (1)	20
Lead	N.D.	N.D.	0 (1)	20
Manganese	0.579	0.584	1	20
Molybdenum	N.D.	N.D.	0 (1)	20
Nickel	0.00417	0.00431	3 (1)	20
Selenium	N.D.	N.D.	0 (1)	20

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: GES, Inc. Group Number: 2099562
Reported: 05/28/2020 14:24

Laboratory Duplicate (continued)

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

Analysis Name	BKG Conc mg/l	DUP Conc mg/l	DUP RPD	DUP RPD Max
Silver	N.D.	N.D.	0 (1)	20
Thallium	N.D.	N.D.	0 (1)	20
Vanadium	N.D.	N.D.	0 (1)	20
Zinc	0.0279	0.0280	0 (1)	20

Surrogate Quality Control

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

Analysis Name: TCL Volatiles in Water
Batch number: N201472AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
1314768	97	101	101	93
1314769	96	102	100	100
Blank	98	99	101	91
LCS	96	98	102	93
Limits:	80-120	80-120	80-120	80-120

Analysis Name: TCL 4.3 SVOCs
Batch number: 20140WAA026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
1314768	32	36	77	0*	65	82
1314769	45	47	61	0*	61	71
Blank	33	45	81	75	59	97
LCS	42	55	86	84	72	97
Limits:	10-67	10-84	18-141	38-113	44-102	34-128

Analysis Name: Methane
Batch number: 201390001A

	Propene
1314768	91
1314769	81
Blank	107
LCS	108
LCSD	104
Limits:	28-140

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: GES, Inc. Group Number: 2099562
Reported: 05/28/2020 14:24

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: 201430015A

	Orthoterphenyl
1314768	106
1314769	91
1314770	108
1314771	116
1314772	124
Blank	112
LCS	105
Limits:	52-132

*- 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 # 2099562 Sample # 13147168-72

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	

Sample Identification	Collection Date	Collection Time	Grab	Composite	Matrix: Soil	Sediment	Water (Ground / Potable / Surface / NPDES)	Other:	Total # of Containers	TPH-DRO C-10-28 (SW-846 8015B) H	Alkalinity (SM 2320B) -	Nitrate NO3 -1 & Nitrite NO-2(EPA 353.2) -/S	Manganese (6010) N	Ferrous Iron Fe2+ (SM 3500-Fe B modified-1997) H	Sulfate SO4 2- (EPA 300.0) -	Methane (RSKSOP-175 modified) H	Full VOCs (8260) H	Tot 22 metals (Incl. Mercury) (7470) N	Full SVOCs (8270) -	Naphthalene (8260) H	Remarks
MW-51S	5-13-20	0940	X				X		16	X	X	X	X	X	X	X	X	X	X		
MW-51/RW-51		1045							16		X	X	X	X	X	X	X	X	X	X	
TW-06-Grab		1245							2												
TW-05-Grab		1305							2												
MW-51/RW-51-Grab.	5-13-20	1330	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: midatlantic@gesonline.com & ges@equisonline.com

Phone:

Data Package Options (please check if required)

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

Type III (Reduced non-CLP) ☐ CT RCP ☐

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

NYSDEC Category ☐ A or ☐ B

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

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

Relinquished by:	Date	Time	Received by:	Date	Time
Jeff Plummer	5-14-2020	0800	Donna Marple	5/14/20	8:02
Donna Marple	5/14/20			5/14/20	17:10
	5/14/20	17:15			
				5-14-20	1733

Relinquished by Commercial Carrier:

UPS _____ FedEx _____ Other _____

Temperature upon receipt 0.6 °C

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

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

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Sample Administration Receipt Documentation Log

Doc Log ID: 284533

Group Number(s): 2099562

Client: Groundwater & Env. Services, Inc.

Delivery and Receipt Information

Delivery Method:	ELLE Courier	Arrival Date:	05/14/2020
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 William Mathers

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	0.6	DT	Wet	Y	Loose	N

2425 New Holland Pike
Lancaster, PA 17605-2425

T | 717-656-2300
F | 717-656-2681
www.LancasterLabs.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 less than the LOQ
K2	Continuing Calibration Blank is above the QC limit and the sample result is less than the LOQ
K3	Initial Calibration Verification is above the QC limit and the sample result is less than the LOQ
K4	Continuing Calibration Verification is above the QC limit and the sample result is less than the LOQ
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: May 29, 2020 17:19

Project: NRG PRGS

Account #: 08390
Group Number: 2099563
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-72S Grab Groundwater	05/13/2020 10:08	1314773
MW-72/RW-72 Grab Groundwater	05/13/2020 11:23	1314774
MW-16 Grab Groundwater	05/13/2020 13:08	1314775

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

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/14/2020 17:33
Collection Date/Time: 05/13/2020 10:08

GES, Inc.
ELLE Sample #: RW 1314773
ELLE Group #: 2099563
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acetone	67-64-1	28	0.8	1
10335	Benzene	71-43-2	N.D.	0.2	1
10335	Bromodichloromethane	75-27-4	N.D.	0.2	1
10335	Bromoform	75-25-2	N.D.	2	1
10335	Bromomethane	74-83-9	N.D.	0.5	1
10335	2-Butanone	78-93-3	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	0.3	1
10335	Carbon Tetrachloride	56-23-5	N.D.	0.2	1
10335	Chlorobenzene	108-90-7	N.D.	0.2	1
10335	Chloroethane	75-00-3	N.D.	0.3	1
10335	Chloroform	67-66-3	N.D.	0.2	1
10335	Chloromethane	74-87-3	N.D.	0.3	1
10335	Cyclohexane	110-82-7	N.D.	2	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	0.4	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.3	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.	0.2	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.	0.2	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.	0.2	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	0.3	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.2	1
10335	1,2-Dichloroethane	107-06-2	N.D.	2	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.2	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.2	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.2	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.2	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.2	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.4	1
10335	Ethylbenzene	100-41-4	N.D.	0.2	1
10335	Freon 113	76-13-1	N.D.	2	1
10335	2-Hexanone	591-78-6	N.D.	3	1
10335	Isopropylbenzene	98-82-8	N.D.	0.3	1
10335	Methyl Acetate	79-20-9	N.D.	0.6	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.2	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	0.5	1
10335	Methylcyclohexane	108-87-2	N.D.	0.2	1
10335	Methylene Chloride	75-09-2	N.D.	0.2	1
10335	Styrene	100-42-5	N.D.	0.2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.2	1
10335	Tetrachloroethene	127-18-4	N.D.	0.2	1
10335	Toluene	108-88-3	N.D.	0.2	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.4	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.2	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.2	1
10335	Trichloroethene	79-01-6	N.D.	0.2	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.4	1
10335	Vinyl Chloride	75-01-4	N.D.	0.4	1
10335	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/14/2020 17:33
Collection Date/Time: 05/13/2020 10:08

GES, Inc.
ELLE Sample #: RW 1314773
ELLE Group #: 2099563
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	
14242	Acenaphthene	83-32-9	N.D.	0.1	1
14242	Acenaphthylene	208-96-8	N.D.	0.1	1
14242	Acetophenone	98-86-2	N.D.	5	1
14242	Anthracene	120-12-7	N.D.	0.1	1
14242	Atrazine	1912-24-9	N.D.	2	1
14242	Benzaldehyde	100-52-7	N.D.	3	1
14242	Benzo(a)anthracene	56-55-3	N.D.	0.1	1
14242	Benzo(a)pyrene	50-32-8	N.D.	0.1	1
14242	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	1
14242	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	1
14242	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	1
14242	1,1'-Biphenyl	92-52-4	N.D.	3	1
14242	4-Bromophenyl-phenylether	101-55-3	N.D.	0.6	1
14242	Butylbenzylphthalate	85-68-7	N.D.	2	1
14242	Di-n-butylphthalate	84-74-2	N.D.	2	1
14242	Caprolactam	105-60-2	N.D.	6	1
14242	Carbazole	86-74-8	N.D.	0.6	1
14242	4-Chloro-3-methylphenol	59-50-7	N.D.	2	1
14242	4-Chloroaniline	106-47-8	N.D.	5	1
14242	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.6	1
14242	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.6	1
14242	2-Chloronaphthalene	91-58-7	N.D.	0.5	1
14242	2-Chlorophenol	95-57-8	N.D.	0.6	1
14242	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.6	1
14242	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	0.6	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.				
14242	Chrysene	218-01-9	N.D.	0.1	1
14242	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	1
14242	Dibenzofuran	132-64-9	N.D.	0.6	1
14242	3,3'-Dichlorobenzidine	91-94-1	N.D.	3	1
14242	2,4-Dichlorophenol	120-83-2	N.D.	0.6	1
14242	Diethylphthalate	84-66-2	N.D.	2	1
14242	2,4-Dimethylphenol	105-67-9	N.D.	3	1
14242	Dimethylphthalate	131-11-3	N.D.	2	1
14242	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	9	1
14242	2,4-Dinitrophenol	51-28-5	N.D.	16	1
14242	2,4-Dinitrotoluene	121-14-2	N.D.	1	1
14242	2,6-Dinitrotoluene	606-20-2	N.D.	0.6	1
14242	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	6	1
14242	Fluoranthene	206-44-0	N.D.	0.1	1
14242	Fluorene	86-73-7	N.D.	0.1	1
14242	Hexachlorobenzene	118-74-1	N.D.	0.1	1
14242	Hexachlorobutadiene	87-68-3	N.D.	0.6	1
14242	Hexachlorocyclopentadiene	77-47-4	N.D.	6	1
14242	Hexachloroethane	67-72-1	N.D.	1	1
14242	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	1
14242	Isophorone	78-59-1	N.D.	0.6	1
14242	2-Methylnaphthalene	91-57-6	N.D.	0.1	1

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/14/2020 17:33
Collection Date/Time: 05/13/2020 10:08

GES, Inc.
ELLE Sample #: RW 1314773
ELLE Group #: 2099563
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	
14242	2-Methylphenol	95-48-7	N.D.	0.6	1
14242	4-Methylphenol	106-44-5	N.D.	0.6	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.				
14242	Naphthalene	91-20-3	N.D.	0.1	1
14242	2-Nitroaniline	88-74-4	N.D.	2	1
14242	3-Nitroaniline	99-09-2	N.D.	3	1
14242	4-Nitroaniline	100-01-6	N.D.	1	1
14242	Nitrobenzene	98-95-3	N.D.	0.6	1
14242	2-Nitrophenol	88-75-5	N.D.	3	1
14242	4-Nitrophenol	100-02-7	N.D.	11	1
14242	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.8	1
14242	N-Nitrosodiphenylamine	86-30-6	N.D.	0.8	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.				
14242	Di-n-octylphthalate	117-84-0	N.D.	6	1
14242	Pentachlorophenol	87-86-5	N.D.	1	1
14242	Phenanthrene	85-01-8	N.D.	0.1	1
14242	Phenol	108-95-2	N.D.	0.6	1
14242	Pyrene	129-00-0	N.D.	0.1	1
14242	2,4,5-Trichlorophenol	95-95-4	N.D.	0.6	1
14242	2,4,6-Trichlorophenol	88-06-2	N.D.	0.6	1
	The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following action was taken: The sample was re-extracted and the QC is again outside of the acceptance limits. The data is reported from the initial trial.				
GC Miscellaneous	**RSKSOP-175 modified**		**ug/l**	**ug/l**	
07105	Methane	74-82-8	190	3.0	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	1,900	53	1
Metals	**SW-846 6010C**		**mg/l**	**mg/l**	
07044	Antimony	7440-36-0	N.D.	0.0160	1
07035	Arsenic	7440-38-2	N.D.	0.0160	1
07046	Barium	7440-39-3	0.0102	0.0010	1
07047	Beryllium	7440-41-7	0.0073	0.0010	1
07049	Cadmium	7440-43-9	0.0043 J	0.0010	1
07051	Chromium	7440-47-3	0.0021 J	0.0016	1
07052	Cobalt	7440-48-4	0.440	0.0015	1
07053	Copper	7440-50-8	0.0202	0.0120	1
07055	Lead	7439-92-1	N.D.	0.0071	1
07058	Manganese	7439-96-5	11.5	0.0030	1
07060	Molybdenum	7439-98-7	N.D.	0.0020	1
07061	Nickel	7440-02-0	0.150	0.0021	1

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/14/2020 17:33
Collection Date/Time: 05/13/2020 10:08

GES, Inc.
ELLE Sample #: RW 1314773
ELLE Group #: 2099563
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Metals	**SW-846 6010C**		**mg/l**	**mg/l**	
07036	Selenium	7782-49-2	N.D.	0.0160	1
07066	Silver	7440-22-4	N.D.	0.0050	1
07022	Thallium	7440-28-0	N.D.	0.0081	1
07071	Vanadium	7440-62-2	N.D.	0.0019	1
07072	Zinc	7440-66-6	0.443	0.0037	1
	SW-846 7470A		**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000060 J	0.000050	1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	
00228	Sulfate	14808-79-8	1,520	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.	75.8	0.750	50
	SM 2320 B-2011		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5	n.a.	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
10335	TCL 4.3 VOCs	SW-846 8260B	1	N201472AA	05/26/2020 22:26	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N201472AA	05/26/2020 22:25	Sara E Johnson	1
14242	TCL 4.3 SVOCs	SW-846 8270D	1	20140WAA026	05/22/2020 14:43	Linda M Hartenstine	1
00813	BNA Water Extraction	SW-846 3510C	1	20140WAA026	05/19/2020 18:10	Patrick Thimes	1
07105	Methane	RSKSOP-175 modified	1	201360004A	05/15/2020 13:58	Esther Kathryn Lane	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	201430015A	05/27/2020 19:33	Timothy M Emrick	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	2	201430015A	05/25/2020 06:20	Maria Davenport	1
07044	Antimony	SW-846 6010C	1	201401404404	05/21/2020 10:09	Lisa J Cooke	1
07035	Arsenic	SW-846 6010C	1	201401404404	05/21/2020 10:09	Lisa J Cooke	1
07046	Barium	SW-846 6010C	1	201401404404	05/21/2020 10:09	Lisa J Cooke	1
07047	Beryllium	SW-846 6010C	1	201401404404	05/21/2020 10:09	Lisa J Cooke	1
07049	Cadmium	SW-846 6010C	1	201401404404	05/21/2020 10:09	Lisa J Cooke	1
07051	Chromium	SW-846 6010C	1	201401404404	05/21/2020 10:09	Lisa J Cooke	1
07052	Cobalt	SW-846 6010C	1	201401404404	05/21/2020 10:09	Lisa J Cooke	1
07053	Copper	SW-846 6010C	1	201401404404	05/21/2020 10:09	Lisa J Cooke	1
07055	Lead	SW-846 6010C	1	201401404404	05/22/2020 21:35	Christina Termini	1
07058	Manganese	SW-846 6010C	1	201401404404	05/22/2020 21:35	Christina Termini	1

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/14/2020 17:33
Collection Date/Time: 05/13/2020 10:08

GES, Inc.
ELLE Sample #: RW 1314773
ELLE Group #: 2099563
Matrix: Groundwater

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07060	Molybdenum	SW-846 6010C	1	201401404404	05/21/2020 10:09	Lisa J Cooke	1
07061	Nickel	SW-846 6010C	1	201401404404	05/21/2020 10:09	Lisa J Cooke	1
07036	Selenium	SW-846 6010C	1	201401404404	05/21/2020 10:09	Lisa J Cooke	1
07066	Silver	SW-846 6010C	1	201401404404	05/21/2020 10:09	Lisa J Cooke	1
07022	Thallium	SW-846 6010C	1	201401404404	05/22/2020 21:35	Christina Termini	1
07071	Vanadium	SW-846 6010C	1	201401404404	05/21/2020 10:09	Lisa J Cooke	1
07072	Zinc	SW-846 6010C	1	201401404404	05/21/2020 10:09	Lisa J Cooke	1
00259	Mercury	SW-846 7470A	1	201360571302	05/21/2020 10:06	Damary Valentin	1
14044	ICP-WW, 3005A (tot rec) - U345	SW-846 3005A	1	201401404404	05/20/2020 04:37	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	201360571302	05/20/2020 15:20	JoElla L Rice	1
00228	Sulfate	EPA 300.0	1	20139076117A	05/19/2020 00:53	Niyati Desai	500
00220	Nitrate Nitrogen	EPA 353.2	1	20140106101A	05/19/2020 10:43	Ashlynn M Cornelius	1
00219	Nitrite Nitrogen	EPA 353.2	1	20135105104A	05/15/2020 07:19	Jonathan Saul	1
14855	Ferrous Iron	SM 3500-Fe B-2011	1	20139127101A	05/18/2020 12:18	Jonathan Saul	50
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	20136002104A	05/16/2020 03:19	Jeremy L Bolf	1

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/14/2020 17:33
Collection Date/Time: 05/13/2020 11:23

GES, Inc.
ELLE Sample #: RW 1314774
ELLE Group #: 2099563
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acetone	67-64-1	7 J	0.8	1
10335	Benzene	71-43-2	0.4 J	0.2	1
10335	Bromodichloromethane	75-27-4	N.D.	0.2	1
10335	Bromoform	75-25-2	N.D.	2	1
10335	Bromomethane	74-83-9	N.D.	0.5	1
10335	2-Butanone	78-93-3	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	0.3	1
10335	Carbon Tetrachloride	56-23-5	N.D.	0.2	1
10335	Chlorobenzene	108-90-7	N.D.	0.2	1
10335	Chloroethane	75-00-3	N.D.	0.3	1
10335	Chloroform	67-66-3	N.D.	0.2	1
10335	Chloromethane	74-87-3	N.D.	0.3	1
10335	Cyclohexane	110-82-7	N.D.	2	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	0.4	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.3	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.	0.2	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.	0.2	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.	0.2	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	0.3	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.2	1
10335	1,2-Dichloroethane	107-06-2	N.D.	2	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.2	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.2	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.2	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.2	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.2	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.4	1
10335	Ethylbenzene	100-41-4	2	0.2	1
10335	Freon 113	76-13-1	N.D.	2	1
10335	2-Hexanone	591-78-6	N.D.	3	1
10335	Isopropylbenzene	98-82-8	2 J	0.3	1
10335	Methyl Acetate	79-20-9	N.D.	0.6	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.2	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	0.5	1
10335	Methylcyclohexane	108-87-2	N.D.	0.2	1
10335	Methylene Chloride	75-09-2	N.D.	0.2	1
10335	Naphthalene	91-20-3	14	4	1
10335	Styrene	100-42-5	N.D.	0.2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.2	1
10335	Tetrachloroethene	127-18-4	N.D.	0.2	1
10335	Toluene	108-88-3	N.D.	0.2	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.4	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.2	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.2	1
10335	Trichloroethene	79-01-6	N.D.	0.2	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.4	1
10335	Vinyl Chloride	75-01-4	N.D.	0.4	1
10335	Xylene (Total)	1330-20-7	6	0.5	1

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/14/2020 17:33
Collection Date/Time: 05/13/2020 11:23

GES, Inc.
ELLE Sample #: RW 1314774
ELLE Group #: 2099563
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	
14242	Acenaphthene	83-32-9	N.D.	0.1	1
14242	Acenaphthylene	208-96-8	N.D.	0.1	1
14242	Acetophenone	98-86-2	N.D.	4	1
14242	Anthracene	120-12-7	N.D.	0.1	1
14242	Atrazine	1912-24-9	N.D.	2	1
14242	Benzaldehyde	100-52-7	N.D.	3	1
14242	Benzo(a)anthracene	56-55-3	N.D.	0.1	1
14242	Benzo(a)pyrene	50-32-8	N.D.	0.1	1
14242	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	1
14242	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	1
14242	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	1
14242	1,1'-Biphenyl	92-52-4	N.D.	3	1
14242	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	1
14242	Butylbenzylphthalate	85-68-7	N.D.	2	1
14242	Di-n-butylphthalate	84-74-2	N.D.	2	1
14242	Caprolactam	105-60-2	N.D.	5	1
14242	Carbazole	86-74-8	N.D.	0.5	1
14242	4-Chloro-3-methylphenol	59-50-7	N.D.	2	1
14242	4-Chloroaniline	106-47-8	N.D.	4	1
14242	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	1
14242	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	1
14242	2-Chloronaphthalene	91-58-7	N.D.	0.4	1
14242	2-Chlorophenol	95-57-8	N.D.	0.5	1
14242	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	1
14242	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	0.5	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.				
14242	Chrysene	218-01-9	N.D.	0.1	1
14242	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	1
14242	Dibenzofuran	132-64-9	N.D.	0.5	1
14242	3,3'-Dichlorobenzidine	91-94-1	N.D.	3	1
14242	2,4-Dichlorophenol	120-83-2	N.D.	0.5	1
14242	Diethylphthalate	84-66-2	N.D.	2	1
14242	2,4-Dimethylphenol	105-67-9	N.D.	3	1
14242	Dimethylphthalate	131-11-3	N.D.	2	1
14242	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	8	1
14242	2,4-Dinitrophenol	51-28-5	N.D.	14	1
14242	2,4-Dinitrotoluene	121-14-2	N.D.	1	1
14242	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	1
14242	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	5	1
14242	Fluoranthene	206-44-0	N.D.	0.1	1
14242	Fluorene	86-73-7	0.3 J	0.1	1
14242	Hexachlorobenzene	118-74-1	N.D.	0.1	1
14242	Hexachlorobutadiene	87-68-3	N.D.	0.5	1
14242	Hexachlorocyclopentadiene	77-47-4	N.D.	5	1
14242	Hexachloroethane	67-72-1	N.D.	1	1
14242	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	1
14242	Isophorone	78-59-1	N.D.	0.5	1
14242	2-Methylnaphthalene	91-57-6	4	0.1	1

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/14/2020 17:33
Collection Date/Time: 05/13/2020 11:23

GES, Inc.
ELLE Sample #: RW 1314774
ELLE Group #: 2099563
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	
14242	2-Methylphenol	95-48-7	N.D.	0.5	1
14242	4-Methylphenol	106-44-5	N.D.	0.5	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.				
14242	Naphthalene	91-20-3	5	0.1	1
14242	2-Nitroaniline	88-74-4	N.D.	2	1
14242	3-Nitroaniline	99-09-2	N.D.	3	1
14242	4-Nitroaniline	100-01-6	N.D.	0.9	1
14242	Nitrobenzene	98-95-3	N.D.	0.5	1
14242	2-Nitrophenol	88-75-5	N.D.	3	1
14242	4-Nitrophenol	100-02-7	N.D.	10	1
14242	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.7	1
14242	N-Nitrosodiphenylamine	86-30-6	N.D.	0.7	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.				
14242	Di-n-octylphthalate	117-84-0	N.D.	5	1
14242	Pentachlorophenol	87-86-5	N.D.	1	1
14242	Phenanthrene	85-01-8	N.D.	0.1	1
14242	Phenol	108-95-2	N.D.	0.5	1
14242	Pyrene	129-00-0	N.D.	0.1	1
14242	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	1
14242	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	1
	The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following action was taken: The sample was re-extracted and the QC is again outside of the acceptance limits. The data is reported from the initial trial.				
GC Miscellaneous	**RSKSOP-175 modified**		**ug/l**	**ug/l**	
07105	Methane	74-82-8	360	3.0	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	1,400	53	1
Metals	**SW-846 6010C**		**mg/l**	**mg/l**	
07044	Antimony	7440-36-0	N.D.	0.0160	1
07035	Arsenic	7440-38-2	N.D.	0.0160	1
07046	Barium	7440-39-3	0.0116	0.0010	1
07047	Beryllium	7440-41-7	0.0089	0.0010	1
07049	Cadmium	7440-43-9	0.0050 J	0.0010	1
07051	Chromium	7440-47-3	0.0068 J	0.0016	1
07052	Cobalt	7440-48-4	0.446	0.0015	1
07053	Copper	7440-50-8	0.0149 J	0.0120	1
07055	Lead	7439-92-1	0.0112 J	0.0071	1
07058	Manganese	7439-96-5	26.5	0.0150	5
07060	Molybdenum	7439-98-7	N.D.	0.0020	1
07061	Nickel	7440-02-0	0.196	0.0021	1

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/14/2020 17:33
Collection Date/Time: 05/13/2020 11:23

GES, Inc.
ELLE Sample #: RW 1314774
ELLE Group #: 2099563
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Metals	**SW-846 6010C**		**mg/l**	**mg/l**	
07036	Selenium	7782-49-2	N.D.	0.0160	1
07066	Silver	7440-22-4	N.D.	0.0050	1
07022	Thallium	7440-28-0	N.D.	0.0081	1
07071	Vanadium	7440-62-2	N.D.	0.0019	1
07072	Zinc	7440-66-6	0.422	0.0037	1
	SW-846 7470A		**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000050	1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	
00228	Sulfate	14808-79-8	1,260	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.	9.63	0.0750	5
	SM 2320 B-2011		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5	n.a.	N.D.	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
10335	TCL Volatiles in Water	SW-846 8260B	1	N201472AA	05/26/2020 22:47	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N201472AA	05/26/2020 22:46	Sara E Johnson	1
14242	TCL 4.3 SVOCs	SW-846 8270D	1	20140WAA026	05/22/2020 15:11	Linda M Hartenstine	1
00813	BNA Water Extraction	SW-846 3510C	1	20140WAA026	05/19/2020 18:10	Patrick Thimes	1
07105	Methane	RSKSOP-175 modified	1	201360004A	05/15/2020 14:16	Esther Kathryn Lane	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	201430015A	05/27/2020 19:57	Timothy M Emrick	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	2	201430015A	05/25/2020 06:20	Maria Davenport	1
07044	Antimony	SW-846 6010C	1	201401404404	05/21/2020 10:13	Lisa J Cooke	1
07035	Arsenic	SW-846 6010C	1	201401404404	05/21/2020 10:13	Lisa J Cooke	1
07046	Barium	SW-846 6010C	1	201401404404	05/21/2020 10:13	Lisa J Cooke	1
07047	Beryllium	SW-846 6010C	1	201401404404	05/21/2020 10:13	Lisa J Cooke	1
07049	Cadmium	SW-846 6010C	1	201401404404	05/21/2020 10:13	Lisa J Cooke	1
07051	Chromium	SW-846 6010C	1	201401404404	05/21/2020 10:13	Lisa J Cooke	1
07052	Cobalt	SW-846 6010C	1	201401404404	05/21/2020 10:13	Lisa J Cooke	1
07053	Copper	SW-846 6010C	1	201401404404	05/21/2020 10:13	Lisa J Cooke	1
07055	Lead	SW-846 6010C	1	201401404404	05/22/2020 21:47	Christina Termini	1
07058	Manganese	SW-846 6010C	1	201401404404	05/22/2020 21:38	Christina Termini	5

