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

January 27, 2016

Via email delivery only

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

Re: Fourth Quarter 2015 CAP Implementation Monitoring Report
NRG Potomac River Generating Station
1400 North Royal Street
Alexandria, VA 22314
PC#2013-3154

Dear Mr. Wardle:

NRG Potomac River LLC (PRGS) is pleased to submit the Fourth Quarter 2015 CAP Implementation Monitoring Report (CMR).

The following activities were conducted during the Fourth Quarter of 2015:

- Monthly liquid level gauging and manual light non-aqueous phase liquid (LNAPL) bailing of select site monitoring wells;
- Completion and approval of a revised groundwater sampling plan on November 24, 2015;
- Comprehensive gauging of all accessible site monitoring wells was conducted on December 1, 2015;
- Biostimulation headspace vapor monitoring of select site monitoring wells to measure the presence of volatile organic compounds (VOCs), oxygen, carbon dioxide, and methane took place on December 1, 2015;
- Routine quarterly sampling of groundwater from select site monitoring wells for petroleum hydrocarbons and from select wells for biostimulation parameters, in accordance with the groundwater sampling plan, took place on December 1 – 3, 2015;
- CAP implementation remedial system permitting and installation activities:
    - System procurement and installation coordination;
    - System piping and wellhead connections;
    - Completion of electric connections between supply and remediation system locations, and control panel connections and testing, as bid ;

- Electrical power drop coordination and procurement;
- National Park Service Special Use permitting coordination; and
- Sanitary sewer discharge evaluation, coordination, and permitting.

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

Sincerely,

Tim Klares
Project Manager, NRG

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

Groundwater
& Environmental Services, Inc.

4TH QUARTER CAP IMPLEMENTATION MONITORING REPORT

JANUARY 2016

POTOMAC RIVER GENERATING STATION

1400 NORTH ROYAL STREET
ALEXANDRIA, VA

PC# 2013-3154

PREPARED FOR:
TIMOTHY KLARES
NRG POTOMAC RIVER LLC
25100 CHALK POINT ROAD
AQUASCO, MD 20608

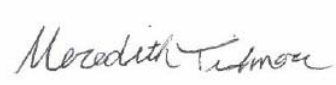
SUBMITTED TO:
VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY
NORTHERN REGIONAL OFFICE
13901 CROWN COURT
WOODBRIDGE, VA 22193-1453

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

JANUARY 27, 2016

SITE NAME:	Potomac River Generating Station
SITE LOCATION:	1400 North Royal Street, Alexandria, VA
VDEQ PC#	2013-3154
DATE OF REPORT:	January 27, 2016
LAND USE CLASSIFICATION:	Industrial
CURRENT PROPERTY OWNER:	NRG Potomac River LLC 8301 Professional Place, Suite 250 Landover, MD 20785
CONSULTANT:	Groundwater & Environmental Services, Inc. 1350 Blair Drive, Suite A Odenton, MD 21113 (800) 220-3606
RELEASE INFORMATION:	Release from two former 25,000 gallon Number 2 fuel oil Underground storage tanks

Prepared by:



Meredith Tidmore, EIT
Associate Engineer

Reviewed by:

Dan Drennan, PE
Project Engineer

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Senior Project Manager

Table of Contents

1.0 INTRODUCTION 4

1.1 SITE HISTORY 4

1.2 SURROUNDING PROPERTIES 5

2.0 SITE CHARACTERIZATION AND MONITORING ACTIVITIES 6

2.1 WELL GAUGING AND LNAPL BAILING 6

2.3 HEADSPACE VAPOR MONITORING 7

2.4 GROUNDWATER SAMPLING PLAN 8

2.5 GROUNDWATER SAMPLING 8

2.5 GROUNDWATER ANALYTICAL FINDINGS 9

3.0 REMEDIATION SYSTEM INSTALLATION ACTIVITIES 12

3.1 NATIONAL PARK SERVICE COORDINATION 12

3.2 REMEDIAL SYSTEM INSTALLATION 12

3.3 ALEXANDRIA RENEWAL ENTERPRISES COORDINATION 13

3.4 BULK HEAD WALL SEEP SEALING 14

3.4 PERMIT SUMMARY 14

3.5 FUTURE ACTIVITIES (1ST QUARTER 2016) 16

3.7 UPDATED CAP IMPLEMENTATION SCHEDULE 16

4.0 CONCLUSIONS 17

FIGURES:

1 – SITE LOCATION MAP
2 – SITE LAYOUT MAP
3 – SITE MAP
4 – POTENTIOMETRIC SURFACE SHALLOW ZONE AQUIFER
5 – POTENTIOMETRIC SURFACE DEEP ZONE AQUIFER
6 – TPH-DRO CONCENTRATION CONTOURS SHALLOW ZONE AQUIFER
7 – TPH-DRO CONCENTRATIONS CONTOURS DEEP ZONE AQUIFER

TABLES:

1 – WELL CONSTRUCTION TABLE

2 – GROUNDWATER GAUGING DATA
3 – HISTORICAL GROUNDWATER FIELD PARAMETER DATA
4 – GROUNDWATER MONITORING PLAN
5 – HISTORICAL GROUNDWATER ANALYTICAL DATA
6 – HISTORICAL GROUNDWATER BIOSTIMULATION ANALYTICAL DATA

ATTACHMENTS:

A – CERTIFICATE OF RECYCLING
B – LABORATORY ANALYTICAL REPORTS AND CHAIN OF CUSTODY DOCUMENTATION
C – PHOTOGRAPHIC RECORD

1.0 INTRODUCTION

Groundwater & Environmental Services, Inc. (GES) has prepared this 4th Quarter 2015 CAP Implementation Monitoring Report (CMR) on behalf of NRG Potomac River LLC (NRG), documenting environmental monitoring and corrective action activities performed at the Potomac River Generating Station (PRGS), located at 1400 North Royal Street, Alexandria, VA (the site). Site activities were performed to address a subsurface petroleum release regulated by the Virginia Department of Environmental Quality (VDEQ) Northern Regional Office (NRO) under Pollution Complaint (PC) #2013-3154. The site is the location of a decommissioned power generating facility. A Site Location Map is provided as **Figure 1**, a Site Layout Map, depicting pertinent features of the site and adjacent areas, is provided as **Figure 2**, and a Site Map is provided as **Figure 3**.

Specifically, this summary report documents the following activities conducted during the 4th Quarter of 2015:

- Monthly liquid level gauging and manual LNAPL bailing of select site groundwater wells to measure elevations of groundwater and light non-aqueous phase liquid (LNAPL) hydrocarbons, if present;
- Comprehensive gauging of all accessible site groundwater wells;
- Biostimulation headspace vapor monitoring of select site groundwater wells to measure the presence of volatile organic compounds (VOCs), oxygen, carbon dioxide, and methane;
- Completion of a revised groundwater sampling plan;
- Routine quarterly sampling of groundwater from select site groundwater wells for total petroleum hydrocarbons – diesel range organics (TPH-DRO) and from select wells for biostimulation parameters; and
- CAP Implementation remedial system permitting and installation activities.

1.1 SITE HISTORY

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

PC #2013-3154 was opened by the VDEQ following the detection of petroleum hydrocarbons during closure activities associated with the two 25,000-gallon fuel oil USTs. The VDEQ requested that a Site Characterization Report (SCR) be prepared to characterize the extent of contamination at the site. URS Corporation (URS) submitted a Site Conceptual Model (SCM) on June 11, 2013, which included a

discussion of the initial detection of petroleum hydrocarbons during the closures of the two No. 2 fuel oil USTs, as well as descriptions of the various subsurface utilities in the vicinity of the USTs.

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

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

1.2 SURROUNDING PROPERTIES

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

2.0 SITE CHARACTERIZATION AND MONITORING ACTIVITIES

The 4th Quarter 2015 scope of work was developed in coordination with the VDEQ as outlined in two Activity Authorization Forms (AAFs). The first AAF was approved by the VDEQ on September 24, 2015 and the second AAF was approved by the VDEQ on December 1, 2015. The following site characterization and monitoring activities were conducted during this monitoring period:

- October, November, and December 2015:
    - Monthly gauging of select groundwater wells. Hand bailing of LNAPL from select groundwater wells. During November and December gauging events, system wells with pumps were not bailed even if measurable LNAPL was present. The LNAPL in those wells will be pumped out by the system when it is turned on.
- December 1 – 3, 2015:
    - Site-wide gauging and biostimulation headspace vapor monitoring and collection of down-well field parameters of select groundwater wells.
- December 1 – 3, 2015:
    - Gauging and groundwater sampling of all accessible site groundwater wells containing sufficient water for sampling and not containing a measureable thickness of LNAPL.

A Well Construction Table is included as **Table 1**.

A Certificate of Recycling was received from Clean Earth, Inc. for the 14.89 tons of non-hazardous contaminated material disposed of between July 8 and 14, 2015 associated with prior site characterization activities. The certificate of recycling is included as **Attachment A**.

2.1 WELL GAUGING AND LNAPL BAILING

An oil-water interface probe capable of measuring groundwater and LNAPL to 0.01 feet was used to gauge the site groundwater wells. During the 4th Quarter, all accessible site groundwater wells were gauged during a comprehensive gauging event prior to groundwater sampling. Select groundwater wells that historically exhibited measureable LNAPL or elevated dissolved phase hydrocarbon concentrations were also gauged on a monthly basis. Gauging events conducted during the 4th Quarter are summarized below:

- Gauging of select wells monthly:
    - October 6, 2015
    - November 11, 2015
- Site-wide gauging of all accessible wells:
    - December 1, 2015
- Sampling of all accessible wells:
    - December 1 – 3, 2015

The 4th Quarter 2015 Groundwater Gauging Data Summary is presented as **Table 2**. LNAPL was detected in groundwater wells MW-01S, RW-05, MW-10S, MW-25S, RW-25, RW-51, MW-122, MW-123S, RW-25S, and TW-07 during the 4th Quarter 2015, with a maximum thickness of 0.18 feet in MW/RW-05. During the October gauging event, approximately six ounces of LNAPL were bailed from wells monitoring wells MW-05 and MW-25. During the November gauging event, a trace amount of LNAPL was bailed from monitoring well MW-25S. LNAPL was not bailed from wells that had pumps installed. During the December gauging event, no LNAPL was bailed due to the presence of pumps in the wells with significant LNAPL thickness. The LNAPL will be pumped from those wells by the system when it is turned on.

Groundwater depths ranged from 2.76 feet below ground surface (bgs) in TW-14 to 28.99 feet bgs in RW-30S during the 4th Quarter 2015, which is consistent with historical data from the site. Site-wide gauging was conducted on December 1, 2015, in accordance with the tidal cycle of the Potomac River. High tide occurred at 1:20 pm on December 1, 2015. Site wells were gauged as quickly as possible by multiple personnel and gauging was conducted bracketing the river's high tide. This approach was used to minimize the impact of tidal influence on groundwater elevation data. Monitoring well MW-52 could not be gauged as water was flowing into the manhole. Monitoring well MW-105 was flooded and could not be gauged. Monitoring wells MW-16S and MW-108 were dry.

Two groundwater contour maps, representing shallow zone data and deep zone data, respectively, from the December 1, 2015 comprehensive gauging event, are presented as **Figure 4** and **Figure 5**. The shallow zone groundwater contour map indicates that groundwater flow is predominantly in the northeasterly direction with variable flow to the north, east, northeast, and southeast. The deep zone groundwater contour map indicates that groundwater flow is predominantly in the northeasterly direction with variable flow to the northwest and east. The hydraulic gradient at the site was calculated to be 0.0306 feet per foot in the shallow zone and 0.0197 feet per foot in the deep zone. The shallow zone hydraulic gradient was calculated between MW-100S and RW-30S; the deep zone hydraulic gradient was calculated between MW-14 and TW-02

2.3 HEADSPACE VAPOR MONITORING

Monitoring well biostimulation vapor headspace analysis was conducted at select groundwater wells during the December 1, 2015, comprehensive gauging event using a photoionization detector (PID) and a GEM 2000 landfill gas meter. The PID is 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 each field use.

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

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

2.4 GROUNDWATER SAMPLING PLAN

On November 19, 2015, a revised groundwater monitoring plan was prepared and submitted. The new plan was based upon a review of the MNA and analytical data collected to date and was designed to eliminate or reduce sampling of wells that are no longer necessary and to allow for collection and analysis of MNA parameters in key wells that will help in monitoring system effectiveness. The revised sampling plan was approved after several emails with the DEQ and some slight modifications. A copy of the new sampling plan is included as **Table 4**.

2.5 GROUNDWATER SAMPLING

On December 1 – 3, 2015, groundwater samples were collected from 23 groundwater wells using disposable bailers and six monitoring wells (TW-03, TW-04, TW-05, TW-06, TW-07, and TW-14) using a peristaltic pump and dedicated polyethylene tubing. MW-109S, MW-109, MW-110S, MW-110, MW-111, MW-112S, MW-112, MW-113, and MW-114 were not sampled, as their locations in the basement of the plant were inaccessible to GES personnel due to hazardous environmental conditions. MW-01S, RW-05, MW-25S, RW-25S, RW-25, and RW-51 were not sampled during the 4th Quarter 2015 sampling event, as the wells contained measurable thicknesses of LNAPL. MW-16S and MW-108 were not sampled, as the wells were dry. MW-52 and MW-105 were not sampled, as these wells were flooded.

Each monitoring well was gauged prior to purging and sampling, and gauging data is presented in **Table 2**. Prior to the collection of groundwater samples, a minimum of three well volumes of water was purged from each monitoring well using purge bailers or a peristaltic pump and dedicated polyethylene tubing. Purge bailers were decontaminated prior to purging each well. Select wells containing minimal volumes of water were not purged, and grab samples were immediately collected. Purge water was containerized in 55-gallon drums and stored onsite to be run through the system once it has been started. Groundwater samples were collected directly in laboratory provided bottleware, packaged on ice in coolers, and transported under proper chain of custody to Eurofins Lancaster Labs. Samples were requested to be analyzed for the following:

- Standard quarterly parameters
    - TPH-DRO
    - Benzene
    - Toluene
    - Ethylbenzene
    - Total Xylenes
    - Naphthalene
- Biostimulation parameters
    - Alkalinity
    - Nitrate (NO_3^{1-})
    - Nitrite (NO_2^{1-})
    - Manganese (Mn^{2+})
    - Ferrous Iron (Fe^{2+})
    - Sulfate (SO_4^{2-})

- Methane

Historical Groundwater Analytical Data is summarized in **Table 5** and is discussed further in **Section 2.5**. Historical Groundwater Biostimulation Analytical Data is provided as **Table 6**.

The complete laboratory reports and chain of custody documentation for the groundwater sampling event is presented as **Attachment B.**

2.5 GROUNDWATER ANALYTICAL FINDINGS

During the 4th Quarter 2015, 29 wells were sampled for TPH-DRO, and seven wells were sampled for benzene, toluene, ethylbenzene, total xylenes (BTEX), and naphthalene. BTEX and naphthalene data are also included in **Table 5**, for reference, for an additional seven monitoring wells sampled by Geosyntec in accordance with requirements from the District of Columbia Department of Energy & Environment. Those results will not be discussed here. Two TPH-DRO contour maps, representing shallow zone data and deep zone data, respectively, from the 4th Quarter 2015 sampling event, are presented as **Figure 6** and **Figure 7**. The results from the collection and analysis of groundwater samples from site monitoring wells sampled during the 4th Quarter 2015 are presented below:

- TPH-DRO was detected in 27 of the 29 groundwater wells, with a maximum concentration of 17,000 micrograms per liter (µg/L) recorded in recovery well RW-05S;
- Benzene was detected in five of the seven groundwater wells, with a maximum concentration of 61 µg/L in monitoring well MW-08S;
- Toluene was not detected above a method detection limit of 0.5 µg/L in any of the seven groundwater wells;
- Ethylbenzene was detected in six of the seven groundwater wells, with a maximum concentration of 29 µg/L in recovery well RW-72;
- Total Xylenes were detected in two of the seven groundwater wells, with a maximum concentration of 100 µg/L in recovery well RW-72; and
- Naphthalene was detected in five of the seven groundwater wells, with a maximum concentration of 41 µg/L in monitoring well MW-121.

Biostimulation data and field parameters were taken 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. Historical Groundwater Biostimulation Analytical Data Summary is presented as **Table 6,** and Historical Groundwater Field Parameters Data Summary is presented as **Table 3.**

The following chart details the anticipated changes in groundwater chemistry in order of reaction preference during various stages of biodegradation from aerobic to highly anaerobic conditions. Increased concentrations of alkalinity, nitrite, dissolved manganese, ferrous iron, and methane and decreased concentrations of oxidation reduction potential (ORP), dissolved oxygen (DO), nitrate, and sulfate are indicators of anaerobic activity.

Time →

← Distance from Source

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

The observed concentrations of DO, ORP, carbonate alkalinity, nitrate nitrogen, nitrite nitrogen, manganese, ferrous iron, sulfate as SO_4^{2-}, and methane provide supporting evidence that anaerobic degradation is occurring within the dissolved hydrocarbon plume and that aerobic conditions exist outside of the plume for both the shallow and deep zone aquifers. Based on a review of the biostimulation data and the field parameters, the following observations have been made:

- The groundwater quality data from monitoring wells MW-112S (shallow zone aquifer) and MW-114 (deep zone aquifer) are considered to be representative of background conditions due to the historical relative absence of dissolved-phase hydrocarbons in these wells and aerobic conditions within these wells.
- Monitoring wells MW-11, MW-14, MW-33 and MW-70 show either current or historic low levels of contamination and are upgradient or side-gradient of the main body of the plume. They have historically shown slight changes in some of the biostimulation parameters and appear to be fringe wells. Biostimulation parameters were not measured in these wells during the 4th Quarter 2015.
- DO concentrations indicate an anaerobic environment within the dissolved hydrocarbon plume within both the shallow and deep zone aquifers. DO concentrations from all six of the shallow zone aquifer wells (RW-05S, RW-28S, RW-30S, RW-116S, RW-117S, MW-123S), and all four of the deep zone aquifer wells (MW-27, MW-121, MW-122, RW-1), which were measured during the 4th Quarter 2015, were less than 1.00 milligram per liter (mg/L), which indicates an anaerobic environment within the dissolved-phase hydrocarbon plume. DO concentrations in the background wells, MW-112S and MW-114, have always been greater than 1.00 mg/L historically, which indicates an aerobic environment outside of the dissolved-phase hydrocarbon plume.
- ORP values are decreased from background conditions in both the shallow and deep aquifer zones. ORP values from all six of the shallow zone aquifer wells were negative during the 4th Quarter 2015 sampling event, which indicates that the shallow zone aquifer is in a reducing

condition. ORP values from all four deep zone aquifer wells were also negative during the 4th Quarter 2015 sampling event.

- Alkalinity concentrations were elevated as compared to background conditions in the one shallow zone aquifer well where it was measured (TW-06) and in the three deep zone aquifer wells where it was measured (MW-27, MW-121, MW-122), which indicates biodegradation is occurring.
- Dissolved manganese concentrations in the one shallow zone aquifer well where it was measured (TW-06) and in the three deep zone aquifer wells where it was measured (MW-27, MW-121, MW-122) show relatively increased concentrations over historic concentrations in background wells, with more significant increases in the deep zone wells, which are located in the source area of the plume. Historically, wells in the source zone and those downgradient, in both the shallow and deep zone aquifers have shown increased manganese concentrations relative to background.
- Nitrate concentrations in the one shallow zone aquifer well where it was measured (TW-06) and in the three deep zone aquifer wells where it was measured (MW-27, MW-121, MW-122) indicate that nitrate reduction is complete in these areas. Nitrite concentrations were only slightly elevated in one of the four wells (MW-121). Historical data suggests that nitrate reduction is complete across the site for wells within and downgradient of the plume.
- Ferrous iron concentrations in the one shallow zone aquifer well where it was measured (TW-06) and in the three deep zone aquifer wells where it was measured (MW-27, MW-121, MW-122) show significantly increased concentrations as compared with historical background well concentrations. Historical data from other shallow and deep zone wells show elevated ferrous iron concentrations in both shallow and deep zone wells in the source zone and downgradient.
- Sulfate as SO_4^{2-} concentrations in the one shallow zone aquifer well where it was measured (TW-06) and in the three deep zone aquifer wells where it was measured (MW-27, MW-121, MW-122) do not show significant decreases in sulfate as SO_4^{2-} concentrations compared to background. In the case of temporary well TW-06 and monitoring well MW-27, sulfate as SO_4^{2-} concentrations are higher than historical concentrations in background wells. This suggests that sulfate reduction may not be a significant process at this site. This is consistent with historical data collected from across the site, which shows that generally, sulfate as SO_4^{2-} concentrations are consistent with or higher than historic sulfate as SO_4^{2-} concentrations in background wells.
- Methane concentrations in the one shallow zone aquifer well where it was measured (TW-06) and in the three deep zone aquifer wells where it was measured (MW-27, MW-121, MW-122) are significantly higher than historic methane concentrations measured in background wells, indicating that methanogenesis is occurring within both the shallow and deep zone aquifers. This is consistent with historic data collected from across the site.

Overall, the biostimulation data and field parameters indicate that an active microbial population is present at the site and that the dissolved-phase hydrocarbons within the shallow and deep zone aquifers are attenuating via biodegradation. It appears that methanogenesis may currently be the predominant form of attenuation occurring at the site.

3.0 REMEDIATION SYSTEM INSTALLATION ACTIVITIES

Remediation system installation activities performed during the 4th Quarter 2015 in accordance with the CAP-II, which was approved by the VDEQ on March 17, 2015, include:

- System procurement and installation coordination;
- Completion of electric connections between supply and remediation system locations, and control panel connections and testing, as bid ;
- CAP implementation permitting and coordination;
- Electrical power drop coordination and procurement; and
- Sanitary sewer discharge evaluation, coordination, and permitting.

3.1 NATIONAL PARK SERVICE COORDINATION

On May 6, 2015, NRG and GES met with the NPS to discuss the NPS property Scope of Work (SOW) required to implement the approved CAP. NPS approved of the general SOW and confirmed the necessity of obtaining a Special Use Permit.

Since June, GES has been providing responses to NPS questions and submitting additional information about the SOW as the NPS application review has been progressing. This quarter, additional comments were received from the NPS on October 6, 2015, and GES provided responses the same day. On October 28, 2015, NPS stated that the permit was being drafted. The draft permit was issued on November 12, 2015, and a written response to NPS was provided on November 17, 2015, outlining questions and comments for various conditions in the draft permit. Of note, one condition stated that no trees were to be removed, which would inhibit the work scope from being completed. Through phone calls and correspondence, GES worked with the NPS to agree upon draft final conditions, to evaluate the vegetation that would need to be disturbed, and to identify acceptable replacement plant species for the brush cover as well as the existing trees. At the end of the quarter, the permit was still being finalized but expected to be approved without significant additional changes.

3.2 REMEDIAL SYSTEM INSTALLATION

This quarter, system installation activities were performed by Odyssey Environmental Services (Odyssey) with GES oversight to ensure compliance with the design specifications. The piping layouts were modified slightly from the initial designs to account for changes in grade across the Site and to minimize friction loss and reduce piping lengths where possible. All field changes were reviewed and approved by the Project Engineer to ensure there would be no reductions in biosparge, pump and treat (P&T), or total phase extraction (TPE) system efficiencies.

The system installation this quarter involved various activities. Specifically, the aboveground piping and wellhead connections were installed for the 8 onsite biosparge wells, 11 TPE wells, and 5 P&T wells. Pumps were installed in the P&T wells. The treated groundwater discharge line to Alexandria Renew Enterprises sanitary sewer tie-in location was installed. During the system installation, a third party driver ran over and damaged the wellhead for sparge well SP-07. Replacement parts were ordered and a repair was made during the same mobilization as the rest of the installation work. Two recovery wells, RW-118S and RW-25, required trenches with short sections of associated underground piping to allow vehicular traffic in those locations. A drive-over ramp was installed for recovery and air supply lines that

crossed a drive path. A trunk line for the off-site air sparge wells was also installed to the edge of NRG property in preparation for the future offsite air sparge network that will be installed on the NPS property alongside the Mt. Vernon trail. Once all piping had been installed, pressure testing was conducted to confirm that there were no losses across any of the piping runs. The remediation system enclosure was moved to its final onsite location, and insulation and heat trace installations began.

Due to the plant being inactive and the existing electrical service not being sufficient to power the remediation system and associated heat trace, a separate service from the provider (Dominion Power) was necessary. This required coordination with the Dominion project manager, designer, and construction supervisor as well as City of Alexandria inspectors. The fieldwork involved the installation of six additional utility poles along the northern portion of the PRGS property. Before digging work was conducted, a one-call notification was placed to Miss Utility of Virginia. Each hole for the six utility poles and their associated anchors was pre-cleared to six feet below grade or first refusal to ensure no subsurface utilities or anomalies were struck and/or damaged. One utility pole on the northwest portion of the Site, located adjacent to the existing Dominion transformer that now feeds the remediation system service rack, is located in close proximity to a critical underground PEPCO electric line. This critical line required additional coordination with PEPCO and one of their company representatives was required to be present during all field activities in the area. C&L Contractors (C&L) built and installed a service rack adjacent to the Dominion lateral with a meter base, CT cabinet, and service disconnect. C&L built a second rack with a disconnect for the remediation systems adjacent to the system enclosure, and power was brought over from the service rack via overhead lines hung on existing and newly installed utility poles. Due to the location of the service disconnect with respect to the utility pole used to bring power over to the system, hand-digging by GES was required to create an 18 inch deep trench for C&L Contractors to install an underground electrical conduit from the service disconnect to the utility pole. Please note that the digging of the trench was not included in the original electric work bid (CAPI24) as C&L is not insured to complete this type of digging. The heat trace required a separate breaker panel and fused disconnect, which was installed near the system enclosure, by C&L Contractors. The electrical scope of work completed under bid CAPI24 is complete. A Photographic Record of the electrical scope of work is included as **Attachment C**. The Dominion fieldwork was delayed and rescheduled several times, causing additional effort for coordination and follow ups. The new service, associated wiring, and service rack installations have been completed. Final connections of the heat trace to the heat trace breaker panel were completed in early January 2016 by a licensed electrician contracted by Stone Environmental.