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/14/2020 17:33
Collection Date/Time: 05/13/2020 11:23

GES, Inc.
ELLE Sample #: RW 1314774
ELLE Group #: 2099563
Matrix: Groundwater

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07060	Molybdenum	SW-846 6010C	1	201401404404	05/21/2020 10:13	Lisa J Cooke	1
07061	Nickel	SW-846 6010C	1	201401404404	05/21/2020 10:13	Lisa J Cooke	1
07036	Selenium	SW-846 6010C	1	201401404404	05/21/2020 10:13	Lisa J Cooke	1
07066	Silver	SW-846 6010C	1	201401404404	05/21/2020 10:13	Lisa J Cooke	1
07022	Thallium	SW-846 6010C	1	201401404404	05/22/2020 21:47	Christina Termini	1
07071	Vanadium	SW-846 6010C	1	201401404404	05/21/2020 10:13	Lisa J Cooke	1
07072	Zinc	SW-846 6010C	1	201401404404	05/21/2020 10:13	Lisa J Cooke	1
00259	Mercury	SW-846 7470A	1	201360571302	05/21/2020 10:08	Damary Valentin	1
14044	ICP-WW, 3005A (tot rec) - U345	SW-846 3005A	1	201401404404	05/20/2020 04:37	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	201360571302	05/20/2020 15:20	JoElla L Rice	1
00228	Sulfate	EPA 300.0	1	20139076117A	05/19/2020 01:10	Niyati Desai	500
00220	Nitrate Nitrogen	EPA 353.2	1	20140106101A	05/19/2020 10:47	Ashlynn M Cornelius	1
00219	Nitrite Nitrogen	EPA 353.2	1	20135105104A	05/15/2020 07:13	Jonathan Saul	1
14855	Ferrous Iron	SM 3500-Fe B-2011	1	20139127101A	05/18/2020 10:02	Jonathan Saul	5
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	20136002104A	05/16/2020 03:24	Jeremy L Bolf	1

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/14/2020 17:33
Collection Date/Time: 05/13/2020 13:08

GES, Inc.
ELLE Sample #: RW 1314775
ELLE Group #: 2099563
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acetone	67-64-1	N.D.	0.8	1
10335	Benzene	71-43-2	N.D.	0.2	1
10335	Bromodichloromethane	75-27-4	N.D.	0.2	1
10335	Bromoform	75-25-2	N.D.	2	1
10335	Bromomethane	74-83-9	N.D.	0.5	1
10335	2-Butanone	78-93-3	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	0.3	1
10335	Carbon Tetrachloride	56-23-5	N.D.	0.2	1
10335	Chlorobenzene	108-90-7	N.D.	0.2	1
10335	Chloroethane	75-00-3	N.D.	0.3	1
10335	Chloroform	67-66-3	N.D.	0.2	1
10335	Chloromethane	74-87-3	N.D.	0.3	1
10335	Cyclohexane	110-82-7	N.D.	2	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	0.4	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.3	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.	0.2	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.	0.2	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.	0.2	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	0.3	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.2	1
10335	1,2-Dichloroethane	107-06-2	N.D.	2	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.2	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.2	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.2	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.2	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.2	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.4	1
10335	Ethylbenzene	100-41-4	N.D.	0.2	1
10335	Freon 113	76-13-1	N.D.	2	1
10335	2-Hexanone	591-78-6	N.D.	3	1
10335	Isopropylbenzene	98-82-8	N.D.	0.3	1
10335	Methyl Acetate	79-20-9	N.D.	0.6	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.2	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	0.5	1
10335	Methylcyclohexane	108-87-2	N.D.	0.2	1
10335	Methylene Chloride	75-09-2	N.D.	0.2	1
10335	Styrene	100-42-5	N.D.	0.2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.2	1
10335	Tetrachloroethene	127-18-4	N.D.	0.2	1
10335	Toluene	108-88-3	N.D.	0.2	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.4	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.2	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.2	1
10335	Trichloroethene	79-01-6	N.D.	0.2	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.4	1
10335	Vinyl Chloride	75-01-4	N.D.	0.4	1
10335	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/14/2020 17:33
Collection Date/Time: 05/13/2020 13:08

GES, Inc.
ELLE Sample #: RW 1314775
ELLE Group #: 2099563
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	
14242	Acenaphthene	83-32-9	N.D.	0.1	1
14242	Acenaphthylene	208-96-8	N.D.	0.1	1
14242	Acetophenone	98-86-2	N.D.	4	1
14242	Anthracene	120-12-7	N.D.	0.1	1
14242	Atrazine	1912-24-9	N.D.	2	1
14242	Benzaldehyde	100-52-7	N.D.	3	1
14242	Benzo(a)anthracene	56-55-3	N.D.	0.1	1
14242	Benzo(a)pyrene	50-32-8	N.D.	0.1	1
14242	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	1
14242	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	1
14242	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	1
14242	1,1'-Biphenyl	92-52-4	N.D.	3	1
14242	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	1
14242	Butylbenzylphthalate	85-68-7	N.D.	2	1
14242	Di-n-butylphthalate	84-74-2	N.D.	2	1
14242	Caprolactam	105-60-2	N.D.	5	1
14242	Carbazole	86-74-8	N.D.	0.5	1
14242	4-Chloro-3-methylphenol	59-50-7	N.D.	2	1
14242	4-Chloroaniline	106-47-8	N.D.	4	1
14242	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	1
14242	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	1
14242	2-Chloronaphthalene	91-58-7	N.D.	0.4	1
14242	2-Chlorophenol	95-57-8	N.D.	0.5	1
14242	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	1
14242	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	0.5	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.				
14242	Chrysene	218-01-9	N.D.	0.1	1
14242	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	1
14242	Dibenzofuran	132-64-9	N.D.	0.5	1
14242	3,3'-Dichlorobenzidine	91-94-1	N.D.	3	1
14242	2,4-Dichlorophenol	120-83-2	N.D.	0.5	1
14242	Diethylphthalate	84-66-2	N.D.	2	1
14242	2,4-Dimethylphenol	105-67-9	N.D.	3	1
14242	Dimethylphthalate	131-11-3	N.D.	2	1
14242	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	8	1
14242	2,4-Dinitrophenol	51-28-5	N.D.	14	1
14242	2,4-Dinitrotoluene	121-14-2	N.D.	1	1
14242	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	1
14242	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	5	1
14242	Fluoranthene	206-44-0	N.D.	0.1	1
14242	Fluorene	86-73-7	N.D.	0.1	1
14242	Hexachlorobenzene	118-74-1	N.D.	0.1	1
14242	Hexachlorobutadiene	87-68-3	N.D.	0.5	1
14242	Hexachlorocyclopentadiene	77-47-4	N.D.	5	1
14242	Hexachloroethane	67-72-1	N.D.	1	1
14242	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	1
14242	Isophorone	78-59-1	N.D.	0.5	1
14242	2-Methylnaphthalene	91-57-6	N.D.	0.1	1

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/14/2020 17:33
Collection Date/Time: 05/13/2020 13:08

GES, Inc.
ELLE Sample #: RW 1314775
ELLE Group #: 2099563
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	
14242	2-Methylphenol	95-48-7	N.D.	0.5	1
14242	4-Methylphenol	106-44-5	N.D.	0.5	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.				
14242	Naphthalene	91-20-3	N.D.	0.1	1
14242	2-Nitroaniline	88-74-4	N.D.	2	1
14242	3-Nitroaniline	99-09-2	N.D.	3	1
14242	4-Nitroaniline	100-01-6	N.D.	0.9	1
14242	Nitrobenzene	98-95-3	N.D.	0.5	1
14242	2-Nitrophenol	88-75-5	N.D.	3	1
14242	4-Nitrophenol	100-02-7	N.D.	10	1
14242	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.7	1
14242	N-Nitrosodiphenylamine	86-30-6	N.D.	0.7	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.				
14242	Di-n-octylphthalate	117-84-0	N.D.	5	1
14242	Pentachlorophenol	87-86-5	N.D.	1	1
14242	Phenanthrene	85-01-8	N.D.	0.1	1
14242	Phenol	108-95-2	N.D.	0.5	1
14242	Pyrene	129-00-0	N.D.	0.1	1
14242	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	1
14242	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	1
	The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following action was taken: The sample was re-extracted and the QC is again outside of the acceptance limits. The data is reported from the initial trial.				
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	N.D.	53	1
Metals	**SW-846 6010C**		**mg/l**	**mg/l**	
07044	Antimony	7440-36-0	N.D.	0.0160	1
07035	Arsenic	7440-38-2	N.D.	0.0160	1
07046	Barium	7440-39-3	0.0359	0.0010	1
07047	Beryllium	7440-41-7	N.D.	0.0010	1
07049	Cadmium	7440-43-9	N.D.	0.0010	1
07051	Chromium	7440-47-3	N.D.	0.0016	1
07052	Cobalt	7440-48-4	N.D.	0.0015	1
07053	Copper	7440-50-8	N.D.	0.0120	1
07055	Lead	7439-92-1	N.D.	0.0071	1
07060	Molybdenum	7439-98-7	N.D.	0.0020	1
07061	Nickel	7440-02-0	0.0029 J	0.0021	1
07036	Selenium	7782-49-2	N.D.	0.0160	1
07066	Silver	7440-22-4	N.D.	0.0050	1
07022	Thallium	7440-28-0	N.D.	0.0081	1
07071	Vanadium	7440-62-2	N.D.	0.0019	1

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/14/2020 17:33
Collection Date/Time: 05/13/2020 13:08

GES, Inc.
ELLE Sample #: RW 1314775
ELLE Group #: 2099563
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Metals		**SW-846 6010C**	**mg/l**	**mg/l**	
07072	Zinc	7440-66-6	N.D.	0.0037	1
		SW-846 7470A	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000050	1

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	TCL 4.3 VOCs	SW-846 8260B	1	N201472AA	05/26/2020 23:09	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N201472AA	05/26/2020 23:08	Sara E Johnson	1
14242	TCL 4.3 SVOCs	SW-846 8270D	1	20140WAA026	05/22/2020 16:07	Linda M Hartenstine	1
00813	BNA Water Extraction	SW-846 3510C	1	20140WAA026	05/19/2020 18:10	Patrick Thimes	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	201400003A	05/21/2020 13:25	Bridget Kovacs	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	201400003A	05/20/2020 07:15	Maria Davenport	1
07044	Antimony	SW-846 6010C	1	201401404401	05/20/2020 17:05	Cindy M Gehman	1
07035	Arsenic	SW-846 6010C	1	201401404401	05/20/2020 17:05	Cindy M Gehman	1
07046	Barium	SW-846 6010C	1	201401404401	05/20/2020 17:05	Cindy M Gehman	1
07047	Beryllium	SW-846 6010C	1	201401404401	05/20/2020 17:05	Cindy M Gehman	1
07049	Cadmium	SW-846 6010C	1	201401404401	05/20/2020 17:05	Cindy M Gehman	1
07051	Chromium	SW-846 6010C	1	201401404401	05/20/2020 17:05	Cindy M Gehman	1
07052	Cobalt	SW-846 6010C	1	201401404401	05/20/2020 17:05	Cindy M Gehman	1
07053	Copper	SW-846 6010C	1	201401404401	05/20/2020 17:05	Cindy M Gehman	1
07055	Lead	SW-846 6010C	1	201401404401	05/20/2020 17:05	Cindy M Gehman	1
07060	Molybdenum	SW-846 6010C	1	201401404401	05/20/2020 17:05	Cindy M Gehman	1
07061	Nickel	SW-846 6010C	1	201401404401	05/20/2020 17:05	Cindy M Gehman	1
07036	Selenium	SW-846 6010C	1	201401404401	05/20/2020 17:05	Cindy M Gehman	1
07066	Silver	SW-846 6010C	1	201401404401	05/20/2020 17:05	Cindy M Gehman	1
07022	Thallium	SW-846 6010C	1	201401404401	05/20/2020 17:05	Cindy M Gehman	1
07071	Vanadium	SW-846 6010C	1	201401404401	05/20/2020 17:05	Cindy M Gehman	1
07072	Zinc	SW-846 6010C	1	201401404401	05/20/2020 17:05	Cindy M Gehman	1
00259	Mercury	SW-846 7470A	1	201360571301	05/20/2020 08:12	Damary Valentin	1
14044	ICP-WW, 3005A (tot rec) - U345	SW-846 3005A	1	201401404401	05/20/2020 03:28	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	201360571301	05/19/2020 16:15	JoElla L Rice	1

Quality Control Summary

Client Name: GES, Inc. Group Number: 2099563
Reported: 05/29/2020 17:19

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: N201472AA	Sample number(s): 1314773-1314775	
Acetone	N.D.	0.8
Benzene	N.D.	0.2
Bromodichloromethane	N.D.	0.2
Bromoform	N.D.	2
Bromomethane	N.D.	0.5
2-Butanone	N.D.	1
Carbon Disulfide	N.D.	0.3
Carbon Tetrachloride	N.D.	0.2
Chlorobenzene	N.D.	0.2
Chloroethane	N.D.	0.3
Chloroform	N.D.	0.2
Chloromethane	N.D.	0.3
Cyclohexane	N.D.	2
1,2-Dibromo-3-chloropropane	N.D.	1
Dibromochloromethane	N.D.	0.4
1,2-Dibromoethane	N.D.	0.3
1,2-Dichlorobenzene	N.D.	0.2
1,3-Dichlorobenzene	N.D.	0.2
1,4-Dichlorobenzene	N.D.	0.2
Dichlorodifluoromethane	N.D.	0.3
1,1-Dichloroethane	N.D.	0.2
1,2-Dichloroethane	N.D.	2
1,1-Dichloroethene	N.D.	0.2
cis-1,2-Dichloroethene	N.D.	0.2
trans-1,2-Dichloroethene	N.D.	0.2
1,2-Dichloropropane	N.D.	0.2
cis-1,3-Dichloropropene	N.D.	0.2
trans-1,3-Dichloropropene	N.D.	0.4
Ethylbenzene	N.D.	0.2
Freon 113	N.D.	2
2-Hexanone	N.D.	3
Isopropylbenzene	N.D.	0.3
Methyl Acetate	N.D.	0.6
Methyl Tertiary Butyl Ether	N.D.	0.2
4-Methyl-2-pentanone	N.D.	0.5
Methylcyclohexane	N.D.	0.2
Methylene Chloride	N.D.	0.2
Naphthalene	N.D.	4
Styrene	N.D.	0.2

*- 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. Group Number: 2099563
Reported: 05/29/2020 17:19

Method Blank (continued)

Analysis Name	Result	MDL
	ug/l	ug/l
1,1,2,2-Tetrachloroethane	N.D.	0.2
Tetrachloroethene	N.D.	0.2
Toluene	N.D.	0.2
1,2,4-Trichlorobenzene	N.D.	0.4
1,1,1-Trichloroethane	N.D.	0.2
1,1,2-Trichloroethane	N.D.	0.2
Trichloroethene	N.D.	0.2
Trichlorofluoromethane	N.D.	0.4
Vinyl Chloride	N.D.	0.4
Xylene (Total)	N.D.	0.5
Batch number: 20140WAA026	Sample number(s): 1314773-1314775	
Acenaphthene	N.D.	0.1
Acenaphthylene	N.D.	0.1
Acetophenone	N.D.	4
Anthracene	N.D.	0.1
Atrazine	N.D.	2
Benzaldehyde	N.D.	3
Benzo(a)anthracene	N.D.	0.1
Benzo(a)pyrene	N.D.	0.1
Benzo(b)fluoranthene	N.D.	0.1
Benzo(g,h,i)perylene	N.D.	0.1
Benzo(k)fluoranthene	N.D.	0.1
1,1'-Biphenyl	N.D.	3
4-Bromophenyl-phenylether	N.D.	0.5
Butylbenzylphthalate	N.D.	2
Di-n-butylphthalate	N.D.	2
Caprolactam	N.D.	5
Carbazole	N.D.	0.5
4-Chloro-3-methylphenol	N.D.	2
4-Chloroaniline	N.D.	4
bis(2-Chloroethoxy)methane	N.D.	0.5
bis(2-Chloroethyl)ether	N.D.	0.5
2-Chloronaphthalene	N.D.	0.4
2-Chlorophenol	N.D.	0.5
4-Chlorophenyl-phenylether	N.D.	0.5
2,2'-oxybis(1-Chloropropane)	N.D.	0.5
Chrysene	N.D.	0.1
Dibenz(a,h)anthracene	N.D.	0.1
Dibenzofuran	N.D.	0.5
3,3'-Dichlorobenzidine	N.D.	3
2,4-Dichlorophenol	N.D.	0.5
Diethylphthalate	N.D.	2
2,4-Dimethylphenol	N.D.	3
Dimethylphthalate	N.D.	2

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: GES, Inc. Group Number: 2099563
Reported: 05/29/2020 17:19

Method Blank (continued)

Analysis Name	Result	MDL
	ug/l	ug/l
4,6-Dinitro-2-methylphenol	N.D.	8
2,4-Dinitrophenol	N.D.	14
2,4-Dinitrotoluene	N.D.	1
2,6-Dinitrotoluene	N.D.	0.5
bis(2-Ethylhexyl)phthalate	N.D.	5
Fluoranthene	N.D.	0.1
Fluorene	N.D.	0.1
Hexachlorobenzene	N.D.	0.1
Hexachlorobutadiene	N.D.	0.5
Hexachlorocyclopentadiene	N.D.	5
Hexachloroethane	N.D.	1
Indeno(1,2,3-cd)pyrene	N.D.	0.1
Isophorone	N.D.	0.5
2-Methylnaphthalene	N.D.	0.1
2-Methylphenol	N.D.	0.5
4-Methylphenol	N.D.	0.5
Naphthalene	N.D.	0.1
2-Nitroaniline	N.D.	2
3-Nitroaniline	N.D.	3
4-Nitroaniline	N.D.	0.9
Nitrobenzene	N.D.	0.5
2-Nitrophenol	N.D.	3
4-Nitrophenol	N.D.	10
N-Nitroso-di-n-propylamine	N.D.	0.7
N-Nitrosodiphenylamine	N.D.	0.7
Di-n-octylphthalate	N.D.	5
Pentachlorophenol	N.D.	1
Phenanthrene	N.D.	0.1
Phenol	N.D.	0.5
Pyrene	N.D.	0.1
2,4,5-Trichlorophenol	N.D.	0.5
2,4,6-Trichlorophenol	N.D.	0.5
Batch number: 201360004A	Sample number(s): 1314773-1314774	
Methane	N.D.	3.0
Batch number: 201400003A	Sample number(s): 1314775	
DRO C10-C28	N.D.	53
Batch number: 201430015A	Sample number(s): 1314773-1314774	
DRO C10-C28	N.D.	53
	mg/l	mg/l
Batch number: 201360571301	Sample number(s): 1314775	
Mercury	N.D.	0.000050
Batch number: 201360571302	Sample number(s): 1314773-1314774	

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: GES, Inc. Group Number: 2099563
Reported: 05/29/2020 17:19

Method Blank (continued)

Analysis Name	Result	MDL
	mg/l	mg/l
Mercury	N.D.	0.000050
Batch number: 201401404401	Sample number(s): 1314775	
Antimony	N.D.	0.0160
Arsenic	N.D.	0.0160
Barium	N.D.	0.0010
Beryllium	N.D.	0.0010
Cadmium	N.D.	0.0010
Chromium	N.D.	0.0016
Cobalt	N.D.	0.0015
Copper	N.D.	0.0120
Lead	N.D.	0.0071
Molybdenum	N.D.	0.0020
Nickel	N.D.	0.0021
Selenium	N.D.	0.0160
Silver	N.D.	0.0050
Thallium	N.D.	0.0081
Vanadium	N.D.	0.0019
Zinc	N.D.	0.0037
Batch number: 201401404404	Sample number(s): 1314773-1314774	
Antimony	N.D.	0.0160
Arsenic	N.D.	0.0160
Barium	N.D.	0.0010
Beryllium	N.D.	0.0010
Cadmium	N.D.	0.0010
Chromium	N.D.	0.0016
Cobalt	N.D.	0.0015
Copper	N.D.	0.0120
Lead	N.D.	0.0071
Manganese	N.D.	0.0030
Molybdenum	N.D.	0.0020
Nickel	N.D.	0.0021
Selenium	N.D.	0.0160
Silver	N.D.	0.0050
Thallium	N.D.	0.0081
Vanadium	N.D.	0.0019
Zinc	N.D.	0.0037
Batch number: 20135105104A	Sample number(s): 1314773-1314774	
Nitrite Nitrogen	N.D.	0.015
Batch number: 20139076117A	Sample number(s): 1314773-1314774	
Sulfate	N.D.	0.30
Batch number: 20139127101A	Sample number(s): 1314773-1314774	
Ferrous Iron	N.D.	0.0150

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: GES, Inc.
Reported: 05/29/2020 17:19

Group Number: 2099563

Method Blank (continued)

Analysis Name	Result	MDL
	mg/l	mg/l
Batch number: 20140106101A	Sample number(s): 1314773-1314774	
Nitrate Nitrogen	N.D.	0.040
	mg/l as CaCO3	mg/l as CaCO3
Batch number: 20136002104A	Sample number(s): 1314773-1314774	
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: N201472AA	Sample number(s): 1314773-1314775								
Acetone	150	207.36			138		54-157		
Benzene	20	19.55			98		80-120		
Bromodichloromethane	20	18.16			91		71-120		
Bromoform	20	19.61			98		51-120		
Bromomethane	20	15.52			78		53-128		
2-Butanone	150	132.36			88		59-135		
Carbon Disulfide	20	18.51			93		65-128		
Carbon Tetrachloride	20	17.9			89		64-134		
Chlorobenzene	20	20.23			101		80-120		
Chloroethane	20	15.19			76		55-123		
Chloroform	20	18.66			93		80-120		
Chloromethane	20	14.07			70		56-121		
Cyclohexane	20	21.59			108		68-126		
1,2-Dibromo-3-chloropropane	20	17.87			89		47-131		
Dibromochloromethane	20	19.78			99		71-120		
1,2-Dibromoethane	20	19.64			98		77-120		
1,2-Dichlorobenzene	20	20.35			102		80-120		
1,3-Dichlorobenzene	20	20.14			101		80-120		
1,4-Dichlorobenzene	20	20.41			102		80-120		
Dichlorodifluoromethane	20	12.85			64		41-127		
1,1-Dichloroethane	20	17.47			87		80-120		
1,2-Dichloroethane	20	17.32			87		73-124		
1,1-Dichloroethene	20	17.7			89		80-131		
cis-1,2-Dichloroethene	20	20.41			102		80-125		
trans-1,2-Dichloroethene	20	17.59			88		80-126		
1,2-Dichloropropane	20	20			100		80-120		
cis-1,3-Dichloropropene	20	18.59			93		75-120		
trans-1,3-Dichloropropene	20	17.88			89		67-120		

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: GES, Inc. Group Number: 2099563
Reported: 05/29/2020 17:19

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
Ethylbenzene	20	19.58			98		80-120		
Freon 113	20	18.58			93		73-139		
2-Hexanone	100	94.79			95		56-135		
Isopropylbenzene	20	20.09			100		80-120		
Methyl Acetate	20	17.31			87		54-136		
Methyl Tertiary Butyl Ether	20	15.18			76		69-122		
4-Methyl-2-pentanone	100	89.18			89		62-133		
Methylcyclohexane	20	20.25			101		67-121		
Methylene Chloride	20	17.04			85		80-120		
Naphthalene	20	19.32			97		53-124		
Styrene	20	19.95			100		80-120		
1,1,2,2-Tetrachloroethane	20	20.47			102		72-120		
Tetrachloroethene	20	19.71			99		80-120		
Toluene	20	19.87			99		80-120		
1,2,4-Trichlorobenzene	20	19.59			98		63-120		
1,1,1-Trichloroethane	20	17.48			87		67-126		
1,1,2-Trichloroethane	20	20.03			100		80-120		
Trichloroethene	20	18.28			91		80-120		
Trichlorofluoromethane	20	16.15			81		55-135		
Vinyl Chloride	20	14.31			72		56-120		
Xylene (Total)	60	59.92			100		80-120		
	ug/l	**ug/l**	**ug/l**	**ug/l**					
Batch number: 20140WAA026	Sample number(s): 1314773-1314775								
Acenaphthene	50	39.08			78		52-114		
Acenaphthylene	50	39.95			80		56-127		
Acetophenone	50	44.07			88		61-114		
Anthracene	50	42.93			86		67-116		
Atrazine	50	44.49			89		71-133		
Benzaldehyde	50	35.66			71		55-116		
Benzo(a)anthracene	50	47.32			95		68-123		
Benzo(a)pyrene	50	46.87			94		71-117		
Benzo(b)fluoranthene	50	48.72			97		69-121		
Benzo(g,h,i)perylene	50	44.33			89		60-119		
Benzo(k)fluoranthene	50	47.61			95		69-122		
1,1'-Biphenyl	50	36.41			73		56-109		
4-Bromophenyl-phenylether	50	38.44			77		60-114		
Butylbenzylphthalate	50	16.43			33*		40-133		
Di-n-butylphthalate	50	34.54			69		58-125		
Caprolactam	50	13.1			26		10-57		
Carbazole	50	47.95			96		64-127		
4-Chloro-3-methylphenol	50	46.15			92		60-118		
4-Chloroaniline	50	40.07			80		45-111		
bis(2-Chloroethoxy)methane	50	44.17			88		63-116		

*- 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: 05/29/2020 17:19

Group Number: 2099563

LCS/LCSD (continued)

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
bis(2-Chloroethyl)ether	50	42.09			84		58-108		
2-Chloronaphthalene	50	36.38			73		51-107		
2-Chlorophenol	50	40.77			82		57-105		
4-Chlorophenyl-phenylether	50	38.87			78		57-110		
2,2'-oxybis(1-Chloropropane)	50	45.81			92		48-105		
Chrysene	50	44.09			88		65-121		
Dibenz(a,h)anthracene	50	47.97			96		63-128		
Dibenzofuran	50	40.77			82		60-112		
3,3'-Dichlorobenzidine	50	32.45			65		42-107		
2,4-Dichlorophenol	50	42.99			86		65-110		
Diethylphthalate	50	22.62			45		42-126		
2,4-Dimethylphenol	50	36.16			72		53-93		
Dimethylphthalate	50	4.52			9*		10-134		
4,6-Dinitro-2-methylphenol	50	45.16			90		63-129		
2,4-Dinitrophenol	100	93.09			93		44-134		
2,4-Dinitrotoluene	50	47.21			94		66-122		
2,6-Dinitrotoluene	50	46.69			93		71-120		
bis(2-Ethylhexyl)phthalate	50	46.33			93		61-129		
Fluoranthene	50	46.88			94		63-122		
Fluorene	50	42.75			85		56-115		
Hexachlorobenzene	50	37.45			75		60-117		
Hexachlorobutadiene	50	26.57			53		20-108		
Hexachlorocyclopentadiene	100	17.9			18		10-91		
Hexachloroethane	50	25.2			50		23-95		
Indeno(1,2,3-cd)pyrene	50	43.89			88		59-123		
Isophorone	50	45.11			90		63-120		
2-Methylnaphthalene	50	34.97			70		51-107		
2-Methylphenol	50	40.67			81		53-107		
4-Methylphenol	50	42.25			84		49-108		
Naphthalene	50	34.84			70		51-102		
2-Nitroaniline	50	47.39			95		66-126		
3-Nitroaniline	50	46.63			93		55-121		
4-Nitroaniline	50	41.83			84		55-113		
Nitrobenzene	50	43.16			86		59-109		
2-Nitrophenol	50	43.34			87		63-111		
4-Nitrophenol	50	32.53			65		23-89		
N-Nitroso-di-n-propylamine	50	45.73			91		58-120		
N-Nitrosodiphenylamine	50	44.39			89		60-126		
Di-n-octylphthalate	50	49.56			99		60-136		
Pentachlorophenol	50	43.71			87		54-131		
Phenanthrene	50	43.42			87		65-113		
Phenol	50	26.17			52		19-79		
Pyrene	50	43.9			88		65-115		
2,4,5-Trichlorophenol	50	46			92		66-118		

*- 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.

Quality Control Summary

Client Name: GES, Inc. Group Number: 2099563
Reported: 05/29/2020 17:19

LCS/LCSD (continued)

Analysis Name	LCS Spike Added	LCS Conc	LCSD Spike Added	LCSD Conc	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
	ug/l	ug/l	ug/l	ug/l					
2,4,6-Trichlorophenol	50	46.69			93		69-117		
	ug/l	**ug/l**	**ug/l**	**ug/l**					
Batch number: 201360004A	Sample number(s): 1314773-1314774								
Methane	59.42	62.14	59.42	61.86	105	104	85-115	0	20
	ug/l	**ug/l**	**ug/l**	**ug/l**					
Batch number: 201400003A	Sample number(s): 1314775								
DRO C10-C28	2680.93	3789.21			141*		47-116		
Batch number: 201430015A	Sample number(s): 1314773-1314774								
DRO C10-C28	2615.73	2867.89			110		47-116		
	mg/l	**mg/l**	**mg/l**	**mg/l**					
Batch number: 201360571301	Sample number(s): 1314775								
Mercury	0.00100	0.000857			86		80-110		
Batch number: 201360571302	Sample number(s): 1314773-1314774								
Mercury	0.00100	0.000823			82		80-110		
Batch number: 201401404401	Sample number(s): 1314775								
Antimony	0.100	0.104			104		80-120		
Arsenic	0.0600	0.0525			87		80-120		
Barium	0.0100	0.0104			104		80-120		
Beryllium	0.0100	0.00951			95		80-120		
Cadmium	0.0100	0.00993			99		80-120		
Chromium	0.0300	0.0294			98		80-120		
Cobalt	0.0100	0.0108			108		80-120		
Copper	0.0400	0.0401			100		80-120		
Lead	0.0300	0.0338			113		80-120		
Molybdenum	0.0200	0.0201			101		80-120		
Nickel	2.02	2.05			101		80-120		
Selenium	0.100	0.0990			99		80-120		
Silver	0.0200	0.0207			103		80-120		
Thallium	0.0600	0.0632			105		80-120		
Vanadium	0.0200	0.0198			99		80-120		
Zinc	0.440	0.422			96		80-120		
Batch number: 201401404404	Sample number(s): 1314773-1314774								
Antimony	0.100	0.111			111		80-120		
Arsenic	0.0600	0.0555			92		80-120		
Barium	0.0100	0.0106			106		80-120		
Beryllium	0.0100	0.0101			101		80-120		
Cadmium	0.0100	0.0102			102		80-120		
Chromium	0.0300	0.0311			104		80-120		

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: GES, Inc. Group Number: 2099563
Reported: 05/29/2020 17:19

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
Cobalt	0.0100	0.0107			107		80-120		
Copper	0.0400	0.0431			108		80-120		
Lead	0.0300	0.0302			101		80-120		
Manganese	0.0200	0.0202			101		80-120		
Molybdenum	0.0200	0.0212			106		80-120		
Nickel	2.02	2.20			109		80-120		
Selenium	0.100	0.100			100		80-120		
Silver	0.0200	0.0199			99		80-120		
Thallium	0.0600	0.0604			101		80-120		
Vanadium	0.0200	0.0205			102		80-120		
Zinc	0.440	0.450			102		80-120		
	mg/l	**mg/l**	**mg/l**	**mg/l**					
Batch number: 20135105104A	Sample number(s): 1314773-1314774								
Nitrite Nitrogen	0.700	0.753			108		90-110		
Batch number: 20139076117A	Sample number(s): 1314773-1314774								
Sulfate	7.50	7.54			101		90-110		
Batch number: 20139127101A	Sample number(s): 1314773-1314774								
Ferrous Iron	1.00	0.931			93		90-110		
Batch number: 20140106101A	Sample number(s): 1314773-1314774								
Nitrate Nitrogen	2.50	2.68			107		90-110		
	mg/l as CaCO3	**mg/l as CaCO3**	**mg/l as CaCO3**	**mg/l as CaCO3**					
Batch number: 20136002104A	Sample number(s): 1314773-1314774								
Total Alkalinity to pH 4.5	188	167.78			89		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: 20135105104A	Sample number(s): 1314773-1314774 UNSPK: 1314774									
Nitrite Nitrogen	N.D.	0.200	0.0360			18*		90-110		
Batch number: 20140106101A	Sample number(s): 1314773-1314774 UNSPK: 1314773									
Nitrate Nitrogen	N.D.	1.00	1.11			111*		90-110		

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: GES, Inc.
Reported: 05/29/2020 17:19

Group Number: 2099563

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: 20135105104A	Sample number(s): 1314773-1314774 BKG: 1314774			
Nitrite Nitrogen	N.D.	N.D.	0 (1)	20
Batch number: 20140106101A	Sample number(s): 1314773-1314774 BKG: 1314773			
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: TCL 4.3 VOCs
Batch number: N201472AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
1314773	98	102	101	92
1314774	97	102	99	92
1314775	97	103	100	90
Blank	98	99	101	91
LCS	96	98	102	93
Limits:	80-120	80-120	80-120	80-120

Analysis Name: TCL 4.3 SVOCs
Batch number: 20140WAA026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
1314773	40	38	77	59	66	88
1314774	26	15	38	68	67	89
1314775	26	36	73	64	58	91
Blank	33	45	81	75	59	97
LCS	42	55	86	84	72	97
Limits:	10-67	10-84	18-141	38-113	44-102	34-128

Analysis Name: Methane
Batch number: 201360004A

	Propene
1314773	80
1314774	90
Blank	100

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: GES, Inc. Group Number: 2099563
Reported: 05/29/2020 17:19

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: 201360004A

	Propene
LCS	103
LCSD	105
Limits:	28-140

Analysis Name: DRO micro-ext 8015B
Batch number: 201400003A

	Orthoterphenyl
1314775	107
Blank	103
LCS	95
Limits:	52-132

Analysis Name: DRO micro-ext 8015B
Batch number: 201430015A

	Orthoterphenyl
1314773	126
1314774	114
Blank	112
LCS	105
Limits:	52-132

*- 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 # 2099563 Sample # 131477-25

Client: **Groundwater & Env. Services, Inc.**

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

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

Sampler: Kirk Marks | PWSID #:

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

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

Sample Identification	Collection Date	Collection Time	Grab	Composite	Matrix: Soil	Sediment	Water (Potable / Ground / 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)	Full VOCs (8260)	Full SVOCs (8270)	Target Metals (6010) + Hg (7470)	Naphthalene (8260)	Remarks
										Preservation Codes: H	-	-/S	N	H	-	H	H	-	N	H	
MW-72S	5-13-2020	10:08	X				X			16	X	X	X	X	X	X	X	X	X	X		
MW-72/RW-72	↓	11:23	X				X			16	X	X	X	X	X	X	X	X	X	X	X	
MW-16	↓	13:08	X				X			8	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

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

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: midatlantic@gesonline.com & ges@equisonline.com

Phone:

Data Package Options (please check if required)

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

Type III (Reduced non-CLP) ☐ CT RCP ☐

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

NYSDEC Category ☐ A or ☐ B

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

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

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	5-14-2020	07:30	Donna Marple	5/14/20	7:30
Donna Marple	5/14/20		[signature]	5/14/20	10:30
[signature]	5/14/20	17:10			
			[signature]	5-14-20	1733

Relinquished by Commercial Carrier:

UPS _____ FedEx _____ Other _____

Temperature upon receipt 0.6 °C

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Sample Administration Receipt Documentation Log

Doc Log ID: 284533

Group Number(s): 2099563

Client: Groundwater & Env. Services, Inc.

Delivery and Receipt Information

Delivery Method:	ELLE Courier	Arrival Date:	05/14/2020
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 William Mathers

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	0.6	DT	Wet	Y	Loose	N

2425 New Holland Pike
Lancaster, PA 17605-2425

T | 717-656-2300
F | 717-656-2681
www.LancasterLabs.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 less than the LOQ
K2	Continuing Calibration Blank is above the QC limit and the sample result is less than the LOQ
K3	Initial Calibration Verification is above the QC limit and the sample result is less than the LOQ
K4	Continuing Calibration Verification is above the QC limit and the sample result is less than the LOQ
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: June 02, 2020 12:07

Project: NRG PRGS

Account #: 08390
Group Number: 2099739
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-116S Grab Groundwater	05/14/2020 09:42	1315807
RW-119S Grab Groundwater	05/14/2020 11:02	1315808
MW-106 Grab Groundwater	05/14/2020 12:52	1315809

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

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/15/2020 17:50
Collection Date/Time: 05/14/2020 09:42

GES, Inc.
ELLE Sample #: RW 1315807
ELLE Group #: 2099739
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	
10335	Acetone	67-64-1	N.D.		4	5
10335	Benzene	71-43-2	N.D.		1	5
10335	Bromodichloromethane	75-27-4	N.D.		1	5
10335	Bromoform	75-25-2	N.D.		10	5
10335	Bromomethane	74-83-9	N.D.		3	5
10335	2-Butanone	78-93-3	12	J	5	5
10335	Carbon Disulfide	75-15-0	N.D.		2	5
10335	Carbon Tetrachloride	56-23-5	N.D.		1	5
10335	Chlorobenzene	108-90-7	N.D.		1	5
10335	Chloroethane	75-00-3	N.D.		2	5
10335	Chloroform	67-66-3	N.D.		1	5
10335	Chloromethane	74-87-3	N.D.		2	5
10335	Cyclohexane	110-82-7	N.D.		10	5
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.		5	5
10335	Dibromochloromethane	124-48-1	N.D.		2	5
10335	1,2-Dibromoethane	106-93-4	N.D.		2	5
10335	1,2-Dichlorobenzene	95-50-1	N.D.		1	5
10335	1,3-Dichlorobenzene	541-73-1	N.D.		1	5
10335	1,4-Dichlorobenzene	106-46-7	N.D.		1	5
10335	Dichlorodifluoromethane	75-71-8	N.D.		2	5
10335	1,1-Dichloroethane	75-34-3	N.D.		1	5
10335	1,2-Dichloroethane	107-06-2	N.D.		10	5
10335	1,1-Dichloroethene	75-35-4	N.D.		1	5
10335	cis-1,2-Dichloroethene	156-59-2	N.D.		1	5
10335	trans-1,2-Dichloroethene	156-60-5	N.D.		1	5
10335	1,2-Dichloropropane	78-87-5	N.D.		1	5
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.		1	5
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.		2	5
10335	Ethylbenzene	100-41-4	N.D.		1	5
10335	Freon 113	76-13-1	N.D.		10	5
10335	2-Hexanone	591-78-6	N.D.		15	5
10335	Isopropylbenzene	98-82-8	N.D.		2	5
10335	Methyl Acetate	79-20-9	N.D.		3	5
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.		1	5
10335	4-Methyl-2-pentanone	108-10-1	N.D.		3	5
10335	Methylcyclohexane	108-87-2	N.D.		1	5
10335	Methylene Chloride	75-09-2	N.D.		1	5
10335	Styrene	100-42-5	N.D.		1	5
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		1	5
10335	Tetrachloroethene	127-18-4	N.D.		1	5
10335	Toluene	108-88-3	N.D.		1	5
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.		2	5
10335	1,1,1-Trichloroethane	71-55-6	N.D.		1	5
10335	1,1,2-Trichloroethane	79-00-5	N.D.		1	5
10335	Trichloroethene	79-01-6	N.D.		1	5
10335	Trichlorofluoromethane	75-69-4	N.D.		2	5
10335	Vinyl Chloride	75-01-4	N.D.		2	5
10335	Xylene (Total)	1330-20-7	N.D.		3	5

Reporting limits were raised due to sample foaming.

GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**		**ug/l**	

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/15/2020 17:50
Collection Date/Time: 05/14/2020 09:42

GES, Inc.
ELLE Sample #: RW 1315807
ELLE Group #: 2099739
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	
14242	Acenaphthene	83-32-9	N.D.	0.1	1
14242	Acenaphthylene	208-96-8	N.D.	0.1	1
14242	Acetophenone	98-86-2	N.D.	4	1
14242	Anthracene	120-12-7	N.D.	0.1	1
14242	Atrazine	1912-24-9	N.D.	2	1
14242	Benzaldehyde	100-52-7	N.D.	3	1
14242	Benzo(a)anthracene	56-55-3	N.D.	0.1	1
14242	Benzo(a)pyrene	50-32-8	N.D.	0.1	1
14242	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	1
14242	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	1
14242	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	1
14242	1,1'-Biphenyl	92-52-4	N.D.	3	1
14242	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	1
14242	Butylbenzylphthalate	85-68-7	N.D.	2	1
14242	Di-n-butylphthalate	84-74-2	N.D.	2	1
14242	Caprolactam	105-60-2	N.D.	5	1
14242	Carbazole	86-74-8	N.D.	0.5	1
14242	4-Chloro-3-methylphenol	59-50-7	N.D.	2	1
14242	4-Chloroaniline	106-47-8	N.D.	4	1
14242	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	1
14242	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	1
14242	2-Chloronaphthalene	91-58-7	N.D.	0.4	1
14242	2-Chlorophenol	95-57-8	N.D.	0.5	1
14242	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	1
14242	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	0.5	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.				
14242	Chrysene	218-01-9	N.D.	0.1	1
14242	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	1
14242	Dibenzofuran	132-64-9	N.D.	0.5	1
14242	3,3'-Dichlorobenzidine	91-94-1	N.D.	3	1
14242	2,4-Dichlorophenol	120-83-2	N.D.	0.5	1
14242	Diethylphthalate	84-66-2	N.D.	2	1
14242	2,4-Dimethylphenol	105-67-9	N.D.	3	1
14242	Dimethylphthalate	131-11-3	N.D.	2	1
14242	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	8	1
14242	2,4-Dinitrophenol	51-28-5	N.D.	14	1
14242	2,4-Dinitrotoluene	121-14-2	N.D.	1	1
14242	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	1
14242	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	5	1
14242	Fluoranthene	206-44-0	N.D.	0.1	1
14242	Fluorene	86-73-7	N.D.	0.1	1
14242	Hexachlorobenzene	118-74-1	N.D.	0.1	1
14242	Hexachlorobutadiene	87-68-3	N.D.	0.5	1
14242	Hexachlorocyclopentadiene	77-47-4	N.D.	5	1
14242	Hexachloroethane	67-72-1	N.D.	1	1
14242	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	1
14242	Isophorone	78-59-1	N.D.	0.5	1
14242	2-Methylnaphthalene	91-57-6	N.D.	0.1	1

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

Project Name: **NRG PRGS**

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Collection Date/Time: 05/14/2020 09:42

GES, Inc.
ELLE Sample #: RW 1315807
ELLE Group #: 2099739
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	
14242	2-Methylphenol	95-48-7	N.D.	0.5	1
14242	4-Methylphenol	106-44-5	N.D.	0.5	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.				
14242	Naphthalene	91-20-3	N.D.	0.1	1
14242	2-Nitroaniline	88-74-4	N.D.	2	1
14242	3-Nitroaniline	99-09-2	N.D.	3	1
14242	4-Nitroaniline	100-01-6	N.D.	0.9	1
14242	Nitrobenzene	98-95-3	N.D.	0.5	1
14242	2-Nitrophenol	88-75-5	N.D.	3	1
14242	4-Nitrophenol	100-02-7	N.D.	10	1
14242	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.7	1
14242	N-Nitrosodiphenylamine	86-30-6	N.D.	0.7	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.				
14242	Di-n-octylphthalate	117-84-0	N.D.	5	1
14242	Pentachlorophenol	87-86-5	N.D.	1	1
14242	Phenanthrene	85-01-8	N.D.	0.1	1
14242	Phenol	108-95-2	N.D.	0.5	1
14242	Pyrene	129-00-0	1	0.1	1
14242	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	1
14242	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	1
	The recovery for the sample internal standard is outside the QC acceptance limits. The following action was taken: The sample was re-analyzed and internal standard areas are again outside of the QC acceptance limits, indicating a matrix effect. The reported data is from the initial analysis of the sample.				
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	13,000	53	1
Metals	**SW-846 6010C**		**mg/l**	**mg/l**	
07044	Antimony	7440-36-0	N.D.	0.0160	1
07035	Arsenic	7440-38-2	N.D.	0.0160	1
07046	Barium	7440-39-3	0.0414	0.0010	1
07047	Beryllium	7440-41-7	N.D.	0.0010	1
07049	Cadmium	7440-43-9	0.0027 J	0.0010	1
07051	Chromium	7440-47-3	N.D.	0.0016	1
07052	Cobalt	7440-48-4	0.172	0.0015	1
07053	Copper	7440-50-8	0.0317	0.0120	1
07055	Lead	7439-92-1	N.D.	0.0071	1
07060	Molybdenum	7439-98-7	N.D.	0.0020	1
07061	Nickel	7440-02-0	0.0645	0.0021	1
07036	Selenium	7782-49-2	N.D.	0.0160	1
07066	Silver	7440-22-4	N.D. K2	0.0050	1
07022	Thallium	7440-28-0	N.D.	0.0081	1
07071	Vanadium	7440-62-2	0.0086 J	0.0019	1

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

Project Name: **NRG PRGS**

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GES, Inc.
ELLE Sample #: RW 1315807
ELLE Group #: 2099739
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Metals		**SW-846 6010C**	**mg/l**	**mg/l**	
07072	Zinc	7440-66-6	0.0936	0.0037	1
		SW-846 7470A	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000079	1
Wet Chemistry		**EPA 300.0**	**mg/l**	**mg/l**	
00228	Sulfate	14808-79-8	1,300	150	500
		SM 2320 B-2011	**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5	n.a.	62.2	2.6	1

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	TCL 4.3 VOCs	SW-846 8260B	1	N201472AA	05/27/2020 03:11	Sara E Johnson	5
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N201472AA	05/27/2020 03:10	Sara E Johnson	5
14242	TCL 4.3 SVOCs	SW-846 8270D	1	20141WAE026	05/25/2020 11:05	Linda M Hartenstine	1
00813	BNA Water Extraction	SW-846 3510C	1	20141WAE026	05/21/2020 08:27	Christine E Gleim	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	201410016A	05/22/2020 08:19	Bridget Kovacs	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	201410016A	05/21/2020 12:01	Logan M Brosemer	1
07044	Antimony	SW-846 6010C	1	201401404403	05/22/2020 16:49	Christina Termini	1
07035	Arsenic	SW-846 6010C	1	201401404403	05/22/2020 16:49	Christina Termini	1
07046	Barium	SW-846 6010C	1	201401404403	05/22/2020 16:49	Christina Termini	1
07047	Beryllium	SW-846 6010C	1	201401404403	05/22/2020 16:49	Christina Termini	1
07049	Cadmium	SW-846 6010C	1	201401404403	05/22/2020 16:49	Christina Termini	1
07051	Chromium	SW-846 6010C	1	201401404403	05/22/2020 16:49	Christina Termini	1
07052	Cobalt	SW-846 6010C	1	201401404403	05/22/2020 16:49	Christina Termini	1
07053	Copper	SW-846 6010C	1	201401404403	05/22/2020 16:49	Christina Termini	1
07055	Lead	SW-846 6010C	1	201401404403	05/22/2020 16:49	Christina Termini	1
07060	Molybdenum	SW-846 6010C	1	201401404403	05/22/2020 16:49	Christina Termini	1
07061	Nickel	SW-846 6010C	1	201401404403	05/22/2020 16:49	Christina Termini	1
07036	Selenium	SW-846 6010C	1	201401404403	05/22/2020 16:49	Christina Termini	1
07066	Silver	SW-846 6010C	1	201401404403	05/22/2020 21:01	Christina Termini	1
07022	Thallium	SW-846 6010C	1	201401404403	05/22/2020 16:49	Christina Termini	1
07071	Vanadium	SW-846 6010C	1	201401404403	05/22/2020 16:49	Christina Termini	1
07072	Zinc	SW-846 6010C	1	201401404403	05/22/2020 16:49	Christina Termini	1
00259	Mercury	SW-846 7470A	1	201390571304	05/22/2020 05:08	Damary Valentin	1
14044	ICP-WW, 3005A (tot rec) - U345	SW-846 3005A	1	201401404403	05/21/2020 03:39	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	201390571304	05/21/2020 17:50	JoElla L Rice	1
00228	Sulfate	EPA 300.0	1	20147720109A	05/26/2020 22:58	Kevin Litwa	500
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	20139006102A	05/19/2020 01:39	Jeremy L Bolf	1

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/15/2020 17:50
Collection Date/Time: 05/14/2020 11:02

GES, Inc.
ELLE Sample #: RW 1315808
ELLE Group #: 2099739
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acetone	67-64-1	N.D.	0.8	1
10335	Benzene	71-43-2	N.D.	0.2	1
10335	Bromodichloromethane	75-27-4	N.D.	0.2	1
10335	Bromoform	75-25-2	N.D.	2	1
10335	Bromomethane	74-83-9	N.D.	0.5	1
10335	2-Butanone	78-93-3	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	0.3	1
10335	Carbon Tetrachloride	56-23-5	N.D.	0.2	1
10335	Chlorobenzene	108-90-7	N.D.	0.2	1
10335	Chloroethane	75-00-3	N.D.	0.3	1
10335	Chloroform	67-66-3	N.D.	0.2	1
10335	Chloromethane	74-87-3	N.D.	0.3	1
10335	Cyclohexane	110-82-7	N.D.	2	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	0.4	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.3	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.	0.2	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.	0.2	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.	0.2	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	0.3	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.2	1
10335	1,2-Dichloroethane	107-06-2	N.D.	2	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.2	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.2	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.2	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.2	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.2	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.4	1
10335	Ethylbenzene	100-41-4	N.D.	0.2	1
10335	Freon 113	76-13-1	N.D.	2	1
10335	2-Hexanone	591-78-6	N.D.	3	1
10335	Isopropylbenzene	98-82-8	N.D.	0.3	1
10335	Methyl Acetate	79-20-9	N.D.	0.6	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.2	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	0.5	1
10335	Methylcyclohexane	108-87-2	N.D.	0.2	1
10335	Methylene Chloride	75-09-2	N.D.	0.2	1
10335	Styrene	100-42-5	N.D.	0.2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.2	1
10335	Tetrachloroethene	127-18-4	N.D.	0.2	1
10335	Toluene	108-88-3	N.D.	0.2	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.4	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.2	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.2	1
10335	Trichloroethene	79-01-6	N.D.	0.2	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.4	1
10335	Vinyl Chloride	75-01-4	N.D.	0.4	1
10335	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/15/2020 17:50
Collection Date/Time: 05/14/2020 11:02