3.3 ALEXANDRIA RENEWAL ENTERPRISES COORDINATION

During the third quarter of 2015, Alexandria Renewal Enterprises (AlexRenew) provided verbal approval to discharge extracted groundwater to their sanitary sewer system after passing through the remediation system. On October 23, 2015, GES contacted AlexRenew to confirm the analytical requirements for the pre-discharge compliance sample. AlexRenew responded stating that the proposed duration of the discharge triggered the requirement of a permit and requested all documents to be re-submitted. The same day, GES provided the original discharge approval request and previous AlexRenew correspondence, along with maps, equipment diagrams, analytical data for the pumping wells, and an explanation of why remediation was required by the VDEQ.

On November 4, 2015, AlexRenew requested the following additional information: a complete Application for Significant Industrial User Permit; all analytical results for soil and groundwater in the area being remediated; a site plan showing location and depth of wells, treatment system, meter, and connection to the sanitary system; field verification of the sewer connection location; any approvals

requested and/or received from the City of Alexandria for construction and operation of the system; flow meter manufacturer/model information and documentation of meter calibration; description of any deviations from the CAP approval dated March 17, 2015; criteria for monitoring and replacing particulate and oil filters upstream of the totalizer; and calculations of flow breakdowns per well; laboratory accreditation documents; the release fuel type; and a summary of routine sampling already being conducted. The final submittal package was completed and sent to AlexRenew on November 20, 2015. AlexRenew confirmed its receipt and in-progress status on December 3, 2015. GES continued to follow up regularly and on December 31, 2015, AlexRenew requested additional information about the sanitary sewer field verification, engineering calculations showing that the capacity of the sewer would be sufficient for the proposed flow, and clarification on one analytical results table. The additional data was provided to AlexRenew by GES on January 5, 2016.

On January 13, 2016, AlexRenew issued an approval letter with an outline of the conditions for the discharge and requiring a pre-discharge sample to ensure that the system effluent meets the required discharge limits. On January 18, 2016 GES provided a response addressing each of the 11 conditions in the letter. Clarifications are still needed regarding wet weather events, pH monitoring, sampling and inspection requirements, and fees and payments; however, this will not delay initial start-up.

3.4 BULK HEAD WALL SEEP SEALING

A total of six seep areas have been identified in the steel bulkhead wall along the Potomac River. A proposal from a qualified marine contractor will be solicited, and the work will be performed in conjunction with the offsite well installation, which is pending final NPS approval. Generally, the seeps will be sealed by grinding and welding additional steel plates onto the existing sheet piling.

3.4 PERMIT SUMMARY

Special Use Permit	Required for: Offsite air sparge well installation and remediation system piping on the Mt. Vernon Trail and bulk head seep sealing Issued by: National Parks Service Progress: A permit application was submitted on June 2, 2015 and GES and NPS personnel completed a vegetation inventory on June 15, 2015. As discussed in Section 3.1, NPS review of the permit application is ongoing.
Building Permit (2):	Required for: Pre-fabricated systems/enclosures (Building Plan OR Existing Commercial Tenant Improvement OR Industrialized Building/Construction Trailer). Issued by: The City of Alexandria, Permit Center Progress: Building Permit BLD2015-01702 has been approved, effective 9/18/2015 – 3/18/2016.
Certificate of Occupancy (2):	Required for: Authorization to occupy building Issued by: The City of Alexandria, Department of Code Administration Progress: The City of Alexandria confirmed that no Certificate of Occupancy is required.

Letter of Authorization:

Required for: Sanitary sewer discharges less than 25,000 gallons per day with low risk of negatively impacting the sanitary sewer system.
Issued by: Fairfax County Industrial Waste Section, Alexandria Sanitation Authority/Alexandria Renewal Enterprises (AlexRenew)
Progress: On September 14, 2015, AlexRenew provided verbal approval pending receipt of trial start-up discharge results. On November 3, 2015, AlexRenew stated that a permit would be required and that additional information and a formal Application for Significant Industrial User Permit was necessary.

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
Progress: On November 3, 2015, GES re-submitted information. After significant coordination effort and additional data submittals, AlexRenew issued an approval letter on January 13, 2016.

Electrical Permit:

Required for: Installation of a power drop to the site.
Issued by: The City of Alexandria
Progress: The City of Alexandria approved and issued the permit.

Power Service Application

Required for: Power service to the site.
Issued by: Dominion Power
Progress: The Dominion power connection is complete.

Air Permit

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

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

Because even the maximum uncontrolled emissions are projected to be less than 25 tons per year, a Minor New Source Review permit is not required. However, GES does plan to conduct regular testing for nuisance odors outside the system and at the property boundary. However, if nuisance odors are detected after start-up, with consultation

with the City of Alexandria and VDEQ, additional treatment may be added to the system as a precautionary measure.

3.5 FUTURE ACTIVITIES (1ST QUARTER 2016)

- Routine quarterly groundwater sampling for petroleum and biostimulation parameters in accordance with the approved groundwater sampling plan;
- Monthly gauging of select wells;
- CAP implementation permitting and coordination;
- Final system connections and installation of sensors and alarms to prevent unauthorized discharges;
- Sanitary sewer discharge approval;
- Onsite system startup following batching and required sampling for sanitary sewer permit;
- Weekly O&M for first six weeks following permanent system startup and semi-weekly O&M thereafter;
- Offsite air sparge well installation, system installation, and bulkhead seep sealing following approval of NPS Special Use Permit; and
- Submittal of quarterly CMR.

3.7 UPDATED CAP IMPLEMENTATION SCHEDULE

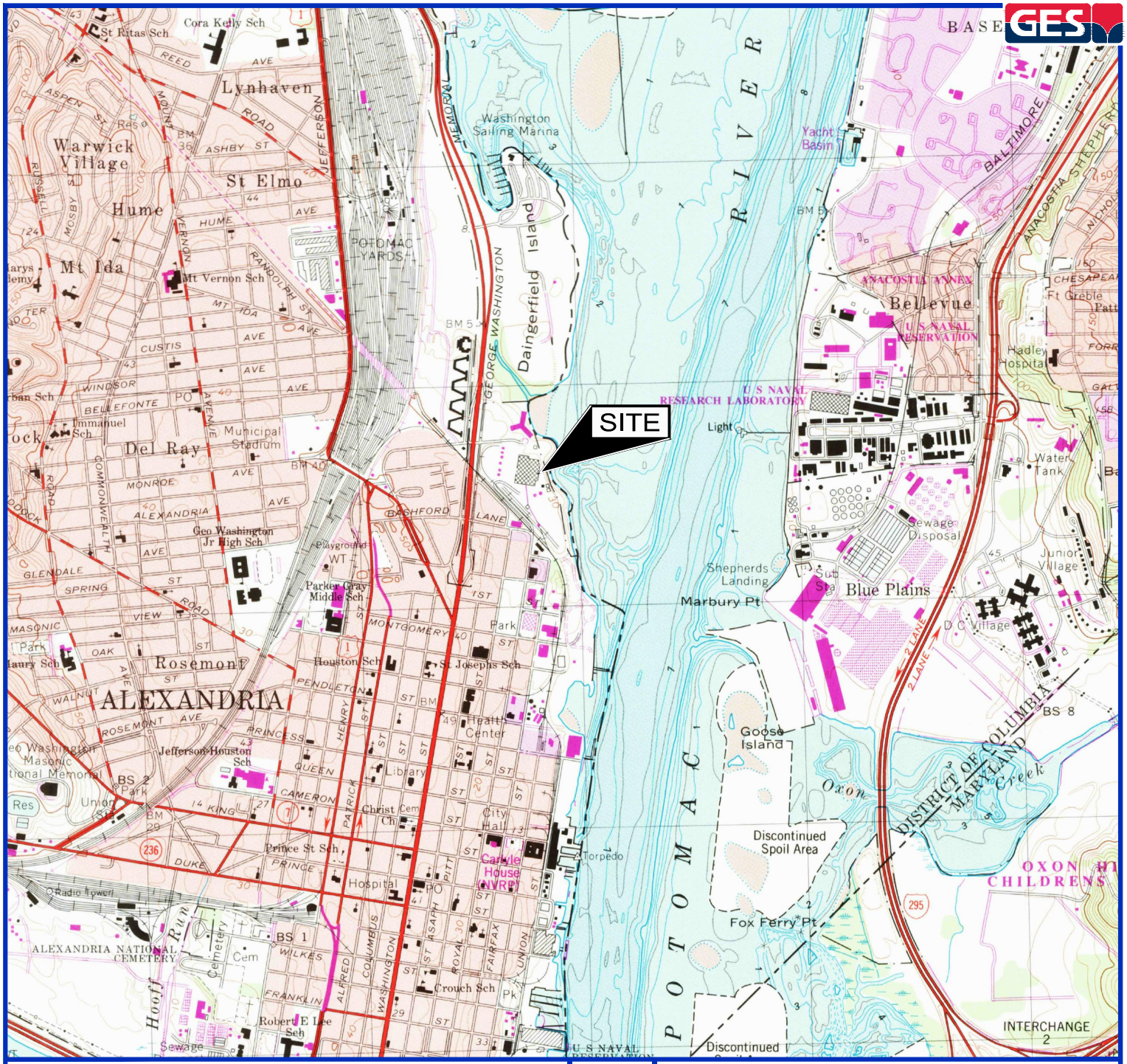
January 2016	- NPS permitting and planning for offsite system installation (estimated)
January 2016	- System testing and initial sanitary sewer discharge sampling
January 2016	- Obtain sanitary sewer discharge permit
February 2016	- Full onsite system activation
March 2016	- Offsite system installation, seep sealing, and offsite system activation
March 2016	- Groundwater sampling 4-5 weeks following onsite system activation.

4.0 CONCLUSIONS

GES has completed this 4th Quarter 2015 CMR for the Potomac River Generating Station, located at 1400 North Royal Street, Alexandria, Virginia. The following is a summary of pertinent findings from the 4th Quarter 2015 monitoring and remedial activities conducted at the site:

- LNAPL was observed in nine of the site monitoring wells (MW-01S, MW-05/RW-05, MW-10S, MW-25/RW-25, MW-25S, MW-51/RW-51, MW-122, MW-123S, and RW-25S);
- Groundwater flow in the shallow zone is predominantly in the northeasterly direction with variable flow to the north, east, northeast, and southeast. Groundwater flow in the deep zone is predominantly in the northeasterly direction with variable flow to the northwest and east.
- TPH-DRO was detected in 27 of the sampled 29 monitoring wells sampled, with a maximum concentration of 17,000 µg/L in RW-05S;
- Benzene was detected in five of the seven groundwater wells, with a maximum concentration of 61 µg/L in monitoring well MW-08S. Toluene was not detected above a method detection limit of 0.5 µg/L in any of the seven groundwater wells. Ethylbenzene was detected in six of the seven groundwater wells, with a maximum concentration of 29 µg/L in recovery well RW-72. Total Xylenes were detected in two of the seven groundwater wells, with a maximum concentration of 100 µg/L in recovery well RW-72.
- Naphthalene was detected in five of the seven groundwater wells, with a maximum concentration of 41 µg/L in monitoring well MW-121.
- The analysis of biostimulation parameters indicated that an active microbial population is present at the site and that the dissolved-phase hydrocarbons within the shallow and deep zone aquifers are currently being reduced predominantly through methanogenesis;
- The system was delivered and inspected, aboveground piping and well connections were completed and tested for wells onsite, a trunk line was installed for future offsite air sparge wells, the sanitary sewer discharge line was installed, and electrical connections were made to the system. In addition, Dominion Power completed their final connections supplying power to the remediation systems.
- On January 13, 2016 an approval letter was received from AlexRenew, allowing the temporary discharge of treated groundwater to the sanitary sewer pending results of testing to ensure the discharge meets approved discharge limits. On January 18, 2016, GES responded with questions and comments regarding conditions of the approval, and is awaiting a response. The clarifications will not delay system startup.
- Additional site activities will take place during the 1st Quarter of 2016, including monthly gauging of select wells; quarterly groundwater sampling; final system connections and installation of safety measures to avoid any non-authorized discharges; final onsite system batching and sampling for parameters required by the sanitary sewer discharge permit; permanent startup of onsite system, completion of offsite sparge well and system piping and seep sealing following final approval of the NPS Special Use Permit; and offsite system activation.

FIGURES



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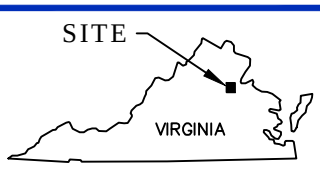

QUADRANGLE LOCATION
NO SCALE

DRAFTED BY:	JW
CHECKED BY:	NG
REVIEWED BY:	AC

NORTH

SITE LOCATION MAP

FORMER POTOMAC RIVER GENERATING STATION
ALEXANDRIA, VIRGINIA

Groundwater & Environmental Services, Inc.
1350 BLAIR DR., SUITE A, CROFTON, MD 21113

SCALE IN FEET	DATE	FIGURE
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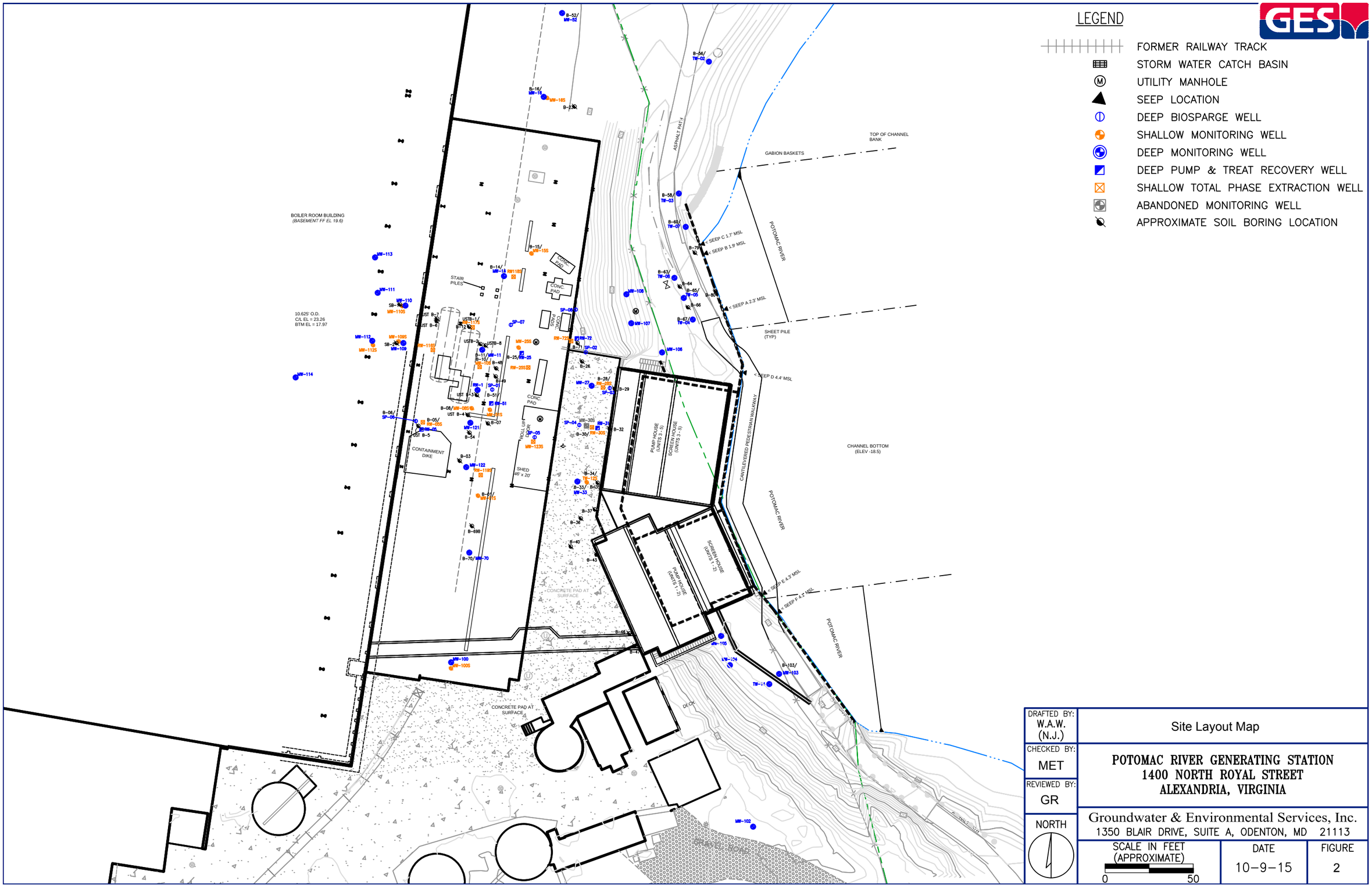

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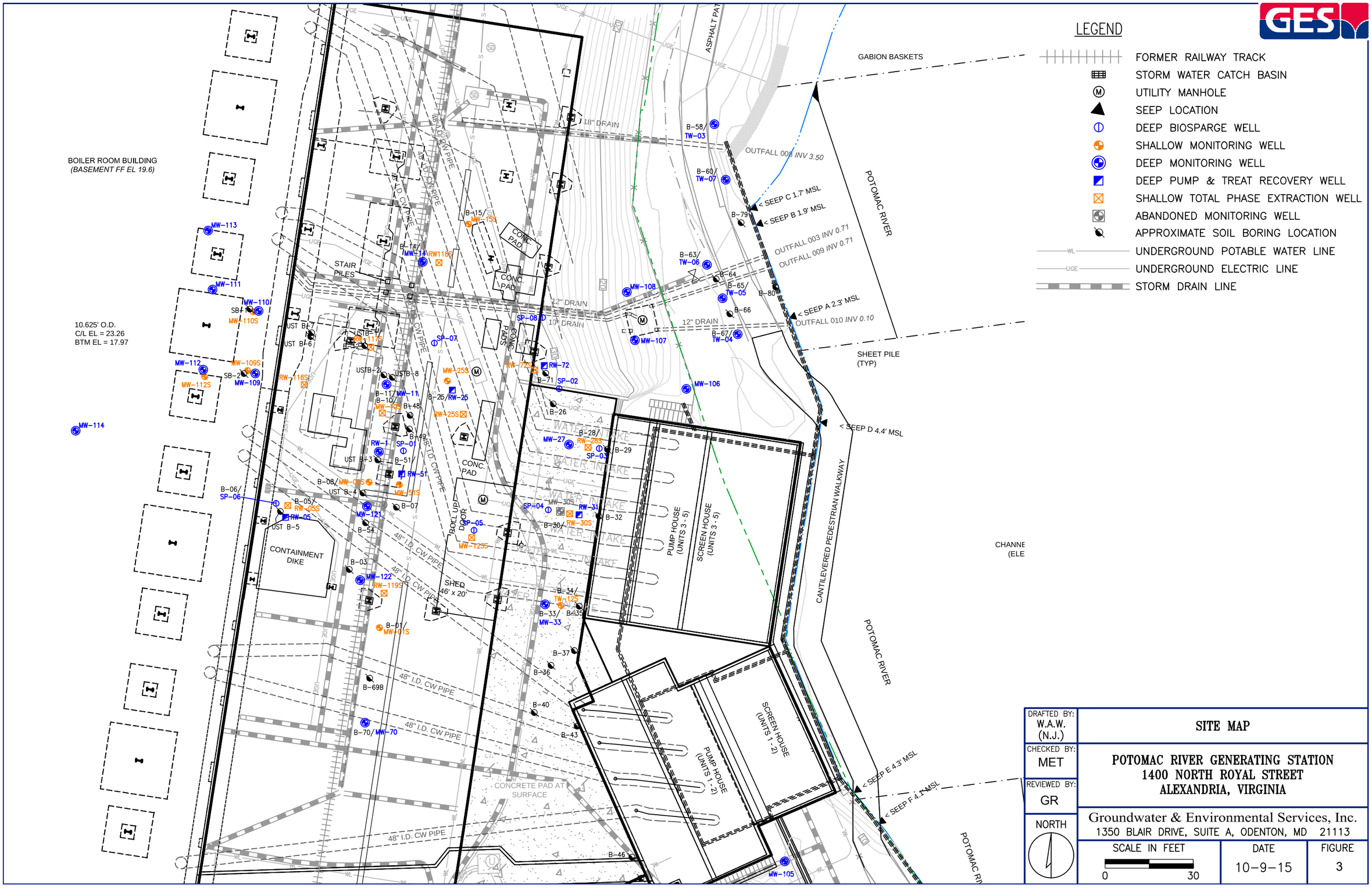

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Legend

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

Note:
MW-16S was dry. MW-105 was not gauged because it was flooded. MW-103 was not used to make groundwater contours due to anomalous gauging data.

MW-109S, MW-110S, and MW-112S were not gauged due to the presence of asbestos in the basement.

DRAFTED BY: MET	POTENTIOMETRIC SURFACE SHALLOW ZONE AQUIFER - 4th QUARTER 2015
CHECKED BY: DMC	FORMER POTOMAC RIVER GENERATING STATION 1400 NORTH ROYAL STREET ALEXANDRIA, VIRGINIA
REVIEWED BY: AAB	Groundwater & Environmental Services, Inc. 1350 BLAIR DRIVE, SUITE A, ODENTON, MD 21113
NORTH	SCALE IN FEET 0 50 / DATE 1-12-16 / FIGURE 4

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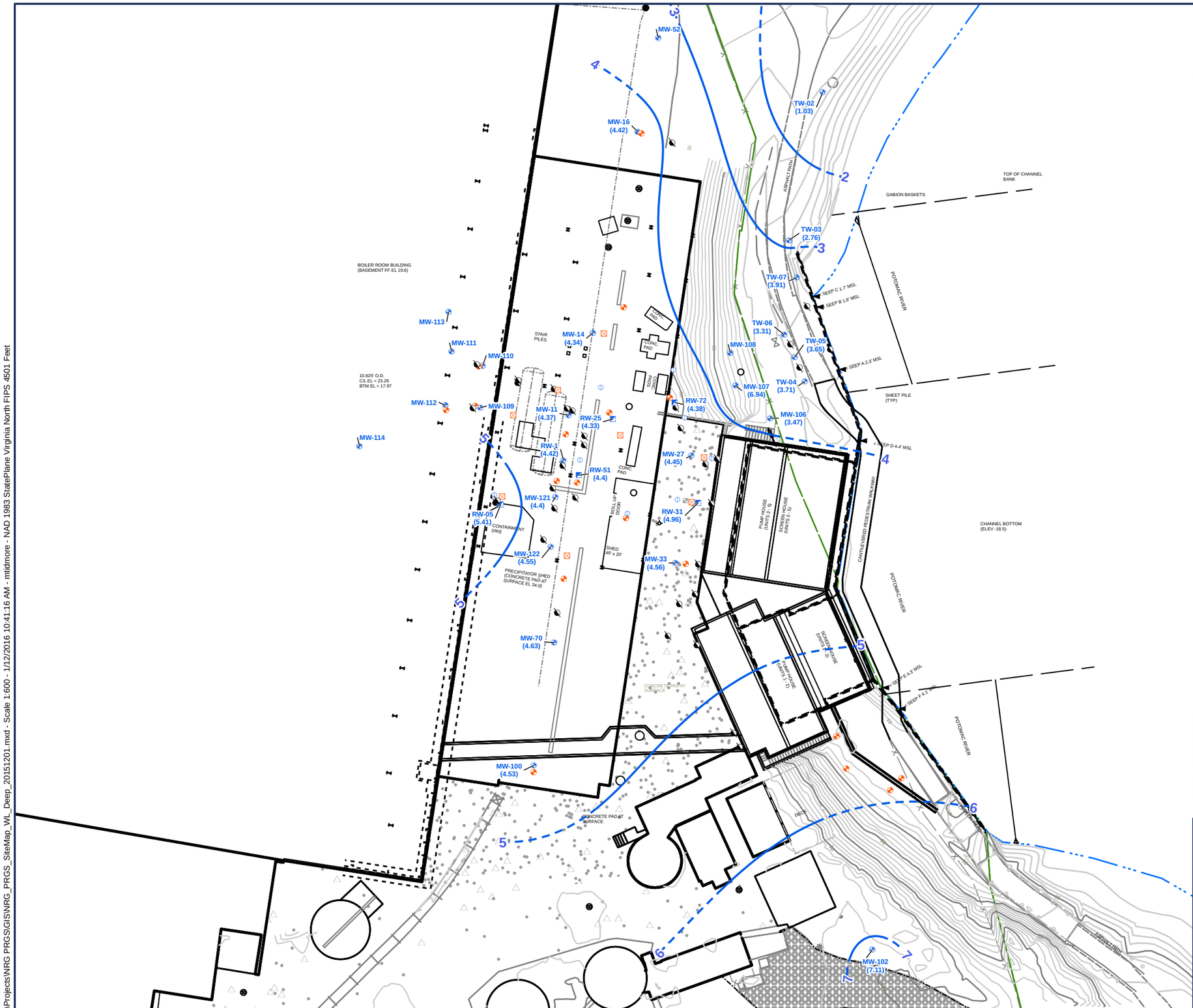

Legend

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

Note:
MW-108 was dry. MW-52 was not gauged because the well was flooded. MW-107 was not used to make groundwater contours due to anomalous gauging data.

MW-109, MW-110, MW-111, MW-112, MW-113, and MW-114 were not gauged due to the presence of asbestos in the basement.

DRAFTED BY: MET	POTENTIOMETRIC SURFACE DEEP ZONE AQUIFER – 4th QUARTER 2015
CHECKED BY: DMC	FORMER POTOMAC RIVER GENERATING STATION 1400 NORTH ROYAL STREET ALEXANDRIA, VIRGINIA
REVIEWED BY: AAB	Groundwater & Environmental Services, Inc. 1350 BLAIR DRIVE, SUITE A, ODENTON, MD 21113
NORTH	SCALE IN FEET 0 50 / DATE 1–12–16 / FIGURE 5

Z:\Projects\NRG PRGS\GIS\NRG_PRGS_SiteMap_WL_Deep_20151201.mxd - Scale 1:600 - 1/12/2016 10:41:16 AM - mtidmore - NAD 1983 StatePlane Virginia North FIPS 4501 Feet

Legend

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

Note:
TPH-GRO: Total Petroleum Hydrocarbons - Diesel Range Organics
MG/L: Milligrams per liter
LNAPL: Light non-aqueous phase liquid
<#: Not detected above a method detection limit of #

Control was used at MW-100S and MW-112S for contour generation because both wells are historically non-detect and were not sampled during the 4th quarter 2015 sampling event.

DRAFTED BY: MET	TPH-DRO CONCENTRATION CONTOURS SHALLOW ZONE AQUIFER - 4th QUARTER 2015
CHECKED BY: DMC	FORMER POTOMAC RIVER GENERATING STATION 1400 NORTH ROYAL STREET ALEXANDRIA, VIRGINIA
REVIEWED BY: AAB	Groundwater & Environmental Services, Inc. 1350 BLAIR DRIVE, SUITE A, ODENTON, MD 21113
NORTH	SCALE IN FEET 0 50 / DATE 1-11-16 / FIGURE 6

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Legend

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

Note:
TPH-GRO: Total Petroleum Hydrocarbons - Diesel Range Organics
MG/L: Milligrams per liter
LNAPL: Light non-aqueous phase liquid
<#: Not detected above a method detection limit of #

Control was used at MW-109 and MW-70 for contour generation because both wells are historically non-detect and were not sampled during the 4th quarter 2015 sampling event.

DRAFTED BY: MET	TPH-DRO CONCENTRATION CONTOURS DEEP ZONE AQUIFER - 4th QUARTER 2015
CHECKED BY: DMC	FORMER POTOMAC RIVER GENERATING STATION 1400 NORTH ROYAL STREET ALEXANDRIA, VIRGINIA
REVIEWED BY: AAB	Groundwater & Environmental Services, Inc. 1350 BLAIR DRIVE, SUITE A, ODENTON, MD 21113
NORTH	SCALE IN FEET: 0 50 / DATE: 1-12-16 / FIGURE: 7

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TABLES

Table 1

WELL CONSTRUCTION TABLE

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

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

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-102	MW	Deep	8/11/2014	2	37	27	10
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	Deep	7/22/2014	2	11	3	8
MW-108	MW	Deep	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	MW	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

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-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
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

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-08	SP	Deep	7/8/2015	2	36	33	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 and Treat Well
SP = Air Sparge Point
TPE = Total Phase Extraction Well
TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics
VDEQ = Virginia Department of Environmental Quality
DDOE = District Department of the Environment

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Adjusted Groundwater Elevation (ft)	Time	Comments
MW-01S	08/08/2014	NR	22.67	-	-	-	26.58	-	-	
	08/11/2014	NR	22.62	-	-	-	-	-	-	
	08/15/2014	NR	22.60	-	-	-	-	-	-	
	08/18/2014	NR	22.88	-	-	-	-	-	-	
	08/25/2014	30.87	22.27	-	-	-	-	8.60	-	
	09/02/2014	30.87	22.28	-	-	-	-	8.59	-	
	09/15/2014	30.87	22.61	-	-	-	-	8.26	-	
	09/22/2014	30.87	22.75	-	-	-	-	8.12	-	
	09/24/2014	30.87	22.95	-	-	-	-	7.92	-	
	10/01/2014	30.87	22.94	-	-	-	26.59	7.93	-	
	10/10/2014	30.87	23.06	-	-	-	-	7.81	-	
	10/20/2014	30.87	23.53	-	-	-	26.58	7.34	-	
	02/24/2015	30.87	25.89	25.74	0.15	-	26.65	4.98	15:24	LNAPL not manually bailed
	02/26/2015	30.87	25.61	25.51	0.10	-	-	5.26	16:10	LNAPL not manually bailed
	03/04/2015	30.87	25.63	25.52	0.11	-	-	5.24	14:21	LNAPL not manually bailed
	03/11/2015	30.87	25.51	25.39	0.12	-	-	5.36	13:00	LNAPL not manually bailed
	03/18/2015	30.87	25.14	25.03	0.11	-	-	5.73	11:19	LNAPL not manually bailed
	03/26/2015	30.87	25.07	24.98	0.09	-	26.60	5.80	10:35	LNAPL not manually bailed
	04/02/2015	30.87	25.06	24.96	0.10	-	26.60	5.81	11:33	LNAPL not manually bailed
	04/08/2015	30.87	25.10	24.96	0.14	-	26.64	5.77	9:27	LNAPL not manually bailed
	04/13/2015	30.87	24.92	24.83	0.09	-	-	5.95	10:35	LNAPL not manually bailed
	04/23/2015	30.87	24.38	24.35	0.03	-	26.55	6.49	12:04	LNAPL not manually bailed
	04/29/2015	30.87	24.38	24.34	0.04	-	26.60	6.49	14:29	LNAPL not manually bailed
	05/04/2015	30.87	24.32	24.28	0.04	-	-	6.55	11:55	LNAPL not manually bailed
	05/11/2015	30.87	24.37	24.31	0.06	-	-	6.50	10:55	LNAPL not manually bailed
	05/21/2015	30.87	24.46	24.41	0.05	-	-	6.41	12:15	LNAPL not manually bailed
	05/28/2015	30.87	24.65	24.54	0.11	-	26.55	6.22	11:50	LNAPL not manually bailed
	06/02/2015	30.87	24.52	24.46	0.06	-	-	6.35	13:16	LNAPL not manually bailed
	06/09/2015	30.87	24.12	24.10	0.02	-	-	6.75	10:43	LNAPL not manually bailed
	06/16/2015	30.87	24.05	24.04	0.01	-	-	6.82	11:37	LNAPL not manually bailed
	06/26/2015	30.87	23.72	-	-	-	26.50	7.15	10:43	LNAPL not manually bailed
	07/01/2015	30.87	23.25	23.24	0.01	-	-	7.62	12:34	LNAPL not manually bailed
	07/08/2015	30.87	22.93	TRACE	TRACE	TRACE	-	7.94	11:50	
	07/13/2015	30.87	22.72	-	-	-	-	8.15	9:42	
	07/20/2015	30.87	22.40	-	-	-	-	8.47	9:37	
	07/28/2015	30.87	22.43	-	-	-	26.69	8.44	10:56	
	08/04/2015	30.87	22.46	22.45	0.01	TRACE	26.56	8.41	10:35	
	08/11/2015	30.87	22.50	TRACE	TRACE	TRACE	26.61	8.37	10:39	
	08/18/2015	30.87	22.63	-	-	-	-	8.24	10:46	
	08/24/2015	30.87	22.69	-	-	-	-	8.18	10:43	
	09/02/2015	30.87	22.90	22.88	0.02	TRACE	26.62	7.97	9:32	

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Adjusted Groundwater Elevation (ft)	Time	Comments
MW-01S (cont.)	09/09/2015	30.87	22.96	22.95	0.01	-	26.60	7.91	11:17	
	09/17/2015	30.87	23.19	23.18	0.01	-	26.62	7.68	10:58	
	09/23/2015	30.87	23.07	23.06	0.01	TRACE	-	7.80	11:01	
	09/28/2015	30.87	23.10	TRACE	TRACE	-	26.10	7.77	10:08	
	10/05/2015	30.87	23.09	TRACE	TRACE	-	26.60	7.78	11:07	
	11/10/2015	30.87	23.59	-	-	-	-	7.28	13:10	
	12/01/2015	30.87	24.05	24.04	0.01	-	26.57	6.82	12:02	LNAPL not manually bailed
TW-01	12/18/2013	38.31	31.38	-	-	-	-	6.93	-	
	01/08/2014	38.31	31.80	31.79	0.01	-	-	6.52	-	
	03/07/2014	38.31	30.41	-	-	-	-	7.90	-	
	03/13/2014	38.31	31.13	-	-	-	-	7.18	-	
	03/20/2014	38.31	30.36	-	-	-	-	7.95	-	
	03/27/2014	38.31	31.22	-	-	-	-	7.09	-	
	04/03/2014	38.31	30.36	-	-	-	-	7.95	-	
	04/08/2014	38.31	30.21	-	-	-	-	8.10	-	
	04/17/2014	38.31	31.02	-	-	-	-	7.29	-	
	04/22/2014	38.31	30.18	-	-	-	-	8.13	-	
	04/29/2014	38.31	30.22	-	-	-	-	8.09	-	
	05/05/2014	38.31	30.29	-	-	-	-	8.02	-	
	05/12/2014	38.31	30.28	-	-	-	-	8.03	-	
	05/19/2014	38.31	30.16	-	-	-	-	8.15	-	
	06/02/2014	38.31	30.17	-	-	-	-	8.14	-	
	06/09/2014	38.31	30.08	-	-	-	-	8.23	-	
	06/16/2014	38.31	30.23	-	-	-	-	8.08	-	
	06/23/2014	38.31	30.02	-	-	-	-	8.29	-	
	07/02/2014	38.31	29.98	-	-	-	-	8.33	-	
	07/07/2014	38.31	30.16	-	-	-	34.52	8.15	-	
	07/14/2014	38.31	29.89	-	-	-	-	8.42	-	
	07/31/2014	38.31	30.26	-	-	-	34.50	8.05	-	
	08/01/2014	Overdrilled and replaced with MW-05								
MW-05 / RW-05	08/08/2014	NR	25.41	-	-	-	33.94	-	-	
	08/11/2014	NR	25.16	-	-	-	-	-	-	
	08/15/2014	NR	24.98	-	-	-	-	-	-	
	08/16/2014	NR	24.84	24.80	0.04	NA	-	-	-	Transducers in well for pump test
	08/18/2014	NR	24.88	24.80	0.08	NA	-	-	-	Transducers in well for pump test
	08/25/2014	31.57	23.27	22.99	0.28	0.06	-	8.54	-	
	09/02/2014	31.57	23.62	23.07	0.55	0.31	-	8.43	-	
	09/15/2014	31.57	23.63	23.13	0.50	NR	-	8.38	-	
	09/19/2014	31.57	23.72	23.18	0.54	0.17	-	8.32	-	

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Adjusted Groundwater Elevation (ft)	Time	Comments
MW-05 / RW-05 (cont.)	09/22/2014	31.57	23.25	22.97	0.28	0.06	-	8.56	-	
	09/24/2014	31.57	23.33	23.13	0.20	NR	-	8.41	-	HIT event
	10/01/2014	31.57	26.67	TRACE	TRACE	TRACE	31.94	4.90	-	
	10/10/2014	31.57	26.58	26.57	0.01	TRACE	-	4.99	-	
	10/13/2014	31.57	26.73	26.71	0.02	TRACE	-	4.86	-	
	10/20/2014	31.57	26.91	26.89	0.02	TRACE	-	4.68	-	
	10/27/2014	31.57	27.07	27.06	0.01	TRACE	-	4.51	-	
	11/07/2014	31.57	26.93	26.88	0.05	TRACE	-	4.68	-	
	11/12/2014	31.57	26.96	26.94	0.02	TRACE	-	4.63	-	
	11/21/2014	31.57	27.74	27.73	0.01	TRACE	-	3.84	-	
	11/26/2014	31.57	27.28	27.25	0.03	TRACE	-	4.32	-	
	12/05/2014	31.57	27.18	27.16	0.02	TRACE	-	4.41	-	
	12/11/2014	31.57	26.93	-	0.00	TRACE	-	4.64	-	
	12/16/2014	31.57	26.87	26.82	0.05	TRACE	-	4.74	-	
	12/23/2014	31.57	26.95	26.92	0.03	TRACE	-	4.62	-	
	12/30/2014	31.57	27.35	27.32	0.03	TRACE	-	4.22	-	
	01/09/2015	31.57	27.36	27.32	0.04	TRACE	-	4.21	-	
	01/16/2015	31.57	27.06	27.02	0.04	TRACE	-	4.51	-	
	01/19/2015	31.57	27.08	27.03	0.05	TRACE	-	4.49	-	
	01/26/2015	31.57	26.99	26.95	0.04	TRACE	-	4.58	-	
	02/03/2015	31.57	27.73	27.71	0.02	-	32.04	3.84	-	LNAPL not manually bailed
	02/09/2015	31.57	27.23	27.17	0.06	-	-	4.34	-	LNAPL not manually bailed
	02/18/2015	31.57	27.25	27.21	0.04	-	-	4.32	-	LNAPL not manually bailed
	02/24/2015	31.57	27.38	27.37	0.01	TRACE	-	4.19	13:51	
	03/04/2015	31.57	27.25	27.20	0.05	-	-	4.32	14:18	LNAPL not manually bailed
	03/11/2015	31.57	27.07	26.97	0.10	-	-	4.50	12:57	LNAPL not manually bailed
	03/18/2015	31.57	27.11	27.03	0.08	-	-	4.46	11:15	LNAPL not manually bailed
	03/26/2015	31.57	26.81	26.73	0.08	-	31.90	4.76	12:06	LNAPL not manually bailed
	04/02/2015	31.57	27.13	26.97	0.16	-	31.95	4.44	11:37	LNAPL not manually bailed
	04/08/2015	31.57	27.49	27.20	0.29	-	32.00	4.08	9:20	LNAPL not manually bailed
	04/13/2015	31.57	27.53	27.07	0.46	-	-	4.04	10:51	LNAPL not manually bailed
	04/23/2015	31.57	27.41	26.55	0.86	-	32.00	4.16	12:10	LNAPL not manually bailed
	04/29/2015	31.57	27.78	26.61	1.17	-	31.90	3.79	14:39	LNAPL not manually bailed
	05/04/2015	31.57	28.03	26.56	1.47	-	-	3.54	11:51	LNAPL not manually bailed
	05/11/2015	31.57	28.24	26.40	1.84	-	-	3.33	15:10	LNAPL not manually bailed
	05/13/2015	31.57	28.75	26.84	1.91	1.50	-	2.82	13:20	
	05/21/2015	31.57	26.87	26.78	0.09	-	-	4.70	12:48	LNAPL not manually bailed
	05/28/2015	31.57	28.45	27.00	1.45	-	32.00	3.12	11:54	LNAPL not manually bailed
	06/02/2015	31.57	28.52	26.62	1.90	-	-	3.05	13:11	LNAPL not manually bailed
	06/09/2015	31.57	28.67	26.12	2.55	-	-	2.90	10:55	LNAPL not manually bailed
	06/16/2015	31.57	29.17	25.86	3.31	-	-	2.40	11:48	LNAPL not manually bailed

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Adjusted Groundwater Elevation (ft)	Time	Comments
MW-05 / RW-05 (cont.)	06/26/2015	31.57	28.51	25.55	2.96	-	32.00	3.06	10:50	LNAPL not manually bailed
	07/01/2015	31.57	27.93	24.65	3.28	-	-	3.64	12:39	LNAPL not manually bailed
	07/08/2015	31.57	27.50	23.75	3.75	-	-	4.07	8:00	Baildown test
	07/13/2015	31.57	24.16	22.98	1.18	-	-	7.41	8:10	HIT event
	07/20/2015	31.57	23.03	22.69	0.34	0.09	-	8.54	9:56	
	07/28/2015	31.57	22.75	22.55	0.20	0.09	32.07	8.82	12:40	
	08/04/2015	31.57	22.92	22.63	0.29	0.06	-	8.65	12:31	
	08/11/2015	31.57	23.57	22.60	0.97	0.09	32.05	8.00	10:43	
	08/18/2015	31.57	23.74	23.02	0.72	0.38	-	7.83	10:56	
	08/21/2015	31.57	23.46	23.15	0.31	-	-	8.11	7:55	HIT event
	08/24/2015	31.57	23.88	23.86	0.02	TRACE	-	7.69	11:00	
	09/02/2015	31.57	24.72	24.44	0.28	0.05	32.04	6.85	11:00	
	09/09/2015	31.57	24.60	24.39	0.21	0.06	32.05	6.97	11:20	
	09/17/2015	31.57	24.83	24.36	0.47	0.07	32.08	6.74	11:00	
	09/23/2015	31.57	24.88	24.70	0.18	0.02	-	6.69	11:23	
	09/28/2015	31.57	24.50	24.48	0.02	0.04	31.94	7.07	10:05	
	10/05/2015	31.57	24.41	24.31	0.10	0.05	32.01	7.16	-	
	11/10/2015	31.57	25.53	25.38	0.15	-	-	6.04	13:44	LNAPL not manually bailed
	12/01/2015	31.57	26.16	25.98	0.18	-	-	5.41	13:56	LNAPL not manually bailed
TW-09S	12/18/2013	36.65	DRY	-	-	-	-	-	-	
	01/08/2014	36.65	DRY	25.54	0.46	0.10	-	-	-	
	03/07/2014	36.65	24.71	24.70	0.01	-	-	11.95	-	
	03/13/2014	36.65	25.78	24.71	1.07	0.10	-	11.80	-	
	03/20/2014	36.65	DRY	25.65	0.50	0.10	-	-	-	
	03/27/2014	36.65	DRY	25.58	0.54	0.10	-	-	-	
	04/03/2014	36.65	23.37	23.18	0.19	0.10	-	13.45	-	
	04/08/2014	36.65	23.39	23.23	0.16	0.10	-	13.40	-	
	04/17/2014	36.65	23.72	23.66	0.06	-	-	12.98	-	
	04/22/2014	36.65	23.53	23.40	0.13	0.10	-	13.23	-	
	04/29/2014	36.65	23.76	23.68	0.08	-	-	12.96	-	
	05/05/2014	36.65	23.23	23.17	0.06	-	-	13.47	-	
	05/12/2014	36.65	23.25	23.23	0.02	-	-	13.42	-	
	05/19/2014	36.65	23.17	23.16	0.01	-	-	13.49	-	
	06/02/2014	36.65	23.19	-	-	-	-	13.46	-	
	06/09/2014	36.65	23.17	-	-	-	-	13.48	-	
	06/16/2014	36.65	23.13	-	-	-	-	13.52	-	
	06/23/2014	36.65	23.11	-	-	-	-	13.54	-	
	07/02/2014	36.65	23.03	TRACE	TRACE	TRACE	-	13.62	-	
	07/07/2014	36.65	23.01	-	-	-	26.15	13.64	-	
	07/14/2014	36.65	23.02	-	-	-	-	13.63	-	

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Adjusted Groundwater Elevation (ft)	Time	Comments
TW-09S (cont.)	07/23/2014	Overdrilled and replaced with MW-08S								
MW-08S	07/24/2014	NR	26.59	-	-	-	-	-	-	
	07/31/2014	NR	22.08	-	-	-	24.35	-	-	
	08/08/2014	NR	21.33	-	-	-	24.64	-	-	
	08/11/2014	NR	21.42	-	-	-	-	-	-	
	08/15/2014	NR	21.41	-	-	-	-	-	-	
	08/18/2014	NR	21.46	-	-	-	-	-	-	
	08/25/2014	30.86	21.49	-	-	-	-	9.37	-	
	09/02/2014	30.86	21.45	-	-	-	-	9.41	-	
	09/15/2014	30.86	21.58	-	-	-	-	9.28	-	
	09/22/2014	30.86	21.67	-	-	-	-	9.19	-	
	09/24/2014	30.86	21.68	-	-	-	-	9.18	-	
	10/01/2014	30.86	21.67	-	-	-	24.66	9.19	-	
	10/10/2014	30.86	21.71	-	-	-	-	9.15	-	
	10/13/2014	30.86	21.72	-	-	-	-	9.14	-	
	10/20/2014	30.86	21.80	-	-	-	24.65	9.06	-	
	10/27/2014	30.86	21.88	-	-	-	-	8.98	-	
	11/07/2014	30.86	21.84	-	-	-	-	9.02	-	
	11/12/2014	30.86	21.94	-	-	-	-	8.92	-	
	11/21/2014	30.86	21.99	-	-	-	-	8.87	-	
	11/26/2014	30.86	22.01	-	-	-	-	8.85	-	
	12/05/2014	30.86	22.03	-	-	-	-	8.83	-	
	12/11/2014	30.86	22.03	-	-	-	-	8.83	-	
	12/16/2014	30.86	22.04	-	-	-	-	8.82	-	
	12/23/2014	30.86	22.07	-	-	-	-	8.79	-	
	12/30/2014	30.86	22.10	-	-	-	-	8.76	-	
	01/09/2015	30.86	22.12	-	-	-	-	8.74	-	
	01/16/2015	30.86	22.05	-	-	-	-	8.81	-	
	01/19/2015	30.86	22.01	-	-	-	-	8.85	-	
	01/26/2015	30.86	22.08	-	-	-	-	8.78	-	
	02/03/2015	30.86	22.15	-	-	-	24.72	8.71	-	
	02/09/2015	30.86	22.14	-	-	-	-	8.72	-	
	02/18/2015	30.86	22.15	-	-	-	-	8.71	-	
	02/24/2015	30.86	22.15	-	-	-	24.64	8.71	15:48	
	03/04/2015	30.86	21.34	-	-	-	-	9.52	14:15	
	03/11/2015	30.86	21.80	-	-	-	-	9.06	12:45	
	03/18/2015	30.86	21.88	-	-	-	-	8.98	11:05	
	03/26/2015	30.86	22.05	-	-	-	24.70	8.81	11:40	
	04/02/2015	30.86	22.03	-	-	-	24.60	8.83	11:25	
	04/08/2015	30.86	22.07	-	-	-	24.68	8.79	8:50	

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Adjusted Groundwater Elevation (ft)	Time	Comments
MW-08S (cont.)	04/13/2015	30.86	22.08	-	-	-	-	8.78	10:41	
	04/23/2015	30.86	22.08	-	-	-	24.65	8.78	11:55	
	04/29/2015	30.86	22.09	-	-	-	24.60	8.77	14:22	
	05/04/2015	30.86	22.09	-	-	-	-	8.77	11:39	
	05/11/2015	30.86	22.10	-	-	-	24.70	8.76	9:50	
	05/21/2015	30.86	22.05	-	-	-	24.65	8.81	12:22	
	05/28/2015	30.86	22.11	-	-	-	24.60	8.75	11:45	
	06/02/2015	30.86	22.06	-	-	-	-	8.80	13:04	
	06/09/2015	30.86	22.05	-	-	-	-	8.81	10:30	
	06/16/2015	30.86	22.05	-	-	-	-	8.81	11:24	
	06/26/2015	30.86	21.98	-	-	-	24.50	8.88	10:40	
	07/01/2015	30.86	22.02	-	-	-	-	8.84	12:15	
	07/08/2015	30.86	22.01	-	-	-	-	8.85	11:18	
	07/13/2015	30.86	21.95	-	-	-	-	8.91	9:26	
	07/20/2015	30.86	21.75	-	-	-	-	9.11	9:16	
	07/28/2015	30.86	21.08	-	-	-	24.75	9.78	11:46	
	07/28/2015	30.86	21.08	-	-	-	24.75	9.78	11:46	
	08/04/2015	30.86	21.05	-	-	-	24.30	9.81	9:39	
	08/11/2015	30.86	21.15	-	-	-	24.69	9.71	10:18	
	08/18/2015	30.86	21.24	-	-	-	-	9.62	10:16	
	08/24/2015	30.86	21.32	-	-	-	-	9.54	10:26	
	09/02/2015	30.86	21.32	-	-	-	24.66	9.54	11:10	
	09/09/2015	30.86	21.50	-	-	-	24.71	9.36	10:15	
	09/17/2015	30.86	21.61	-	-	-	24.74	9.25	10:17	
	09/23/2015	30.86	21.63	-	-	-	-	9.23	10:40	
	09/28/2015	30.86	21.68	-	-	-	24.69	9.18	9:22	
	10/05/2015	30.86	21.75	-	-	-	24.70	9.11	9:23	
	11/10/2015	30.86	21.95	-	-	-	-	8.91	13:13	
	12/01/2015	30.86	22.00	-	-	-	24.66	8.86	10:43	
MW-10S	08/08/2014	NR	22.40	-	-	-	26.51	-	-	
	08/11/2014	NR	22.41	-	-	-	-	-	-	
	08/15/2014	NR	22.02	-	-	-	-	-	-	
	08/18/2014	NR	22.03	-	-	-	-	-	-	
	08/25/2014	31.24	22.06	-	-	-	-	9.18	-	
	09/02/2014	31.24	22.11	-	-	-	-	9.13	-	
	09/15/2014	31.24	22.15	-	-	-	-	9.09	-	
	09/22/2014	31.24	22.18	-	-	-	-	9.06	-	
	09/24/2014	31.24	22.19	-	-	-	-	9.05	-	HIT event
	10/01/2014	31.24	22.22	-	-	-	26.09	9.02	-	
	10/10/2014	31.24	22.18	TRACE	TRACE	-	-	9.06	-	