GES, Inc.
ELLE Sample #: RW 1315808
ELLE Group #: 2099739
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	
14242	Acenaphthene	83-32-9	N.D.	0.1	1
14242	Acenaphthylene	208-96-8	N.D.	0.1	1
14242	Acetophenone	98-86-2	N.D.	4	1
14242	Anthracene	120-12-7	N.D.	0.1	1
14242	Atrazine	1912-24-9	N.D.	2	1
14242	Benzaldehyde	100-52-7	N.D.	3	1
14242	Benzo(a)anthracene	56-55-3	N.D.	0.1	1
14242	Benzo(a)pyrene	50-32-8	N.D.	0.1	1
14242	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	1
14242	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	1
14242	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	1
14242	1,1'-Biphenyl	92-52-4	N.D.	3	1
14242	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	1
14242	Butylbenzylphthalate	85-68-7	N.D.	2	1
14242	Di-n-butylphthalate	84-74-2	N.D.	2	1
14242	Caprolactam	105-60-2	N.D.	5	1
14242	Carbazole	86-74-8	N.D.	0.5	1
14242	4-Chloro-3-methylphenol	59-50-7	N.D.	2	1
14242	4-Chloroaniline	106-47-8	N.D.	4	1
14242	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	1
14242	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	1
14242	2-Chloronaphthalene	91-58-7	N.D.	0.4	1
14242	2-Chlorophenol	95-57-8	N.D.	0.5	1
14242	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	1
14242	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	0.5	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.				
14242	Chrysene	218-01-9	N.D.	0.1	1
14242	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	1
14242	Dibenzofuran	132-64-9	N.D.	0.5	1
14242	3,3'-Dichlorobenzidine	91-94-1	N.D.	3	1
14242	2,4-Dichlorophenol	120-83-2	N.D.	0.5	1
14242	Diethylphthalate	84-66-2	N.D.	2	1
14242	2,4-Dimethylphenol	105-67-9	N.D.	3	1
14242	Dimethylphthalate	131-11-3	N.D.	2	1
14242	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	8	1
14242	2,4-Dinitrophenol	51-28-5	N.D.	14	1
14242	2,4-Dinitrotoluene	121-14-2	N.D.	1	1
14242	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	1
14242	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	5	1
14242	Fluoranthene	206-44-0	N.D.	0.1	1
14242	Fluorene	86-73-7	N.D.	0.1	1
14242	Hexachlorobenzene	118-74-1	N.D.	0.1	1
14242	Hexachlorobutadiene	87-68-3	N.D.	0.5	1
14242	Hexachlorocyclopentadiene	77-47-4	N.D.	5	1
14242	Hexachloroethane	67-72-1	N.D.	1	1
14242	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	1
14242	Isophorone	78-59-1	N.D.	0.5	1
14242	2-Methylnaphthalene	91-57-6	N.D.	0.1	1

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/15/2020 17:50
Collection Date/Time: 05/14/2020 11:02

GES, Inc.
ELLE Sample #: RW 1315808
ELLE Group #: 2099739
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	
14242	2-Methylphenol	95-48-7	N.D.	0.5	1
14242	4-Methylphenol	106-44-5	N.D.	0.5	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.				
14242	Naphthalene	91-20-3	N.D.	0.1	1
14242	2-Nitroaniline	88-74-4	N.D.	2	1
14242	3-Nitroaniline	99-09-2	N.D.	3	1
14242	4-Nitroaniline	100-01-6	N.D.	0.9	1
14242	Nitrobenzene	98-95-3	N.D.	0.5	1
14242	2-Nitrophenol	88-75-5	N.D.	3	1
14242	4-Nitrophenol	100-02-7	N.D.	10	1
14242	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.7	1
14242	N-Nitrosodiphenylamine	86-30-6	N.D.	0.7	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.				
14242	Di-n-octylphthalate	117-84-0	N.D.	5	1
14242	Pentachlorophenol	87-86-5	N.D.	1	1
14242	Phenanthrene	85-01-8	N.D.	0.1	1
14242	Phenol	108-95-2	N.D.	0.5	1
14242	Pyrene	129-00-0	N.D.	0.1	1
14242	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	1
14242	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	1
	The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following action was taken: The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the first trial.				
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	2,700	53	1
Metals	**SW-846 6010C**		**mg/l**	**mg/l**	
07044	Antimony	7440-36-0	N.D.	0.0160	1
07035	Arsenic	7440-38-2	N.D.	0.0160	1
07046	Barium	7440-39-3	0.240	0.0010	1
07047	Beryllium	7440-41-7	N.D.	0.0010	1
07049	Cadmium	7440-43-9	N.D.	0.0010	1
07051	Chromium	7440-47-3	N.D.	0.0016	1
07052	Cobalt	7440-48-4	0.0031 J	0.0015	1
07053	Copper	7440-50-8	N.D.	0.0120	1
07055	Lead	7439-92-1	N.D.	0.0071	1
07060	Molybdenum	7439-98-7	N.D.	0.0020	1
07061	Nickel	7440-02-0	0.0049 J	0.0021	1
07036	Selenium	7782-49-2	N.D.	0.0160	1
07066	Silver	7440-22-4	N.D.	0.0050	1
07022	Thallium	7440-28-0	N.D.	0.0081	1
07071	Vanadium	7440-62-2	0.0031 J	0.0019	1

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/15/2020 17:50
Collection Date/Time: 05/14/2020 11:02

GES, Inc.
ELLE Sample #: RW 1315808
ELLE Group #: 2099739
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Metals		**SW-846 6010C**	**mg/l**	**mg/l**	
07072	Zinc	7440-66-6	0.0729	0.0037	1
		SW-846 7470A	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000079	1
Wet Chemistry		**EPA 300.0**	**mg/l**	**mg/l**	
00228	Sulfate	14808-79-8	84.9	6.0	20
		SM 2320 B-2011	**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5	n.a.	408	2.6	1

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	TCL 4.3 VOCs	SW-846 8260B	1	N201472AA	05/27/2020 03:33	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N201472AA	05/27/2020 03:32	Sara E Johnson	1
14242	TCL 4.3 SVOCs	SW-846 8270D	1	20141WAE026	05/25/2020 11:33	Linda M Hartenstine	1
00813	BNA Water Extraction	SW-846 3510C	1	20141WAE026	05/21/2020 08:27	Christine E Gleim	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	201410016A	05/22/2020 08:43	Bridget Kovacs	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	201410016A	05/21/2020 12:01	Logan M Brosemer	1
07044	Antimony	SW-846 6010C	1	201401404403	05/22/2020 16:53	Christina Termini	1
07035	Arsenic	SW-846 6010C	1	201401404403	05/22/2020 16:53	Christina Termini	1
07046	Barium	SW-846 6010C	1	201401404403	05/22/2020 16:53	Christina Termini	1
07047	Beryllium	SW-846 6010C	1	201401404403	05/22/2020 16:53	Christina Termini	1
07049	Cadmium	SW-846 6010C	1	201401404403	05/22/2020 16:53	Christina Termini	1
07051	Chromium	SW-846 6010C	1	201401404403	05/22/2020 16:53	Christina Termini	1
07052	Cobalt	SW-846 6010C	1	201401404403	05/22/2020 16:53	Christina Termini	1
07053	Copper	SW-846 6010C	1	201401404403	05/22/2020 16:53	Christina Termini	1
07055	Lead	SW-846 6010C	1	201401404403	05/22/2020 16:53	Christina Termini	1
07060	Molybdenum	SW-846 6010C	1	201401404403	05/22/2020 16:53	Christina Termini	1
07061	Nickel	SW-846 6010C	1	201401404403	05/22/2020 16:53	Christina Termini	1
07036	Selenium	SW-846 6010C	1	201401404403	05/22/2020 16:53	Christina Termini	1
07066	Silver	SW-846 6010C	1	201471404401	05/27/2020 20:45	Cindy M Gehman	1
07022	Thallium	SW-846 6010C	1	201401404403	05/22/2020 16:53	Christina Termini	1
07071	Vanadium	SW-846 6010C	1	201401404403	05/22/2020 16:53	Christina Termini	1
07072	Zinc	SW-846 6010C	1	201401404403	05/22/2020 16:53	Christina Termini	1
00259	Mercury	SW-846 7470A	1	201390571304	05/22/2020 05:10	Damary Valentin	1
14044	ICP-WW, 3005A (tot rec) - U345	SW-846 3005A	1	201401404403	05/21/2020 03:39	James L Mertz	1
14044	ICP-WW, 3005A (tot rec) - U345	SW-846 3005A	2	201471404401	05/27/2020 02:55	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	201390571304	05/21/2020 17:50	JoElla L Rice	1
00228	Sulfate	EPA 300.0	1	20147720109A	05/26/2020 23:17	Kevin Litwa	20
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	20139006102A	05/19/2020 01:20	Jeremy L Bolf	1

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/15/2020 17:50
Collection Date/Time: 05/14/2020 12:52

GES, Inc.
ELLE Sample #: RW 1315809
ELLE Group #: 2099739
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acetone	67-64-1	N.D.	0.8	1
10335	Benzene	71-43-2	N.D.	0.2	1
10335	Bromodichloromethane	75-27-4	N.D.	0.2	1
10335	Bromoform	75-25-2	N.D.	2	1
10335	Bromomethane	74-83-9	N.D.	0.5	1
10335	2-Butanone	78-93-3	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	0.3	1
10335	Carbon Tetrachloride	56-23-5	N.D.	0.2	1
10335	Chlorobenzene	108-90-7	N.D.	0.2	1
10335	Chloroethane	75-00-3	N.D.	0.3	1
10335	Chloroform	67-66-3	N.D.	0.2	1
10335	Chloromethane	74-87-3	N.D.	0.3	1
10335	Cyclohexane	110-82-7	N.D.	2	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	0.4	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.3	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.	0.2	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.	0.2	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.	0.2	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	0.3	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.2	1
10335	1,2-Dichloroethane	107-06-2	N.D.	2	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.2	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.2	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.2	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.2	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.2	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.4	1
10335	Ethylbenzene	100-41-4	N.D.	0.2	1
10335	Freon 113	76-13-1	N.D.	2	1
10335	2-Hexanone	591-78-6	N.D.	3	1
10335	Isopropylbenzene	98-82-8	N.D.	0.3	1
10335	Methyl Acetate	79-20-9	N.D.	0.6	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.2	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	0.5	1
10335	Methylcyclohexane	108-87-2	N.D.	0.2	1
10335	Methylene Chloride	75-09-2	N.D.	0.2	1
10335	Styrene	100-42-5	N.D.	0.2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.2	1
10335	Tetrachloroethene	127-18-4	N.D.	0.2	1
10335	Toluene	108-88-3	N.D.	0.2	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.4	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.2	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.2	1
10335	Trichloroethene	79-01-6	N.D.	0.2	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.4	1
10335	Vinyl Chloride	75-01-4	N.D.	0.4	1
10335	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/15/2020 17:50
Collection Date/Time: 05/14/2020 12:52

GES, Inc.
ELLE Sample #: RW 1315809
ELLE Group #: 2099739
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	
14242	Acenaphthene	83-32-9	N.D.	0.1	1
14242	Acenaphthylene	208-96-8	N.D.	0.1	1
14242	Acetophenone	98-86-2	N.D.	4	1
14242	Anthracene	120-12-7	N.D.	0.1	1
14242	Atrazine	1912-24-9	N.D.	2	1
14242	Benzaldehyde	100-52-7	N.D.	3	1
14242	Benzo(a)anthracene	56-55-3	N.D.	0.1	1
14242	Benzo(a)pyrene	50-32-8	N.D.	0.1	1
14242	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	1
14242	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	1
14242	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	1
14242	1,1'-Biphenyl	92-52-4	N.D.	3	1
14242	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	1
14242	Butylbenzylphthalate	85-68-7	N.D.	2	1
14242	Di-n-butylphthalate	84-74-2	N.D.	2	1
14242	Caprolactam	105-60-2	N.D.	5	1
14242	Carbazole	86-74-8	N.D.	0.5	1
14242	4-Chloro-3-methylphenol	59-50-7	N.D.	2	1
14242	4-Chloroaniline	106-47-8	N.D.	4	1
14242	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	1
14242	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	1
14242	2-Chloronaphthalene	91-58-7	N.D.	0.4	1
14242	2-Chlorophenol	95-57-8	N.D.	0.5	1
14242	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	1
14242	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	0.5	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.				
14242	Chrysene	218-01-9	N.D.	0.1	1
14242	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	1
14242	Dibenzofuran	132-64-9	N.D.	0.5	1
14242	3,3'-Dichlorobenzidine	91-94-1	N.D.	3	1
14242	2,4-Dichlorophenol	120-83-2	N.D.	0.5	1
14242	Diethylphthalate	84-66-2	N.D.	2	1
14242	2,4-Dimethylphenol	105-67-9	N.D.	3	1
14242	Dimethylphthalate	131-11-3	N.D.	2	1
14242	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	8	1
14242	2,4-Dinitrophenol	51-28-5	N.D.	15	1
14242	2,4-Dinitrotoluene	121-14-2	N.D.	1	1
14242	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	1
14242	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	5	1
14242	Fluoranthene	206-44-0	N.D.	0.1	1
14242	Fluorene	86-73-7	N.D.	0.1	1
14242	Hexachlorobenzene	118-74-1	N.D.	0.1	1
14242	Hexachlorobutadiene	87-68-3	N.D.	0.5	1
14242	Hexachlorocyclopentadiene	77-47-4	N.D.	5	1
14242	Hexachloroethane	67-72-1	N.D.	1	1
14242	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	1
14242	Isophorone	78-59-1	N.D.	0.5	1
14242	2-Methylnaphthalene	91-57-6	N.D.	0.1	1

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/15/2020 17:50
Collection Date/Time: 05/14/2020 12:52

GES, Inc.
ELLE Sample #: RW 1315809
ELLE Group #: 2099739
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	
14242	2-Methylphenol	95-48-7	N.D.	0.5	1
14242	4-Methylphenol	106-44-5	N.D.	0.5	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.				
14242	Naphthalene	91-20-3	N.D.	0.1	1
14242	2-Nitroaniline	88-74-4	N.D.	2	1
14242	3-Nitroaniline	99-09-2	N.D.	3	1
14242	4-Nitroaniline	100-01-6	N.D.	0.9	1
14242	Nitrobenzene	98-95-3	N.D.	0.5	1
14242	2-Nitrophenol	88-75-5	N.D.	3	1
14242	4-Nitrophenol	100-02-7	N.D.	11	1
14242	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.7	1
14242	N-Nitrosodiphenylamine	86-30-6	N.D.	0.7	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.				
14242	Di-n-octylphthalate	117-84-0	N.D.	5	1
14242	Pentachlorophenol	87-86-5	N.D.	1	1
14242	Phenanthrene	85-01-8	N.D.	0.1	1
14242	Phenol	108-95-2	N.D.	0.5	1
14242	Pyrene	129-00-0	N.D.	0.1	1
14242	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	1
14242	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	1
	The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following action was taken: The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the first trial.				
GC Miscellaneous	**RSKSOP-175 modified**		**ug/l**	**ug/l**	
07105	Methane	74-82-8	110	3.0	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	N.D.	53	1
Metals	**SW-846 6010C**		**mg/l**	**mg/l**	
07044	Antimony	7440-36-0	N.D.	0.0160	1
07035	Arsenic	7440-38-2	N.D.	0.0160	1
07046	Barium	7440-39-3	0.0098	0.0010	1
07047	Beryllium	7440-41-7	0.0019 J	0.0010	1
07049	Cadmium	7440-43-9	N.D.	0.0010	1
07051	Chromium	7440-47-3	0.0019 J	0.0016	1
07052	Cobalt	7440-48-4	0.0433	0.0015	1
07053	Copper	7440-50-8	0.110	0.0120	1
07055	Lead	7439-92-1	N.D.	0.0071	1
07058	Manganese	7439-96-5	1.05	0.0030	1
07060	Molybdenum	7439-98-7	N.D.	0.0020	1
07061	Nickel	7440-02-0	0.0626	0.0021	1

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/15/2020 17:50
Collection Date/Time: 05/14/2020 12:52

GES, Inc.
ELLE Sample #: RW 1315809
ELLE Group #: 2099739
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Metals	**SW-846 6010C**		**mg/l**	**mg/l**	
07036	Selenium	7782-49-2	N.D.	0.0160	1
07066	Silver	7440-22-4	N.D.	0.0050	1
07022	Thallium	7440-28-0	N.D.	0.0081	1
07071	Vanadium	7440-62-2	N.D.	0.0019	1
07072	Zinc	7440-66-6	0.224	0.0037	1
	SW-846 7470A		**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000050	1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	
00228	Sulfate	14808-79-8	901	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
	This sample was analyzed with an out of spec LCS. It was re-analyzed on 5/17/20 with a result of N.D.				
	SM 3500-Fe B-2011		**mg/l**	**mg/l**	
14855	Ferrous Iron[1]	n.a.	18.3	0.150	10
	SM 2320 B-2011		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5	n.a.	N.D.	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
10335	TCL 4.3 VOCs	SW-846 8260B	1	N201472AA	05/27/2020 03:54	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N201472AA	05/27/2020 03:53	Sara E Johnson	1
14242	TCL 4.3 SVOCs	SW-846 8270D	1	20141WAE026	05/25/2020 12:01	Linda M Hartenstine	1
00813	BNA Water Extraction	SW-846 3510C	1	20141WAE026	05/21/2020 08:27	Christine E Gleim	1
07105	Methane	RSKSOP-175 modified	1	201390002A	05/19/2020 16:13	Johanna C Kennedy	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	201410016A	05/22/2020 09:07	Bridget Kovacs	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	201410016A	05/21/2020 12:01	Logan M Brosemer	1
07044	Antimony	SW-846 6010C	1	201411404401	05/20/2020 23:10	Cindy M Gehman	1
07035	Arsenic	SW-846 6010C	1	201411404401	05/20/2020 23:10	Cindy M Gehman	1
07046	Barium	SW-846 6010C	1	201411404401	05/20/2020 23:10	Cindy M Gehman	1
07047	Beryllium	SW-846 6010C	1	201411404401	05/20/2020 23:10	Cindy M Gehman	1
07049	Cadmium	SW-846 6010C	1	201411404401	05/20/2020 23:10	Cindy M Gehman	1
07051	Chromium	SW-846 6010C	1	201411404401	05/20/2020 23:10	Cindy M Gehman	1
07052	Cobalt	SW-846 6010C	1	201411404401	05/20/2020 23:10	Cindy M Gehman	1
07053	Copper	SW-846 6010C	1	201411404401	05/20/2020 23:10	Cindy M Gehman	1

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/15/2020 17:50
Collection Date/Time: 05/14/2020 12:52

GES, Inc.
ELLE Sample #: RW 1315809
ELLE Group #: 2099739
Matrix: Groundwater

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07055	Lead	SW-846 6010C	1	201411404401	05/20/2020 23:10	Cindy M Gehman	1
07058	Manganese	SW-846 6010C	1	201411404401	05/20/2020 23:10	Cindy M Gehman	1
07060	Molybdenum	SW-846 6010C	1	201411404401	05/20/2020 23:10	Cindy M Gehman	1
07061	Nickel	SW-846 6010C	1	201411404401	05/20/2020 23:10	Cindy M Gehman	1
07036	Selenium	SW-846 6010C	1	201411404401	05/20/2020 23:10	Cindy M Gehman	1
07066	Silver	SW-846 6010C	1	201411404401	05/20/2020 23:10	Cindy M Gehman	1
07022	Thallium	SW-846 6010C	1	201411404401	05/20/2020 23:10	Cindy M Gehman	1
07071	Vanadium	SW-846 6010C	1	201411404401	05/20/2020 23:10	Cindy M Gehman	1
07072	Zinc	SW-846 6010C	1	201411404401	05/20/2020 23:10	Cindy M Gehman	1
00259	Mercury	SW-846 7470A	1	201400571301	05/19/2020 11:24	Damary Valentin	1
14044	ICP-WW, 3005A (tot rec) - U345	SW-846 3005A	1	201411404401	05/20/2020 03:49	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	201400571301	05/19/2020 04:03	James L Mertz	1
00228	Sulfate	EPA 300.0	1	20147720109A	05/26/2020 23:35	Kevin Litwa	500
00220	Nitrate Nitrogen	EPA 353.2	1	20140106101B	05/19/2020 11:15	Ashlynn M Cornelius	1
00219	Nitrite Nitrogen	EPA 353.2	2	20138105101A	05/17/2020 07:04	Ashlynn M Cornelius	1
14855	Ferrous Iron	SM 3500-Fe B-2011	1	20139127101A	05/18/2020 11:48	Jonathan Saul	10
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	20139006102A	05/19/2020 02:01	Jeremy L Bolf	1

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Quality Control Summary

Client Name: GES, Inc. Group Number: 2099739
Reported: 06/02/2020 12:07

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: N201472AA	Sample number(s): 1315807-1315809	
Acetone	N.D.	0.8
Benzene	N.D.	0.2
Bromodichloromethane	N.D.	0.2
Bromoform	N.D.	2
Bromomethane	N.D.	0.5
2-Butanone	N.D.	1
Carbon Disulfide	N.D.	0.3
Carbon Tetrachloride	N.D.	0.2
Chlorobenzene	N.D.	0.2
Chloroethane	N.D.	0.3
Chloroform	N.D.	0.2
Chloromethane	N.D.	0.3
Cyclohexane	N.D.	2
1,2-Dibromo-3-chloropropane	N.D.	1
Dibromochloromethane	N.D.	0.4
1,2-Dibromoethane	N.D.	0.3
1,2-Dichlorobenzene	N.D.	0.2
1,3-Dichlorobenzene	N.D.	0.2
1,4-Dichlorobenzene	N.D.	0.2
Dichlorodifluoromethane	N.D.	0.3
1,1-Dichloroethane	N.D.	0.2
1,2-Dichloroethane	N.D.	2
1,1-Dichloroethene	N.D.	0.2
cis-1,2-Dichloroethene	N.D.	0.2
trans-1,2-Dichloroethene	N.D.	0.2
1,2-Dichloropropane	N.D.	0.2
cis-1,3-Dichloropropene	N.D.	0.2
trans-1,3-Dichloropropene	N.D.	0.4
Ethylbenzene	N.D.	0.2
Freon 113	N.D.	2
2-Hexanone	N.D.	3
Isopropylbenzene	N.D.	0.3
Methyl Acetate	N.D.	0.6
Methyl Tertiary Butyl Ether	N.D.	0.2
4-Methyl-2-pentanone	N.D.	0.5
Methylcyclohexane	N.D.	0.2
Methylene Chloride	N.D.	0.2
Styrene	N.D.	0.2
1,1,2,2-Tetrachloroethane	N.D.	0.2

*- 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. Group Number: 2099739
Reported: 06/02/2020 12:07

Method Blank (continued)

Analysis Name	Result	MDL
	ug/l	ug/l
Tetrachloroethene	N.D.	0.2
Toluene	N.D.	0.2
1,2,4-Trichlorobenzene	N.D.	0.4
1,1,1-Trichloroethane	N.D.	0.2
1,1,2-Trichloroethane	N.D.	0.2
Trichloroethene	N.D.	0.2
Trichlorofluoromethane	N.D.	0.4
Vinyl Chloride	N.D.	0.4
Xylene (Total)	N.D.	0.5
Batch number: 20141WAE026	Sample number(s): 1315807-1315809	
Acenaphthene	N.D.	0.1
Acenaphthylene	N.D.	0.1
Acetophenone	N.D.	4
Anthracene	N.D.	0.1
Atrazine	N.D.	2
Benzaldehyde	N.D.	3
Benzo(a)anthracene	N.D.	0.1
Benzo(a)pyrene	N.D.	0.1
Benzo(b)fluoranthene	N.D.	0.1
Benzo(g,h,i)perylene	N.D.	0.1
Benzo(k)fluoranthene	N.D.	0.1
1,1'-Biphenyl	N.D.	3
4-Bromophenyl-phenylether	N.D.	0.5
Butylbenzylphthalate	N.D.	2
Di-n-butylphthalate	N.D.	2
Caprolactam	N.D.	5
Carbazole	N.D.	0.5
4-Chloro-3-methylphenol	N.D.	2
4-Chloroaniline	N.D.	4
bis(2-Chloroethoxy)methane	N.D.	0.5
bis(2-Chloroethyl)ether	N.D.	0.5
2-Chloronaphthalene	N.D.	0.4
2-Chlorophenol	N.D.	0.5
4-Chlorophenyl-phenylether	N.D.	0.5
2,2'-oxybis(1-Chloropropane)	N.D.	0.5
Chrysene	N.D.	0.1
Dibenz(a,h)anthracene	N.D.	0.1
Dibenzofuran	N.D.	0.5
3,3'-Dichlorobenzidine	N.D.	3
2,4-Dichlorophenol	N.D.	0.5
Diethylphthalate	N.D.	2
2,4-Dimethylphenol	N.D.	3
Dimethylphthalate	N.D.	2
4,6-Dinitro-2-methylphenol	N.D.	8

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: GES, Inc.
Reported: 06/02/2020 12:07

Group Number: 2099739

Method Blank (continued)

Analysis Name	Result	MDL
	ug/l	ug/l
2,4-Dinitrophenol	N.D.	14
2,4-Dinitrotoluene	N.D.	1
2,6-Dinitrotoluene	N.D.	0.5
bis(2-Ethylhexyl)phthalate	N.D.	5
Fluoranthene	N.D.	0.1
Fluorene	N.D.	0.1
Hexachlorobenzene	N.D.	0.1
Hexachlorobutadiene	N.D.	0.5
Hexachlorocyclopentadiene	N.D.	5
Hexachloroethane	N.D.	1
Indeno(1,2,3-cd)pyrene	N.D.	0.1
Isophorone	N.D.	0.5
2-Methylnaphthalene	N.D.	0.1
2-Methylphenol	N.D.	0.5
4-Methylphenol	N.D.	0.5
Naphthalene	0.7	0.1
2-Nitroaniline	N.D.	2
3-Nitroaniline	N.D.	3
4-Nitroaniline	N.D.	0.9
Nitrobenzene	N.D.	0.5
2-Nitrophenol	N.D.	3
4-Nitrophenol	N.D.	10
N-Nitroso-di-n-propylamine	N.D.	0.7
N-Nitrosodiphenylamine	N.D.	0.7
Di-n-octylphthalate	N.D.	5
Pentachlorophenol	N.D.	1
Phenanthrene	N.D.	0.1
Phenol	N.D.	0.5
Pyrene	N.D.	0.1
2,4,5-Trichlorophenol	N.D.	0.5
2,4,6-Trichlorophenol	N.D.	0.5
Batch number: 201390002A	Sample number(s): 1315809	
Methane	N.D.	3.0
Batch number: 201410016A	Sample number(s): 1315807-1315809	
DRO C10-C28	N.D.	53
	mg/l	mg/l
Batch number: 201390571304	Sample number(s): 1315807-1315808	
Mercury	N.D.	0.000079
Batch number: 201400571301	Sample number(s): 1315809	
Mercury	N.D.	0.000050
Batch number: 201401404403	Sample number(s): 1315807-1315808	
Antimony	N.D.	0.0160