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Adjusted Groundwater Elevation (ft)	Time	Comments
MW-10S (cont.)	10/13/2014	31.24	22.21	-	-	-	-	9.03	-	
	10/20/2014	31.24	22.35	-	-	-	26.10	8.89	-	
	10/27/2014	31.24	22.32	-	-	-	-	8.92	-	
	11/07/2014	31.24	22.30	-	-	-	-	8.94	-	
	11/12/2014	31.24	22.32	-	-	-	-	8.92	-	
	11/21/2014	31.24	22.38	-	-	-	-	8.86	-	
	11/26/2014	31.24	22.35	-	-	-	-	8.89	-	
	12/05/2014	31.24	22.40	22.38	0.02	TRACE	-	8.84	-	
	12/11/2014	31.24	22.33	TRACE	TRACE	-	-	8.91	-	
	12/16/2014	31.24	22.36	TRACE	TRACE	-	-	8.88	-	
	12/23/2014	31.24	22.37	-	-	-	-	8.87	-	
	12/30/2014	31.24	22.42	TRACE	TRACE	-	-	8.82	-	
	01/09/2015	31.24	22.44	22.43	0.01	TRACE	-	8.80	-	
	01/16/2015	31.24	22.41	22.40	0.01	TRACE	-	8.83	-	
	01/19/2015	31.24	22.43	22.42	0.01	TRACE	-	8.81	-	
	01/26/2015	31.24	22.23	22.22	0.01	TRACE	-	9.01	-	
	02/03/2015	31.24	22.50	-	-	-	26.11	8.74	-	
	02/09/2015	31.24	22.43	22.42	0.01	-	-	8.81	-	LNAPL not manually bailed
	02/18/2015	31.24	22.44	22.43	0.01	-	-	8.80	-	LNAPL not manually bailed
	02/24/2015	31.24	22.50	22.49	0.01	-	26.11	8.74	15:44	LNAPL not manually bailed
	03/04/2015	31.24	22.50	22.48	0.02	-	-	8.74	14:28	LNAPL not manually bailed
	03/11/2015	31.24	22.51	22.48	0.03	-	-	8.73	12:54	LNAPL not manually bailed
	03/18/2015	31.24	22.56	22.52	0.04	-	-	8.68	11:23	LNAPL not manually bailed
	03/26/2015	31.24	22.53	22.50	0.03	-	26.10	8.71	11:27	LNAPL not manually bailed
	04/02/2015	31.24	22.55	22.51	0.04	-	26.05	8.69	11:52	LNAPL not manually bailed
	04/08/2015	31.24	22.53	22.52	0.01	-	26.10	8.71	9:05	LNAPL not manually bailed
	04/13/2015	31.24	22.56	22.53	0.03	-	-	8.68	10:59	LNAPL not manually bailed
	04/23/2015	31.24	22.53	22.51	0.02	-	26.05	8.71	12:22	LNAPL not manually bailed
	04/29/2015	31.24	23.53	23.50	0.03	-	26.00	7.71	14:43	LNAPL not manually bailed
	05/04/2015	31.24	22.57	22.54	0.03	-	-	8.67	11:59	LNAPL not manually bailed
	05/11/2015	31.24	22.86	22.84	0.02	-	26.10	8.38	10:00	LNAPL not manually bailed
	05/21/2015	31.24	22.59	22.56	0.03	-	-	8.65	12:46	LNAPL not manually bailed
	05/28/2015	31.24	22.60	22.56	0.04	-	26.00	8.64	12:01	LNAPL not manually bailed
	06/02/2015	31.24	22.60	22.56	0.04	-	-	8.64	13:20	LNAPL not manually bailed
	06/09/2015	31.24	22.54	22.53	0.01	-	-	8.70	10:40	LNAPL not manually bailed
	06/19/2015	31.24	22.54	22.53	0.01	-	-	8.70	11:34	LNAPL not manually bailed
	06/26/2015	31.24	22.61	22.54	0.07	-	26.00	8.63	11:26	LNAPL not manually bailed
	07/01/2015	31.24	22.58	22.52	0.06	-	-	8.66	12:26	LNAPL not manually bailed
	07/08/2015	31.24	22.54	22.49	0.05	TRACE	-	8.70	11:57	LNAPL not manually bailed
	07/13/2015	31.24	21.96	-	-	-	-	9.28	9:44	
	07/20/2015	31.24	21.48	-	-	-	-	9.76	9:13	

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Adjusted Groundwater Elevation (ft)	Time	Comments
MW-10S (cont.)	07/28/2015	31.24	21.36	-	-	-	26.11	9.88	10:39	
	08/05/2015	31.24	21.51	21.42	0.09	-	-	9.73	9:24	
	08/11/2015	31.24	21.49	TRACE	TRACE	TRACE	26.15	9.75	10:22	
	08/18/2015	31.24	21.76	21.59	0.17	0.02	-	9.48	10:40	
	08/24/2015	31.24	21.80	21.68	0.12	0.01	-	9.44	10:50	
	09/02/2015	31.24	21.95	21.81	0.14	0.01	26.10	9.29	10:00	
	09/09/2015	31.24	22.05	21.91	0.14	0.02	26.11	9.19	11:08	
	09/17/2015	31.24	22.10	22.00	0.10	TRACE	-	9.14	10:35	
	09/23/2015	31.24	22.06	22.02	0.04	TRACE	-	9.18	11:10	
	09/28/2015	31.24	22.14	22.07	0.07	TRACE	26.10	9.10	10:00	
	10/05/2015	31.24	22.12	-	-	-	26.10	9.12	9:26	
	11/10/2015	31.24	24.00	TRACE	TRACE	-	-	7.24	13:25	LNAPL not manually bailed
	12/01/2015	33.02	24.10	-	-	-	27.85	8.92	10:53	
MW-11	07/25/2014	NR	26.90	-	-	-	33.40	-	-	
	08/08/2014	NR	26.76	-	-	-	34.00	-	-	
	08/11/2014	NR	26.57	-	-	-	-	-	-	
	08/15/2014	NR	27.15	-	-	-	-	-	-	
	08/16/2014	NR	26.81	-	-	-	34.00	-	-	
	08/18/2014	NR	26.77	-	-	-	-	-	-	
	08/25/2014	30.85	26.43	-	-	-	-	4.42	-	
	09/02/2014	30.85	26.83	-	-	-	-	4.02	-	
	09/15/2014	30.85	26.75	-	-	-	-	4.10	-	
	09/22/2014	30.85	26.64	-	-	-	-	4.21	-	
	09/24/2014	30.85	27.08	-	-	-	-	3.77	-	
	10/01/2014	30.85	26.87	-	-	-	34.02	3.98	-	
	10/13/2014	30.85	26.86	-	-	-	-	3.99	-	
	10/20/2014	30.85	26.96	-	-	-	33.99	3.89	-	
	02/24/2015	30.85	27.03	-	-	-		3.82	13:39	
	02/26/2015	30.85	27.07	-	-	-	34.00	3.78	10:18	
	03/04/2015	30.85	26.95	-	-	-	-	3.90	14:09	
	03/11/2015	30.85	26.58	-	-	-	-	4.27	12:39	
	03/18/2015	30.85	26.74	-	-	-	-	4.11	10:59	
	03/26/2015	30.85	26.56	-	-	-	33.90	4.29	11:22	
	04/02/2015	30.85	26.69	-	-	-	33.90	4.16	11:12	
	04/08/2015	30.85	27.00	-	-	-	33.82	3.85	9:25	
	04/13/2015	30.85	26.88	-	-	-	-	3.97	10:32	
	04/23/2015	30.85	26.40	-	-	-	33.85	4.45	11:40	
	04/29/2015	30.85	26.56	-	-	-	33.80	4.29	14:09	
	05/04/2015	30.85	26.39	-	-	-		4.46	11:33	
	05/11/2015	30.85	26.35	-	-	-	33.80	4.50	15:05	

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Adjusted Groundwater Elevation (ft)	Time	Comments
MW-11 (cont.)	05/21/2015	30.85	26.88	-	-	-	33.90	3.97	12:12	
	05/28/2015	30.85	26.83	-	-	-	33.80	4.02	11:38	
	06/02/2015	30.85	26.50	-	-	-	-	4.35	12:58	
	06/09/2015	30.85	26.23	-	-	-	-	4.62	10:24	
	06/16/2015	30.85	26.28	-	-	-	-	4.57	11:18	
	06/26/2015	30.85	26.22	-	-	-	33.80	4.63	10:32	
	07/01/2015	30.85	25.73	-	-	-	-	5.12	12:09	
	08/04/2015	30.85	25.94	-	-	-	33.86	4.91	12:13	
	08/05/2015	30.85	26.31	-	-	-	33.84	4.54	8:46	
	09/28/2015	30.85	25.92	25.90	0.02	-	33.92	4.93	9:58	
	10/05/2015	30.85	25.72	-	-	-	33.92	5.13	9:29	
	11/10/2015	30.85	26.35	-	-	-	-	4.50	13:23	
	12/01/2015	30.85	26.48	-	-	-	33.92	4.37	13:38	
TW-13	12/18/2013	36.99	30.09	-	-	-	-	6.90	-	
	01/08/2014	36.99	30.45	-	-	-	-	6.54	-	
	03/07/2014	36.99	29.11	-	-	-	-	7.88	-	
	03/13/2014	36.99	29.91	-	-	-	-	7.08	-	
	03/20/2014	36.99	29.09	-	-	-	-	7.90	-	
	03/27/2014	36.99	29.98	-	-	-	-	7.01	-	
	04/03/2014	36.99	29.05	-	-	-	-	7.94	-	
	04/08/2014	36.99	29.98	-	-	-	-	7.01	-	
	04/17/2014	36.99	29.62	-	-	-	-	7.37	-	
	04/22/2014	36.99	28.93	-	-	-	-	8.06	-	
	04/29/2014	36.99	28.90	-	-	-	-	8.09	-	
	05/05/2014	36.99	29.95	-	-	-	-	7.04	-	
	05/12/2014	36.99	28.91	-	-	-	-	8.08	-	
	05/19/2014	36.99	28.87	-	-	-	-	8.12	-	
	06/02/2014	36.99	28.86	-	-	-	-	8.13	-	
	06/09/2014	36.99	28.73	-	-	-	-	8.26	-	
	06/16/2014	36.99	28.88	-	-	-	-	8.11	-	
	06/23/2014	36.99	28.65	-	-	-	-	8.34	-	
	07/02/2014	36.99	28.69	-	-	-	-	8.30	-	
	07/07/2014	36.99	28.91	-	-	-	35.02	8.08	-	
	07/14/2014	36.99	28.58	-	-	-	-	8.41	-	
	07/29/2014	Overdrilled and replaced with MW-14								
MW-14	07/31/2014	NR	28.04	-	-	-	38.15	-	-	
	08/08/2014	NR	28.21	-	-	-	38.14	-	-	
	08/11/2014	NR	27.81	-	-	-	-	-	-	
	08/15/2014	NR	27.43	-	-	-	-	-	-	

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Adjusted Groundwater Elevation (ft)	Time	Comments
MW-14 (cont.)	08/18/2014	NR	27.17	-	-	-	-	-	-	
	08/25/2014	31.22	26.83	-	-	-	-	4.39	-	
	09/02/2014	31.22	27.25	-	-	-	-	3.97	-	
	09/15/2014	31.22	27.15	-	-	-	-	4.07	-	
	09/22/2014	31.22	27.04	-	-	-	-	4.18	-	
	10/01/2014	31.22	27.23	-	-	-	37.28	3.99	-	
	10/13/2014	31.22	27.25	TRACE	TRACE	-	-	3.97	-	
	10/20/2014	31.22	27.32	-	-	-	37.30	3.90	-	
	02/24/2015	31.22	27.42	-	-	-	37.31	3.80	13:40	
	02/25/2015	31.22	27.46	-	-	-	37.31	3.76	10:47	
	03/04/2015	31.22	27.39	-	-	-	-	3.83	14:06	
	03/11/2015	31.22	26.94	-	-	-	-	4.28	12:36	
	03/18/2015	31.22	27.13	-	-	-	-	4.09	10:56	
	03/26/2015	31.22	26.92	-	-	-	37.30	4.30	11:19	
	04/02/2015	31.22	27.04	-	-	-	37.25	4.18	11:08	
	04/08/2015	31.22	27.30	-	-	-	37.21	3.92	9:26	
	04/13/2015	31.22	27.30	-	-	-	-	3.92	10:55	
	04/23/2015	31.22	26.72	-	-	-	37.25	4.50	11:37	
	04/29/2015	31.22	26.94	-	-	-	37.25	4.28	14:06	
	05/04/2015	31.22	26.77	-	-	-		4.45	11:30	
	05/11/2015	31.22	26.71	-	-	-	37.37	4.51	14:52	
	05/12/2015	31.22	27.08	-	-	-		4.14	12:15	
	05/21/2015	31.22	26.93	-	-	-	37.33	4.29	12:10	
	05/28/2015	31.22	27.25	-	-	-	37.25	3.97	11:36	
	06/02/2015	31.22	26.92	-	-	-	-	4.30	12:55	
	06/09/2015	31.22	26.67	-	-	-	-	4.55	10:21	
	06/16/2015	31.22	26.73	-	-	-	-	4.49	11:15	
	06/26/2015	31.22	26.65	-	-	-	37.30	4.57	10:30	
	07/01/2015	31.22	26.12	-	-	-	-	5.10	12:06	
	08/04/2015	31.22	26.26	-	-	-	37.28	4.96	12:09	
	08/05/2015	31.22	26.75	SHEEN	-	-	37.27	4.47	8:50	
	12/01/2015	31.22	26.88	-	-	-	37.30	4.34	13:35	
MW-15S	08/08/2014	NR	26.11	-	-	-	26.20	-	-	
	08/11/2014	NR	26.11	-	-	-	-	-	-	
	08/15/2014	NR	24.00	-	-	-	-	-	-	
	08/18/2014	NR	24.67	-	-	-	-	-	-	
	08/25/2014	31.03	24.82	-	-	-	-	6.21	-	
	09/02/2014	31.03	24.82	-	-	-	-	6.21	-	
	09/15/2014	31.03	24.96	-	-	-	-	6.07	-	
	09/22/2014	31.03	25.06	-	-	-	-	5.97	-	

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Adjusted Groundwater Elevation (ft)	Time	Comments
MW-15S (cont.)	10/01/2014	31.03	25.20	-	-	-	25.88	5.83	-	
	10/13/2014	31.03	26.37	-	-	-	-	4.66	-	
	10/20/2014	31.03	25.45	-	-	-	25.90	5.58	-	
	05/11/2015	31.03	25.33	-	-	-	26.00	5.70	9:10	
	05/12/2015	31.03	25.35	-	-	-	-	5.68	12:10	
	08/04/2015	31.03	22.16	-	-	-	25.90	8.87	9:47	
	12/01/2015	31.03	25.46	-	-	-	25.88	5.57	11:03	
MW-16S	08/15/2014	31.03	24.13	-	-	-	24.61	-	-	
	08/16/2014	31.03	24.12	-	-	-	24.48	-	-	
	08/18/2014	31.03	24.13	-	-	-	-	-	-	
	08/25/2014	31.03	24.24	-	-	-	-	6.79	-	
	09/02/2014	31.03	DRY	-	-	-	24.65	-	-	
	09/15/2014	31.03	DRY	-	-	-	24.64	-	-	
	09/22/2014	31.03	DRY	-	-	-	-	-	-	
	10/01/2014	31.03	DRY	-	-	-	24.64	-	-	
	10/10/2014	31.03	DRY	-	-	-	-	-	-	
	10/20/2014	31.03	DRY	-	-	-	24.64	-	-	
	02/24/2015	31.03	DRY	-	-	-	24.70	-	15:36	
	05/11/2015	31.03	DRY	-	-	-	24.70	-	10:15	
	08/04/2015	31.03	22.63	-	-	-	24.62	8.40	9:54	
	12/01/2015	31.03	DRY	-	-	-	24.64	-	11:07	
MW-16	08/15/2014	NR	26.78	-	-	-	35.74	-	-	
	08/18/2014	NR	26.73	-	-	-	-	-	-	
	08/25/2014	30.97	26.55	-	-	-	-	4.42	-	
	09/02/2014	30.97	26.91	-	-	-	-	4.06	-	
	09/15/2014	30.97	26.76	-	-	-	-	4.21	-	
	09/22/2014	30.97	26.80	-	-	-	-	4.17	-	
	10/01/2014	30.97	26.95	-	-	-	35.53	4.02	-	
	10/10/2014	30.97	26.85	-	-	-	-	4.12	-	
	10/20/2014	30.97	27.19	-	-	-	35.61	3.78	-	
	02/24/2015	30.97	27.25	-	-	-	35.61	3.72	13:34	
	02/25/2015	30.97	27.23	-	-	-	35.62	3.74	11:14	
	05/11/2015	30.97	26.43	-	-	-	35.60	4.54	14:50	
	05/12/2015	30.97	26.90	-	-	-	-	4.07	9:52	
	08/04/2015	30.97	24.75	-	-	-	35.55	6.22	12:06	
	08/05/2015	30.97	25.04	-	-	-	35.53	5.93	9:51	
	12/01/2015	30.97	26.55	-	-	-	27.90	4.42	13:30	
MW-25S	08/08/2014	NR	23.64	-	-	-	25.80	-	-	

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Adjusted Groundwater Elevation (ft)	Time	Comments
MW-25S (cont.)	08/11/2014	NR	22.35	-	-	-	-	-	-	
	08/15/2014	NR	21.94	-	-	-	-	-	-	
	08/18/2014	NR	21.95	-	-	-	-	-	-	
	08/25/2014	31.07	21.98	-	-	-	-	9.09	-	
	09/02/2014	31.07	21.99	-	-	-	-	9.08	-	
	09/15/2014	31.07	22.04	-	-	-	-	9.03	-	
	09/22/2014	31.07	22.50	-	-	-	-	8.57	-	
	09/24/2014	31.07	22.12	TRACE	TRACE	-	-	8.95	-	
	10/01/2014	31.07	22.07	-	-	-	25.47	9.00	-	
	10/10/2014	31.07	22.09	TRACE	TRACE	-	-	8.98	-	
	10/13/2014	31.07	22.13	22.11	0.02	TRACE	-	8.96	-	
	10/20/2014	31.07	22.19	22.18	0.01	TRACE	-	8.89	-	
	10/27/2014	31.07	22.10	22.09	0.01	TRACE	-	8.98	-	
	10/27/2014	31.07	22.10	22.09	0.01	TRACE	-	8.98	-	
	11/07/2014	31.07	22.08	22.07	0.01	TRACE	-	9.00	-	
	11/12/2014	31.07	22.28	22.10	0.18	0.06	-	8.95	-	
	11/21/2014	31.07	22.43	22.18	0.25	0.09	-	8.86	-	
	11/26/2014	31.07	22.37	22.17	0.20	0.06	-	8.87	-	
	12/05/2014	31.07	22.57	22.20	0.37	-	25.50	8.50	-	HIT event
	12/11/2014	31.07	22.22	22.21	0.01	TRACE	-	8.85	-	
	12/16/2014	31.07	22.38	22.11	0.27	0.03	-	8.69	-	
	12/23/2014	31.07	22.43	22.13	0.30	0.05	-	8.64	-	
	12/30/2014	31.07	22.50	22.20	0.30	0.04	-	8.83	-	
	01/09/2015	31.07	22.49	22.19	0.30	-	-	8.84	-	HIT event
	01/16/2015	31.07	22.60	22.48	0.12	0.01	-	8.57	-	
	01/19/2015	31.07	22.34	22.25	0.09	0.01	-	8.81	-	
	01/26/2015	31.07	22.30	22.16	0.14	0.02		8.89	-	
	02/03/2015	31.07	22.25	-	-	-	25.50	8.82	-	
	02/09/2015	31.07	22.31	22.14	0.17	-	-	8.76	-	LNAPL not manually bailed
	02/18/2015	31.07	22.37	22.18	0.19	-	-	8.70	-	LNAPL not manually bailed
	02/24/2015	31.07	22.59	22.28	0.31	-	-	8.48	14:03	LNAPL not manually bailed
	03/04/2015	31.07	22.48	22.30	0.18	-	-	8.59	14:31	LNAPL not manually bailed
	03/11/2015	31.07	22.50	22.30	0.20	-	-	8.57	13:04	LNAPL not manually bailed
	03/18/2015	31.07	22.46	22.23	0.23	-	-	8.61	11:26	LNAPL not manually bailed
	03/26/2015	31.07	22.35	22.17	0.18	-	25.50	8.72	11:59	LNAPL not manually bailed
	04/02/2015	31.07	22.40	22.18	0.22	-	25.45	8.67	12:06	LNAPL not manually bailed
	04/08/2015	31.07	22.40	22.08	0.32	-	25.47	8.67	9:15	LNAPL not manually bailed
	04/13/2015	31.07	22.50	22.22	0.28	-	-	8.57	11:03	LNAPL not manually bailed
	04/23/2015	31.07	22.39	22.16	0.23	-	25.50	8.68	12:25	LNAPL not manually bailed
	04/29/2015	31.07	22.35	22.12	0.23	-	25.50	8.72	14:48	LNAPL not manually bailed
	05/04/2015	31.07	22.47	22.19	0.28	-	-	8.60	12:04	LNAPL not manually bailed

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Adjusted Groundwater Elevation (ft)	Time	Comments
MW-25S (cont.)	05/11/2015	31.07	22.45	22.20	0.25	-	-	8.62	11:00	LNAPL not manually bailed
	05/21/2015	31.07	22.40	22.23	0.17	-	-	8.67	12:53	LNAPL not manually bailed
	05/28/2015	31.07	22.60	22.27	0.33	-	25.50	8.47	12:06	LNAPL not manually bailed
	06/02/2015	31.07	22.53	22.25	0.28	-	-	8.54	13:24	LNAPL not manually bailed
	06/09/2015	31.07	22.38	22.16	0.22	-	-	8.69	10:46	LNAPL not manually bailed
	06/16/2015	31.07	22.37	22.13	0.24	-	-	8.70	11:40	LNAPL not manually bailed
	06/26/2015	31.07	22.35	22.12	0.23	-	25.40	8.72	11:28	LNAPL not manually bailed
	07/01/2015	31.07	22.23	22.04	0.19	-	-	8.84	12:18	LNAPL not manually bailed
	07/08/2015	31.07	22.08	21.88	0.20	0.04	-	8.99	12:04	
	07/13/2015	31.07	21.89	21.74	0.15	-	-	9.18	9:48	HIT event
	07/20/2015	31.07	21.37	21.33	0.04	TRACE	-	9.70	9:43	
	07/28/2015	31.07	21.20	-	-	-	25.49	9.87	12:25	
	08/04/2015	31.07	21.28	21.24	TRACE	TRACE	-	9.79	12:22	
	08/11/2015	31.07	21.37	21.36	0.01	0.01	25.49	9.70	11:22	
	08/18/2015	31.07	21.51	21.46	0.05	TRACE	-	9.56	10:50	
	08/24/2015	31.07	21.60	21.54	0.06	TRACE	-	9.47	10:53	
	09/02/2015	31.07	21.76	21.69	0.07	0.01	25.47	9.31	10:31	
	09/09/2015	31.07	21.81	21.77	0.04	0.01	25.49	9.26	10:50	
	09/17/2015	31.07	21.92	21.89	0.03	0.01	25.52	9.15	10:37	
	09/23/2015	31.07	21.92	21.89	0.03	TRACE	-	9.15	11:14	
	09/28/2015	31.07	21.96	21.92	0.04	TRACE	25.48	9.11	9:49	
	10/05/2015	31.07	22.01	21.98	0.03	TRACE	25.51	9.06	11:32	
	11/10/2015	31.07	22.09	22.06	0.03	TRACE	-	8.98	13:27	
	12/01/2015	31.07	22.19	22.16	0.03	-	25.43	8.88	12:10	LNAPL not manually bailed
MW-25 / RW-25	08/08/2014	NR	27.97	27.60	0.37	0.08	36.69	-	-	
	08/11/2014	NR	27.61	27.37	0.24	NA	-	-	-	Transducers in well for pump test
	08/15/2014	NR	28.11	28.05	0.06	NA	-	-	-	Transducers in well for pump test
	08/16/2014	NR	27.81	27.75	0.06	NA	-	-	-	Transducers in well for pump test
	08/18/2014	NR	27.94	27.71	0.23	NA	-	-	-	Transducers in well for pump test
	08/25/2014	31.13	26.89	26.74	0.15	0.05	-	4.37	-	
	09/02/2014	31.13	27.77	27.03	0.74	0.50	-	4.00	-	
	09/15/2014	31.13	27.69	26.87	0.82	NR	-	4.15	-	
	09/19/2014	31.13	28.10	26.95	1.15	0.93	-	4.03	-	
	09/22/2014	31.13	27.53	26.91	0.62	0.38	-	4.14	-	
	09/24/2014	31.13	27.73	27.23	0.50	NR	-	3.84	-	HIT event
	10/01/2014	31.13	27.47	27.02	0.45	0.19	35.90	4.05	-	
	10/10/2014	31.13	27.65	26.91	0.74	0.50	-	4.12	-	
	10/13/2014	31.13	27.60	27.03	0.57	NR	-	4.03	-	
	10/20/2014	31.13	27.49	27.19	0.30	0.13	-	3.90	-	
	10/27/2014	31.13	27.87	27.25	0.62	NR	-	3.80	-	HIT event