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Quality Control Summary

Client Name: GES, Inc. Group Number: 2099739
Reported: 06/02/2020 12:07

Method Blank (continued)

Analysis Name	Result	MDL
	mg/l	mg/l
Arsenic	N.D.	0.0160
Barium	N.D.	0.0010
Beryllium	N.D.	0.0010
Cadmium	N.D.	0.0010
Chromium	N.D.	0.0016
Cobalt	N.D.	0.0015
Copper	N.D.	0.0120
Lead	N.D.	0.0071
Molybdenum	N.D.	0.0020
Nickel	N.D.	0.0021
Selenium	N.D.	0.0160
Silver	0.0070 J	0.0050
Thallium	N.D.	0.0081
Vanadium	N.D.	0.0019
Zinc	N.D.	0.0037
Batch number: 201411404401	Sample number(s): 1315809	
Antimony	N.D.	0.0160
Arsenic	N.D.	0.0160
Barium	N.D.	0.0010
Beryllium	N.D.	0.0010
Cadmium	N.D.	0.0010
Chromium	N.D.	0.0016
Cobalt	N.D.	0.0015
Copper	N.D.	0.0120
Lead	N.D.	0.0071
Manganese	N.D.	0.0030
Molybdenum	0.0045 J	0.0020
Nickel	N.D.	0.0021
Selenium	N.D.	0.0160
Silver	N.D.	0.0050
Thallium	N.D.	0.0081
Vanadium	N.D.	0.0019
Zinc	N.D.	0.0037
Batch number: 201471404401	Sample number(s): 1315808	
Silver	N.D.	0.0050
Batch number: 20138105101A	Sample number(s): 1315809	
Nitrite Nitrogen	N.D.	0.015
Batch number: 20139127101A	Sample number(s): 1315809	
Ferrous Iron	N.D.	0.0150
Batch number: 20140106101B	Sample number(s): 1315809	
Nitrate Nitrogen	N.D.	0.040
Batch number: 20147720109A	Sample number(s): 1315807-1315809	

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: GES, Inc.
Reported: 06/02/2020 12:07

Group Number: 2099739

Method Blank (continued)

Analysis Name	Result	MDL
	mg/l	mg/l
Sulfate	N.D.	0.30
	mg/l as CaCO3	mg/l as CaCO3
Batch number: 20139006102A	Sample number(s): 1315807-1315809	
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: N201472AA	Sample number(s): 1315807-1315809								
Acetone	150	207.36			138		54-157		
Benzene	20	19.55			98		80-120		
Bromodichloromethane	20	18.16			91		71-120		
Bromoform	20	19.61			98		51-120		
Bromomethane	20	15.52			78		53-128		
2-Butanone	150	132.36			88		59-135		
Carbon Disulfide	20	18.51			93		65-128		
Carbon Tetrachloride	20	17.9			89		64-134		
Chlorobenzene	20	20.23			101		80-120		
Chloroethane	20	15.19			76		55-123		
Chloroform	20	18.66			93		80-120		
Chloromethane	20	14.07			70		56-121		
Cyclohexane	20	21.59			108		68-126		
1,2-Dibromo-3-chloropropane	20	17.87			89		47-131		
Dibromochloromethane	20	19.78			99		71-120		
1,2-Dibromoethane	20	19.64			98		77-120		
1,2-Dichlorobenzene	20	20.35			102		80-120		
1,3-Dichlorobenzene	20	20.14			101		80-120		
1,4-Dichlorobenzene	20	20.41			102		80-120		
Dichlorodifluoromethane	20	12.85			64		41-127		
1,1-Dichloroethane	20	17.47			87		80-120		
1,2-Dichloroethane	20	17.32			87		73-124		
1,1-Dichloroethene	20	17.7			89		80-131		
cis-1,2-Dichloroethene	20	20.41			102		80-125		
trans-1,2-Dichloroethene	20	17.59			88		80-126		
1,2-Dichloropropane	20	20			100		80-120		
cis-1,3-Dichloropropene	20	18.59			93		75-120		
trans-1,3-Dichloropropene	20	17.88			89		67-120		
Ethylbenzene	20	19.58			98		80-120		

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: GES, Inc. Group Number: 2099739
Reported: 06/02/2020 12:07

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
Freon 113	20	18.58			93		73-139		
2-Hexanone	100	94.79			95		56-135		
Isopropylbenzene	20	20.09			100		80-120		
Methyl Acetate	20	17.31			87		54-136		
Methyl Tertiary Butyl Ether	20	15.18			76		69-122		
4-Methyl-2-pentanone	100	89.18			89		62-133		
Methylcyclohexane	20	20.25			101		67-121		
Methylene Chloride	20	17.04			85		80-120		
Styrene	20	19.95			100		80-120		
1,1,2,2-Tetrachloroethane	20	20.47			102		72-120		
Tetrachloroethene	20	19.71			99		80-120		
Toluene	20	19.87			99		80-120		
1,2,4-Trichlorobenzene	20	19.59			98		63-120		
1,1,1-Trichloroethane	20	17.48			87		67-126		
1,1,2-Trichloroethane	20	20.03			100		80-120		
Trichloroethene	20	18.28			91		80-120		
Trichlorofluoromethane	20	16.15			81		55-135		
Vinyl Chloride	20	14.31			72		56-120		
Xylene (Total)	60	59.92			100		80-120		
	ug/l	**ug/l**	**ug/l**	**ug/l**					
Batch number: 20141WAE026	Sample number(s): 1315807-1315809								
Acenaphthene	50	33.66			67		52-114		
Acenaphthylene	50	34.38			69		56-127		
Acetophenone	50	38.44			77		61-114		
Anthracene	50	39.92			80		67-116		
Atrazine	50	38.14			76		71-133		
Benzaldehyde	50	33.11			66		55-116		
Benzo(a)anthracene	50	42.42			85		68-123		
Benzo(a)pyrene	50	43.18			86		71-117		
Benzo(b)fluoranthene	50	43.32			87		69-121		
Benzo(g,h,i)perylene	50	41.37			83		60-119		
Benzo(k)fluoranthene	50	44.05			88		69-122		
1,1'-Biphenyl	50	30.11			60		56-109		
4-Bromophenyl-phenylether	50	36.07			72		60-114		
Butylbenzylphthalate	50	27.69			55		40-133		
Di-n-butylphthalate	50	36.37			73		58-125		
Caprolactam	50	14.73			29		10-57		
Carbazole	50	42.63			85		64-127		
4-Chloro-3-methylphenol	50	46.9			94		60-118		
4-Chloroaniline	50	36.26			73		45-111		
bis(2-Chloroethoxy)methane	50	39.97			80		63-116		
bis(2-Chloroethyl)ether	50	36.8			74		58-108		
2-Chloronaphthalene	50	27.74			55		51-107		

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: GES, Inc.
Reported: 06/02/2020 12:07

Group Number: 2099739

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
2-Chlorophenol	50	40.94			82		57-105		
4-Chlorophenyl-phenylether	50	34.35			69		57-110		
2,2'-oxybis(1-Chloropropane)	50	39.68			79		48-105		
Chrysene	50	39.67			79		65-121		
Dibenz(a,h)anthracene	50	43.78			88		63-128		
Dibenzofuran	50	35.52			71		60-112		
3,3'-Dichlorobenzidine	50	29.43			59		42-107		
2,4-Dichlorophenol	50	43.5			87		65-110		
Diethylphthalate	50	25.76			52		42-126		
2,4-Dimethylphenol	50	36.25			72		53-93		
Dimethylphthalate	50	10.32			21		10-134		
4,6-Dinitro-2-methylphenol	50	44.04			88		63-129		
2,4-Dinitrophenol	100	91.27			91		44-134		
2,4-Dinitrotoluene	50	40.83			82		66-122		
2,6-Dinitrotoluene	50	41.34			83		71-120		
bis(2-Ethylhexyl)phthalate	50	41.79			84		61-129		
Fluoranthene	50	42.09			84		63-122		
Fluorene	50	38.12			76		56-115		
Hexachlorobenzene	50	37.66			75		60-117		
Hexachlorobutadiene	50	20			40		20-108		
Hexachlorocyclopentadiene	100	7.51			8*		10-91		
Hexachloroethane	50	18.84			38		23-95		
Indeno(1,2,3-cd)pyrene	50	40.42			81		59-123		
Isophorone	50	40.7			81		63-120		
2-Methylnaphthalene	50	28.63			57		51-107		
2-Methylphenol	50	41.46			83		53-107		
4-Methylphenol	50	43.34			87		49-108		
Naphthalene	50	30.29			61		51-102		
2-Nitroaniline	50	42.35			85		66-126		
3-Nitroaniline	50	40.68			81		55-121		
4-Nitroaniline	50	36.12			72		55-113		
Nitrobenzene	50	38.83			78		59-109		
2-Nitrophenol	50	42.95			86		63-111		
4-Nitrophenol	50	34.57			69		23-89		
N-Nitroso-di-n-propylamine	50	40.45			81		58-120		
N-Nitrosodiphenylamine	50	39.73			79		60-126		
Di-n-octylphthalate	50	43.94			88		60-136		
Pentachlorophenol	50	43.03			86		54-131		
Phenanthrene	50	39.65			79		65-113		
Phenol	50	29.45			59		19-79		
Pyrene	50	40.55			81		65-115		
2,4,5-Trichlorophenol	50	46.33			93		66-118		
2,4,6-Trichlorophenol	50	45.81			92		69-117		

*- 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. Group Number: 2099739
Reported: 06/02/2020 12:07

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: 201390002A	Sample number(s): 1315809								
Methane	59.42	67.11			113		85-115		
	ug/l	**ug/l**	**ug/l**	**ug/l**					
Batch number: 201410016A	Sample number(s): 1315807-1315809								
DRO C10-C28	2857.87	1958.79			69		47-116		
	mg/l	**mg/l**	**mg/l**	**mg/l**					
Batch number: 201390571304	Sample number(s): 1315807-1315808								
Mercury	0.00100	0.000835			83		80-110		
Batch number: 201400571301	Sample number(s): 1315809								
Mercury	0.00100	0.000891			89		80-110		
Batch number: 201401404403	Sample number(s): 1315807-1315808								
Antimony	0.100	0.104			104		80-120		
Arsenic	0.0600	0.0598			100		80-120		
Barium	0.0100	0.00973			97		80-120		
Beryllium	0.0100	0.00954			95		80-120		
Cadmium	0.0100	0.0101			101		80-120		
Chromium	0.0300	0.0292			97		80-120		
Cobalt	0.0100	0.0101			101		80-120		
Copper	0.0400	0.0414			104		80-120		
Lead	0.0300	0.0283			94		80-120		
Molybdenum	0.0200	0.0206			103		80-120		
Nickel	2.02	2.04			101		80-120		
Selenium	0.100	0.0949			95		80-120		
Silver	0.0200	0.0268			134*		80-120		
Thallium	0.0600	0.0620			103		80-120		
Vanadium	0.0200	0.0206			103		80-120		
Zinc	0.440	0.427			97		80-120		
Batch number: 201411404401	Sample number(s): 1315809								
Antimony	0.100	0.104			104		80-120		
Arsenic	0.0600	0.0599			100		80-120		
Barium	0.0100	0.0101			101		80-120		
Beryllium	0.0100	0.00972			97		80-120		
Cadmium	0.0100	0.0102			102		80-120		
Chromium	0.0300	0.0292			97		80-120		
Cobalt	0.0100	0.0110			110		80-120		
Copper	0.0400	0.0394			98		80-120		
Lead	0.0300	0.0296			99		80-120		
Manganese	0.0200	0.0202			101		80-120		
Molybdenum	0.0200	0.0226			113		80-120		
Nickel	2.02	2.11			105		80-120		

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: GES, Inc. Group Number: 2099739
Reported: 06/02/2020 12:07

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
Selenium	0.100	0.0984			98		80-120		
Silver	0.0200	0.0203			101		80-120		
Thallium	0.0600	0.0620			103		80-120		
Vanadium	0.0200	0.0200			100		80-120		
Zinc	0.440	0.441			100		80-120		
Batch number: 201471404401	Sample number(s): 1315808								
Silver	0.0200	0.0210			105		80-120		
	mg/l	**mg/l**	**mg/l**	**mg/l**					
Batch number: 20138105101A	Sample number(s): 1315809								
Nitrite Nitrogen	0.700	0.757			108		90-110		
Batch number: 20139127101A	Sample number(s): 1315809								
Ferrous Iron	1.00	0.931			93		90-110		
Batch number: 20140106101B	Sample number(s): 1315809								
Nitrate Nitrogen	2.50	2.68			107		90-110		
Batch number: 20147720109A	Sample number(s): 1315807-1315809								
Sulfate	7.50	8.03			107		90-110		
	mg/l as CaCO3	**mg/l as CaCO3**	**mg/l as CaCO3**	**mg/l as CaCO3**					
Batch number: 20139006102A	Sample number(s): 1315807-1315809								
Total Alkalinity to pH 4.5	188	169.03			90		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: 201400571301	Sample number(s): 1315809 UNSPK: 1315809									
Mercury	N.D.	0.00100	0.000937	0.00100	0.000920	94	92	80-120	2	20

Laboratory Duplicate

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

*- 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. Group Number: 2099739
Reported: 06/02/2020 12:07

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: 201400571301	Sample number(s): 1315809 BKG: 1315809			
Mercury	N.D.	N.D.	0 (1)	20

Surrogate Quality Control

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

Analysis Name: TCL 4.3 VOCs
Batch number: N201472AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
1315807	107	112	113	94
1315808	95	93	102	92
1315809	96	100	102	93
Blank	98	99	101	91
LCS	96	98	102	93
Limits:	80-120	80-120	80-120	80-120

Analysis Name: TCL 4.3 SVOCs
Batch number: 20141WAE026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
1315807	44	49	73	1*	62	63
1315808	36	33	62	77	71	81
1315809	12	16	46	83	78	97
Blank	39	52	86	77	58	90
LCS	48	59	82	74	67	88
Limits:	10-67	10-84	18-141	38-113	44-102	34-128

Analysis Name: Methane
Batch number: 201390002A

	Propene
1315809	82
Blank	113
LCS	111
Limits:	28-140

Analysis Name: DRO micro-ext 8015B
Batch number: 201410016A

*- 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. Group Number: 2099739
Reported: 06/02/2020 12:07

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: 201410016A

	Orthoterphenyl
1315807	70
1315808	92
1315809	87
Blank	85
LCS	81
Limits:	52-132

*- 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 # 2099739 Sample # 1315807-09

Client: **Groundwater & Env. Services, Inc.**

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

Sample Identification	Collection Date	Collection Time	Grab	Composite	Matrix: Soil	Sediment	Water: Potable	Ground	NPDES	Surface	Other:	Total # of Containers	TPH-DRO C-10-28 (SW-846 8015B) H	Alkalinity (SM 2320B) -	Nitrate NO3 -1 & Nitrite NO-2(EPA 353.2) -/S	Manganese (6010) N	Ferrous Iron Fe2+ (SM 3500-Fe B modified-1997) H	Sulfate SO4 2- (EPA 300.0) -	Methane (RSKSOP-175 modified) H	Full Suite VOCs (8260) H	SVOCs (8270) -	Title 22 Metals (6010) N	Mercury (7470) N
RW-116S	5-14-2020	9:42	X				X					10	X	X				X		X	X	X	X
RW-119S	↓	11:02	X				X					10	X	X				X		X	X	X	X
MW-106	↓	12:52	X				X					16	X	X	X	X	X	X	X	X	X	X	X

Analyses Requested — Preservation Codes

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

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

Remarks

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

Date results are needed:

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

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

Phone:

Data Package Options (please check if required)

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

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

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	5-14-2020	15:30	Denise Woodring	5-15-20	0900
Denise Woodring	5-15-20	1054	[signature]	5-15-20	10:54
[signature]	5-15-20	1745			
			[signature]	5-15-20	1750

Relinquished by Commercial Carrier:

UPS _____ FedEx _____ Other _____

Temperature upon receipt 0.8-1.0 °C

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7045 0614

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Sample Administration Receipt Documentation Log

Doc Log ID: 284656

Group Number(s): 2099739

Client: GES

Delivery and Receipt Information

Delivery Method:	ELLE Courier	Arrival Date:	05/15/2020
Number of Packages:	2	Number of Projects:	3
State/Province of Origin:	VA		

Arrival Condition Summary

Shipping Container Sealed:	No	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	No	Sample Date/Times match COC:	Yes
Samples Chilled:	Yes	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

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	DT42-01	0.8	DT	Wet	Y	Loose	N
2	Water	DT42-01	1.0	DT	Wet	Y	Loose	N

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Lancaster, PA 17605-2425

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Explanation of Symbols and Abbreviations

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

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

<	less than
>	greater than
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.
ppb	parts per billion
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

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

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

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

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

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

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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 less than the LOQ
K2	Continuing Calibration Blank is above the QC limit and the sample result is less than the LOQ
K3	Initial Calibration Verification is above the QC limit and the sample result is less than the LOQ
K4	Continuing Calibration Verification is above the QC limit and the sample result is less than the LOQ
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: June 04, 2020 09:19

Project: NRG PRGS

Account #: 08390
Group Number: 2099740
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-10S Grab Groundwater	05/14/2020 09:40	1315810
MW-25S Grab Groundwater	05/14/2020 10:50	1315811
MW/RW-14 Grab Groundwater	05/14/2020 12:00	1315812
RW-118S Grab Groundwater	05/14/2020 12:40	1315813

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

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/15/2020 17:50
Collection Date/Time: 05/14/2020 09:40

GES, Inc.
ELLE Sample #: RW 1315810
ELLE Group #: 2099740
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acetone	67-64-1	4 J	4	5
10335	Benzene	71-43-2	N.D.	1	5
10335	Bromodichloromethane	75-27-4	N.D.	1	5
10335	Bromoform	75-25-2	N.D.	10	5
10335	Bromomethane	74-83-9	N.D.	3	5
10335	2-Butanone	78-93-3	N.D.	5	5
10335	Carbon Disulfide	75-15-0	N.D.	2	5
10335	Carbon Tetrachloride	56-23-5	N.D.	1	5
10335	Chlorobenzene	108-90-7	N.D.	1	5
10335	Chloroethane	75-00-3	N.D.	2	5
10335	Chloroform	67-66-3	N.D.	1	5
10335	Chloromethane	74-87-3	N.D.	2	5
10335	Cyclohexane	110-82-7	N.D.	10	5
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	5	5
10335	Dibromochloromethane	124-48-1	N.D.	2	5
10335	1,2-Dibromoethane	106-93-4	N.D.	2	5
10335	1,2-Dichlorobenzene	95-50-1	N.D.	1	5
10335	1,3-Dichlorobenzene	541-73-1	N.D.	1	5
10335	1,4-Dichlorobenzene	106-46-7	N.D.	1	5
10335	Dichlorodifluoromethane	75-71-8	N.D.	2	5
10335	1,1-Dichloroethane	75-34-3	N.D.	1	5
10335	1,2-Dichloroethane	107-06-2	N.D.	10	5
10335	1,1-Dichloroethene	75-35-4	N.D.	1	5
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	1	5
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	1	5
10335	1,2-Dichloropropane	78-87-5	N.D.	1	5
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	5
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	2	5
10335	Ethylbenzene	100-41-4	N.D.	1	5
10335	Freon 113	76-13-1	N.D.	10	5
10335	2-Hexanone	591-78-6	N.D.	15	5
10335	Isopropylbenzene	98-82-8	N.D.	2	5
10335	Methyl Acetate	79-20-9	N.D.	3	5
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	1	5
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	5
10335	Methylcyclohexane	108-87-2	N.D.	1	5
10335	Methylene Chloride	75-09-2	N.D.	1	5
10335	Styrene	100-42-5	N.D.	1	5
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	5
10335	Tetrachloroethene	127-18-4	N.D.	1	5
10335	Toluene	108-88-3	N.D.	1	5
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	2	5
10335	1,1,1-Trichloroethane	71-55-6	N.D.	1	5
10335	1,1,2-Trichloroethane	79-00-5	N.D.	1	5
10335	Trichloroethene	79-01-6	N.D.	1	5
10335	Trichlorofluoromethane	75-69-4	N.D.	2	5
10335	Vinyl Chloride	75-01-4	N.D.	2	5
10335	Xylene (Total)	1330-20-7	N.D.	3	5

Reporting limits were raised due to sample foaming.

GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/15/2020 17:50
Collection Date/Time: 05/14/2020 09:40

GES, Inc.
ELLE Sample #: RW 1315810
ELLE Group #: 2099740
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	
14242	Acenaphthene	83-32-9	N.D.	0.1	1
14242	Acenaphthylene	208-96-8	N.D.	0.1	1
14242	Acetophenone	98-86-2	N.D.	4	1
14242	Anthracene	120-12-7	N.D.	0.1	1
14242	Atrazine	1912-24-9	N.D.	2	1
14242	Benzaldehyde	100-52-7	N.D.	3	1
14242	Benzo(a)anthracene	56-55-3	N.D.	0.1	1
14242	Benzo(a)pyrene	50-32-8	N.D.	0.1	1
14242	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	1
14242	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	1
14242	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	1
14242	1,1'-Biphenyl	92-52-4	N.D.	3	1
14242	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	1
14242	Butylbenzylphthalate	85-68-7	N.D.	2	1
14242	Di-n-butylphthalate	84-74-2	N.D.	2	1
14242	Caprolactam	105-60-2	N.D.	5	1
14242	Carbazole	86-74-8	N.D.	0.5	1
14242	4-Chloro-3-methylphenol	59-50-7	N.D.	2	1
14242	4-Chloroaniline	106-47-8	N.D.	4	1
14242	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	1
14242	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	1
14242	2-Chloronaphthalene	91-58-7	N.D.	0.4	1
14242	2-Chlorophenol	95-57-8	N.D.	0.5	1
14242	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	1
14242	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	0.5	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.				
14242	Chrysene	218-01-9	N.D.	0.1	1
14242	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	1
14242	Dibenzofuran	132-64-9	N.D.	0.5	1
14242	3,3'-Dichlorobenzidine	91-94-1	N.D.	3	1
14242	2,4-Dichlorophenol	120-83-2	N.D.	0.5	1
14242	Diethylphthalate	84-66-2	N.D.	2	1
14242	2,4-Dimethylphenol	105-67-9	N.D.	3	1
14242	Dimethylphthalate	131-11-3	N.D.	2	1
14242	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	8	1
14242	2,4-Dinitrophenol	51-28-5	N.D.	14	1
14242	2,4-Dinitrotoluene	121-14-2	N.D.	1	1
14242	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	1
14242	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	5	1
14242	Fluoranthene	206-44-0	N.D.	0.1	1
14242	Fluorene	86-73-7	N.D.	0.1	1
14242	Hexachlorobenzene	118-74-1	N.D.	0.1	1
14242	Hexachlorobutadiene	87-68-3	N.D.	0.5	1
14242	Hexachlorocyclopentadiene	77-47-4	N.D.	5	1
14242	Hexachloroethane	67-72-1	N.D.	1	1
14242	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	1
14242	Isophorone	78-59-1	N.D.	0.5	1
14242	2-Methylnaphthalene	91-57-6	N.D.	0.1	1

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/15/2020 17:50
Collection Date/Time: 05/14/2020 09:40

GES, Inc.
ELLE Sample #: RW 1315810
ELLE Group #: 2099740
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	
14242	2-Methylphenol	95-48-7	1 J	0.5	1
14242	4-Methylphenol	106-44-5	N.D.	0.5	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.				
14242	Naphthalene	91-20-3	N.D.	0.1	1
14242	2-Nitroaniline	88-74-4	N.D.	2	1
14242	3-Nitroaniline	99-09-2	N.D.	3	1
14242	4-Nitroaniline	100-01-6	N.D.	0.9	1
14242	Nitrobenzene	98-95-3	N.D.	0.5	1
14242	2-Nitrophenol	88-75-5	N.D.	3	1
14242	4-Nitrophenol	100-02-7	N.D.	10	1
14242	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.7	1
14242	N-Nitrosodiphenylamine	86-30-6	N.D.	0.7	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.				
14242	Di-n-octylphthalate	117-84-0	N.D.	5	1
14242	Pentachlorophenol	87-86-5	N.D.	1	1
14242	Phenanthrene	85-01-8	N.D.	0.1	1
14242	Phenol	108-95-2	N.D.	0.5	1
14242	Pyrene	129-00-0	N.D.	0.1	1
14242	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	1
14242	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	1
GC Miscellaneous	**RSKSOP-175 modified**		**ug/l**	**ug/l**	
07105	Methane	74-82-8	110	3.0	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	17,000	53	1
Metals	**SW-846 6010C**		**mg/l**	**mg/l**	
07044	Antimony	7440-36-0	N.D.	0.0160	1
07035	Arsenic	7440-38-2	N.D.	0.0160	1
07046	Barium	7440-39-3	0.0971	0.0010	1
07047	Beryllium	7440-41-7	N.D.	0.0010	1
07049	Cadmium	7440-43-9	N.D.	0.0010	1
07051	Chromium	7440-47-3	0.0019 J	0.0016	1
07052	Cobalt	7440-48-4	0.0633	0.0015	1
07053	Copper	7440-50-8	N.D.	0.0120	1
07055	Lead	7439-92-1	0.0164	0.0071	1
07058	Manganese	7439-96-5	5.27	0.0030	1
07060	Molybdenum	7439-98-7	N.D. K2	0.0020	1
07061	Nickel	7440-02-0	0.0164	0.0021	1
07036	Selenium	7782-49-2	N.D.	0.0160	1
07066	Silver	7440-22-4	N.D.	0.0050	1
07022	Thallium	7440-28-0	N.D.	0.0081	1
07071	Vanadium	7440-62-2	0.0116	0.0019	1
07072	Zinc	7440-66-6	N.D.	0.0037	1