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Adjusted Groundwater Elevation (ft)	Time	Comments
MW-25 / RW-25 (cont.)	11/07/2014	31.13	27.53	27.08	0.45	0.19	-	3.99	-	
	11/12/2014	31.13	27.50	27.07	0.43	0.19	-	4.00	-	
	11/21/2014	31.13	28.53	27.81	0.72	0.16	-	3.23	-	
	11/26/2014	31.13	27.70	27.23	0.47	0.19	-	3.84	-	
	12/05/2014	31.13	27.63	27.15	0.48	-	35.87	3.50	-	HIT event
	12/11/2014	31.13	27.31	26.98	0.33	0.06	-	3.82	-	
	12/16/2014	31.13	27.27	27.04	0.23	0.03	-	3.86	-	
	12/23/2014	31.13	27.20	26.95	0.25	0.04	-	3.93	-	
	12/30/2014	31.13	28.02	27.33	0.69	0.28	-	3.11	-	
	01/09/2015	31.13	27.80	27.38	0.42	-	-	3.33	-	HIT event
	01/16/2015	31.13	27.24	27.16	0.08	0.00	-	3.89	-	
	01/19/2015	31.13	27.28	26.97	0.31	0.06	-	3.85	-	
	01/26/2015	31.13	27.27	26.98	0.29	0.05	-	3.86	-	
	02/03/2015	31.13	28.10	27.52	0.58	-	35.86	3.03	-	LNAPL not manually bailed
	02/09/2015	31.13	27.43	27.06	0.37	-	-	3.70	-	LNAPL not manually bailed
	02/18/2015	31.13	27.63	27.24	0.39	-	-	3.50	-	LNAPL not manually bailed
	02/24/2015	31.13	27.68	27.18	0.50	-	-	3.45	14:00	LNAPL not manually bailed
	03/04/2015	31.13	27.85	27.19	0.66	-	-	3.28	14:35	LNAPL not manually bailed
	03/11/2015	31.13	27.27	26.76	0.51	-	-	3.86	13:08	LNAPL not manually bailed
	03/18/2015	31.13	27.63	26.93	0.70	-	-	3.50	11:30	LNAPL not manually bailed
	03/26/2015	31.13	27.31	26.70	0.61	-	35.90	3.82	12:03	LNAPL not manually bailed
	04/02/2015	31.13	27.60	26.85	0.75	-	35.80	3.53	12:09	LNAPL not manually bailed
	04/08/2015	31.13	28.00	27.15	0.85	-	35.90	3.13	9:10	LNAPL not manually bailed
	04/13/2015	31.13	27.98	27.05	0.93	-	-	3.15	11:06	LNAPL not manually bailed
	04/23/2015	31.13	27.21	26.47	0.74	-	35.90	3.92	12:28	LNAPL not manually bailed
	04/29/2015	31.13	27.50	26.67	0.83	-	35.90	3.63	14:52	LNAPL not manually bailed
	05/04/2015	31.13	27.37	26.57	0.80	-	-	3.76	12:08	LNAPL not manually bailed
	05/11/2015	31.13	27.50	27.43	0.07	-	-	3.63	15:10	LNAPL not manually bailed
	05/13/2015	31.13	28.31	27.19	1.12	1.50	-	2.82	12:53	
	05/21/2015	31.13	26.85	26.82	0.03	-	-	4.28	12:50	LNAPL not manually bailed
	05/28/2015	31.13	27.55	27.09	0.46	-	35.80	3.58	12:10	LNAPL not manually bailed
	06/02/2015	31.13	27.10	26.74	0.36	-	-	4.03	13:28	LNAPL not manually bailed
	06/09/2015	31.13	26.91	26.46	0.45	-	-	4.22	10:50	LNAPL not manually bailed
	06/16/2015	31.13	26.86	26.56	0.30	-	-	4.27	11:43	LNAPL not manually bailed
	06/26/2015	31.13	26.91	26.48	0.43	-	35.80	4.22	11:31	LNAPL not manually bailed
	07/01/2015	31.13	26.43	25.98	0.45	-	-	4.70	12:22	LNAPL not manually bailed
	07/08/2015	31.13	26.63	26.13	0.50	0.25	-	4.50	12:00	
	07/13/2015	31.13	26.13	25.89	0.24	-	-	5.00	9:50	HIT event
	07/20/2015	31.13	26.23	TRACE	TRACE	TRACE	-	4.90	9:48	
	07/28/2015	31.13	26.37	26.23	0.14	TRACE	36.00	4.76	12:10	
	08/04/2015	31.13	26.27	26.20	0.07	0.02	-	4.86	12:25	

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Adjusted Groundwater Elevation (ft)	Time	Comments
MW-25 / RW-25 (cont.)	08/11/2015	31.13	26.05	25.90	0.15	0.03	35.88	5.08	11:19	
	08/18/2015	31.13	26.52	26.42	0.10	0.01	-	4.61	10:53	
	08/24/2015	31.13	26.55	26.33	0.22	0.02	-	4.58	10:56	
	09/02/2015	31.13	26.80	26.62	0.18	0.02	35.92	4.33	10:28	
	09/09/2015	31.13	26.51	26.45	0.06	0.02	35.93	4.62	10:42	
	09/17/2015	31.13	26.73	26.53	0.20	0.04	35.95	4.40	10:48	
	09/23/2015	31.13	26.82	26.63	0.19	0.02	-	4.31	11:18	
	09/28/2015	31.13	26.34	26.31	0.03	0.01	35.89	4.79	9:51	
	10/05/2015	31.13	26.21	26.06	0.15	0.05	35.87	4.92	11:18	
	11/10/2015	31.13	26.05	26.02	0.03	-	-	5.08	13:31	LNAPL not manually bailed
	12/01/2015	30.52	26.19	26.06	0.13	-	-	4.33	13:54	LNAPL not manually bailed
TW-10	12/18/2013	37.28	30.31	-	-	-	-	6.97	-	
	01/08/2014	37.28	30.56	-	-	-	-	6.72	-	
	03/07/2014	37.28	29.70	-	-	-	-	7.58	-	
	03/13/2014	37.28	30.08	-	-	-	-	7.20	-	
	03/20/2014	37.28	29.22	-	-	-	-	8.06	-	
	03/27/2014	37.28	30.13	-	-	-	-	7.15	-	
	04/03/2014	37.28	29.08	-	-	-	-	8.20	-	
	04/08/2014	37.28	29.14	-	-	-	-	8.14	-	
	04/17/2014	37.28	29.66	-	-	-	-	7.62	-	
	04/22/2014	37.28	29.12	-	-	-	-	8.16	-	
	04/29/2014	37.28	28.96	-	-	-	-	8.32	-	
	05/05/2014	37.28	29.22	-	-	-	-	8.06	-	
	05/12/2014	37.28	29.06	-	-	-	-	8.22	-	
	05/19/2014	37.28	29.02	-	-	-	-	8.26	-	
	06/02/2014	37.28	28.99	-	-	-	-	8.29	-	
	06/09/2014	37.28	28.89	-	-	-	-	8.39	-	
	06/16/2014	37.28	29.02	-	-	-	-	8.26	-	
	06/23/2014	37.28	28.86	-	-	-	-	8.42	-	
	07/02/2014	37.28	28.87	-	-	-	-	8.41	-	
	07/07/2014	37.28	29.12	-	-	-	36.47	8.16	-	
	07/14/2014	37.28	28.68	-	-	-	-	8.60	-	
	07/21/2014	Overdrilled and replaced with MW-27								
MW-27	07/24/2014	NR	27.59	-	-	-	-	-	-	
	07/31/2014	NR	27.58	-	-	-	34.47	-	-	
	08/08/2014	NR	27.69	-	-	-	34.46	-	-	
	08/11/2014	NR	27.33	-	-	-	-	-	-	
	08/15/2014	NR	27.90	-	-	-	-	-	-	
	08/16/2014	NR	27.65	-	-	-	34.48	-	-	

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom Measured Depth (ft)	Adjusted Groundwater Elevation (ft)	Time	Comments
MW-27 (cont.)	08/18/2014	NR	27.62	-	-	-	-	-	-	
	08/25/2014	31.43	27.09	-	-	-	-	4.34	-	
	09/02/2014	31.43	27.52	-	-	-	-	3.91	-	
	09/15/2014	31.43	27.38	-	-	-	-	4.05	-	
	09/22/2014	31.43	27.24	-	-	-	-	4.19	-	
	10/01/2014	31.43	27.44	-	-	-	34.27	3.99	-	
	10/10/2014	31.43	27.24	-	-	-	-	4.19	-	
	10/20/2014	31.43	27.59	-	-	-	34.13	3.84	-	
	10/27/2014	31.43	27.66	-	-	-	-	3.77	-	
	11/07/2014	31.43	27.43	-	-	-	-	4.00	-	
	11/12/2014	31.43	27.43	-	-	-	-	4.00	-	
	11/21/2014	31.43	28.23	-	-	-	-	3.20	-	
	11/26/2014	31.43	27.64	-	-	-	-	3.79	-	
	12/05/2014	31.43	27.50	-	-	-	-	3.93	-	
	12/11/2014	31.43	27.38	-	-	-	-	4.05	-	
	12/16/2014	31.43	27.34	-	-	-	-	4.09	-	
	12/23/2014	31.43	27.22	-	-	-	-	4.21	-	
	12/30/2014	31.43	27.80	-	-	-	-	3.63	-	
	01/09/2015	31.43	27.59	-	-	-	-	3.84	-	
	01/16/2015	31.43	27.46	-	-	-	-	3.97	-	
	01/19/2015	31.43	27.38	-	-	-	-	4.05	-	
	01/26/2015	31.43	27.40	-	-	-	-	4.03	-	
	02/03/2015	31.43	28.01	-	-	-	34.05	3.42	-	
	02/09/2015	31.43	27.43	-	-	-	-	4.00	-	
	02/18/2015	31.43	27.52	-	-	-	-	3.91	-	
	02/24/2015	31.43	26.61	-	-	-	-	4.82	13:15	
	02/25/2015	31.43	27.45	-	-	-	34.06	3.98	13:38	
	03/04/2015	31.43	27.63	-	-	-	-	3.80	13:59	
	03/11/2015	31.43	27.11	-	-	-	-	4.32	12:26	
	03/18/2015	31.43	27.36	-	-	-	-	4.07	10:49	
	03/26/2015	31.43	27.20	-	-	-	34.00	4.23	10:50	
	04/02/2015	31.43	27.28	-	-	-	34.05	4.15	11:15	
	04/08/2015	31.43	27.55	-	-	-	34.04	3.88	9:30	
	04/13/2015	31.43	27.53	-	-	-	-	3.90	10:14	
	04/23/2015	31.43	26.92	-	-	-	34.05	4.51	11:33	
	04/29/2015	31.43	27.18	-	-	-	34.05	4.25	13:52	
	05/04/2015	31.43	26.96	-	-	-	-	4.47	11:26	
	05/11/2015	31.43	26.86	-	-	-	34.04	4.57	15:15	
	05/13/2015	31.43	27.55	-	-	-	-	3.88	9:52	
	05/21/2015	31.43	27.12	-	-	-	34.12	4.31	12:02	
	05/28/2015	31.43	27.51	-	-	-	34.00	3.92	11:25	

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Adjusted Groundwater Elevation (ft)	Time	Comments
MW-27	06/02/2015	31.43	27.11	-	-	-	-	4.32	12:45	
(cont.)	06/09/2015	31.43	26.92	-	-	-	-	4.51	10:11	
	06/16/2015	31.43	26.86	-	-	-	-	4.57	11:05	
	06/26/2015	31.43	26.87	-	-	-	34.00	4.56	10:15	
	07/01/2015	31.43	26.38	-	-	-	-	5.05	11:57	
	07/08/2015	31.43	26.64	-	-	-	-	4.79	10:45	
	07/13/2015	31.43	26.19	-	-	-	-	5.24	9:10	
	07/20/2015	31.43	26.51	-	-	-	-	4.92	8:52	
	07/28/2015	31.43	26.55	-	-	-	34.13	4.88	9:56	
	08/04/2015	31.43	26.58	-	-	-	34.05	4.85	12:05	
	08/05/2015	31.43	27.06	TRACE	TRACE	TRACE	34.07	4.37	8:16	
	08/11/2015	31.43	26.16	TRACE	TRACE	TRACE	34.03	5.27	9:38	
	08/18/2015	31.43	26.77	-	-	-	-	4.66	10:03	
	08/24/2015	31.43	26.75	-	-	-	-	4.68	10:06	
	09/02/2015	31.43	27.09	TRACE	TRACE	TRACE	34.08	4.34	9:08	
	09/09/2015	31.43	26.82	TRACE	TRACE	TRACE	34.05	4.61	9:57	
	09/17/2015	31.43	27.16	-	-	-	34.08	4.27	10:07	
	09/23/2015	31.43	27.03	-	-	-	-	4.40	10:24	
	09/28/2015	31.43	26.52	-	-	-	34.09	4.91	9:42	
	10/05/2015	31.43	26.39	-	-	-	34.05	5.04	9:00	
	11/10/2015	31.43	26.97	-	-	-	-	4.46	12:51	
	12/01/2015	31.43	26.98	-	-	-	33.35	4.45	13:39	
MW-30S	08/08/2014	NR	23.31	-	-	-	25.28	-	-	
	08/11/2014	NR	23.33	-	-	-	-	-	-	
	08/15/2014	NR	24.84	-	-	-	-	-	-	
	08/18/2014	NR	24.84	-	-	-	-	-	-	
	08/25/2014	30.67	24.79	-	-	-	-	5.88	-	
	09/02/2014	30.67	24.83	-	-	-	-	5.84	-	
	09/15/2014	30.67	24.85	-	-	-	-	5.82	-	
	09/22/2014	30.67	24.88	-	-	-	-	5.79	-	
	10/01/2014	30.67	24.88	-	-	-	25.28	5.79	-	
	10/10/2014	30.67	24.87	-	-	-	-	5.80	-	
	10/20/2014	30.67	24.77	-	-	-	25.29	5.90	-	
	10/27/2014	30.67	24.78	-	-	-	-	5.89	-	
	11/07/2014	30.67	24.85	-	-	-	-	5.82	-	
	11/12/2014	30.67	24.87	-	-	-	-	5.80	-	
	11/21/2014	30.67	24.94	-	-	-	-	5.73	-	
	11/26/2014	30.67	24.93	-	-	-	-	5.74	-	
	12/05/2014	30.67	24.92	-	-	-	-	5.75	-	
	12/11/2014	30.67	24.72	-	-	-	-	5.95	-	

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom / Measured Depth (ft)	Adjusted Groundwater Elevation (ft)	Time	Comments
MW-30S (cont.)	12/16/2014	30.67	24.74	-	-	-	-	5.93	-	
	12/23/2014	30.67	24.70	-	-	-	-	5.97	-	
	12/30/2014	30.67	24.68	-	-	-	-	5.99	-	
	01/09/2015	30.67	24.66	-	-	-	-	6.01	-	
	01/16/2015	30.67	24.62	-	-	-	-	6.05	-	
	01/19/2015	30.67	24.60	-	-	-	-	6.07	-	
	01/26/2015	30.67	24.48	-	-	-	-	6.19	-	
	02/03/2015	30.67	24.56	-	-	-	25.34	6.11	-	
	02/09/2015	30.67	24.57	-	-	-	-	6.10	-	
	02/18/2015	30.67	24.63	-	-	-	-	6.04	-	
	02/24/2015	30.67	24.24	-	-	-	25.31	6.43	15:32	
	02/25/2015	30.67	24.10	-	-	-	25.31	6.57	13:10	
	03/04/2015	30.67	24.20	-	-	-	-	6.47	14:04	
	03/11/2015	30.67	24.20	-	-	-	-	6.47	12:32	
	03/18/2015	30.67	24.22	-	-	-	-	6.45	10:55	
	03/26/2015	30.67	24.32	-	-	-	25.30	6.35	10:42	
	04/02/2015	30.67	24.27	-	-	-	25.30	6.40	11:02	
	04/08/2015	30.67	24.30	-	-	-	25.29	6.37	9:31	
	04/13/2015	30.67	24.31	-	-	-	-	6.36	10:28	
	04/23/2015	30.67	DRY	-	-	-	25.28	-	11:23	
	04/29/2015	30.67	24.27	-	-	-	25.25	6.40	13:38	
	05/04/2015	30.67	24.32	-	-	-	-	6.35	11:23	
	05/11/2015	30.67	24.41	-	-	-	25.20	6.26	10:50	
	05/13/2015	30.67	24.41	-	-	-	-	6.26	9:50	
	05/21/2015	30.67	24.68	-	-	-	25.15	5.99	12:04	
	05/28/2015	30.67	24.67	-	-	-	25.28	6.00	11:21	
	06/02/2015	30.67	24.55	-	-	-	-	6.12	12:51	
	06/09/2015	30.67	24.30	-	-	-	-	6.37	10:17	
	06/16/2015	30.67	24.33	-	-	-	-	6.34	11:08	
	06/22/2015	Destroyed during overdrilling activities; replaced with RW-30S								
TW-11	12/18/2013	37.39	26.40	-	-	-	-	10.99	-	
	01/08/2014	37.39	27.73	-	-	-	-	9.66	-	
	03/07/2014	37.39	29.17	-	-	-	-	8.22	-	
	03/13/2014	37.39	27.56	-	-	-	-	9.83	-	
	03/20/2014	37.39	27.15	-	-	-	-	10.24	-	
	03/27/2014	37.39	27.40	-	-	-	-	9.99	-	
	04/03/2014	37.39	26.28	26.26	0.02	0.10	-	11.12	-	
	04/08/2014	37.39	26.52	-	-	-	-	10.87	-	
	04/17/2014	37.39	26.85	-	-	-	-	10.54	-	
	04/22/2014	37.39	27.09	-	-	-	-	10.30	-	

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Adjusted Groundwater Elevation (ft)	Time	Comments
TW-11 (cont.)	04/29/2014	37.39	27.39	-	-	-	-	10.00	-	
	05/05/2014	37.39	26.26	26.24	0.02	-	-	11.15	-	
	05/12/2014	37.39	26.97	-	-	-	-	10.42	-	
	05/19/2014	37.39	25.91	25.90	0.01	-	-	11.49	-	
	06/02/2014	37.39	26.32	26.31	0.01	-	-	11.08	-	
	06/09/2014	37.39	25.23	-	-	-	-	12.16	-	
	06/16/2014	37.39	25.35	25.36	0.01	-	-	12.05	-	
	06/23/2014	37.39	26.55	-	-	-	-	10.84	-	
	07/02/2014	37.39	26.91	TRACE	TRACE	-	-	10.48	-	
	07/07/2014	37.39	27.08	-	-	-	37.10	10.31	-	
	07/14/2014	37.39	26.95	TRACE	TRACE	-	-	10.44	-	
	07/24/2014	37.39	26.88	-	-	-	-	10.51	-	
	07/31/2014	37.39	27.10	-	-	-	37.02	10.29	-	
	08/05/2014	Overdrilled and replaced with MW-31								
MW-31 / RW-31	08/08/2014	NR	27.31	-	-	-	36.35	-	-	
	08/11/2014	NR	26.88	-	-	-	-	-	-	
	08/15/2014	NR	27.00	-	-	-	-	-	-	
	08/16/2014	NR	26.92	-	-	-	35.00	-	-	
	08/18/2014	NR	27.11	-	-	-	-	-	-	
	08/25/2014	31.23	26.90	-	-	-	-	4.33	-	
	09/02/2014	31.23	27.31	-	-	-	-	3.92	-	
	09/15/2014	31.23	27.18	-	-	-	-	4.05	-	
	09/22/2014	31.23	27.05	-	-	-	-	4.18	-	
	10/01/2014	31.23	27.21	-	-	-	35.50	4.02	-	
	10/10/2014	31.23	27.02	-	-	-	-	4.21	-	
	10/20/2014	31.23	27.40	-	-	-	35.50	3.83	-	
	10/27/2014	31.23	27.43	-	-	-	-	3.80	-	
	11/07/2014	31.23	24.23	-	-	-	-	7.00	-	
	11/12/2014	31.23	27.18	-	-	-	-	4.05	-	
	11/21/2014	31.23	28.03	-	-	-	-	3.20	-	
	11/26/2014	31.23	27.39	-	-	-	-	3.84	-	
	12/05/2014	31.23	27.33	-	-	-	-	3.90	-	
	12/11/2014	31.23	27.14	-	-	-	-	4.09	-	
	12/16/2014	31.23	27.15	-	-	-	-	4.08	-	
	12/23/2014	31.23	27.02	-	-	-	-	4.21	-	
	12/30/2014	31.23	27.61	-	-	-	-	3.62	-	
	01/09/2015	31.23	27.42	-	-	-	-	3.81	-	
	01/16/2015	31.23	27.26	-	-	-	-	3.97	-	
	01/19/2015	31.23	27.20	-	-	-	-	4.03	-	
	01/26/2015	31.23	27.18	-	-	-	-	4.05	-	

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Adjusted Groundwater Elevation (ft)	Time	Comments
MW-31 / RW-31 (cont.)	02/03/2015	31.23	27.81	-	-	-	35.49	3.42	-	
	02/09/2015	31.23	27.18	-	-	-	-	4.05	-	
	02/18/2015	31.23	27.34	-	-	-	-	3.89	-	
	02/24/2015	31.23	27.27	-	-	-	-	3.96	13:09	
	02/25/2015	31.23	27.50	-	-	-	35.52	3.73	10:28	
	03/04/2015	31.23	27.45	-	-	-	-	3.78	14:02	
	03/11/2015	31.23	26.78	-	-	-	-	4.45	12:29	
	03/18/2015	31.23	27.13	-	-	-	-	4.10	10:52	
	03/26/2015	31.23	26.99	-	-	-	35.50	4.24	10:46	
	04/02/2015	31.23	27.04	-	-	-	35.45	4.19	11:04	
	04/08/2015	31.23	27.27	-	-	-	35.42	3.96	9:32	
	04/13/2015	31.23	27.35	-	-	-	-	3.88	10:25	
	04/23/2015	31.23	26.67	-	-	-	35.45	4.56	11:27	
	04/29/2015	31.23	26.97	-	-	-	35.40	4.26	13:34	
	05/04/2015	31.23	26.75	-	-	-	-	4.48	11:20	
	05/11/2015	31.23	26.65	-	-	-	35.40	4.58	14:55	
	05/13/2015	31.23	27.35	-	-	-	-	3.88	9:47	
	05/21/2015	31.23	26.87	-	-	-	35.50	4.36	12:06	
	05/28/2015	31.23	27.31	-	-	-	35.40	3.92	11:23	
	06/02/2015	31.23	26.87	-	-	-	-	4.36	12:48	
	06/09/2015	31.23	26.71	-	-	-	-	4.52	10:14	
	06/16/2015	31.23	26.68	-	-	-	-	4.55	11:11	
	06/26/2015	31.23	26.58	-	-	-	35.20	4.65	9:20	
	07/01/2015	31.23	26.02	-	-	-	-	5.21	12:00	
	07/08/2015	31.23	26.26	-	-	-	-	4.97	10:48	
	07/13/2015	31.23	25.88	-	-	-	-	5.35	9:13	
	07/20/2015	31.23	26.22	-	-	-	-	5.01	8:58	
	07/28/2015	31.23	26.31	-	-	-	35.56	4.92	10:22	
	08/04/2015	31.23	29.82	-	-	-	35.42	1.41	12:09	
	08/05/2015	31.23	26.78	-	-	-	35.47	4.45	8:22	
	08/11/2015	31.23	25.93	-	-	-	35.43	5.30	9:48	
	08/18/2015	31.23	26.56	-	-	-	-	4.67	9:56	
	08/24/2015	31.23	26.55	-	-	-	-	4.68	10:00	
	09/02/2015	31.23	26.87	-	-	-	35.42	4.36	9:20	
	09/09/2015	31.23	26.61	-	-	-	35.47	4.62	10:03	
	09/17/2015	31.23	26.96	-	-	-	35.50	4.27	10:01	
	09/23/2015	31.23	26.82	-	-	-	-	4.41	10:18	
	09/28/2015	31.23	26.29	-	-	-	35.44	4.94	9:35	
	10/05/2015	31.23	26.11	-	-	-	35.42	5.12	9:02	
	11/10/2015	31.23	26.61	-	-	-	-	4.62	12:47	
	12/01/2015	31.23	26.27	-	-	-	-	4.96	13:47	

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Adjusted Groundwater Elevation (ft)	Time	Comments
MW-33	08/08/2014	NR	27.91	-	-	-	35.41	-	-	
	08/11/2014	NR	27.41	-	-	-	-	-	-	
	08/15/2014	NR	26.98	-	-	-	34.45	-	-	
	08/18/2014	NR	26.76	-	-	-	-	-	-	
	08/25/2014	30.93	26.47	-	-	-	-	4.46	-	
	09/02/2014	30.93	26.87	-	-	-	-	4.06	-	
	09/15/2014	30.93	26.73	-	-	-	-	4.20	-	
	09/22/2014	30.93	26.59	-	-	-	-	4.34	-	
	10/01/2014	30.93	26.79	-	-	-	34.47	4.14	-	
	10/10/2014	30.93	26.60	-	-	-	-	4.33	-	
	10/20/2014	30.93	26.96	-	-	-	34.47	3.97	-	
	02/24/2015	30.93	26.99	-	-	-	-	3.94	13:05	
	02/25/2015	30.93	27.03	-	-	-	34.45	3.90	10:08	
	05/11/2015	30.93	26.22	-	-	-	34.40	4.71	14:54	
	05/13/2015	30.93	26.90	-	-	-	34.40	4.03	9:45	
	08/04/2015	30.93	25.91	-	-	-	34.39	5.02	12:14	
	08/05/2015	30.93	26.43	-	-	-	34.42	4.50	8:26	
	12/01/2015	30.93	26.37	-	-	-	34.40	4.56	13:35	
MW-51S	08/08/2014	NR	21.15	-	-	-	25.27	-	-	
	08/11/2014	NR	21.27	-	-	-	-	-	-	
	08/15/2014	NR	21.17	-	-	-	25.30	-	-	
	08/18/2014	NR	21.23	-	-	-	-	-	-	
	08/25/2014	30.81	21.34	-	-	-	-	9.47	-	
	09/02/2014	30.81	21.38	-	-	-	-	9.43	-	
	09/15/2014	30.81	21.46	-	-	-	-	9.35	-	
	09/22/2014	30.81	21.48	-	-	-	-	9.33	-	
	09/24/2014	30.81	21.49	-	-	-	-	9.32	-	
	10/01/2014	30.81	21.32	TRACE	TRACE	-	25.30	9.49	-	
	10/10/2014	30.81	21.53	-	-	-	-	9.28	-	
	10/13/2014	30.81	21.52	-	-	-	-	9.29	-	
	10/20/2014	30.81	21.58	-	-	-	25.33	9.23	-	
	10/27/2014	30.81	21.64	-	-	-	-	9.17	-	
	11/07/2014	30.81	21.53	-	-	-	-	9.28	-	
	11/12/2014	30.81	21.66	-	-	-	-	9.15	-	
	11/21/2014	30.81	21.73	-	-	-	-	9.08	-	
	12/05/2014	30.81	21.64	-	-	-	-	9.17	-	
	12/11/2014	30.81	21.72	-	-	-	-	9.09	-	
	12/16/2014	30.81	21.78	-	-	-	-	9.03	-	
	12/23/2014	30.81	21.83	-	-	-	-	8.98	-	
	12/30/2014	30.81	21.87	-	-	-	-	8.94	-	

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Adjusted Groundwater Elevation (ft)	Time	Comments
MW-51S (cont.)	01/09/2015	30.81	21.89	-	-	-	-	8.92	-	
	01/16/2015	30.81	21.80	-	-	-	-	9.01	-	
	01/19/2015	30.81	21.87	-	-	-	-	8.94	-	
	01/26/2015	30.81	21.82	-	-	-	-	8.99	-	
	02/03/2015	30.81	22.00	-	-	-	25.21	8.81	-	
	02/09/2015	30.81	21.92	-	-	-	-	8.89	-	
	02/18/2015	30.81	21.92	-	-	-	-	8.89	-	
	02/24/2015	30.81	21.96	-	-	-	25.33	8.85	16:00	
	03/11/2015	30.81	21.67	-	-	-	-	9.14	12:48	
	03/18/2015	30.81	21.71	-	-	-	-	9.10	11:08	
	03/26/2015	30.81	21.76	-	-	-	25.30	9.05	11:45	
	04/02/2015	30.81	21.80	-	-	-	25.30	9.01	11:27	
	04/08/2015	30.81	21.75	-	-	-	25.19	9.06	8:55	
	04/13/2015	30.81	21.87	-	-	-	-	8.94	10:44	
	04/23/2015	30.81	21.89	-	-	-	25.25	8.92	11:59	
	04/29/2015	30.81	21.88	-	-	-	25.25	8.93	14:26	
	05/04/2015	30.81	21.89	-	-	-	-	8.92	11:43	
	05/11/2015	30.81	21.93	-	-	-	24.50	8.88	10:45	
	05/13/2015	30.81	21.95	-	-	-	-	8.86	10:00	
	05/21/2015	30.81	21.68	-	-	-	25.35	9.13	12:12	
	05/28/2015	30.81	21.93	-	-	-	25.30	8.88	11:47	
	06/09/2015	30.81	21.85	-	-	-	-	8.96	10:34	
	06/16/2015	30.81	21.79	-	-	-	-	9.02	11:27	
	06/26/2015	30.81	21.62	-	-	-	-	9.19	10:35	
	07/08/2015	30.81	21.33	-	-	-	-	9.48	11:40	
	07/13/2015	30.81	21.62	-	-	-	-	9.19	9:41	
	07/20/2015	30.81	21.57	-	-	-	-	9.24	9:19	
	07/28/2015	30.81	21.37	-	-	-	25.35	9.44	11:29	
	08/04/2015	30.81	21.21	-	-	-	25.30	9.60	12:02	
	08/05/2015	30.81	21.25	-	-	-	25.30	9.56	9:12	
	08/11/2015	30.81	21.28	-	-	-	25.31	9.53	10:14	
	08/18/2015	30.81	21.22	-	-	-	-	9.59	10:19	
	08/24/2015	30.81	21.27	-	-	-	-	9.54	10:30	
	09/02/2015	30.81	21.35	-	-	-	25.30	9.46	9:54	
	09/09/2015	30.81	21.42	-	-	-	25.32	9.39	10:32	
	09/17/2015	30.81	21.52	-	-	-	25.43	9.29	10:32	
	09/23/2015	30.81	21.48	-	-	-	-	9.33	10:53	
	09/28/2015	30.81	21.56	-	-	-	25.30	9.25	9:44	
	10/05/2015	30.81	21.55	-	-	-	25.61	9.26	9:21	
	11/10/2015	30.81	21.67	-	-	-	-	9.14	13:14	
	12/01/2015	30.81	21.80	-	-	-	25.30	9.01	10:48	

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Adjusted Groundwater Elevation (ft)	Time	Comments
MW-51 / RW-51	07/25/2014	NR	27.25	-	-	-	35.95	-	-	
	08/08/2014	NR	27.00	TRACE	TRACE	-	36.48	-	-	
	08/11/2014	NR	26.70	-	-	-	-	-	-	
	08/15/2014	NR	27.30	-	-	-	-	-	-	
	08/16/2014	NR	26.99	TRACE	TRACE	-	34.65	-	-	
	08/18/2014	NR	26.94	TRACE	TRACE	-	-	-	-	
	08/25/2014	30.97	26.59	TRACE	TRACE	-	-	4.38	-	
	09/02/2014	30.97	26.93	TRACE	TRACE	-	-	4.04	-	
	09/15/2014	30.97	26.88	26.85	0.03	TRACE	-	4.12	-	
	09/22/2014	30.97	26.83	26.80	0.03	TRACE	-	4.17	-	
	09/24/2014	30.97	27.19	27.15	0.04	-	-	3.81	-	
	10/01/2014	30.97	26.93	TRACE	TRACE	-	36.15	4.04	-	
	10/10/2014	30.97	26.84	26.81	0.03	-	-	4.16	-	
	10/13/2014	30.97	27.01	26.94	0.07	-	-	4.02	-	
	10/20/2014	30.97	27.05	27.03	0.02	TRACE	-	3.94	-	
	10/27/2014	30.97	27.16	27.12	0.04	TRACE	-	3.84	-	
	11/07/2014	30.97	27.11	27.07	0.04	TRACE	-	3.89	-	
	11/12/2014	30.97	26.92	26.90	0.02	TRACE	-	4.07	-	
	11/21/2014	30.97	27.57	27.50	0.07	TRACE	-	3.46	-	
	11/26/2014	30.97	27.20	27.17	0.03	TRACE	-	3.80	-	
	12/05/2014	30.97	26.98	26.96	0.02	TRACE	-	3.99	-	
	12/11/2014	30.97	26.88	26.87	0.01	TRACE	-	4.09	-	
	12/16/2014	30.97	26.83	26.80	0.03	TRACE	-	4.14	-	
	12/23/2014	30.97	26.83	TRACE	TRACE	TRACE	-	4.14	-	
	12/30/2014	30.97	27.28	27.22	0.06	TRACE	-	3.69	-	
	01/09/2015	30.97	27.20	27.15	0.05	TRACE	-	3.77	-	
	01/16/2015	30.97	26.95	26.91	0.04	TRACE	-	4.02	-	
	01/19/2015	30.97	26.88	26.83	0.05	TRACE	-	4.09	-	
	01/26/2015	30.97	26.98	26.92	0.06	TRACE	-	3.99	-	
	02/03/2015	30.97	27.52	27.45	0.07	-	36.15	3.45	-	LNAPL not manually bailed
	02/09/2015	30.97	26.93	26.91	0.02	-	-	4.04	-	LNAPL not manually bailed
	02/18/2015	30.97	27.07	27.02	0.05	-	-	3.90	-	LNAPL not manually bailed
	02/24/2015	30.97	27.07	27.06	0.01	TRACE	-	3.90	13:46	LNAPL not manually bailed
	03/04/2015	30.97	27.24	27.17	0.07	-	-	3.73	14:25	LNAPL not manually bailed
	03/11/2015	30.97	26.68	26.65	0.03	-	-	4.29	12:51	LNAPL not manually bailed
	03/18/2015	30.97	26.94	26.84	0.10	-	-	4.03	11:11	LNAPL not manually bailed
	03/26/2015	30.97	26.74	26.60	0.14	-	36.10	4.23	11:50	LNAPL not manually bailed
	04/02/2015	30.97	27.78	27.75	0.03	-	36.05	3.19	11:46	LNAPL not manually bailed
	04/08/2015	30.97	27.15	27.02	0.13	-	36.11	3.82	9:00	LNAPL not manually bailed
	04/13/2015	30.97	27.09	26.98	0.11	-	-	3.88	10:47	LNAPL not manually bailed
	04/23/2015	30.97	26.42	26.35	0.07	-	36.05	4.55	12:17	LNAPL not manually bailed

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Adjusted Groundwater Elevation (ft)	Time	Comments
MW-51 / RW-51 (cont.)	04/29/2015	30.97	26.71	26.60	0.11	-	36.00	4.26	14:39	LNAPL not manually bailed
	05/04/2015	30.97	26.54	26.48	0.06	-	-	4.43	11:46	LNAPL not manually bailed
	05/11/2015	30.97	26.44	26.40	0.04	-	-	4.53	15:00	LNAPL not manually bailed
	05/13/2015	30.97	27.31	27.10	0.21	0.03	-	3.66	12:35	
	05/21/2015	30.97	26.74	26.71	0.03	-	-	4.23	12:10	LNAPL not manually bailed
	05/28/2015	30.97	27.10	26.95	0.15	-	36.05	3.87	11:58	LNAPL not manually bailed
	06/02/2015	30.97	26.85	26.82	0.03	-	-	4.12	13:07	LNAPL not manually bailed
	06/09/2015	30.97	26.75	26.72	0.03	-	-	4.22	10:37	LNAPL not manually bailed
	06/16/2015	30.97	26.57	26.54	0.03	-	-	4.40	11:30	LNAPL not manually bailed
	06/26/2015	30.97	26.44	26.31	0.13	-	36.00	4.53	11:23	LNAPL not manually bailed
	07/01/2015	30.97	25.86	25.85	0.01	-	-	5.11	12:30	LNAPL not manually bailed
	07/08/2015	30.97	26.28	26.05	0.23	0.05	-	4.69	11:54	
	07/13/2015	30.97	26.03	25.90	0.13	-	-	4.94	9:46	HIT event
	07/20/2015	30.97	25.97	25.92	0.05	TRACE	-	5.00	9:52	
	07/28/2015	30.97	26.16	26.10	0.06	TRACE	36.18	4.81	11:55	
	08/04/2015	30.97	26.11	26.02	0.09	0.01	-	4.86	12:28	
	08/11/2015	30.97	25.78	25.70	0.08	0.01	36.14	5.19	11:07	
	08/18/2015	30.97	27.29	27.23	0.06	TRACE	-	3.68	10:43	
	08/24/2015	30.97	26.18	26.16	0.02	TRACE	-	4.79	10:46	
	09/02/2015	30.97	26.42	26.40	0.02	0.01	36.10	4.55	10:50	
	09/09/2015	30.97	26.35	26.27	0.08	0.02	36.12	4.62	10:35	
	09/17/2015	30.97	26.61	-	-	-	36.14	4.36	10:54	
	09/23/2015	30.97	26.49	26.47	0.02	TRACE	-	4.48	11:06	
	09/28/2015	30.97	26.00	TRACE	TRACE	-	36.10	4.97	10:01	LNAPL not manually bailed
	10/05/2015	30.97	26.67	-	-	-	36.15	4.30	12:15	
	11/10/2015	30.97	26.52	26.48	0.04	-	-	4.45	13:42	LNAPL not manually bailed
	12/01/2015	30.97	26.57	26.55	0.02	-	-	4.40	13:53	LNAPL not manually bailed
MW-52	08/15/2014	NR	28.11	-	-	-	35.78	-	-	
	08/18/2014	NR	26.07	-	-	-	-	-	-	
	08/25/2014	30.17	25.76	-	-	-	-	4.41	-	
	09/02/2014	30.17	26.15	-	-	-	-	4.02	-	
	09/15/2014	30.17	25.99	-	-	-	-	4.18	-	
	09/22/2014	30.17	26.00	-	-	-	-	4.17	-	
	10/01/2014	30.17	26.03	-	-	-	35.65	4.14	-	
	10/10/2014	30.17	26.07	-	-	-	-	4.10	-	
	10/20/2014	30.17	26.24	-	-	-	35.64	3.93	-	
	05/11/2015	30.17	25.81	-	-	-	35.65	4.36	14:45	
	05/12/2015	30.17	26.10	-	-	-	-	4.07	9:50	
	08/04/2015	30.17	25.21	-	-	-	35.55	4.96	12:01	
	08/05/2015	30.17	25.68	-	-	-	35.49	4.49	9:47	

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Adjusted Groundwater Elevation (ft)	Time	Comments
MW-52 (cont.)	12/01/2015	30.17	NG	-	-	-	-	-	-	Well flooded
MW-70	08/15/2014	NR	26.63	-	-	-	34.95	-	-	
	08/18/2014	NR	26.61	-	-	-	-	-	-	
	08/25/2014	30.86	26.25	-	-	-	-	4.61	-	
	09/02/2014	30.86	26.68	-	-	-	-	4.18	-	
	09/15/2014	30.86	26.63	-	-	-	-	4.23	-	
	09/22/2014	30.86	26.47	-	-	-	-	4.39	-	
	10/01/2014	30.86	26.66	-	-	-	34.88	4.20	-	
	10/10/2014	30.86	26.57	-	-	-	-	4.29	-	
	10/20/2014	30.86	26.79	-	-	-	34.90	4.07	-	
	02/24/2015	30.86	26.62	-	-	-	-	4.24	13:00	
	05/11/2015	30.86	26.02	-	-	-	35.15	4.84	14:55	
	05/12/2015	30.86	26.21	-	-	-	-	4.65	14:05	
	08/04/2015	30.86	25.73	-	-	-	35.16	5.13	12:28	
	08/05/2015	30.86	26.10	-	-	-	35.05	4.76	9:55	
	12/01/2015	30.86	26.23	-	-	-	35.05	4.63	13:32	
TW-08S	12/18/2013	36.75	DRY	-	-	-	-	-	-	
	01/08/2014	36.75	DRY	-	-	-	-	-	-	
	03/07/2014	36.75	24.14	-	-	-	-	12.61	-	
	03/13/2014	36.75	24.06	-	-	-	-	12.69	-	
	03/20/2014	36.75	24.37	-	-	-	-	12.38	-	
	03/27/2014	36.75	24.54	-	-	-	-	12.21	-	
	04/03/2014	36.75	24.26	-	-	-	-	12.49	-	
	04/08/2014	36.75	23.85	-	-	-	-	12.90	-	
	04/17/2014	36.75	24.13	-	-	-	-	12.62	-	
	04/22/2014	36.75	23.92	-	-	-	-	12.83	-	
	04/29/2014	36.75	23.91	-	-	-	-	12.84	-	
	05/05/2014	36.75	22.89	-	-	-	-	13.86	-	
	05/12/2014	36.75	23.02	-	-	-	-	13.73	-	
	05/19/2014	36.75	22.90	-	-	-	-	13.85	-	
	06/02/2014	36.75	23.24	-	-	-	-	13.51	-	
	06/09/2014	36.75	23.21	-	-	-	-	13.54	-	
	06/16/2014	36.75	22.40	-	-	-	-	14.35	-	
	06/23/2014	36.75	22.41	-	-	-	-	14.34	-	
	07/02/2014	36.75	22.40	-	-	-	-	14.35	-	
	07/07/2014	36.75	22.65	-	-	-	25.85	14.10	-	
	07/14/2014	36.75	23.23	-	-	-	-	13.52	-	
	07/24/2014	36.75	23.09	-	-	-	-	13.66	-	
	07/31/2014	36.75	23.26	-	-	-	25.82	13.49	-	

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Adjusted Groundwater Elevation (ft)	Time	Comments
TW-08S (cont.)	08/07/2014	Overdrilled and replaced with MW-72S								
MW-72S	08/08/2014	NR	23.33	-	-	-	25.30	-	-	
	08/11/2014	NR	22.85	-	-	-	-	-	-	
	08/15/2014	NR	21.35	-	-	-	23.90	-	-	
	08/18/2014	NR	21.34	-	-	-	-	-	-	
	08/25/2014	30.63	21.41	-	-	-	-	9.22	-	
	09/02/2014	30.63	21.45	-	-	-	-	9.18	-	
	09/15/2014	30.63	21.54	-	-	-	-	9.09	-	
	09/22/2014	30.63	21.56	-	-	-	-	9.07	-	
	10/01/2014	30.63	21.63	-	-	-	23.90	9.00	-	
	10/10/2014	30.63	21.69	-	-	-	-	8.94	-	
	10/20/2014	30.63	21.73	-	-	-	23.88	8.90	-	
	10/27/2014	30.63	21.80	-	-	-	-	8.83	-	
	11/07/2014	30.63	21.83	-	-	-	-	8.80	-	
	11/12/2014	30.63	21.88	-	-	-	-	8.75	-	
	11/21/2014	30.63	22.04	-	-	-	-	8.59	-	
	11/26/2014	30.63	22.10	-	-	-	-	8.53	-	
	12/05/2014	30.63	22.23	-	-	-	-	8.40	-	
	12/11/2014	30.63	22.11	-	-	-	-	8.52	-	
	12/16/2014	30.63	22.00	-	-	-	-	8.63	-	
	12/23/2014	30.63	21.99	-	-	-	-	8.64	-	
	12/30/2014	30.63	21.98	-	-	-	-	8.65	-	
	01/09/2015	30.63	21.94	-	-	-	-	8.69	-	
	01/16/2015	30.63	21.93	-	-	-	-	8.70	-	
	01/19/2015	30.63	21.88	-	-	-	-	8.75	-	
	01/26/2015	30.63	21.78	-	-	-	-	8.85	-	
	02/03/2015	30.63	21.79	-	-	-	23.93	8.84	-	
	02/09/2015	30.63	21.77	-	-	-	-	8.86	-	
	02/18/2015	30.63	21.85	-	-	-	-	8.78	-	
	02/24/2015	30.63	21.90	-	-	-	23.89	8.73	15:53	
	02/25/2015	30.63	21.87	-	-	-	23.75	8.76	14:10	
	03/04/2015	30.63	21.79	-	-	-	-	8.84	13:45	
	03/11/2015	30.63	21.75	-	-	-	-	8.88	12:12	
	03/18/2015	30.63	21.70	-	-	-	-	8.93	10:35	
	03/26/2015	30.63	21.73	-	-	-	23.90	8.90	11:10	
	04/02/2015	30.63	21.78	-	-	-	23.90	8.85	10:55	
	04/08/2015	30.63	21.82	-	-	-	23.87	8.81	9:35	
	04/13/2015	30.63	21.86	-	-	-	-	8.77	10:08	
	04/23/2015	30.63	21.86	-	-	-	23.87	8.77	11:12	
	04/29/2015	30.63	21.85	-	-	-	23.85	8.78	13:56	

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Adjusted Groundwater Elevation (ft)	Time	Comments
MW-72S (cont.)	05/04/2015	30.63	21.84	-	-	-	-	8.79	11:06	
	05/11/2015	30.63	21.91	-	-	-	23.90	8.72	10:48	
	05/13/2015	30.63	21.90	-	-	-	-	8.73	9:57	
	05/21/2015	30.63	21.88	-	-	-	23.90	8.75	11:47	
	05/28/2015	30.63	22.04	-	-	-	23.90	8.59	11:27	
	06/02/2015	30.63	22.03	-	-	-	-	8.60	12:30	
	06/09/2015	30.63	21.67	-	-	-	-	8.96	9:56	
	06/16/2015	30.63	21.68	-	-	-	-	8.95	10:50	
	06/26/2015	30.63	21.55	-	-	-	23.80	9.08	10:17	
	07/01/2015	30.63	21.38	-	-	-	-	9.25	11:45	
	08/04/2015	30.63	21.55	-	-	-	23.90	9.08	12:38	
	08/05/2015	30.63	21.51	-	-	-	23.90	9.12	9:25	
	12/01/2015	30.63	24.65	-	-	-	26.17	5.98	11:26	
MW-72 / RW-72	08/08/2014	NR	26.97	-	-	-	34.55	-	-	
	08/11/2014	NR	26.85	-	-	-	-	-	-	
	08/15/2014	NR	27.43	-	-	-	-	-	-	
	08/16/2014	NR	27.05	-	-	-	34.43	-	-	
	08/18/2014	NR	27.00	-	-	-	-	-	-	
	08/25/2014	31.06	26.66	-	-	-	-	4.40	-	
	09/02/2014	31.06	27.11	-	-	-	-	3.95	-	
	09/15/2014	31.06	27.02	-	-	-	-	4.04	-	
	09/22/2014	31.06	26.88	-	-	-	-	4.18	-	
	10/01/2014	31.06	27.10	-	-	-	34.48	3.96	-	
	10/10/2014	31.06	26.94	-	-	-	-	4.12	-	
	10/20/2014	31.06	27.19	-	-	-	34.43	3.87	-	
	10/27/2014	31.06	27.34	-	-	-	-	3.72	-	
	11/07/2014	31.06	27.04	-	-	-	-	4.02	-	
	11/12/2014	31.06	27.12	-	-	-	-	3.94	-	
	11/21/2014	31.06	27.82	-	-	-	-	3.24	-	
	11/26/2014	31.06	27.36	-	-	-	-	3.70	-	
	12/05/2014	31.06	27.01	-	-	-	-	4.05	-	
	12/11/2014	31.06	27.03	-	-	-	-	4.03	-	
	12/16/2014	31.06	26.91	-	-	-	-	4.15	-	
	12/23/2014	31.06	26.89	-	-	-	-	4.17	-	
	12/30/2014	31.06	27.36	-	-	-	-	3.70	-	
	01/09/2015	31.06	27.27	-	-	-	-	3.79	-	
	01/16/2015	31.06	27.03	-	-	-	-	4.03	-	
	01/19/2015	31.06	26.98	-	-	-	-	4.08	-	
	01/26/2015	31.06	26.96	-	-	-	-	4.10	-	
	02/03/2015	31.06	27.65	-	-	-	34.19	3.41	-	

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Adjusted Groundwater Elevation (ft)	Time	Comments
MW-72 / RW-72 (cont.)	02/09/2015	31.06	27.14	-	-	-	-	3.92	-	
	02/18/2015	31.06	27.11	-	-	-	-	3.95	-	
	02/24/2015	31.06	27.27	-	-	-	-	3.79	13:35	
	02/25/2015	31.06	27.33	-	-	-	34.28	3.73	9:50	
	03/04/2015	31.06	27.17	-	-	-	-	3.89	13:48	
	03/11/2015	31.06	26.98	-	-	-	-	4.08	12:15	
	03/18/2015	31.06	26.94	-	-	-	-	4.12	10:38	
	03/26/2015	31.06	26.78	-	-	-	34.10	4.28	11:13	
	04/02/2015	31.06	26.86	-	-	-	34.15	4.20	10:57	
	04/08/2015	31.06	27.20	-	-	-	33.98	3.86	9:40	
	04/13/2015	31.06	27.11	-	-	-	-	3.95	10:11	
	04/23/2015	31.06	26.61	-	-	-	34.13	4.45	11:15	
	04/29/2015	31.06	26.76	-	-	-	33.95	4.30	14:00	
	05/04/2015	31.06	26.60	-	-	-	-	4.46	11:09	
	05/11/2015	31.06	26.55	-	-	-	33.90	4.51	14:58	
	05/13/2015	31.06	27.12	-	-	-	-	3.94	9:55	
	05/21/2015	31.06	26.81	-	-	-	34.04	4.25	11:49	
	05/28/2015	31.06	27.05	-	-	-	34.00	4.01	11:28	
	06/02/2015	31.06	26.68	-	-	-	-	4.38	12:33	
	06/09/2015	31.06	26.46	-	-	-	-	4.60	10:00	
	06/16/2015	31.06	26.48	-	-	-	-	4.58	10:53	
	06/26/2015	31.06	26.42	-	-	-	34.00	4.64	10:19	
	07/01/2015	31.06	25.91	-	-	-	-	5.15	11:48	
	08/04/2015	31.06	26.19	-	-	-	34.14	4.87	12:35	
	08/05/2015	31.06	26.61	-	-	-	34.26	4.45	9:22	
	12/01/2015	31.06	26.68	-	-	-	-	4.38	13:44	
MW-100S	08/15/2014	NR	21.32	-	-	-	24.22	-	-	
	08/18/2014	NR	21.28	-	-	-	-	-	-	
	08/25/2014	31.06	21.31	-	-		-	9.75	-	
	09/02/2014	31.06	21.39	-	-	-	-	9.67	-	
	09/15/2014	31.06	21.39	-	-	-	-	9.67	-	
	09/22/2014	31.06	21.52	-	-	-	-	9.54	-	
	10/01/2014	31.06	21.62	-	-	-	24.16	9.44	-	
	10/10/2014	31.06	21.61	-	-	-	-	9.45	-	
	10/20/2014	31.06	21.67	-	-	-	24.17	9.39	-	
	02/24/2015	31.06	21.75	-	-	-	24.18	9.31	15:18	
	05/11/2015	31.06	21.55	-	-	-	24.20	9.51	9:55	
	08/04/2015	31.06	20.66	-	-	-	24.15	10.40	12:44	
	08/05/2015	31.06	20.70	-	-	-	24.15	10.36	10:03	
	12/01/2015	31.06	21.57	-	-	-	24.16	9.49	11:38	