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/15/2020 17:50
Collection Date/Time: 05/14/2020 09:40

GES, Inc.
ELLE Sample #: RW 1315810
ELLE Group #: 2099740
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Metals	**SW-846 7470A**		**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000079	1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	
00228	Sulfate	14808-79-8	467	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
	This sample was analyzed with an out of spec LCS. It was repeated, out of hold on 5/17/20 with a result of 0.067 mg/l.				
	SM 3500-Fe B-2011		**mg/l**	**mg/l**	
14855	Ferrous Iron[1]	n.a.	197	3.00	200
	SM 2320 B-2011		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5	n.a.	226	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
10335	TCL 4.3 VOCs	SW-846 8260B	1	N201481AA	05/27/2020 12:58	Corie Mellinger	5
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N201481AA	05/27/2020 12:57	Corie Mellinger	5
14242	TCL 4.3 SVOCs	SW-846 8270D	1	20141WAE026	05/25/2020 12:29	Linda M Hartenstine	1
00813	BNA Water Extraction	SW-846 3510C	1	20141WAE026	05/21/2020 08:27	Christine E Gleim	1
07105	Methane	RSKSOP-175 modified	1	201390002A	05/18/2020 17:13	Johanna C Kennedy	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	201410016A	05/22/2020 09:31	Bridget Kovacs	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	201410016A	05/21/2020 12:01	Logan M Brosemer	1
07044	Antimony	SW-846 6010C	1	201411404401	05/20/2020 22:33	Cindy M Gehman	1
07035	Arsenic	SW-846 6010C	1	201411404401	05/20/2020 22:33	Cindy M Gehman	1
07046	Barium	SW-846 6010C	1	201411404401	05/20/2020 22:33	Cindy M Gehman	1
07047	Beryllium	SW-846 6010C	1	201411404401	05/20/2020 22:33	Cindy M Gehman	1
07049	Cadmium	SW-846 6010C	1	201411404401	05/20/2020 22:33	Cindy M Gehman	1
07051	Chromium	SW-846 6010C	1	201411404401	05/20/2020 22:33	Cindy M Gehman	1
07052	Cobalt	SW-846 6010C	1	201411404401	05/20/2020 22:33	Cindy M Gehman	1
07053	Copper	SW-846 6010C	1	201411404401	05/20/2020 22:33	Cindy M Gehman	1
07055	Lead	SW-846 6010C	1	201411404401	05/20/2020 22:33	Cindy M Gehman	1
07058	Manganese	SW-846 6010C	1	201411404401	05/20/2020 22:33	Cindy M Gehman	1
07060	Molybdenum	SW-846 6010C	1	201411404401	05/20/2020 22:33	Cindy M Gehman	1
07061	Nickel	SW-846 6010C	1	201411404401	05/20/2020 22:33	Cindy M Gehman	1
07036	Selenium	SW-846 6010C	1	201411404401	05/20/2020 22:33	Cindy M Gehman	1
07066	Silver	SW-846 6010C	1	201411404401	05/20/2020 22:33	Cindy M Gehman	1
07022	Thallium	SW-846 6010C	1	201411404401	05/20/2020 22:33	Cindy M Gehman	1

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/15/2020 17:50
Collection Date/Time: 05/14/2020 09:40

GES, Inc.
ELLE Sample #: RW 1315810
ELLE Group #: 2099740
Matrix: Groundwater

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07071	Vanadium	SW-846 6010C	1	201411404401	05/20/2020 22:33	Cindy M Gehman	1
07072	Zinc	SW-846 6010C	1	201411404401	05/20/2020 22:33	Cindy M Gehman	1
00259	Mercury	SW-846 7470A	1	201410571301	05/28/2020 12:35	Christina Termini	1
14044	ICP-WW, 3005A (tot rec) - U345	SW-846 3005A	1	201411404401	05/20/2020 03:49	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	201410571301	05/28/2020 02:30	James L Mertz	1
00228	Sulfate	EPA 300.0	1	20147720109A	05/26/2020 23:54	Kevin Litwa	200
00220	Nitrate Nitrogen	EPA 353.2	1	20140106101B	05/19/2020 11:17	Ashlynn M Cornelius	1
00219	Nitrite Nitrogen	EPA 353.2	1	20137105101A	05/16/2020 06:51	Ashlynn M Cornelius	1
14855	Ferrous Iron	SM 3500-Fe B-2011	1	20139127101A	05/18/2020 12:34	Jonathan Saul	200
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	20139006102A	05/19/2020 01:33	Jeremy L Bolf	1

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/15/2020 17:50
Collection Date/Time: 05/14/2020 10:50

GES, Inc.
ELLE Sample #: RW 1315811
ELLE Group #: 2099740
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acetone	67-64-1	N.D.	4	5
10335	Benzene	71-43-2	1 J	1	5
10335	Bromodichloromethane	75-27-4	N.D.	1	5
10335	Bromoform	75-25-2	N.D.	10	5
10335	Bromomethane	74-83-9	N.D.	3	5
10335	2-Butanone	78-93-3	N.D.	5	5
10335	Carbon Disulfide	75-15-0	N.D.	2	5
10335	Carbon Tetrachloride	56-23-5	N.D.	1	5
10335	Chlorobenzene	108-90-7	N.D.	1	5
10335	Chloroethane	75-00-3	N.D.	2	5
10335	Chloroform	67-66-3	N.D.	1	5
10335	Chloromethane	74-87-3	N.D.	2	5
10335	Cyclohexane	110-82-7	N.D.	10	5
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	5	5
10335	Dibromochloromethane	124-48-1	N.D.	2	5
10335	1,2-Dibromoethane	106-93-4	N.D.	2	5
10335	1,2-Dichlorobenzene	95-50-1	N.D.	1	5
10335	1,3-Dichlorobenzene	541-73-1	N.D.	1	5
10335	1,4-Dichlorobenzene	106-46-7	N.D.	1	5
10335	Dichlorodifluoromethane	75-71-8	N.D.	2	5
10335	1,1-Dichloroethane	75-34-3	N.D.	1	5
10335	1,2-Dichloroethane	107-06-2	N.D.	10	5
10335	1,1-Dichloroethene	75-35-4	N.D.	1	5
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	1	5
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	1	5
10335	1,2-Dichloropropane	78-87-5	N.D.	1	5
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	5
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	2	5
10335	Ethylbenzene	100-41-4	N.D.	1	5
10335	Freon 113	76-13-1	N.D.	10	5
10335	2-Hexanone	591-78-6	N.D.	15	5
10335	Isopropylbenzene	98-82-8	N.D.	2	5
10335	Methyl Acetate	79-20-9	N.D.	3	5
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	1	5
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	5
10335	Methylcyclohexane	108-87-2	N.D.	1	5
10335	Methylene Chloride	75-09-2	N.D.	1	5
10335	Styrene	100-42-5	N.D.	1	5
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	5
10335	Tetrachloroethene	127-18-4	N.D.	1	5
10335	Toluene	108-88-3	N.D.	1	5
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	2	5
10335	1,1,1-Trichloroethane	71-55-6	N.D.	1	5
10335	1,1,2-Trichloroethane	79-00-5	N.D.	1	5
10335	Trichloroethene	79-01-6	N.D.	1	5
10335	Trichlorofluoromethane	75-69-4	N.D.	2	5
10335	Vinyl Chloride	75-01-4	N.D.	2	5
10335	Xylene (Total)	1330-20-7	N.D.	3	5

Reporting limits were raised due to sample foaming.

GC/MS Semivolatiles	**SW-846 8270D**	**ug/l**	**ug/l**	

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/15/2020 17:50
Collection Date/Time: 05/14/2020 10:50

GES, Inc.
ELLE Sample #: RW 1315811
ELLE Group #: 2099740
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	
14242	Acenaphthene	83-32-9	N.D.	0.1	1
14242	Acenaphthylene	208-96-8	N.D.	0.1	1
14242	Acetophenone	98-86-2	N.D.	4	1
14242	Anthracene	120-12-7	N.D.	0.1	1
14242	Atrazine	1912-24-9	N.D.	2	1
14242	Benzaldehyde	100-52-7	N.D.	3	1
14242	Benzo(a)anthracene	56-55-3	N.D.	0.1	1
14242	Benzo(a)pyrene	50-32-8	N.D.	0.1	1
14242	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	1
14242	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	1
14242	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	1
14242	1,1'-Biphenyl	92-52-4	N.D.	3	1
14242	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	1
14242	Butylbenzylphthalate	85-68-7	N.D.	2	1
14242	Di-n-butylphthalate	84-74-2	N.D.	2	1
14242	Caprolactam	105-60-2	N.D.	5	1
14242	Carbazole	86-74-8	N.D.	0.5	1
14242	4-Chloro-3-methylphenol	59-50-7	N.D.	2	1
14242	4-Chloroaniline	106-47-8	N.D.	4	1
14242	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	1
14242	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	1
14242	2-Chloronaphthalene	91-58-7	N.D.	0.4	1
14242	2-Chlorophenol	95-57-8	N.D.	0.5	1
14242	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	1
14242	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	0.5	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.				
14242	Chrysene	218-01-9	N.D.	0.1	1
14242	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	1
14242	Dibenzofuran	132-64-9	N.D.	0.5	1
14242	3,3'-Dichlorobenzidine	91-94-1	N.D.	3	1
14242	2,4-Dichlorophenol	120-83-2	N.D.	0.5	1
14242	Diethylphthalate	84-66-2	N.D.	2	1
14242	2,4-Dimethylphenol	105-67-9	N.D.	3	1
14242	Dimethylphthalate	131-11-3	N.D.	2	1
14242	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	8	1
14242	2,4-Dinitrophenol	51-28-5	N.D.	15	1
14242	2,4-Dinitrotoluene	121-14-2	N.D.	1	1
14242	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	1
14242	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	5	1
14242	Fluoranthene	206-44-0	N.D.	0.1	1
14242	Fluorene	86-73-7	N.D.	0.1	1
14242	Hexachlorobenzene	118-74-1	N.D.	0.1	1
14242	Hexachlorobutadiene	87-68-3	N.D.	0.5	1
14242	Hexachlorocyclopentadiene	77-47-4	N.D.	5	1
14242	Hexachloroethane	67-72-1	N.D.	1	1
14242	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	1
14242	Isophorone	78-59-1	N.D.	0.5	1
14242	2-Methylnaphthalene	91-57-6	N.D.	0.1	1

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/15/2020 17:50
Collection Date/Time: 05/14/2020 10:50

GES, Inc.
ELLE Sample #: RW 1315811
ELLE Group #: 2099740
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	
14242	2-Methylphenol	95-48-7	N.D.	0.5	1
14242	4-Methylphenol	106-44-5	N.D.	0.5	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.				
14242	Naphthalene	91-20-3	N.D.	0.1	1
14242	2-Nitroaniline	88-74-4	N.D.	2	1
14242	3-Nitroaniline	99-09-2	N.D.	3	1
14242	4-Nitroaniline	100-01-6	N.D.	0.9	1
14242	Nitrobenzene	98-95-3	N.D.	0.5	1
14242	2-Nitrophenol	88-75-5	N.D.	3	1
14242	4-Nitrophenol	100-02-7	N.D.	11	1
14242	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.7	1
14242	N-Nitrosodiphenylamine	86-30-6	N.D.	0.7	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.				
14242	Di-n-octylphthalate	117-84-0	N.D.	5	1
14242	Pentachlorophenol	87-86-5	N.D.	1	1
14242	Phenanthrene	85-01-8	N.D.	0.1	1
14242	Phenol	108-95-2	N.D.	0.5	1
14242	Pyrene	129-00-0	0.9	0.1	1
14242	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	1
14242	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	1
	The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following action was taken: The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the first trial.				
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	14,000	53	1
Metals	**SW-846 6010C**		**mg/l**	**mg/l**	
07044	Antimony	7440-36-0	N.D.	0.0160	1
07035	Arsenic	7440-38-2	N.D.	0.0160	1
07046	Barium	7440-39-3	0.204	0.0010	1
07047	Beryllium	7440-41-7	N.D.	0.0010	1
07049	Cadmium	7440-43-9	0.0016 J	0.0010	1
07051	Chromium	7440-47-3	N.D.	0.0016	1
07052	Cobalt	7440-48-4	0.0182	0.0015	1
07053	Copper	7440-50-8	N.D.	0.0120	1
07055	Lead	7439-92-1	N.D.	0.0071	1
07060	Molybdenum	7439-98-7	N.D.	0.0020	1
07061	Nickel	7440-02-0	0.0141	0.0021	1
07036	Selenium	7782-49-2	N.D.	0.0160	1
07066	Silver	7440-22-4	N.D.	0.0050	1
07022	Thallium	7440-28-0	N.D.	0.0081	1
07071	Vanadium	7440-62-2	0.0074 J	0.0019	1

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/15/2020 17:50
Collection Date/Time: 05/14/2020 10:50

GES, Inc.
ELLE Sample #: RW 1315811
ELLE Group #: 2099740
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Metals		**SW-846 6010C**	**mg/l**	**mg/l**	
07072	Zinc	7440-66-6	0.114	0.0037	1
		SW-846 7470A	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000079	1
Wet Chemistry		**SM 2320 B-2011**	**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5	n.a.	320	2.6	1

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	TCL 4.3 VOCs	SW-846 8260B	1	N201481AA	05/27/2020 13:20	Corie Mellinger	5
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N201481AA	05/27/2020 13:19	Corie Mellinger	5
14242	TCL 4.3 SVOCs	SW-846 8270D	1	20141WAE026	05/25/2020 12:58	Linda M Hartenstine	1
00813	BNA Water Extraction	SW-846 3510C	1	20141WAE026	05/21/2020 08:27	Christine E Gleim	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	201410016A	05/22/2020 10:42	Bridget Kovacs	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	201410016A	05/21/2020 12:01	Logan M Brosemer	1
07044	Antimony	SW-846 6010C	1	201401404403	05/22/2020 16:56	Christina Termini	1
07035	Arsenic	SW-846 6010C	1	201401404403	05/22/2020 16:56	Christina Termini	1
07046	Barium	SW-846 6010C	1	201401404403	05/22/2020 16:56	Christina Termini	1
07047	Beryllium	SW-846 6010C	1	201401404403	05/22/2020 16:56	Christina Termini	1
07049	Cadmium	SW-846 6010C	1	201401404403	05/22/2020 16:56	Christina Termini	1
07051	Chromium	SW-846 6010C	1	201401404403	05/22/2020 16:56	Christina Termini	1
07052	Cobalt	SW-846 6010C	1	201401404403	05/22/2020 16:56	Christina Termini	1
07053	Copper	SW-846 6010C	1	201401404403	05/22/2020 16:56	Christina Termini	1
07055	Lead	SW-846 6010C	1	201401404403	05/22/2020 16:56	Christina Termini	1
07060	Molybdenum	SW-846 6010C	1	201401404403	05/22/2020 16:56	Christina Termini	1
07061	Nickel	SW-846 6010C	1	201401404403	05/22/2020 16:56	Christina Termini	1
07036	Selenium	SW-846 6010C	1	201401404403	05/22/2020 16:56	Christina Termini	1
07066	Silver	SW-846 6010C	1	201471404401	05/27/2020 20:48	Cindy M Gehman	1
07022	Thallium	SW-846 6010C	1	201401404403	05/22/2020 16:56	Christina Termini	1
07071	Vanadium	SW-846 6010C	1	201401404403	05/22/2020 16:56	Christina Termini	1
07072	Zinc	SW-846 6010C	1	201401404403	05/22/2020 16:56	Christina Termini	1
00259	Mercury	SW-846 7470A	1	201390571304	05/22/2020 05:12	Damary Valentin	1
14044	ICP-WW, 3005A (tot rec) - U345	SW-846 3005A	1	201401404403	05/21/2020 03:39	James L Mertz	1
14044	ICP-WW, 3005A (tot rec) - U345	SW-846 3005A	2	201471404401	05/27/2020 02:55	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	201390571304	05/21/2020 17:50	JoElla L Rice	1
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	20139006102A	05/19/2020 01:27	Jeremy L Bolf	1

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/15/2020 17:50
Collection Date/Time: 05/14/2020 12:00

GES, Inc.
ELLE Sample #: RW 1315812
ELLE Group #: 2099740
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	
10335	Acetone	67-64-1	N.D.		0.8	1
10335	Benzene	71-43-2	N.D.		0.2	1
10335	Bromodichloromethane	75-27-4	N.D.		0.2	1
10335	Bromoform	75-25-2	N.D.		2	1
10335	Bromomethane	74-83-9	N.D.		0.5	1
10335	2-Butanone	78-93-3	N.D.		1	1
10335	Carbon Disulfide	75-15-0	N.D.		0.3	1
10335	Carbon Tetrachloride	56-23-5	N.D.		0.2	1
10335	Chlorobenzene	108-90-7	N.D.		0.2	1
10335	Chloroethane	75-00-3	N.D.		0.3	1
10335	Chloroform	67-66-3	N.D.		0.2	1
10335	Chloromethane	74-87-3	N.D.		0.3	1
10335	Cyclohexane	110-82-7	N.D.		2	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.		1	1
10335	Dibromochloromethane	124-48-1	N.D.		0.4	1
10335	1,2-Dibromoethane	106-93-4	N.D.		0.3	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.		0.2	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.		0.2	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.		0.2	1
10335	Dichlorodifluoromethane	75-71-8	N.D.		0.3	1
10335	1,1-Dichloroethane	75-34-3	N.D.		0.2	1
10335	1,2-Dichloroethane	107-06-2	N.D.		2	1
10335	1,1-Dichloroethene	75-35-4	N.D.		0.2	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.		0.2	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.		0.2	1
10335	1,2-Dichloropropane	78-87-5	N.D.		0.2	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.		0.2	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.		0.4	1
10335	Ethylbenzene	100-41-4	N.D.		0.2	1
10335	Freon 113	76-13-1	N.D.		2	1
10335	2-Hexanone	591-78-6	N.D.		3	1
10335	Isopropylbenzene	98-82-8	N.D.		0.3	1
10335	Methyl Acetate	79-20-9	N.D.		0.6	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.		0.2	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.		0.5	1
10335	Methylcyclohexane	108-87-2	N.D.		0.2	1
10335	Methylene Chloride	75-09-2	N.D.		0.2	1
10335	Styrene	100-42-5	N.D.		0.2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		0.2	1
10335	Tetrachloroethene	127-18-4	N.D.		0.2	1
10335	Toluene	108-88-3	0.5	J	0.2	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.		0.4	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.		0.2	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.		0.2	1
10335	Trichloroethene	79-01-6	N.D.		0.2	1
10335	Trichlorofluoromethane	75-69-4	N.D.		0.4	1
10335	Vinyl Chloride	75-01-4	N.D.		0.4	1
10335	Xylene (Total)	1330-20-7	N.D.		0.5	1
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**		**ug/l**	

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/15/2020 17:50
Collection Date/Time: 05/14/2020 12:00

GES, Inc.
ELLE Sample #: RW 1315812
ELLE Group #: 2099740
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	
14242	Acenaphthene	83-32-9	N.D.	0.1	1
14242	Acenaphthylene	208-96-8	N.D.	0.1	1
14242	Acetophenone	98-86-2	N.D.	4	1
14242	Anthracene	120-12-7	N.D.	0.1	1
14242	Atrazine	1912-24-9	N.D.	2	1
14242	Benzaldehyde	100-52-7	N.D.	3	1
14242	Benzo(a)anthracene	56-55-3	N.D.	0.1	1
14242	Benzo(a)pyrene	50-32-8	N.D.	0.1	1
14242	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	1
14242	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	1
14242	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	1
14242	1,1'-Biphenyl	92-52-4	N.D.	3	1
14242	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	1
14242	Butylbenzylphthalate	85-68-7	N.D.	2	1
14242	Di-n-butylphthalate	84-74-2	N.D.	2	1
14242	Caprolactam	105-60-2	N.D.	5	1
14242	Carbazole	86-74-8	N.D.	0.5	1
14242	4-Chloro-3-methylphenol	59-50-7	N.D.	2	1
14242	4-Chloroaniline	106-47-8	N.D.	4	1
14242	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	1
14242	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	1
14242	2-Chloronaphthalene	91-58-7	N.D.	0.4	1
14242	2-Chlorophenol	95-57-8	N.D.	0.5	1
14242	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	1
14242	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	0.5	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.				
14242	Chrysene	218-01-9	N.D.	0.1	1
14242	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	1
14242	Dibenzofuran	132-64-9	N.D.	0.5	1
14242	3,3'-Dichlorobenzidine	91-94-1	N.D.	3	1
14242	2,4-Dichlorophenol	120-83-2	N.D.	0.5	1
14242	Diethylphthalate	84-66-2	N.D.	2	1
14242	2,4-Dimethylphenol	105-67-9	N.D.	3	1
14242	Dimethylphthalate	131-11-3	N.D.	2	1
14242	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	9	1
14242	2,4-Dinitrophenol	51-28-5	N.D.	15	1
14242	2,4-Dinitrotoluene	121-14-2	N.D.	1	1
14242	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	1
14242	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	5	1
14242	Fluoranthene	206-44-0	N.D.	0.1	1
14242	Fluorene	86-73-7	N.D.	0.1	1
14242	Hexachlorobenzene	118-74-1	N.D.	0.1	1
14242	Hexachlorobutadiene	87-68-3	N.D.	0.5	1
14242	Hexachlorocyclopentadiene	77-47-4	N.D.	5	1
14242	Hexachloroethane	67-72-1	N.D.	1	1
14242	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	1
14242	Isophorone	78-59-1	N.D.	0.5	1
14242	2-Methylnaphthalene	91-57-6	N.D.	0.1	1

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/15/2020 17:50
Collection Date/Time: 05/14/2020 12:00

GES, Inc.
ELLE Sample #: RW 1315812
ELLE Group #: 2099740
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	
14242	2-Methylphenol	95-48-7	6	0.5	1
14242	4-Methylphenol	106-44-5	N.D.	0.5	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.				
14242	Naphthalene	91-20-3	N.D.	0.1	1
14242	2-Nitroaniline	88-74-4	N.D.	2	1
14242	3-Nitroaniline	99-09-2	N.D.	3	1
14242	4-Nitroaniline	100-01-6	N.D.	1	1
14242	Nitrobenzene	98-95-3	N.D.	0.5	1
14242	2-Nitrophenol	88-75-5	N.D.	3	1
14242	4-Nitrophenol	100-02-7	N.D.	11	1
14242	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.8	1
14242	N-Nitrosodiphenylamine	86-30-6	N.D.	0.8	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.				
14242	Di-n-octylphthalate	117-84-0	N.D.	5	1
14242	Pentachlorophenol	87-86-5	N.D.	1	1
14242	Phenanthrene	85-01-8	N.D.	0.1	1
14242	Phenol	108-95-2	N.D.	0.5	1
14242	Pyrene	129-00-0	0.4 J	0.1	1
14242	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	1
14242	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	1
	The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following action was taken: The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the first trial.				
GC Miscellaneous	**RSKSOP-175 modified**		**ug/l**	**ug/l**	
07105	Methane	74-82-8	9,700	150	50
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	3,800	53	1
	Sample was re-extracted outside the method required holding time to confirm sample matrix. The DRO C10-C28 result in trial 2 was 5,500 ug/l.				
Metals	**SW-846 6010C**		**mg/l**	**mg/l**	
07044	Antimony	7440-36-0	N.D.	0.0160	1
07035	Arsenic	7440-38-2	N.D.	0.0160	1
07046	Barium	7440-39-3	0.184	0.0010	1
07047	Beryllium	7440-41-7	N.D.	0.0010	1
07049	Cadmium	7440-43-9	N.D.	0.0010	1
07051	Chromium	7440-47-3	0.0016 J	0.0016	1
07052	Cobalt	7440-48-4	N.D.	0.0015	1
07053	Copper	7440-50-8	N.D.	0.0120	1
07055	Lead	7439-92-1	0.0106 J	0.0071	1

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/15/2020 17:50
Collection Date/Time: 05/14/2020 12:00

GES, Inc.
ELLE Sample #: RW 1315812
ELLE Group #: 2099740
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Metals	**SW-846 6010C**		**mg/l**	**mg/l**	
07058	Manganese	7439-96-5	6.32	0.0030	1
07060	Molybdenum	7439-98-7	N.D.	0.0020	1
07061	Nickel	7440-02-0	0.0050 J	0.0021	1
07036	Selenium	7782-49-2	N.D.	0.0160	1
07066	Silver	7440-22-4	N.D.	0.0050	1
07022	Thallium	7440-28-0	N.D.	0.0081	1
07071	Vanadium	7440-62-2	N.D.	0.0019	1
07072	Zinc	7440-66-6	N.D.	0.0037	1
	SW-846 7470A		**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000071 J	0.000050	1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	
00228	Sulfate	14808-79-8	17.6	1.5	5
	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
	This sample was analyzed with an out of spec LCS. It was re-analyzed on 5/17/20 with a result of N.D.				
	SM 3500-Fe B-2011		**mg/l**	**mg/l**	
14855	Ferrous Iron[1]	n.a.	94.7	0.750	50
	SM 2320 B-2011		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5	n.a.	277	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
10335	TCL 4.3 VOCs	SW-846 8260B	1	N201481AA	05/27/2020 13:42	Corie Mellinger	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N201481AA	05/27/2020 13:41	Corie Mellinger	1
14242	TCL 4.3 SVOCs	SW-846 8270D	1	20141WAE026	05/24/2020 17:45	Edward C Monborne	1
00813	BNA Water Extraction	SW-846 3510C	1	20141WAE026	05/21/2020 08:27	Christine E Gleim	1
07105	Methane	RSKSOP-175 modified	1	201390002A	05/19/2020 19:02	Johanna C Kennedy	50
12858	DRO micro-ext 8015B	SW-846 8015B	1	201410016A	05/22/2020 11:06	Timothy M Emrick	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	201410016A	05/21/2020 12:01	Logan M Brosemer	1
07044	Antimony	SW-846 6010C	1	201411404401	05/20/2020 23:06	Cindy M Gehman	1
07035	Arsenic	SW-846 6010C	1	201411404401	05/20/2020 23:06	Cindy M Gehman	1
07046	Barium	SW-846 6010C	1	201411404401	05/20/2020 23:06	Cindy M Gehman	1
07047	Beryllium	SW-846 6010C	1	201411404401	05/20/2020 23:06	Cindy M Gehman	1
07049	Cadmium	SW-846 6010C	1	201411404401	05/20/2020 23:06	Cindy M Gehman	1