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom Measured Depth (ft)	Adjusted Groundwater Elevation (ft)	Time	Comments
MW-100	08/15/2014	NR	26.80	-	-	-	36.90	-	-	
	08/18/2014	NR	26.66	-	-	-	-	-	-	
	08/25/2014	30.78	26.26	-	-	-	-	4.52	-	
	09/02/2014	30.78	26.70	-	-	-	-	4.08	-	
	09/15/2014	30.78	26.65	-	-	-	-	4.13	-	
	09/22/2014	30.78	26.48	-	-	-	-	4.30	-	
	10/01/2014	30.78	26.69	-	-	-	36.68	4.09	-	
	10/10/2014	30.78	26.60	-	-	-	-	4.18	-	
	10/20/2014	30.78	26.86	-	-	-	36.58	3.92	-	
	02/24/2015	30.78	26.88	-	-	-	36.61	3.90	13:08	
	02/25/2015	30.78	26.87	-	-	-	36.62	3.91	11:32	
	05/11/2015	30.78	26.17	-	-	-	36.60	4.61	14:57	
	08/04/2015	30.78	25.80	-	-	-	36.80	4.98	12:31	
	08/05/2015	30.78	26.22	-	-	-	36.61	4.56	9:59	
	12/01/2015	30.78	26.25	-	-	-	36.35	4.53	13:24	
MW-102	08/15/2014	NR	29.91	-	-	-	36.64	-	-	
	08/18/2014	NR	29.81	-	-	-	-	-	-	
	08/25/2014	29.72	28.40	-	-	-	-	1.32	-	
	09/02/2014	29.72	27.23	-	-	-	-	2.49	-	
	09/15/2014	29.72	24.97	-	-	-	-	4.75	-	
	09/22/2014	29.72	24.83	-	-	-	-	4.89	-	
	10/01/2014	29.72	24.73	-	-	-	36.45	4.99	-	
	10/10/2014	29.72	24.66	-	-	-	-	5.06	-	
	10/20/2014	29.72	24.78	-	-	-	36.44	4.94	-	
	05/11/2015	29.72	24.44	-	-	-	36.40	5.28	15:01	
	08/04/2015	29.72	23.39	-	-	-	36.43	6.33	12:35	
	08/05/2015	29.72	23.50	-	-	-	36.42	6.22	10:14	
	12/01/2015	29.72	22.61	-	-	-	31.80	7.11	13:52	
MW-103	07/24/2014	NR	7.87	-	-	-	-	-	-	
	08/08/2014	NR	4.61	-	-	-	15.06	-	-	
	08/11/2014	NR	4.63	-	-	-	-	-	-	
	08/15/2014	NR	4.26	-	-	-	14.95	-	-	
	08/18/2014	NR	4.48	-	-	-	-	-	-	
	08/25/2014	11.07	4.45	-	-	-	-	6.62	-	
	09/02/2014	11.07	4.50	-	-	-	-	6.57	-	
	09/15/2014	11.07	4.63	-	-	-	-	6.44	-	
	09/22/2014	11.07	4.76	-	-	-	-	6.31	-	
	10/01/2014	11.07	4.85	-	-	-	14.88	6.22	-	
	10/10/2014	11.07	4.93	-	-	-	-	6.14	-	

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Adjusted Groundwater Elevation (ft)	Time	Comments
MW-103 (cont.)	10/20/2014	11.07	4.70	-	-	-	14.88	6.37	-	
	02/24/2015	11.07	5.02	-	-	-	-	6.05	15:27	
	02/26/2015	11.07	5.21	-	-	-	14.90	5.86	11:53	
	05/11/2015	11.07	4.67	-	-	-	14.88	6.40	10:20	
	08/04/2015	11.07	3.69	-	-	-	14.88	7.38	10:19	
	08/05/2015	11.07	3.71	-	-	-	14.87	7.36	10:20	
	12/01/2015	11.07	9.70	-	-	-	-	1.37	11:30	
MW-104	07/24/2014	NR	5.24	-	-	-	-	-	-	
	08/08/2014	NR	4.28	-	-	-	12.05	-	-	
	08/11/2014	NR	4.40	-	-	-	-	-	-	
	08/15/2014	NR	3.95	-	-	-	12.20	-	-	
	08/18/2014	NR	4.22	-	-	-	-	-	-	
	08/25/2014	12.00	4.29	-	-	-	-	7.71	-	
	09/02/2014	12.00	4.38	-	-	-	-	7.62	-	
	09/15/2014	12.00	4.52	-	-	-	-	7.48	-	
	09/22/2014	12.00	4.73	-	-	-	-	7.27	-	
	10/01/2014	12.00	4.73	-	-	-	11.98	7.27	-	
	10/10/2014	12.00	4.77	-	-	-	-	7.23	-	
	10/20/2014	12.00	3.98	-	-	-	12.07	8.02	-	
	02/24/2015	12.00	5.43	-	-	-	-	6.57	15:38	
	02/26/2015	12.00	5.70	-	-	-	12.00	6.30	12:07	
	05/11/2015	12.00	4.51	-	-	-	12.10	7.49	10:25	
	08/04/2015	12.00	3.82	-	-	-	12.00	8.18	10:08	
	08/05/2015	12.00	3.85	-	-	-	12.50	8.15	10:23	
	12/01/2015	12.00	4.29	-	-	-	12.05	7.71	11:42	
MW-105	07/24/2014	NR	2.34	-	-	-	-	-	-	
	08/08/2014	NR	2.15	-	-	-	10.06	-	-	
	08/11/2014	NR	2.39	-	-	-	-	-	-	
	08/15/2014	NR	1.67	-	-	-	9.95	-	-	
	08/18/2014	NR	2.06	-	-	-	-	-	-	
	08/25/2014	10.94	2.25	-	-	-	-	8.69	-	
	09/02/2014	10.94	2.24	-	-	-	-	8.70	-	
	09/15/2014	10.94	2.32	-	-	-	-	8.62	-	
	09/22/2014	10.94	2.71	-	-	-	-	8.23	-	
	10/01/2014	10.94	2.57	-	-	-	9.88	8.37	-	
	10/10/2014	10.94	2.70	-	-	-	-	8.24	-	
	10/20/2014	10.94	1.70	-	-	-	9.93	9.24	-	
	05/11/2015	10.94	2.40	-	-	-	9.70	8.54	10:35	
	08/04/2015	10.94	1.65	-	-	-	9.62	9.29	10:15	

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Adjusted Groundwater Elevation (ft)	Time	Comments
MW-105 (cont.)	08/05/2015	10.94	1.67	-	-	-	9.60	9.27	10:26	
	12/01/2015	10.94	NG	-	-	-	-	-	-	Well flooded
MW-106	08/08/2014	NR	8.30	-	-	-	10.27	-	-	
	08/11/2014	NR	8.27	-	-	-	-	-	-	
	08/15/2014	NR	7.63	-	-	-	9.88	-	-	
	08/18/2014	NR	7.58	-	-	-	-	-	-	
	08/25/2014	11.12	7.52	-	-	-	-	3.60	-	
	09/02/2014	11.12	7.79	-	-	-	-	3.33	-	
	09/15/2014	11.12	7.90	-	-	-	-	3.22	-	
	09/22/2014	11.12	7.87	-	-	-	-	3.25	-	
	10/01/2014	11.12	7.93	-	-	-	9.88	3.19	-	
	10/10/2014	11.12	7.71	-	-	-	-	3.41	-	
	10/13/2014	11.12	7.92	-	-	-	-	3.20	-	
	10/20/2014	11.12	7.86	-	-	-	9.88	3.26	-	
	10/27/2014	11.12	7.77	-	-	-	-	3.35	-	
	11/07/2014	11.12	7.83	-	-	-	-	3.29	-	
	11/12/2014	11.12	7.88	-	-	-	-	3.24	-	
	11/21/2014	11.12	8.23	-	-	-	-	2.89	-	
	11/26/2014	11.12	8.03	-	-	-	-	3.09	-	
	12/05/2014	11.12	7.21	-	-	-	-	3.91	-	
	12/11/2014	11.12	6.95	-	-	-	-	4.17	-	
	12/16/2014	11.12	7.18	-	-	-	-	3.94	-	
	12/23/2014	11.12	7.31	-	-	-	-	3.81	-	
	12/30/2014	11.12	6.97	-	-	-	-	4.15	-	
	01/09/2015	11.12	7.34	-	-	-	-	3.78	-	
	01/16/2015	11.12	6.88	-	-	-	-	4.24	-	
	01/19/2015	11.12	6.77	-	-	-	-	4.35	-	
	01/26/2015	11.12	5.79	-	-	-	-	5.33	-	
	02/03/2015	11.12	7.24	-	-	-	9.90	3.88	-	
	02/09/2015	11.12	7.42	-	-	-	-	3.70	-	
	02/18/2015	11.12	7.63	-	-	-	-	3.49	-	
	02/24/2015	11.12	7.76	-	-	-	9.84	3.36	13:18	
	02/25/2015	11.12	7.80	-	-	-	9.79	3.32	10:20	
	03/04/2015	11.12	7.57	-	-	-	-	3.55	13:52	
	03/11/2015	11.12	5.17	-	-	-	-	5.95	12:19	
	03/18/2015	11.12	6.39	-	-	-	-	4.73	10:42	
	03/26/2015	11.12	7.02	-	-	-	9.90	4.10	11:02	
	04/02/2015	11.12	7.15	-	-	-	9.85	3.97	10:47	
	04/08/2015	11.12	7.55	-	-	-	9.87	3.57	9:46	
	04/13/2015	11.12	7.63	-	-	-	-	3.49	10:18	

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Adjusted Groundwater Elevation (ft)	Time	Comments
MW-106 (cont.)	04/23/2015	11.12	6.70	-	-	-	9.85	4.42	11:00	
	04/29/2015	11.12	7.15	-	-	-	9.85	3.97	13:34	
	05/04/2015	11.12	7.23	-	-	-	-	3.89	11:17	
	05/11/2015	11.12	7.43	-	-	-	9.85	3.69	14:51	
	05/12/2015	11.12	7.50	-	-	-	-	3.62	10:35	
	05/21/2015	11.12	7.62	-	-	-	9.85	3.50	11:55	
	05/28/2015	11.12	7.81	-	-	-	9.80	3.31	11:11	
	06/02/2015	11.12	6.66	-	-	-	-	4.46	12:38	
	06/09/2015	11.12	6.37	-	-	-	-	4.75	10:04	
	06/16/2015	11.12	7.21	-	-	-	-	3.91	11:01	
	06/26/2015	11.12	6.27	-	-	-	9.90	4.85	9:13	
	07/01/2015	11.12	4.77	-	-	-	-	6.35	11:54	
	08/04/2015	11.12	7.42	-	-	-	9.86	3.70	12:19	
	12/01/2015	11.12	7.65	-	-	-	9.85	3.47	13:45	
MW-107	08/08/2014	NR	10.62	-	-	-	11.57	-	-	
	08/11/2014	NR	9.02	-	-	-	-	-	-	
	08/15/2014	NR	8.94	-	-	-	-	-	-	
	08/16/2014	NR	8.93	-	-	-	11.57	-	-	
	08/18/2014	NR	8.89	-	-	-	-	-	-	
	08/25/2014	15.74	8.38	-	-	-	-	7.36	-	
	09/02/2014	15.74	8.43	-	-	-	-	7.31	-	
	09/15/2014	15.74	9.39	-	-	-	-	6.35	-	
	09/22/2014	15.74	9.92	-	-	-	-	5.82	-	
	10/01/2014	15.74	10.32	-	-	-	11.03	5.42	-	
	10/10/2014	15.74	10.53	-	-	-	-	5.21	-	
	10/13/2014	15.74	10.67	-	-	-	-	5.07	-	
	10/20/2014	15.74	8.43	-	-	-	11.04	7.31	-	
	10/27/2014	15.74	7.97	-	-	-	-	7.77	-	
	11/07/2014	15.74	8.32	-	-	-	-	7.42	-	
	11/12/2014	15.74	8.63	-	-	-	-	7.11	-	
	11/21/2014	15.74	9.38	-	-	-	-	6.36	-	
	11/26/2014	15.74	8.93	-	-	-	-	6.81	-	
	12/05/2014	15.74	7.47	-	-	-	-	8.27	-	
	12/11/2014	15.74	7.43	-	-	-	-	8.31	-	
	12/16/2014	15.74	8.28	-	-	-	-	7.46	-	
	12/23/2014	15.74	8.35	-	-	-	-	7.39	-	
	12/30/2014	15.74	8.20	-	-	-	-	7.54	-	
	01/09/2015	15.74	8.03	-	-	-	-	7.71	-	
	01/16/2015	15.74	7.68	-	-	-	-	8.06	-	
	01/19/2015	15.74	6.76	-	-	-	-	8.98	-	

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Adjusted Groundwater Elevation (ft)	Time	Comments
MW-107 (cont.)	01/26/2015	15.74	5.84	-	-	-	-	9.90	-	
	02/03/2015	15.74	8.63	-	-	-	11.04	7.11	-	
	02/09/2015	15.74	8.73	-	-	-	-	7.01	-	
	02/18/2015	15.74	9.21	-	-	-	-	6.53	-	
	02/24/2015	15.74	9.78	-	-	-	11.00	5.96	13:23	
	02/25/2015	15.74	9.64	-	-	-	11.00	6.10	11:40	
	03/04/2015	15.74	9.48	-	-	-	-	6.26	13:55	
	03/11/2015	15.74	4.08	-	-	-	-	11.66	12:22	
	03/18/2015	15.74	7.44	-	-	-	-	8.30	10:45	
	03/26/2015	15.74	8.98	-	-	-	11.00	6.76	11:05	
	04/02/2015	15.74	8.63	-	-	-	11.00	7.11	10:49	
	04/08/2015	15.74	9.00	-	-	-	11.00	6.74	9:45	
	04/13/2015	15.74	9.06	-	-	-	-	6.68	10:21	
	04/23/2015	15.74	7.18	-	-	-	11.00	8.56	11:04	
	04/29/2015	15.74	9.14	-	-	-	11.00	6.60	13:39	
	05/04/2015	15.74	9.03	-	-	-	-	6.71	11:14	
	05/11/2015	15.74	9.19	-	-	-	11.00	6.55	14:49	
	05/12/2015	15.74	9.25	-	-	-	-	6.49	10:37	
	05/21/2015	15.74	9.21	-	-	-	11.00	6.53	11:57	
	05/28/2015	15.74	9.27	-	-	-	11.00	6.47	11:13	
	06/02/2015	15.74	3.95	-	-	-	-	11.79	12:41	
	06/09/2015	15.74	6.78	-	-	-	-	8.96	10:07	
	06/16/2015	15.74	9.05	-	-	-	-	6.69	10:58	
	06/26/2015	15.74	6.86	-	-	-	11.00	8.88	9:15	
	07/01/2015	15.74	4.03	-	-	-	-	11.71	11:51	
	08/04/2015	15.74	9.40	-	-	-	11.00	6.34	12:21	
	12/01/2015	15.74	8.80	-	-	-	11.01	6.94	13:47	
MW-108	08/08/2014	NR	DRY	-	-	-	9.49	-	-	
	08/11/2014	NR	DRY	-	-	-	9.52	-	-	
	08/15/2014	NR	9.01	-	-	-	9.22	-	-	
	08/18/2014	NR	9.07	-	-	-	-	-	-	
	08/25/2014	15.61	DRY	-	-	-	9.23	-	-	
	09/02/2014	15.61	DRY	-	-	-	9.23	-	-	
	09/15/2014	15.61	DRY	-	-	-	9.22	-	-	
	09/22/2014	15.61	DRY	-	-	-	-	-	-	
	10/01/2014	15.61	DRY	-	-	-	10.48	-	-	
	10/10/2014	15.61	DRY	-	-	-	-	-	-	
	10/20/2014	15.61	DRY	-	-	-	10.48	-	-	
	05/11/2015	15.61	DRY	-	-	-	9.20	-	14:47	
	05/12/2015	15.61	DRY	-	-	-	-	-	10:40	

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Adjusted Groundwater Elevation (ft)	Time	Comments
MW-108 (cont.)	08/04/2015	15.61	DRY	-	-	-	9.21	-	12:27	
	12/01/2015	15.61	DRY	-	-	-	9.21	-	13:49	
MW-109S	08/25/2014	19.27	10.06	-	-	-	-	9.21	-	
	09/15/2014	19.27	10.19	-	-	-	-	9.08	-	
	09/22/2014	19.27	10.24	-	-	-	-	9.03	-	
	10/01/2014	19.27	10.33	-	-	-	13.20	8.94	-	
	10/10/2014	19.27	10.47	-	-	-	-	8.80	-	
	10/13/2014	19.27	10.58	-	-	-	-	8.69	-	
	10/20/2014	19.27	10.67	-	-	-	13.20	8.60	-	
	10/27/2014	19.27	10.83	-	-	-	-	8.44	-	
	11/07/2014	19.27	10.76	-	-	-	-	8.51	-	
	11/12/2014	19.27	10.85	-	-	-	-	8.42	-	
	11/21/2014	19.27	11.04	-	-	-	-	8.23	-	
	11/26/2014	19.27	11.02	-	-	-	-	8.25	-	
	02/24/2015	19.27	11.43	-	-	-	13.06	7.84	13:55	
	02/26/2015	19.27	11.36	-	-	-	13.06	7.91	10:40	
	05/11/2015	19.27	11.31	-	-	-	13.20	7.96	15:06	
	05/12/2015	19.27	11.28	-	-	-	13.20	7.99	10:00	
	05/21/2015	19.27	11.40	-	-	-	13.06	7.87	12:34	
MW-109	08/25/2014	19.16	14.59	-	-	-	-	4.57	-	
	09/15/2014	19.16	14.98	-	-	-	-	4.18	-	
	09/22/2014	19.16	14.88	-	-	-	-	4.28	-	
	10/01/2014	19.16	15.07	-	-	-	22.79	4.09	-	
	10/10/2014	19.16	14.96	-	-	-	-	4.20	-	
	10/13/2014	19.16	15.09	-	-	-	-	4.07	-	
	10/20/2014	19.16	15.22	-	-	-	22.72	3.94	-	
	10/27/2014	19.16	15.27	-	-	-	-	3.89	-	
	11/07/2014	19.16	15.07	-	-	-	-	4.09	-	
	11/12/2014	19.16	15.13	-	-	-	-	4.03	-	
	11/21/2014	19.16	15.81	-	-	-	-	3.35	-	
	11/26/2014	19.16	15.33	-	-	-	-	3.83	-	
	02/24/2015	19.16	15.25	-	-	-	22.80	3.91	13:58	
	02/26/2015	19.16	15.25	-	-	-	22.80	3.91	10:44	
	05/11/2015	19.16	14.61	-	-	-	22.84	4.55	15:04	
	05/12/2015	19.16	14.77	-	-	-	22.84	4.39	9:57	
	05/21/2015	19.16	15.23	-	-	-	22.80	3.93	12:36	
MW-110S	08/25/2014	19.13	10.05	-	-	-	12.70	9.08	-	
	09/15/2014	19.13	10.23	-	-	-	-	8.90	-	

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Adjusted Groundwater Elevation (ft)	Time	Comments
MW-110S (cont.)	09/22/2014	19.13	10.28	-	-	-	-	8.85	-	
	10/01/2014	19.13	10.33	-	-	-	12.65	8.80	-	
	10/10/2014	19.13	10.41	-	-	-	-	8.72	-	
	10/20/2014	19.13	10.45	-	-	-	12.66	8.68	-	
	10/27/2014	19.13	10.48	-	-	-	-	8.65	-	
	11/07/2014	19.13	10.50	-	-	-	-	8.63	-	
	11/12/2014	19.13	10.53	-	-	-	-	8.60	-	
	11/21/2014	19.13	10.60	-	-	-	-	8.53	-	
	11/26/2014	19.13	10.60	-	-	-	-	8.53	-	
	02/24/2015	19.13	11.53	-	-	-	12.67	7.60	13:49	
	02/26/2015	19.13	11.59	-	-	-	12.67	7.54	10:33	
	05/11/2015	19.13	12.24	-	-	-	12.65	6.89	14:56	
	05/12/2015	19.13	12.24	-	-	-	12.65	6.89	9:47	
	05/21/2015	19.13	11.55	-	-	-	12.67	7.58	12:38	
MW-110	08/25/2014	19.51	14.70	-	-	-	24.40	4.81	-	
	09/15/2014	19.51	15.11	-	-	-	-	4.40	-	
	09/22/2014	19.51	14.98	-	-	-	-	4.53	-	
	10/01/2014	19.51	15.18	-	-	-	23.33	4.33	-	
	10/10/2014	19.51	15.07	-	-	-	-	4.44	-	
	10/20/2014	19.51	14.35	-	-	-	23.34	5.16	-	
	10/27/2014	19.51	14.39	-	-	-	-	5.12	-	
	11/07/2014	19.51	15.18	-	-	-	-	4.33	-	
	11/12/2014	19.51	15.25	-	-	-	-	4.26	-	
	11/21/2014	19.51	15.97	-	-	-	-	3.54	-	
	11/26/2014	19.51	15.45	-	-	-	-	4.06	-	
	02/24/2015	19.51	15.38	-	-	-	23.36	4.13	13:52	
	02/26/2015	19.51	15.38	-	-	-	23.36	4.13	10:36	
	05/11/2015	19.51	14.74	-	-	-	23.42	4.77	14:54	
	05/12/2015	19.51	14.91	-	-	-	23.42	4.60	9:44	
	05/21/2015	19.51	15.40	-	-	-	23.36	4.11	12:40	
MW-111	10/10/2014	19.17	14.97	-	-	-	-	4.20	-	
	10/20/2014	19.17	14.25	-	-	-	21.97	4.92	-	
	02/24/2015	19.17	15.30	-	-	-	21.96	3.87	13:43	
	02/26/2015	19.17	15.28	-	-	-	21.96	3.89	10:25	
	05/11/2015	19.17	14.66	-	-	-	21.87	4.51	14:51	
	05/12/2015	19.17	14.78	-	-	-	21.87	4.39	9:41	
MW-112S	08/15/2014	NR	10.31	-	-	-	12.40	-	-	
	08/18/2014	NR	10.22	-	-	-	12.45	-	-	

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom [1] Measured Depth (ft)	Adjusted Groundwater Elevation (ft)	Time	Comments
MW-112S (cont.)	08/25/2014	19.22	10.29	-	-	-	-	8.93	-	
	09/15/2014	19.22	10.43	-	-	-	-	8.79	-	
	09/22/2014	19.22	10.56	-	-	-	-	8.66	-	
	10/01/2014	19.22	10.58	-	-	-	12.46	8.64	-	
	10/10/2014	19.22	10.64	-	-	-	-	8.58	-	
	10/20/2014	19.22	10.75	-	-	-	12.47	8.47	-	
	02/24/2015	19.22	11.30	-	-	-	12.48	7.92	13:37	
	02/26/2015	19.22	11.34	-	-	-	12.48	7.88	10:19	
	05/11/2015	19.22	11.21	-	-	-	12.44	8.01	15:01	
	05/12/2015	19.22	11.21	-	-	-	12.44	8.01	9:54	
MW-112	08/15/2014	NR	15.11	-	-	-	22.55	-	-	
	08/18/2014	NR	14.43	-	-	-	22.31	-	-	
	08/25/2014	19.08	14.53	-	-	-	-	4.55	-	
	09/02/2014	19.08	NR[3]	-	-	-	-	-	-	
	09/15/2014	19.08	14.85	-	-	-	-	4.23	-	
	09/22/2014	19.08	14.77	-	-	-	-	4.31	-	
	10/01/2014	19.08	14.92	-	-	-	22.83	4.16	-	
	10/10/2014	19.08	14.87	-	-	-	-	4.21	-	
	10/20/2014	19.08	15.15	-	-	-	22.83	3.93	-	
	02/24/2015	19.08	15.19	-	-	-	22.75	3.89	13:40	
	02/26/2015	19.08	15.15	-	-	-	22.75	3.93	10:22	
	05/11/2015	19.08	14.52	-	-	-	22.83	4.56	14:59	
	05/12/2015	19.08	14.64	-	-	-	22.83	4.44	9:51	
MW-113	08/25/2014	19.11	14.49	-	-	-	-	4.62	-	
	09/15/2014	19.11	14.96	-	-	-	-	4.15	-	
	09/22/2014	19.11	14.83	-	-	-	-	4.28	-	
	10/01/2014	19.11	15.04	-	-	-	22.95	4.07	-	
	10/10/2014	19.11	14.84	-	-	-	-	4.27	-	
	10/20/2014	19.11	15.20	-	-	-	22.95	3.91	-	
	02/24/2015	19.11	15.24	-	-	-	22.95	3.87	13:46	
	02/26/2015	19.11	15.27	-	-	-	22.95	3.84	10:29	
	05/11/2015	19.11	14.58	-	-	-	22.77	4.53	14:48	
	05/12/2015	19.11	14.81	-	-	-	22.77	4.30	9:38	
MW-114	08/25/2014	19.26	14.62	-	-	-	22.78	4.64	-	
	09/15/2014	19.26	14.89	-	-	-	-	4.37	-	
	09/22/2014	19.26	14.87	-	-	-	-	4.39	-	
	10/01/2014	19.26	14.96	-	-	-	22.77	4.30	-	
	10/10/2014	19.26	15.01	-	-	-	-	4.25	-	