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/15/2020 17:50
Collection Date/Time: 05/14/2020 12:00

GES, Inc.
ELLE Sample #: RW 1315812
ELLE Group #: 2099740
Matrix: Groundwater

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07051	Chromium	SW-846 6010C	1	201411404401	05/20/2020 23:06	Cindy M Gehman	1
07052	Cobalt	SW-846 6010C	1	201411404401	05/20/2020 23:06	Cindy M Gehman	1
07053	Copper	SW-846 6010C	1	201411404401	05/20/2020 23:06	Cindy M Gehman	1
07055	Lead	SW-846 6010C	1	201411404401	05/20/2020 23:06	Cindy M Gehman	1
07058	Manganese	SW-846 6010C	1	201411404401	05/20/2020 23:06	Cindy M Gehman	1
07060	Molybdenum	SW-846 6010C	1	201411404401	05/20/2020 23:06	Cindy M Gehman	1
07061	Nickel	SW-846 6010C	1	201411404401	05/20/2020 23:06	Cindy M Gehman	1
07036	Selenium	SW-846 6010C	1	201411404401	05/20/2020 23:06	Cindy M Gehman	1
07066	Silver	SW-846 6010C	1	201411404401	05/20/2020 23:06	Cindy M Gehman	1
07022	Thallium	SW-846 6010C	1	201411404401	05/20/2020 23:06	Cindy M Gehman	1
07071	Vanadium	SW-846 6010C	1	201411404401	05/20/2020 23:06	Cindy M Gehman	1
07072	Zinc	SW-846 6010C	1	201411404401	05/20/2020 23:06	Cindy M Gehman	1
00259	Mercury	SW-846 7470A	1	201400571301	05/19/2020 11:37	Damary Valentin	1
14044	ICP-WW, 3005A (tot rec) - U345	SW-846 3005A	1	201411404401	05/20/2020 03:49	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	201400571301	05/19/2020 04:03	James L Mertz	1
00228	Sulfate	EPA 300.0	1	20147720109A	05/27/2020 00:32	Kevin Litwa	5
00220	Nitrate Nitrogen	EPA 353.2	1	20141106101A	05/20/2020 08:23	Ashlynn M Cornelius	1
00219	Nitrite Nitrogen	EPA 353.2	1	20137105101A	05/16/2020 06:53	Ashlynn M Cornelius	1
14855	Ferrous Iron	SM 3500-Fe B-2011	1	20140127101A	05/19/2020 22:27	Gregory Baldree	50
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	20139006102A	05/19/2020 01:46	Jeremy L Bolf	1

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/15/2020 17:50
Collection Date/Time: 05/14/2020 12:40

GES, Inc.
ELLE Sample #: RW 1315813
ELLE Group #: 2099740
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acetone	67-64-1	1 J	0.8	1
10335	Benzene	71-43-2	N.D.	0.2	1
10335	Bromodichloromethane	75-27-4	N.D.	0.2	1
10335	Bromoform	75-25-2	N.D.	2	1
10335	Bromomethane	74-83-9	N.D.	0.5	1
10335	2-Butanone	78-93-3	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	0.3	1
10335	Carbon Tetrachloride	56-23-5	N.D.	0.2	1
10335	Chlorobenzene	108-90-7	N.D.	0.2	1
10335	Chloroethane	75-00-3	N.D.	0.3	1
10335	Chloroform	67-66-3	N.D.	0.2	1
10335	Chloromethane	74-87-3	N.D.	0.3	1
10335	Cyclohexane	110-82-7	N.D.	2	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	1	1
10335	Dibromochloromethane	124-48-1	N.D.	0.4	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.3	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.	0.2	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.	0.2	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.	0.2	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	0.3	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.2	1
10335	1,2-Dichloroethane	107-06-2	N.D.	2	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.2	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.2	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.2	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.2	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.2	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.4	1
10335	Ethylbenzene	100-41-4	N.D.	0.2	1
10335	Freon 113	76-13-1	N.D.	2	1
10335	2-Hexanone	591-78-6	N.D.	3	1
10335	Isopropylbenzene	98-82-8	N.D.	0.3	1
10335	Methyl Acetate	79-20-9	N.D.	0.6	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.2	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	0.5	1
10335	Methylcyclohexane	108-87-2	N.D.	0.2	1
10335	Methylene Chloride	75-09-2	N.D.	0.2	1
10335	Styrene	100-42-5	N.D.	0.2	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.2	1
10335	Tetrachloroethene	127-18-4	N.D.	0.2	1
10335	Toluene	108-88-3	N.D.	0.2	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.4	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.2	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.2	1
10335	Trichloroethene	79-01-6	N.D.	0.2	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.4	1
10335	Vinyl Chloride	75-01-4	N.D.	0.4	1
10335	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/15/2020 17:50
Collection Date/Time: 05/14/2020 12:40

GES, Inc.
ELLE Sample #: RW 1315813
ELLE Group #: 2099740
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	
14242	Acenaphthene	83-32-9	N.D.	0.1	1
14242	Acenaphthylene	208-96-8	N.D.	0.1	1
14242	Acetophenone	98-86-2	N.D.	4	1
14242	Anthracene	120-12-7	N.D.	0.1	1
14242	Atrazine	1912-24-9	N.D.	2	1
14242	Benzaldehyde	100-52-7	N.D.	3	1
14242	Benzo(a)anthracene	56-55-3	N.D.	0.1	1
14242	Benzo(a)pyrene	50-32-8	N.D.	0.1	1
14242	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	1
14242	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	1
14242	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	1
14242	1,1'-Biphenyl	92-52-4	N.D.	3	1
14242	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	1
14242	Butylbenzylphthalate	85-68-7	N.D.	2	1
14242	Di-n-butylphthalate	84-74-2	N.D.	2	1
14242	Caprolactam	105-60-2	N.D.	5	1
14242	Carbazole	86-74-8	N.D.	0.5	1
14242	4-Chloro-3-methylphenol	59-50-7	N.D.	2	1
14242	4-Chloroaniline	106-47-8	N.D.	4	1
14242	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	1
14242	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	1
14242	2-Chloronaphthalene	91-58-7	N.D.	0.4	1
14242	2-Chlorophenol	95-57-8	N.D.	0.5	1
14242	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	1
14242	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	0.5	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.				
14242	Chrysene	218-01-9	N.D.	0.1	1
14242	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	1
14242	Dibenzofuran	132-64-9	N.D.	0.5	1
14242	3,3'-Dichlorobenzidine	91-94-1	N.D.	3	1
14242	2,4-Dichlorophenol	120-83-2	N.D.	0.5	1
14242	Diethylphthalate	84-66-2	N.D.	2	1
14242	2,4-Dimethylphenol	105-67-9	N.D.	3	1
14242	Dimethylphthalate	131-11-3	N.D.	2	1
14242	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	8	1
14242	2,4-Dinitrophenol	51-28-5	N.D.	14	1
14242	2,4-Dinitrotoluene	121-14-2	N.D.	1	1
14242	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	1
14242	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	5	1
14242	Fluoranthene	206-44-0	N.D.	0.1	1
14242	Fluorene	86-73-7	N.D.	0.1	1
14242	Hexachlorobenzene	118-74-1	N.D.	0.1	1
14242	Hexachlorobutadiene	87-68-3	N.D.	0.5	1
14242	Hexachlorocyclopentadiene	77-47-4	N.D.	5	1
14242	Hexachloroethane	67-72-1	N.D.	1	1
14242	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	1
14242	Isophorone	78-59-1	N.D.	0.5	1
14242	2-Methylnaphthalene	91-57-6	N.D.	0.1	1

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/15/2020 17:50
Collection Date/Time: 05/14/2020 12:40

GES, Inc.
ELLE Sample #: RW 1315813
ELLE Group #: 2099740
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	
14242	2-Methylphenol	95-48-7	N.D.	0.5	1
14242	4-Methylphenol	106-44-5	N.D.	0.5	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.				
14242	Naphthalene	91-20-3	N.D.	0.1	1
14242	2-Nitroaniline	88-74-4	N.D.	2	1
14242	3-Nitroaniline	99-09-2	N.D.	3	1
14242	4-Nitroaniline	100-01-6	N.D.	0.9	1
14242	Nitrobenzene	98-95-3	N.D.	0.5	1
14242	2-Nitrophenol	88-75-5	N.D.	3	1
14242	4-Nitrophenol	100-02-7	N.D.	10	1
14242	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.7	1
14242	N-Nitrosodiphenylamine	86-30-6	N.D.	0.7	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.				
14242	Di-n-octylphthalate	117-84-0	N.D.	5	1
14242	Pentachlorophenol	87-86-5	N.D.	1	1
14242	Phenanthrene	85-01-8	N.D.	0.1	1
14242	Phenol	108-95-2	N.D.	0.5	1
14242	Pyrene	129-00-0	N.D.	0.1	1
14242	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	1
14242	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	1
	The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following action was taken: The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the first trial.				
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	13,000	53	1
	Sample was re-extracted outside the method required holding time to confirm sample matrix. The DRO C10-C28 result in trial 2 was 12,000 ug/l.				
Metals	**SW-846 6010C**		**mg/l**	**mg/l**	
07044	Antimony	7440-36-0	N.D.	0.0160	1
07035	Arsenic	7440-38-2	N.D.	0.0160	1
07046	Barium	7440-39-3	0.0320	0.0010	1
07047	Beryllium	7440-41-7	N.D.	0.0010	1
07049	Cadmium	7440-43-9	0.0020 J	0.0010	1
07051	Chromium	7440-47-3	0.0031 J	0.0016	1
07052	Cobalt	7440-48-4	0.515	0.0015	1
07053	Copper	7440-50-8	0.0138 J	0.0120	1
07055	Lead	7439-92-1	N.D.	0.0071	1
07060	Molybdenum	7439-98-7	N.D.	0.0020	1
07061	Nickel	7440-02-0	0.299	0.0021	1
07036	Selenium	7782-49-2	N.D.	0.0160	1

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

Project Name: **NRG PRGS**

Submittal Date/Time: 05/15/2020 17:50
Collection Date/Time: 05/14/2020 12:40

GES, Inc.
ELLE Sample #: RW 1315813
ELLE Group #: 2099740
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Metals	**SW-846 6010C**		**mg/l**	**mg/l**	
07066	Silver	7440-22-4	N.D.	0.0050	1
07022	Thallium	7440-28-0	N.D.	0.0081	1
07071	Vanadium	7440-62-2	0.0042 J	0.0019	1
07072	Zinc	7440-66-6	0.221	0.0037	1
	SW-846 7470A		**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000050	1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	
00228	Sulfate	14808-79-8	555	60.0	200
	SM 2320 B-2011		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5	n.a.	28.2	2.6	1

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	TCL 4.3 VOCs	SW-846 8260B	1	N201481AA	05/27/2020 14:04	Corie Mellinger	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N201481AA	05/27/2020 14:03	Corie Mellinger	1
14242	TCL 4.3 SVOCs	SW-846 8270D	1	20141WAE026	05/25/2020 13:26	Linda M Hartenstine	1
00813	BNA Water Extraction	SW-846 3510C	1	20141WAE026	05/21/2020 08:27	Christine E Gleim	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	201410016A	05/22/2020 11:30	Timothy M Emrick	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	201410016A	05/21/2020 12:01	Logan M Brosemer	1
07044	Antimony	SW-846 6010C	1	201401404403	05/22/2020 16:59	Christina Termini	1
07035	Arsenic	SW-846 6010C	1	201401404403	05/22/2020 16:59	Christina Termini	1
07046	Barium	SW-846 6010C	1	201401404403	05/22/2020 16:59	Christina Termini	1
07047	Beryllium	SW-846 6010C	1	201401404403	05/22/2020 16:59	Christina Termini	1
07049	Cadmium	SW-846 6010C	1	201401404403	05/22/2020 16:59	Christina Termini	1
07051	Chromium	SW-846 6010C	1	201401404403	05/22/2020 16:59	Christina Termini	1
07052	Cobalt	SW-846 6010C	1	201401404403	05/22/2020 16:59	Christina Termini	1
07053	Copper	SW-846 6010C	1	201401404403	05/22/2020 16:59	Christina Termini	1
07055	Lead	SW-846 6010C	1	201401404403	05/22/2020 16:59	Christina Termini	1
07060	Molybdenum	SW-846 6010C	1	201401404403	05/22/2020 16:59	Christina Termini	1
07061	Nickel	SW-846 6010C	1	201401404403	05/22/2020 16:59	Christina Termini	1
07036	Selenium	SW-846 6010C	1	201401404403	05/22/2020 16:59	Christina Termini	1
07066	Silver	SW-846 6010C	1	201471404401	05/27/2020 20:55	Cindy M Gehman	1
07022	Thallium	SW-846 6010C	1	201401404403	05/22/2020 16:59	Christina Termini	1
07071	Vanadium	SW-846 6010C	1	201401404403	05/22/2020 16:59	Christina Termini	1
07072	Zinc	SW-846 6010C	1	201401404403	05/22/2020 16:59	Christina Termini	1
00259	Mercury	SW-846 7470A	1	201400571301	05/19/2020 11:39	Damary Valentin	1
14044	ICP-WW, 3005A (tot rec) - U345	SW-846 3005A	1	201401404403	05/21/2020 03:39	James L Mertz	1
14044	ICP-WW, 3005A (tot rec) - U345	SW-846 3005A	2	201471404401	05/27/2020 02:55	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	201400571301	05/19/2020 04:03	James L Mertz	1
00228	Sulfate	EPA 300.0	1	20147720109B	05/27/2020 02:43	Kevin Litwa	200
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	20139006102A	05/19/2020 01:13	Jeremy L Bolf	1

Quality Control Summary

Client Name: GES, Inc. Group Number: 2099740
Reported: 06/04/2020 09:19

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: N201481AA	Sample number(s): 1315810-1315813	
Acetone	N.D.	0.8
Benzene	N.D.	0.2
Bromodichloromethane	N.D.	0.2
Bromoform	N.D.	2
Bromomethane	N.D.	0.5
2-Butanone	N.D.	1
Carbon Disulfide	N.D.	0.3
Carbon Tetrachloride	N.D.	0.2
Chlorobenzene	N.D.	0.2
Chloroethane	N.D.	0.3
Chloroform	N.D.	0.2
Chloromethane	N.D.	0.3
Cyclohexane	N.D.	2
1,2-Dibromo-3-chloropropane	N.D.	1
Dibromochloromethane	N.D.	0.4
1,2-Dibromoethane	N.D.	0.3
1,2-Dichlorobenzene	N.D.	0.2
1,3-Dichlorobenzene	N.D.	0.2
1,4-Dichlorobenzene	N.D.	0.2
Dichlorodifluoromethane	N.D.	0.3
1,1-Dichloroethane	N.D.	0.2
1,2-Dichloroethane	N.D.	2
1,1-Dichloroethene	N.D.	0.2
cis-1,2-Dichloroethene	N.D.	0.2
trans-1,2-Dichloroethene	N.D.	0.2
1,2-Dichloropropane	N.D.	0.2
cis-1,3-Dichloropropene	N.D.	0.2
trans-1,3-Dichloropropene	N.D.	0.4
Ethylbenzene	N.D.	0.2
Freon 113	N.D.	2
2-Hexanone	N.D.	3
Isopropylbenzene	N.D.	0.3
Methyl Acetate	N.D.	0.6
Methyl Tertiary Butyl Ether	N.D.	0.2
4-Methyl-2-pentanone	N.D.	0.5
Methylcyclohexane	N.D.	0.2
Methylene Chloride	N.D.	0.2
Styrene	N.D.	0.2
1,1,2,2-Tetrachloroethane	N.D.	0.2

*- 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. Group Number: 2099740
Reported: 06/04/2020 09:19

Method Blank (continued)

Analysis Name	Result	MDL
	ug/l	ug/l
Tetrachloroethene	N.D.	0.2
Toluene	N.D.	0.2
1,2,4-Trichlorobenzene	N.D.	0.4
1,1,1-Trichloroethane	N.D.	0.2
1,1,2-Trichloroethane	N.D.	0.2
Trichloroethene	N.D.	0.2
Trichlorofluoromethane	N.D.	0.4
Vinyl Chloride	N.D.	0.4
Xylene (Total)	N.D.	0.5
Batch number: 20141WAE026	Sample number(s): 1315810-1315813	
Acenaphthene	N.D.	0.1
Acenaphthylene	N.D.	0.1
Acetophenone	N.D.	4
Anthracene	N.D.	0.1
Atrazine	N.D.	2
Benzaldehyde	N.D.	3
Benzo(a)anthracene	N.D.	0.1
Benzo(a)pyrene	N.D.	0.1
Benzo(b)fluoranthene	N.D.	0.1
Benzo(g,h,i)perylene	N.D.	0.1
Benzo(k)fluoranthene	N.D.	0.1
1,1'-Biphenyl	N.D.	3
4-Bromophenyl-phenylether	N.D.	0.5
Butylbenzylphthalate	N.D.	2
Di-n-butylphthalate	N.D.	2
Caprolactam	N.D.	5
Carbazole	N.D.	0.5
4-Chloro-3-methylphenol	N.D.	2
4-Chloroaniline	N.D.	4
bis(2-Chloroethoxy)methane	N.D.	0.5
bis(2-Chloroethyl)ether	N.D.	0.5
2-Chloronaphthalene	N.D.	0.4
2-Chlorophenol	N.D.	0.5
4-Chlorophenyl-phenylether	N.D.	0.5
2,2'-oxybis(1-Chloropropane)	N.D.	0.5
Chrysene	N.D.	0.1
Dibenz(a,h)anthracene	N.D.	0.1
Dibenzofuran	N.D.	0.5
3,3'-Dichlorobenzidine	N.D.	3
2,4-Dichlorophenol	N.D.	0.5
Diethylphthalate	N.D.	2
2,4-Dimethylphenol	N.D.	3
Dimethylphthalate	N.D.	2
4,6-Dinitro-2-methylphenol	N.D.	8

*- 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: 06/04/2020 09:19

Group Number: 2099740

Method Blank (continued)

Analysis Name	Result	MDL
	ug/l	ug/l
2,4-Dinitrophenol	N.D.	14
2,4-Dinitrotoluene	N.D.	1
2,6-Dinitrotoluene	N.D.	0.5
bis(2-Ethylhexyl)phthalate	N.D.	5
Fluoranthene	N.D.	0.1
Fluorene	N.D.	0.1
Hexachlorobenzene	N.D.	0.1
Hexachlorobutadiene	N.D.	0.5
Hexachlorocyclopentadiene	N.D.	5
Hexachloroethane	N.D.	1
Indeno(1,2,3-cd)pyrene	N.D.	0.1
Isophorone	N.D.	0.5
2-Methylnaphthalene	N.D.	0.1
2-Methylphenol	N.D.	0.5
4-Methylphenol	N.D.	0.5
Naphthalene	0.7	0.1
2-Nitroaniline	N.D.	2
3-Nitroaniline	N.D.	3
4-Nitroaniline	N.D.	0.9
Nitrobenzene	N.D.	0.5
2-Nitrophenol	N.D.	3
4-Nitrophenol	N.D.	10
N-Nitroso-di-n-propylamine	N.D.	0.7
N-Nitrosodiphenylamine	N.D.	0.7
Di-n-octylphthalate	N.D.	5
Pentachlorophenol	N.D.	1
Phenanthrene	N.D.	0.1
Phenol	N.D.	0.5
Pyrene	N.D.	0.1
2,4,5-Trichlorophenol	N.D.	0.5
2,4,6-Trichlorophenol	N.D.	0.5
Batch number: 201390002A	Sample number(s): 1315810,1315812	
Methane	N.D.	3.0
Batch number: 201410016A	Sample number(s): 1315810-1315813	
DRO C10-C28	N.D.	53
	mg/l	mg/l
Batch number: 201390571304	Sample number(s): 1315811	
Mercury	N.D.	0.000079
Batch number: 201400571301	Sample number(s): 1315812-1315813	
Mercury	N.D.	0.000050
Batch number: 201401404403	Sample number(s): 1315811,1315813	
Antimony	N.D.	0.0160

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Quality Control Summary

Client Name: GES, Inc. Group Number: 2099740
Reported: 06/04/2020 09:19

Method Blank (continued)

Analysis Name	Result	MDL
	mg/l	mg/l
Arsenic	N.D.	0.0160
Barium	N.D.	0.0010
Beryllium	N.D.	0.0010
Cadmium	N.D.	0.0010
Chromium	N.D.	0.0016
Cobalt	N.D.	0.0015
Copper	N.D.	0.0120
Lead	N.D.	0.0071
Molybdenum	N.D.	0.0020
Nickel	N.D.	0.0021
Selenium	N.D.	0.0160
Thallium	N.D.	0.0081
Vanadium	N.D.	0.0019
Zinc	N.D.	0.0037
Batch number: 201410571301	Sample number(s): 1315810	
Mercury	N.D.	0.000079
Batch number: 201411404401	Sample number(s): 1315810,1315812	
Antimony	N.D.	0.0160
Arsenic	N.D.	0.0160
Barium	N.D.	0.0010
Beryllium	N.D.	0.0010
Cadmium	N.D.	0.0010
Chromium	N.D.	0.0016
Cobalt	N.D.	0.0015
Copper	N.D.	0.0120
Lead	N.D.	0.0071
Manganese	N.D.	0.0030
Molybdenum	0.0045 J	0.0020
Nickel	N.D.	0.0021
Selenium	N.D.	0.0160
Silver	N.D.	0.0050
Thallium	N.D.	0.0081
Vanadium	N.D.	0.0019
Zinc	N.D.	0.0037
Batch number: 201471404401	Sample number(s): 1315811,1315813	
Silver	N.D.	0.0050
Batch number: 20137105101A	Sample number(s): 1315810,1315812	
Nitrite Nitrogen	N.D.	0.015
Batch number: 20139127101A	Sample number(s): 1315810	
Ferrous Iron	N.D.	0.0150
Batch number: 20140106101B	Sample number(s): 1315810	
Nitrate Nitrogen	N.D.	0.040

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Quality Control Summary

Client Name: GES, Inc.
Reported: 06/04/2020 09:19

Group Number: 2099740

Method Blank (continued)

Analysis Name	Result	MDL
	mg/l	mg/l
Batch number: 20140127101A	Sample number(s): 1315812	
Ferrous Iron	N.D.	0.0150
Batch number: 20141106101A	Sample number(s): 1315812	
Nitrate Nitrogen	N.D.	0.040
Batch number: 20147720109A	Sample number(s): 1315810,1315812	
Sulfate	N.D.	0.30
Batch number: 20147720109B	Sample number(s): 1315813	
Sulfate	N.D.	0.30
	mg/l as CaCO3	mg/l as CaCO3
Batch number: 20139006102A	Sample number(s): 1315810-1315813	
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: N201481AA	Sample number(s): 1315810-1315813								
Acetone	150	175.39			117		54-157		
Benzene	20	19.09			95		80-120		
Bromodichloromethane	20	17.63			88		71-120		
Bromoform	20	18.98			95		51-120		
Bromomethane	20	14.69			73		53-128		
2-Butanone	150	132.84			89		59-135		
Carbon Disulfide	20	19.68			98		65-128		
Carbon Tetrachloride	20	17.11			86		64-134		
Chlorobenzene	20	19.39			97		80-120		
Chloroethane	20	14.88			74		55-123		
Chloroform	20	18.28			91		80-120		
Chloromethane	20	12.99			65		56-121		
Cyclohexane	20	20.67			103		68-126		
1,2-Dibromo-3-chloropropane	20	16.47			82		47-131		
Dibromochloromethane	20	18.8			94		71-120		
1,2-Dibromoethane	20	18.64			93		77-120		
1,2-Dichlorobenzene	20	19.11			96		80-120		
1,3-Dichlorobenzene	20	18.76			94		80-120		
1,4-Dichlorobenzene	20	19.21			96		80-120		
Dichlorodifluoromethane	20	10.33			52		41-127		

*- 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: 06/04/2020 09:19

Group Number: 2099740

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
1,1-Dichloroethane	20	18.96			95		80-120		
1,2-Dichloroethane	20	16.7			84		73-124		
1,1-Dichloroethene	20	19.25			96		80-131		
cis-1,2-Dichloroethene	20	19.91			100		80-125		
trans-1,2-Dichloroethene	20	19.14			96		80-126		
1,2-Dichloropropane	20	19.91			100		80-120		
cis-1,3-Dichloropropene	20	18.06			90		75-120		
trans-1,3-Dichloropropene	20	17.22			86		67-120		
Ethylbenzene	20	18.86			94		80-120		
Freon 113	20	19.3			97		73-139		
2-Hexanone	100	93.05			93		56-135		
Isopropylbenzene	20	18.97			95		80-120		
Methyl Acetate	20	18.44			92		54-136		
Methyl Tertiary Butyl Ether	20	16.65			83		69-122		
4-Methyl-2-pentanone	100	88.24			88		62-133		
Methylcyclohexane	20	19.41			97		67-121		
Methylene Chloride	20	18.83			94		80-120		
Styrene	20	19.22			96		80-120		
1,1,2,2-Tetrachloroethane	20	20.39			102		72-120		
Tetrachloroethene	20	19.3			97		80-120		
Toluene	20	19.13			96		80-120		
1,2,4-Trichlorobenzene	20	17.08			85		63-120		
1,1,1-Trichloroethane	20	16.66			83		67-126		
1,1,2-Trichloroethane	20	19.59			98		80-120		
Trichloroethene	20	18.28			91		80-120		
Trichlorofluoromethane	20	15.51			78		55-135		
Vinyl Chloride	20	14.02			70		56-120		
Xylene (Total)	60	57.28			95		80-120		
	ug/l	**ug/l**	**ug/l**	**ug/l**					
Batch number: 20141WAE026	Sample number(s): 1315810-1315813								
Acenaphthene	50	33.66			67		52-114		
Acenaphthylene	50	34.38			69		56-127		
Acetophenone	50	38.44			77		61-114		
Anthracene	50	39.92			80		67-116		
Atrazine	50	38.14			76		71-133		
Benzaldehyde	50	33.11			66		55-116		
Benzo(a)anthracene	50	42.42			85		68-123		
Benzo(a)pyrene	50	43.18			86		71-117		
Benzo(b)fluoranthene	50	43.32			87		69-121		
Benzo(g,h,i)perylene	50	41.37			83		60-119		
Benzo(k)fluoranthene	50	44.05			88		69-122		
1,1'-Biphenyl	50	30.11			60		56-109		
4-Bromophenyl-phenylether	50	36.07			72		60-114		

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Quality Control Summary

Client Name: GES, Inc.
Reported: 06/04/2020 09:19

Group Number: 2099740

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
Butylbenzylphthalate	50	27.69			55		40-133		
Di-n-butylphthalate	50	36.37			73		58-125		
Caprolactam	50	14.73			29		10-57		
Carbazole	50	42.63			85		64-127		
4-Chloro-3-methylphenol	50	46.9			94		60-118		
4-Chloroaniline	50	36.26			73		45-111		
bis(2-Chloroethoxy)methane	50	39.97			80		63-116		
bis(2-Chloroethyl)ether	50	36.8			74		58-108		
2-Chloronaphthalene	50	27.74			55		51-107		
2-Chlorophenol	50	40.94			82		57-105		
4-Chlorophenyl-phenylether	50	34.35			69		57-110		
2,2'-oxybis(1-Chloropropane)	50	39.68			79		48-105		
Chrysene	50	39.67			79		65-121		
Dibenz(a,h)anthracene	50	43.78			88		63-128		
Dibenzofuran	50	35.52			71		60-112		
3,3'-Dichlorobenzidine	50	29.43			59		42-107		
2,4-Dichlorophenol	50	43.5			87		65-110		
Diethylphthalate	50	25.76			52		42-126		
2,4-Dimethylphenol	50	36.25			72		53-93		
Dimethylphthalate	50	10.32			21		10-134		
4,6-Dinitro-2-methylphenol	50	44.04			88		63-129		
2,4-Dinitrophenol	100	91.27			91		44-134		
2,4-Dinitrotoluene	50	40.83			82		66-122		
2,6-Dinitrotoluene	50	41.34			83		71-120		
bis(2-Ethylhexyl)phthalate	50	41.79			84		61-129		
Fluoranthene	50	42.09			84		63-122		
Fluorene	50	38.12			76		56-115		
Hexachlorobenzene	50	37.66			75		60-117		
Hexachlorobutadiene	50	20			40		20-108		
Hexachlorocyclopentadiene	100	7.51			8*		10-91		
Hexachloroethane	50	18.84			38		23-95		
Indeno(1,2,3-cd)pyrene	50	40.42			81		59-123		
Isophorone	50	40.7			81		63-120		
2-Methylnaphthalene	50	28.63			57		51-107		
2-Methylphenol	50	41.46			83		53-107		
4-Methylphenol	50	43.34			87		49-108		
Naphthalene	50	30.29			61		51-102		
2-Nitroaniline	50	42.35			85		66-126		
3-Nitroaniline	50	40.68			81		55-121		
4-Nitroaniline	50	36.12			72		55-113		
Nitrobenzene	50	38.83			78		59-109		
2-Nitrophenol	50	42.95			86		63-111		
4-Nitrophenol	50	34.57			69		23-89		
N-Nitroso-di-n-propylamine	50	40.45			81		58-120		

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Quality Control Summary

Client Name: GES, Inc. Group Number: 2099740
Reported: 06/04/2020 09:19

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
N-Nitrosodiphenylamine	50	39.73			79		60-126		
Di-n-octylphthalate	50	43.94			88		60-136		
Pentachlorophenol	50	43.03			86		54-131		
Phenanthrene	50	39.65			79		65-113		
Phenol	50	29.45			59		19-79		
Pyrene	50	40.55			81		65-115		
2,4,5-Trichlorophenol	50	46.33			93		66-118		
2,4,6-Trichlorophenol	50	45.81			92		69-117		
	ug/l	**ug/l**	**ug/l**	**ug/l**					
Batch number: 201390002A	Sample number(s): 1315810,1315812								
Methane	59.42	67.11			113		85-115		
	ug/l	**ug/l**	**ug/l**	**ug/l**					
Batch number: 201410016A	Sample number(s): 1315810-1315813								
DRO C10-C28	2857.87	1958.79			69		47-116		
	mg/l	**mg/l**	**mg/l**	**mg/l**					
Batch number: 201390571304	Sample number(s): 1315811								
Mercury	0.00100	0.000835			83		80-110		
Batch number: 201400571301	Sample number(s): 1315812-1315813								
Mercury	0.00100	0.000891			89		80-110		
Batch number: 201401404403	Sample number(s): 1315811,1315813								
Antimony	0.100	0.104			104		80-120		
Arsenic	0.0600	0.0598			100		80-120		
Barium	0.0100	0.00973			97		80-120		
Beryllium	0.0100	0.00954			95		80-120		
Cadmium	0.0100	0.0101			101		80-120		
Chromium	0.0300	0.0292			97		80-120		
Cobalt	0.0100	0.0101			101		80-120		
Copper	0.0400	0.0414			104		80-120		
Lead	0.0300	0.0283			94		80-120		
Molybdenum	0.0200	0.0206			103		80-120		
Nickel	2.02	2.04			101		80-120		
Selenium	0.100	0.0949			95		80-120		
Thallium	0.0600	0.0620			103		80-120		
Vanadium	0.0200	0.0206			103		80-120		
Zinc	0.440	0.427			97		80-120		
Batch number: 201410571301	Sample number(s): 1315810								
Mercury	0.00100	0.000940			94		80-110		
Batch number: 201411404401	Sample number(s): 1315810,1315812								

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Quality Control Summary

Client Name: GES, Inc. Group Number: 2099740
Reported: 06/04/2020 09:19

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
Antimony	0.100	0.104			104		80-120		
Arsenic	0.0600	0.0599			100		80-120		
Barium	0.0100	0.0101			101		80-120		
Beryllium	0.0100	0.00972			97		80-120		
Cadmium	0.0100	0.0102			102		80-120		
Chromium	0.0300	0.0292			97		80-120		
Cobalt	0.0100	0.0110			110		80-120		
Copper	0.0400	0.0394			98		80-120		
Lead	0.0300	0.0296			99		80-120		
Manganese	0.0200	0.0202			101		80-120		
Molybdenum	0.0200	0.0226			113		80-120		
Nickel	2.02	2.11			105		80-120		
Selenium	0.100	0.0984			98		80-120		
Silver	0.0200	0.0203			101		80-120		
Thallium	0.0600	0.0620			103		80-120		
Vanadium	0.0200	0.0200			100		80-120		
Zinc	0.440	0.441			100		80-120		
Batch number: 201471404401	Sample number(s): 1315811,1315813								
Silver	0.0200	0.0210			105		80-120		
	mg/l	**mg/l**	**mg/l**	**mg/l**					
Batch number: 20137105101A	Sample number(s): 1315810,1315812								
Nitrite Nitrogen	0.700	0.673			96		90-110		
Batch number: 20139127101A	Sample number(s): 1315810								
Ferrous Iron	1.00	0.931			93		90-110		
Batch number: 20140106101B	Sample number(s): 1315810								
Nitrate Nitrogen	2.50	2.68			107		90-110		
Batch number: 20140127101A	Sample number(s): 1315812								
Ferrous Iron	1.00	0.988			99		90-110		
Batch number: 20141106101A	Sample number(s): 1315812								
Nitrate Nitrogen	2.50	2.67			107		90-110		
Batch number: 20147720109A	Sample number(s): 1315810,1315812								
Sulfate	7.50	8.03			107		90-110		
Batch number: 20147720109B	Sample number(s): 1315813								
Sulfate	7.50	8.03			107		90-110		
	mg/l as CaCO3	**mg/l as CaCO3**	**mg/l as CaCO3**	**mg/l as CaCO3**					
Batch number: 20139006102A	Sample number(s): 1315810-1315813								
Total Alkalinity to pH 4.5	188	169.03			90		82-106		

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Quality Control Summary

Client Name: GES, Inc. Group Number: 2099740
Reported: 06/04/2020 09:19

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: 201410571301	Sample number(s): 1315810 UNSPK: 1315810									
Mercury	N.D.	0.00100	0.000920	0.00100	0.000926	92	93	80-120	1	20
Batch number: 201411404401	Sample number(s): 1315810,1315812 UNSPK: 1315810									
Antimony	N.D.	0.100	0.112	0.100	0.111	112	111	75-125	1	20
Arsenic	N.D.	0.0600	0.0755	0.0600	0.0713	126*	119	75-125	6	20
Barium	0.0971	0.0100	0.109	0.0100	0.108	114 (2)	108 (2)	75-125	1	20
Beryllium	N.D.	0.0100	0.0103	0.0100	0.0101	103	101	75-125	1	20
Cadmium	N.D.	0.0100	0.0103	0.0100	0.0102	103	102	75-125	1	20
Chromium	0.00185	0.0300	0.0318	0.0300	0.0306	100	96	75-125	4	20
Cobalt	0.0633	0.0100	0.0739	0.0100	0.0741	106 (2)	108 (2)	75-125	0	20
Copper	N.D.	0.0400	0.0313	0.0400	0.0315	78	79	75-125	1	20
Lead	0.0164	0.0300	0.0461	0.0300	0.0480	99	105	75-125	4	20
Manganese	5.27	0.0200	5.32	0.0200	5.31	249 (2)	180 (2)	75-125	0	20
Molybdenum	N.D.	0.0200	0.0200	0.0200	0.0197	100	99	75-125	1	20
Nickel	0.0164	2.02	2.03	2.02	2.03	100	100	75-125	0	20
Selenium	N.D.	0.100	0.103	0.100	0.104	103	104	75-125	2	20
Silver	N.D.	0.0200	0.0213	0.0200	0.0211	106	105	75-125	1	20
Thallium	N.D.	0.0600	0.0582	0.0600	0.0618	97	103	75-125	6	20
Vanadium	0.0116	0.0200	0.0321	0.0200	0.0314	103	99	75-125	2	20
Zinc	N.D.	0.440	0.442	0.440	0.440	100	100	75-125	0	20
	mg/l	mg/l	mg/l	mg/l	mg/l					
Batch number: 20141106101A	Sample number(s): 1315812 UNSPK: 1315812									
Nitrate Nitrogen	N.D.	1.00	0.693			69*		90-110		
Batch number: 20147720109A	Sample number(s): 1315810,1315812 UNSPK: 1315812									
Sulfate	17.56	25	43.97			106		90-110		

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: GES, Inc.
Reported: 06/04/2020 09:19

Group Number: 2099740

Laboratory Duplicate

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

Analysis Name	BKG Conc	DUP Conc	DUP RPD	DUP RPD Max
	mg/l	mg/l		
Batch number: 201410571301	Sample number(s): 1315810 BKG: 1315810			
Mercury	N.D.	N.D.	0 (1)	20
Batch number: 201411404401	Sample number(s): 1315810,1315812 BKG: 1315810			
Antimony	N.D.	N.D.	0 (1)	20
Arsenic	N.D.	N.D.	0 (1)	20
Barium	0.0971	0.0970	0	20
Beryllium	N.D.	N.D.	0 (1)	20
Cadmium	N.D.	N.D.	0 (1)	20
Chromium	0.00185	0.00180	3 (1)	20
Cobalt	0.0633	0.0628	1	20
Copper	N.D.	N.D.	0 (1)	20
Lead	0.0164	0.0171	4 (1)	20
Manganese	5.27	5.29	0	20
Molybdenum	N.D.	N.D.	0 (1)	20
Nickel	0.0164	0.0166	1 (1)	20
Selenium	N.D.	N.D.	0 (1)	20
Silver	N.D.	N.D.	0 (1)	20
Thallium	N.D.	N.D.	0 (1)	20
Vanadium	0.0116	0.0112	4 (1)	20
Zinc	N.D.	N.D.	0 (1)	20
	mg/l	mg/l		
Batch number: 20141106101A	Sample number(s): 1315812 BKG: 1315812			
Nitrate Nitrogen	N.D.	N.D.	0 (1)	10
Batch number: 20147720109A	Sample number(s): 1315810,1315812 BKG: 1315812			
Sulfate	17.56	17.79	1 (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: TCL 4.3 VOCs
Batch number: N201481AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
1315810	96	93	99	92
1315811	97	94	102	92
1315812	96	100	100	91
1315813	96	98	102	93
Blank	97	101	102	93

*- 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: 06/04/2020 09:19

Group Number: 2099740

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: TCL 4.3 VOCs
Batch number: N201481AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
LCS	96	101	103	92
Limits:	80-120	80-120	80-120	80-120

Analysis Name: TCL 4.3 SVOCs
Batch number: 20141WAE026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
1315810	45	51	69	0*	65	50
1315811	44	45	76	66	67	68
1315812	41	31	61	78	68	86
1315813	35	31	65	74	62	78
Blank	39	52	86	77	58	90
LCS	48	59	82	74	67	88
Limits:	10-67	10-84	18-141	38-113	44-102	34-128

Analysis Name: Methane
Batch number: 201390002A

	Propene
1315810	79
1315812	92
Blank	113
LCS	111
Limits:	28-140

Analysis Name: DRO micro-ext 8015B
Batch number: 201410016A

	Orthoterphenyl
1315810	71
1315811	104
1315812	103
1315813	62
Blank	85
LCS	81
Limits:	52-132

*- 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 # 2099740 Sample # 131581O-NS 13

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	

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

Analyses Requested — Preservation Codes

Sample Identification	Collection Date	Collection Time	Grab	Composite	Total # of Containers	TPH-DRO C-10-28 (SW-846 8015B) H	Alkalinity (SM 2320B) -	Nitrate NO3 -1 & Nitrite NO-2(EPA 353.2) -/S	Manganese (6010) N	Ferrous Iron Fe2+ (SM 3500-Fe B modified-1997) H	Sulfate SO4 2- (EPA 300.0) -	Methane (RSKSOP-175 modified) H	Full Suite VOCs (8260) H	SVOCs (8270) -	Title 22 Metals (6010) N	Mercury (7470) N
MW-10S	5/14/2020	940	X		16	X	X	X	X	X	X	X	X	X	X	X
MW-25S	↓	1050	X		9	X	X						X	X	X	X
MW/RW-14	↓	1200	X		16	X	X	X	X	X	X	X	X	X	X	X
RW-11BS	5/14/2020	1240	X		10	X	X				X		X	X	X	X

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

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

Remarks

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

Date results are needed:

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

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

Phone:

Relinquished by:	Date	Time	Received by:	Date	Time
	5/19/2020	1515	Denise Woodley	5-15-20	0900
Denise Woodley	5-15-20	1054		5-15-20	1054
	5-15-20	1745			
					1750

Relinquished by Commercial Carrier:

UPS _____ FedEx _____ Other _____

Temperature upon receipt 0.8-1.0 °C

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

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Sample Administration Receipt Documentation Log

Doc Log ID: 284656

Group Number(s): 2099740

Client: GES

Delivery and Receipt Information

Delivery Method:	ELLE Courier	Arrival Date:	05/15/2020
Number of Packages:	2	Number of Projects:	3
State/Province of Origin:	VA		

Arrival Condition Summary

Shipping Container Sealed:	No	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	No	Sample Date/Times match COC:	Yes
Samples Chilled:	Yes	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

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	DT42-01	0.8	DT	Wet	Y	Loose	N
2	Water	DT42-01	1.0	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.

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

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

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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 less than the LOQ
K2	Continuing Calibration Blank is above the QC limit and the sample result is less than the LOQ
K3	Initial Calibration Verification is above the QC limit and the sample result is less than the LOQ
K4	Continuing Calibration Verification is above the QC limit and the sample result is less than the LOQ
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

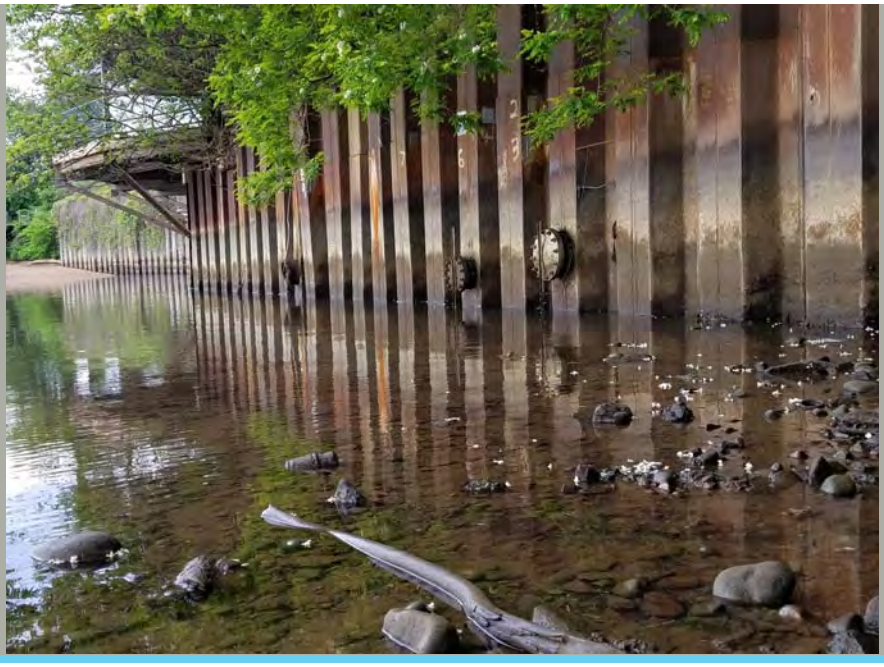
Direction of View:
Southwest

Date Taken:
05/11/2020

Description:
Northern and central portions of the bulkhead

Direction of View:
South

Date Taken:
05/11/2020



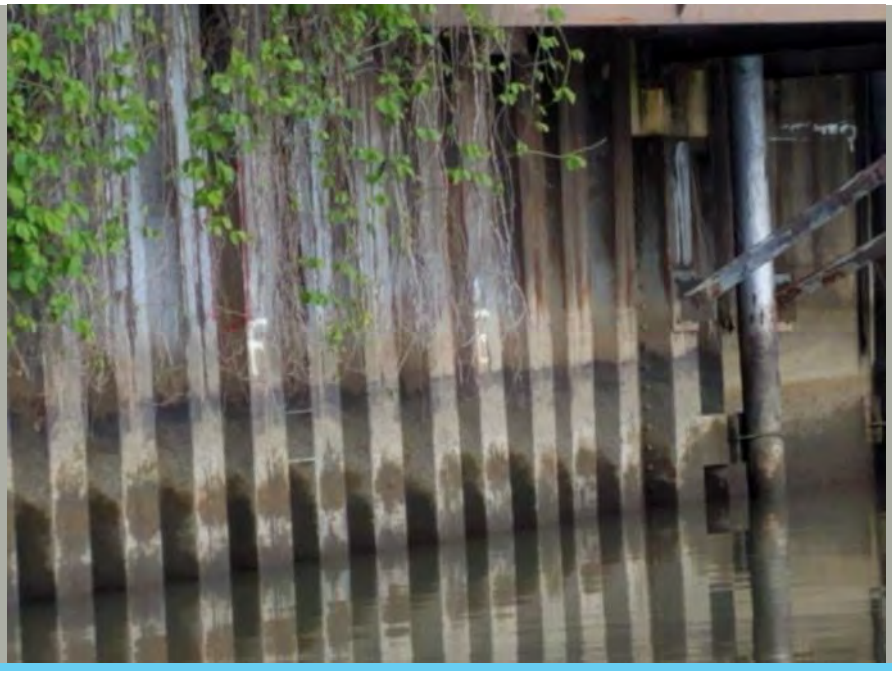
Bulkhead Inspection Photographs

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

Description:
Southern portion of bulkhead

Direction of View:
Northwest

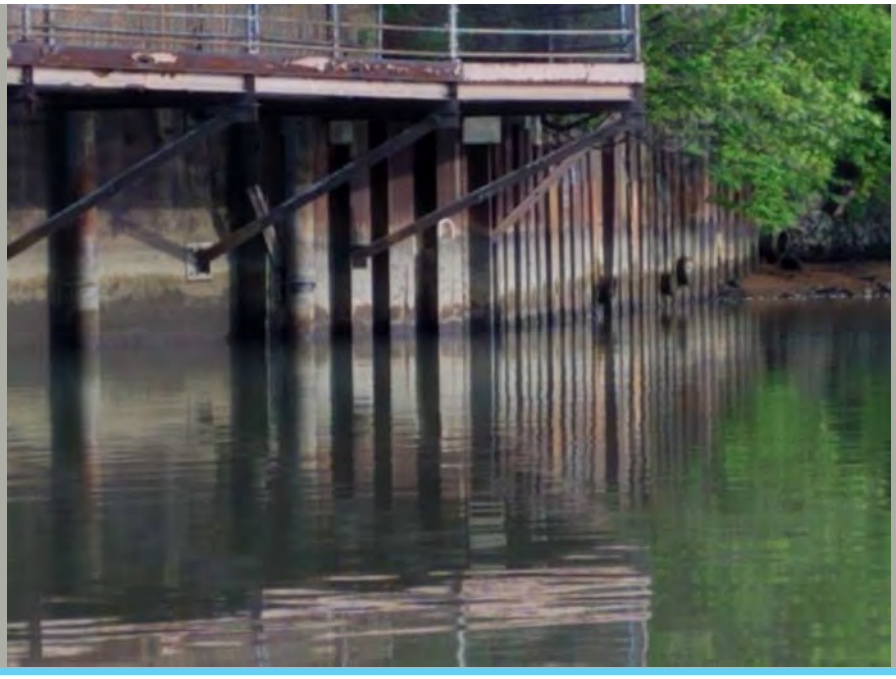
Date Taken:
05/11/2020



Description:
Central portion of the bulkhead.

Direction of View:
Northwest

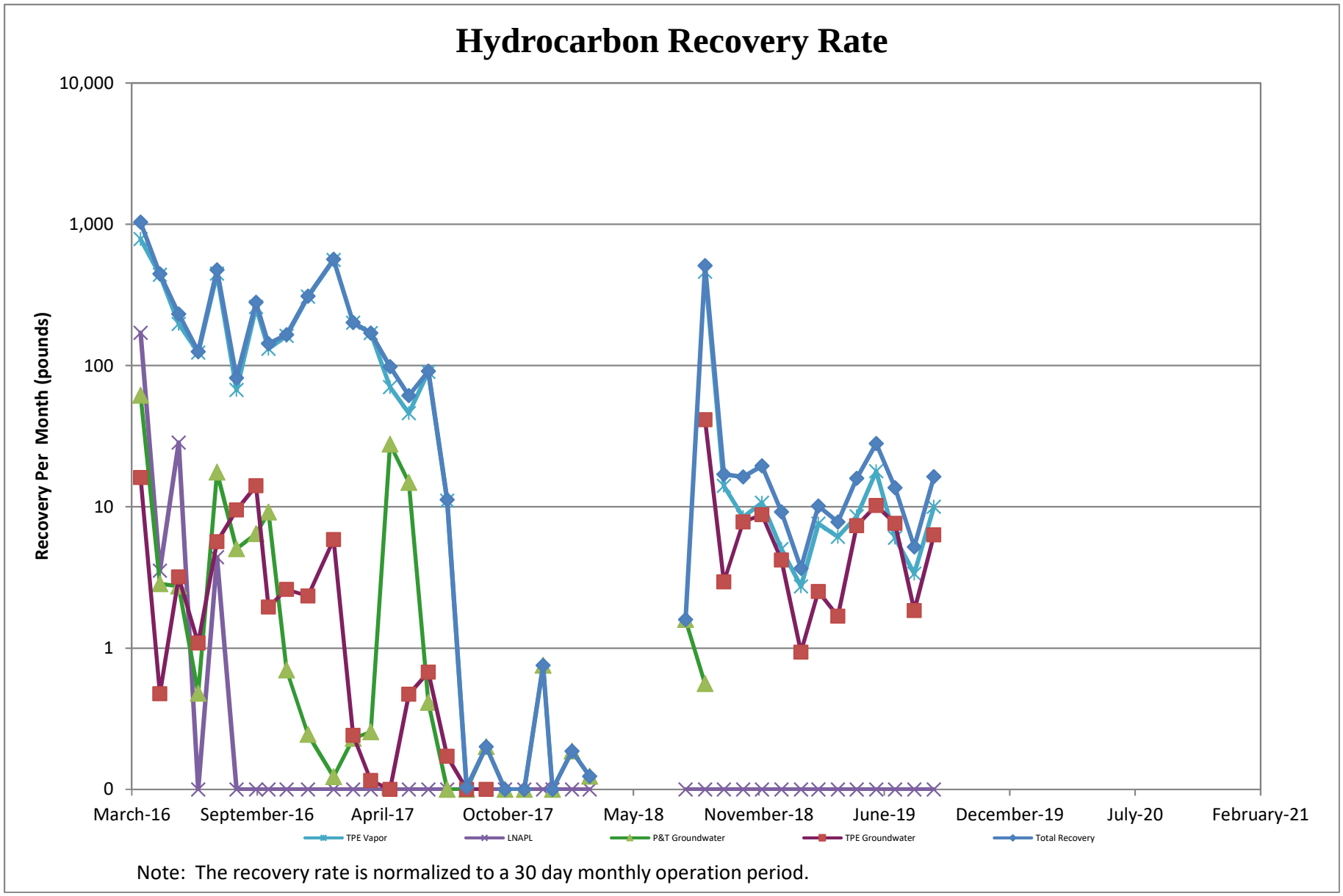
Date Taken:
05/11/2020



Attachment E – Remediation System Performance Graphs

REMEDIATION SYSTEM PERFORMANCE GRAPHS

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



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

REMEDIATION SYSTEM PERFORMANCE GRAPHS

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