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Adjusted Groundwater Elevation (ft)	Time	Comments
MW-114 (cont.)	10/20/2014	19.26	15.29	-	-	-	22.77	3.97	-	
	02/24/2015	19.26	15.25	-	-	-	22.77	4.01	13:34	
	02/26/2015	19.26	15.10	-	-	-	22.77	4.16	10:15	
	05/11/2015	19.26	14.52	-	-	-	22.75	4.74	14:45	
	05/12/2015	19.26	14.51	-	-	-	22.75	4.75	9:35	
MW-121	07/08/2015	NR	26.52	-	-	-	-	-	11:21	
	07/13/2015	31.48	26.14	-	-	-	36.93	5.34	9:28	
	07/20/2015	31.48	26.37	-	-	-	-	5.11	9:25	
	07/28/2015	31.48	26.53	-	-	-	37.06	4.95	11:38	
	08/04/2015	30.88	25.91	-	-	-	36.33	4.97	12:22	
	08/11/2015	30.88	25.58	-	-	-	36.31	5.30	9:59	
	08/18/2015	30.88	26.12	-	-	-	-	4.76	10:23	
	08/24/2015	30.88	26.02	-	-	-	-	4.86	10:23	
	09/02/2015	30.88	26.38	-	-	-	36.31	4.50	9:45	
	09/09/2015	30.88	26.11	-	-	-	36.29	4.77	10:23	
	09/17/2015	30.88	26.51	-	-	-	36.41	4.37	10:27	
	09/23/2015	30.88	26.32	-	-	-	-	4.56	10:43	
	09/28/2015	30.88	26.18	-	-	-	36.25	4.70	9:24	
	10/05/2015	30.88	26.02	-	-	-	36.25	4.86	9:18	
	11/10/2015	30.88	26.62	-	-	-	-	4.26	13:06	
	12/01/2015	30.88	26.48	-	-	-	36.20	4.40	13:56	
MW-122	07/08/2015	NR	25.58	-	-	-	-	-	11:32	
	07/13/2015	31.12	25.36	-	-	-	34.72	5.76	9:29	
	07/20/2015	31.12	25.20	-	-	-	-	5.92	9:31	
	07/28/2015	31.12	25.38	-	-	-	34.85	5.74	11:13	
	08/04/2015	31.12	25.54	-	-	-	34.61	5.58	12:24	
	08/11/2015	31.12	25.46	-	-	-	34.79	5.66	9:58	
	08/18/2015	31.12	25.98	-	-	-	-	5.14	10:30	
	08/24/2015	31.12	25.83	-	-	-	-	5.29	10:37	
	09/02/2015	31.12	26.21	-	-	-	34.76	4.91	9:41	
	09/09/2015	31.12	26.03	-	-	-	34.78	5.09	10:21	
	09/17/2015	31.12	26.45	-	-	-	34.83	4.67	10:25	
	09/23/2015	31.12	26.18	-	-	-	-	4.94	10:46	
	09/28/2015	31.12	25.98	-	-	-	34.72	5.14	9:48	
	10/05/2015	31.12	25.50	TRACE	TRACE	-	34.72	5.62	9:13	
	11/10/2015	31.12	26.32	-	-	-	-	4.80	13:07	
	12/01/2015	31.12	26.57	-	-	-	34.72	4.55	13:53	
MW-123S	07/08/2015	NR	DRY	-	-	-	24.92	-	11:35	

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Adjusted Groundwater Elevation (ft)	Time	Comments
MW-123S (cont.)	07/13/2015	31.09	23.96	-	-	-	24.90	7.13	9:17	
	07/20/2015	31.09	22.37	-	-	-	-	8.72	9:22	
	07/28/2015	31.09	22.15	-	-	-	24.98	8.94	11:05	
	08/04/2015	31.09	22.04	-	-	-	24.91	9.05	13:08	
	08/05/2015	31.09	22.07	-	-	-	24.93	9.02	9:16	
	08/11/2015	31.09	22.04	-	-	-	24.91	9.05	10:10	
	08/18/2015	31.09	22.05	-	-	-	-	9.04	9:50	
	08/24/2015	31.09	22.08	-	-	-	-	9.01	9:53	
	09/02/2015	31.09	22.26	22.25	0.01	TRACE	24.92	8.83	9:28	
	09/09/2015	31.09	22.33	-	-	-	24.92	8.76	10:28	
	09/17/2015	31.09	22.56	-	-	-	24.97	8.53	10:19	
	09/23/2015	31.09	22.57	-	-	-	-	8.52	10:11	
	09/28/2015	31.09	22.59	-	-	-	24.91	8.50	9:30	
	10/05/2015	31.09	22.61	TRACE	TRACE	-	24.92	8.48	9:09	
	11/10/2015	31.09	25.31	-	-	-	-	5.78	12:43	
	12/01/2015	33.54	25.53	-	-	-	27.40	8.01	10:55	
RW-1	10/10/2014	NR	26.93	-	-	-	-	-	-	
	10/13/2014	NR	27.09	-	-	-	-	-	-	
	10/20/2014	NR	27.27	-	-	-	40.65	-	-	
	10/27/2014	31.19	27.35	-	-	-	-	3.84	-	
	11/07/2014	31.19	27.10	-	-	-	-	4.09	-	
	11/12/2014	31.19	27.15	-	-	-	-	4.04	-	
	11/21/2014	31.19	27.83	-	-	-	-	3.36	-	
	11/26/2014	31.19	27.42	-	-	-	-	3.77	-	
	12/05/2014	31.19	27.25	-	-	-	-	3.94	-	
	12/11/2014	31.19	27.09	-	-	-	-	4.10	-	
	12/16/2014	31.19	26.98	-	-	-	-	4.21	-	
	12/23/2014	31.19	26.98	-	-	-	-	4.21	-	
	12/30/2014	31.19	27.38	-	-	-	-	3.81	-	
	01/09/2015	31.19	27.37	-	-	-	-	3.82	-	
	01/16/2015	31.19	27.08	-	-	-	-	4.11	-	
	01/19/2015	31.19	27.07	-	-	-	-	4.12	-	
	01/26/2015	31.19	27.03	-	-	-	-	4.16	-	
	02/03/2015	31.19	27.80	-	-	-	40.75	3.39	-	
	02/09/2015	31.19	27.18	-	-	-	-	4.01	-	
	02/18/2015	31.19	27.22	-	-	-	-	3.97	-	
	02/24/2015	31.19	27.42	-	-	-	40.35	3.77	13:49	
	03/04/2015	31.19	27.27	-	-	-	-	3.92	14:12	
	03/11/2015	31.19	26.90	-	-	-	-	4.29	12:42	
	03/18/2015	31.19	27.04	-	-	-	-	4.15	11:02	

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Adjusted Groundwater Elevation (ft)	Time	Comments
RW-1 (cont.)	03/26/2015	31.19	26.87	-	-	-	40.70	4.32	11:35	
	04/02/2015	31.19	27.02	-	-	-	40.60	4.17	11:23	
	04/08/2015	31.19	27.30	-	-	-	40.55	3.89	8:45	
	04/13/2015	31.19	27.18	-	-	-	-	4.01	10:38	
	04/23/2015	31.19	26.67	-	-	-	40.65	4.52	11:52	
	04/29/2015	31.19	26.87	-	-	-	40.70	4.32	14:19	
	05/04/2015	31.19	26.72	-	-	-	-	4.47	11:36	
	05/11/2015	31.19	26.70	-	-	-	40.78	4.49	15:03	
	05/12/2015	31.19	26.92	-	-	-	40.63	4.27	14:15	
	05/21/2015	31.19	26.90	-	-	-	40.70	4.29	12:20	
	05/28/2015	31.19	27.11	-	-	-	40.60	4.08	11:43	
	06/02/2015	31.19	26.79	-	-	-	-	4.40	13:01	
	06/09/2015	31.19	26.57	-	-	-	-	4.62	10:27	
	06/16/2015	31.19	26.60	-	-	-	-	4.59	11:21	
	06/26/2015	31.19	26.52	-	-	-	40.50	4.67	10:37	
	07/01/2015	31.19	26.07	-	-	-	-	5.12	12:12	
	08/04/2015	31.19	26.30	-	-	-	40.66	4.89	12:16	
	08/05/2015	31.19	26.67	-	-	-	40.65	4.52	9:08	
	12/01/2015	31.19	26.77	-	-	-	40.67	4.42	13:41	
RW-05S	07/08/2015	NR	22.72	-	-	-	-	-	11:25	
	07/13/2015	31.38	22.57	-	-	-	26.03	8.81	9:34	
	07/20/2015	31.38	21.82	-	-	-	-	9.56	9:28	
	07/28/2015	31.38	21.77	-	-	-	26.07	9.61	11:21	
	08/05/2015	31.38	21.87	-	-	-	26.03	9.51	9:27	
	08/11/2015	31.38	21.95	-	-	-	26.06	9.43	10:05	
	08/18/2015	31.38	22.17	-	-	-	-	9.21	10:27	
	08/24/2015	31.38	22.42	-	-	-	-	8.96	10:20	
	09/02/2015	31.38	22.47	-	-	-	26.05	8.91	9:49	
	09/09/2015	31.38	22.60	-	-	-	26.07	8.78	10:25	
	09/17/2015	31.38	22.69	-	-	-	26.07	8.69	10:30	
	09/23/2015	31.38	22.69	-	-	-	-	8.69	10:37	
	09/28/2015	31.38	22.78	-	-	-	26.07	8.60	9:26	
	10/05/2015	31.38	22.71	-	-	-	26.20	8.67	9:15	
	11/10/2015	31.38	25.07	-	-	-	-	6.31	13:05	
	12/01/2015	33.47	25.36	-	-	-	28.15	8.11	11:51	
RW-25S	07/08/2015	NR	DRY	-	-	-	24.64	-	11:43	
	07/13/2015	30.97	DRY	-	-	-	24.65	-	9:39	
	07/20/2015	30.97	DRY	-	-	-	-	-	9:40	
	07/28/2015	30.97	DRY	-	-	-	24.71	-	10:47	

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Adjusted Groundwater Elevation (ft)	Time	Comments
RW-25S (cont.)	08/04/2015	30.97	DRY	-	-	-	24.64	-	13:06	
	08/11/2015	30.97	DRY	-	-	-	-	-	11:25	
	08/18/2015	30.97	24.62	-	-	-	-	6.35	10:36	
	08/24/2015	30.97	24.56	-	-	-	-	6.41	10:33	
	09/02/2015	30.97	NR	24.51	-	0.01	24.69	NA	10:23	
	09/09/2015	30.97	NR	24.50	-	0.01	24.69	NA	11:00	
	09/17/2015	30.97	NR	24.54	-	-	24.65	NA	10:50	LNAPL not manually bailed
	09/23/2015	30.97	24.62	24.50	0.12	0.01	24.62	6.35	10:56	
	09/28/2015	30.97	NR	24.57	TRACE	TRACE	24.65	NA	9:55	
	10/05/2015	30.97	NR	24.54	-	TRACE	24.59	NA	11:27	
	11/10/2015	30.97	NR	26.28	-	-	26.38	NA	13:36	LNAPL not manually bailed
	12/01/2015	32.70	26.34	26.27	0.07	-	26.36	6.36	11:55	LNAPL not manually bailed
RW-28S	07/08/2015	NR	26.40	-	-	-	-	-	10:42	
	07/13/2015	31.35	25.20	-	-	-	26.66	6.15	9:11	
	07/20/2015	31.35	24.14	-	-	-	-	7.21	8:55	
	07/28/2015	31.35	23.92	-	-	-	26.73	7.43	10:04	
	08/04/2015	31.35	23.97	-	-	-	26.67	7.38	13:21	
	08/05/2015	31.35	24.98	-	-	-	26.66	6.37	8:18	
	08/11/2015	31.35	24.03	-	-	-	26.65	7.32	9:42	
	08/18/2015	31.35	24.13	-	-	-	-	7.22	10:00	
	08/24/2015	31.35	24.18	-	-	-	-	7.17	10:03	
	09/02/2015	31.35	24.31	-	-	-	26.68	7.04	9:10	
	09/09/2015	31.35	24.41	-	-	-	26.65	6.94	9:58	
	09/17/2015	31.35	24.55	-	-	-	26.69	6.80	9:51	
	09/23/2015	31.35	24.58	-	-	-	-	6.77	10:21	
	09/28/2015	31.35	24.65	-	-	-	26.60	6.70	9:40	
	10/05/2015	31.35	24.60	-	-	-	26.68	6.75	8:58	
	11/10/2015	31.35	26.71	-	-	-	-	4.64	12:48	
	12/01/2015	32.98	26.91	-	-	-	28.28	6.07	12:34	
RW-30S	06/26/2015	NR	Dry	-	-	-	28.40	-	9:28	
	07/01/2015	NR	24.02	-	-	-	-	-	12:03	
	07/08/2015	NR	25.39	-	-	-	-	-	10:51	
	07/13/2015	31.32	26.60	-	-	-	28.40	4.72	9:12	
	07/20/2015	31.32	26.07	-	-	-	-	5.25	9:01	
	07/28/2015	31.32	26.04	-	-	-	28.48	5.28	10:13	
	08/04/2015	31.32	26.07	-	-	-	28.40	5.25	13:25	
	08/05/2015	31.32	26.05	-	-	-	28.42	5.27	8:20	
	08/11/2015	31.32	26.42	-	-	-	28.44	4.90	9:44	
	08/18/2015	31.32	26.31	-	-	-	-	5.01	9:53	

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Adjusted Groundwater Elevation (ft)	Time	Comments
RW-30S (cont.)	08/24/2015	31.32	26.28	-	-	-	-	5.04	9:56	
	09/02/2015	31.32	26.37	26.36	0.01	TRACE	28.45	4.95	9:14	
	09/09/2015	31.32	26.38	-	-	-	28.43	4.94	10:08	
	09/17/2015	31.32	26.52	-	-	-	28.46	4.80	10:05	
	09/23/2015	31.32	26.47	-	-	-	-	4.85	10:15	
	09/28/2015	31.32	26.42	-	-	-	28.41	4.90	9:37	
	10/05/2015	31.32	26.20	-	-	-	28.41	5.12	9:05	
	11/10/2015	31.32	28.73	-	-	-	-	2.59	12:46	
	12/01/2015	33.63	28.99	-	-	-	30.54	4.64	12:36	
RW-116S	07/08/2015	NR	22.48	-	-	-	-	-	11:28	
	07/13/2015	31.80	22.03	-	-	-	26.20	9.77	9:24	
	07/20/2015	31.80	21.77	-	-	-	-	10.03	9:10	
	07/28/2015	31.44	21.46	-	-	-	25.90	9.98	10:31	
	08/04/2015	31.44	21.55	-	-	-	25.82	9.89	13:11	
	08/05/2015	31.44	21.57	-	-	-	25.82	9.87	9:05	
	08/11/2015	31.44	21.72	-	-	-	24.88	9.72	10:31	
	08/18/2015	31.44	21.79	-	-	-	-	9.65	10:13	
	08/24/2015	31.44	21.90	-	-	-	-	9.54	10:16	
	09/02/2015	31.44	22.06	-	-	-	25.86	9.38	10:05	
	09/09/2015	31.44	22.18	-	-	-	25.89	9.26	10:12	
	09/17/2015	31.44	22.31	-	-	-	25.89	9.13	10:14	
	09/23/2015	31.44	22.35	-	-	-	-	9.09	10:34	
	09/28/2015	31.44	22.42	-	-	-	25.84	9.02	9:20	
	10/05/2015	31.44	22.47	-	-	-	25.84	8.97	9:31	
	11/10/2015	31.44	25.05	-	-	-	-	6.39	13:03	
	12/01/2015	33.78	25.73	-	-	-	28.20	8.05	11:20	
RW-117S	07/08/2015	NR	22.53	-	-	-	-	-	11:08	
	07/13/2015	31.81	22.27	-	-	-	24.25	9.54	9:22	
	07/20/2015	31.81	21.97	-	-	-	-	9.84	9:07	
	07/28/2015	31.81	21.86	-	-	-	24.34	9.95	9:30	
	08/04/2015	31.81	21.94	-	-	-	24.23	9.87	13:15	
	08/05/2015	31.81	21.96	-	-	-	24.27	9.85	9:20	
	08/11/2015	31.81	22.06	-	-	-	24.30	9.75	10:28	
	08/18/2015	31.81	22.16	-	-	-	-	9.65	10:10	
	08/24/2015	31.81	22.25	-	-	-	-	9.56	10:13	
	09/02/2015	31.81	22.40	-	-	-	24.30	9.41	10:10	
	09/09/2015	31.81	22.51	TRACE	TRACE	TRACE	24.31	9.30	10:10	
	09/17/2015	31.81	22.61	-	-	-	24.31	9.20	10:12	
	09/23/2015	31.81	22.61	-	-	-	-	9.20	10:31	

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Adjusted Groundwater Elevation (ft)	Time	Comments
RW-117S (cont.)	09/28/2015	31.81	22.66	-	-	-	24.29	9.15	9:18	
	10/05/2015	31.81	22.76	-	-	-	24.30	9.05	9:34	
	11/10/2015	31.81	25.29	-	-	-	-	6.52	12:59	
	12/01/2015	33.73	25.72	-	-	-	26.13	8.01	11:16	
RW-118S	07/08/2015	NR	21.79	-	-	-	-	-	11:03	
	07/13/2015	31.09	21.64	-	-	-	24.90	9.45	9:20	
	07/20/2015	31.09	21.27	-	-	-	-	9.82	9:04	
	07/28/2015	31.09	21.22	-	-	-	25.00	9.87	9:39	
	08/04/2015	31.09	21.28	-	-	-	24.93	9.81	13:18	
	08/11/2015	31.09	21.44	-	-	-	24.96	9.65	10:33	
	08/18/2015	31.09	21.52	-	-	-	-	9.57	10:07	
	08/24/2015	31.09	21.62	-	-	-	-	9.47	10:10	
	09/02/2015	31.09	21.76	-	-	-	24.97	9.33	10:13	
	09/09/2015	31.09	21.56	-	-	-	24.95	9.53	10:07	
	09/17/2015	31.09	21.96	-	-	-	25.01	9.13	10:10	
	09/23/2015	31.09	21.97	-	-	-	-	9.12	10:28	
	09/28/2015	31.09	22.03	-	-	-	24.95	9.06	9:16	
	10/05/2015	31.09	22.68	-	-	-	25.00	8.41	12:20	
	11/10/2015	31.09	22.35	-	-	-	-	8.74	12:55	
	12/01/2015	31.24	22.84	-	-	-	25.08	8.40	13:09	
RW-119S	07/08/2015	NR	21.80	-	-	-	-	-	11:46	
	07/13/2015	30.38	21.83	-	-	-	26.15	8.55	9:32	
	07/20/2015	30.38	21.53	-	-	-	-	8.85	9:34	
	07/28/2015	30.38	21.51	-	-	-	26.25	8.87	9:48	
	08/04/2015	30.38	21.50	-	-	-	26.15	8.88	10:37	
	08/11/2015	30.38	21.53	-	-	-	26.15	8.85	9:53	
	08/18/2015	30.38	21.73	-	-	-	-	8.65	10:33	
	08/24/2015	30.38	21.82	-	-	-	-	8.56	10:40	
	09/02/2015	30.38	22.01	-	-	-	26.17	8.37	9:38	
	09/09/2015	30.38	22.09	-	-	-	26.20	8.29	10:17	
	09/17/2015	30.38	22.34	-	-	-	26.21	8.04	10:22	
	09/23/2015	30.38	22.35	-	-	-	-	8.03	10:49	
	09/28/2015	30.38	22.32	-	-	-	26.20	8.06	9:33	
	10/05/2015	30.38	22.45	-	-	-	26.20	7.93	12:04	
	11/10/2015	30.38	25.50	-	-	-	-	4.88	13:09	
	12/01/2015	33.33	25.65	-	-	-	29.02	7.68	13:03	
SP-1	02/24/2015	30.87	27.08	-	-	-	-	3.79	13:59	

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Adjusted Groundwater Elevation (ft)	Time	Comments
SP-2	10/01/2014	NR	27.23	-	-	-	35.45	-	-	
	10/10/2014	NR	27.10	-	-	-	-	-	-	
TW-02	12/18/2013	20.60	15.52	-	-	-	-	5.08	-	
	01/08/2014	20.60	15.08	-	-	-	-	5.52	-	
	03/07/2014	20.60	14.81	-	-	-	-	5.79	-	
	03/13/2014	20.60	14.22	-	-	-	-	6.38	-	
	03/20/2014	20.60	13.39	-	-	-	-	7.21	-	
	03/27/2014	20.60	14.31	-	-	-	-	6.29	-	
	04/03/2014	20.60	13.25	-	-	-	-	7.35	-	
	04/08/2014	20.60	13.74	-	-	-	-	6.86	-	
	04/17/2014	20.60	13.70	-	-	-	-	6.90	-	
	04/22/2014	20.60	13.62	-	-	-	-	6.98	-	
	04/29/2014	20.60	13.96	-	-	-	-	6.64	-	
	05/05/2014	20.60	13.55	-	-	-	-	7.05	-	
	05/12/2014	20.60	14.25	-	-	-	-	6.35	-	
	05/19/2014	20.60	13.63	-	-	-	-	6.97	-	
	05/27/2014	20.60	14.31	-	-	-	-	6.29	-	
	06/02/2014	20.60	14.34	-	-	-	-	6.26	-	
	06/09/2014	20.60	14.71	-	-	-	-	5.89	-	
	06/16/2014	20.60	14.30	-	-	-	-	6.30	-	
	06/23/2014	20.60	14.48	-	-	-	-	6.12	-	
	07/02/2014	20.60	14.77	-	-	-	-	5.83	-	
	07/07/2014	20.60	15.08	-	-	-	21.28	5.52	-	
	07/14/2014	20.60	15.02	-	-	-	-	5.58	-	
	07/31/2014	20.60	15.40	-	-	-	21.22	5.20	-	
	08/08/2014	20.60	15.40	-	-	-	-	5.20	-	
	08/11/2014	20.60	15.28	-	-	-	-	5.32	-	
	08/15/2014	20.60	14.84	-	-	-	21.15	5.76	-	
	08/18/2014	20.60	15.06	-	-	-	-	5.54	-	
	08/25/2014	NR	14.71	-	-	-	-	-	-	
	09/02/2014	NR	15.18	-	-	-	-	-	-	
	09/15/2014	NR	14.90	-	-	-	-	-	-	
	09/22/2014	NR	15.00	-	-	-	-	-	-	
	10/01/2014	NR	15.22	-	-	-	21.12	-	-	
	10/13/2014	NR	14.92	-	-	-	-	-	-	
	10/20/2014	NR	15.10	-	-	-	20.99	-	-	
	02/24/2015	16.11	14.34	-	-	-	-	1.77	15:01	
	05/11/2015	16.11	14.38	-	-	-	20.80	1.73	15:18	
	08/04/2015	16.11	15.08	-	-	-	20.87	1.03	12:15	
	12/01/2015	16.11	15.08	-	-	-	20.88	1.03	13:28	

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Adjusted Groundwater Elevation (ft)	Time	Comments
TW-03	12/18/2013	14.87	9.08	-	-	-	-	5.79	-	
	01/08/2014	14.87	9.42	-	-	-	-	5.45	-	
	03/07/2014	14.87	7.66	-	-	-	-	7.21	-	
	03/13/2014	14.87	8.09	-	-	-	-	6.78	-	
	03/20/2014	14.87	7.50	-	-	-	-	7.37	-	
	03/27/2014	14.87	8.47	-	-	-	-	6.40	-	
	04/03/2014	14.87	6.99	-	-	-	-	7.88	-	
	04/08/2014	14.87	7.64	-	-	-	-	7.23	-	
	04/17/2014	14.87	7.33	-	-	-	-	7.54	-	
	04/22/2014	14.87	7.64	-	-	-	-	7.23	-	
	04/29/2014	14.87	7.36	-	-	-	-	7.51	-	
	05/05/2014	14.87	7.58	-	-	-	-	7.29	-	
	05/12/2014	14.87	7.93	-	-	-	-	6.94	-	
	05/19/2014	14.87	8.42	-	-	-	-	6.45	-	
	05/27/2014	14.87	7.69	-	-	-	-	7.18	-	
	06/02/2014	14.87	8.00	-	-	-	-	6.87	-	
	06/09/2014	14.87	7.77	-	-	-	-	7.10	-	
	06/16/2014	14.87	7.60	-	-	-	-	7.27	-	
	06/23/2014	14.87	7.68	-	-	-	-	7.19	-	
	07/02/2014	14.87	7.97	-	-	-	-	6.90	-	
	07/07/2014	14.87	8.31	-	-	-	13.45	6.56	-	
	07/14/2014	14.87	7.55	-	-	-	-	7.32	-	
	07/25/2014	14.87	8.45	-	-	-	13.30	6.42	-	
	07/31/2014	14.87	8.14	-	-	-	13.35	6.73	-	
	08/08/2014	14.87	8.39	-	-	-	-	6.48	-	
	08/11/2014	14.87	8.12	-	-	-	-	6.75	-	
	08/15/2014	14.87	8.10	-	-	-	13.40	6.77	-	
	08/18/2014	14.87	8.25	-	-	-	-	6.62	-	
	08/25/2014	10.40	7.85	-	-	-	-	2.55	-	
	09/02/2014	10.40	8.52	-	-	-	-	1.88	-	
	09/15/2014	10.40	8.33	-	-	-	-	2.07	-	
	09/22/2014	10.40	8.26	-	-	-	-	2.14	-	
	10/01/2014	10.40	8.35	-	-	-	13.15	2.05	-	
	10/13/2014	10.40	8.18	-	-	-	-	2.22	-	
	10/20/2014	10.40	8.50	-	-	-	13.14	1.90	-	
	02/24/2015	10.40	8.57	-	-	-	-	1.83	14:49	
	05/11/2015	10.40	7.74	-	-	-	13.10	2.66	15:23	
	08/04/2015	10.40	7.82	-	-	-	13.14	2.58	12:13	
	12/01/2015	10.40	7.64	-	-	-	13.12	2.76	13:26	
TW-04	12/18/2013	13.26	6.25	-	-	-	-	7.01	-	

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Adjusted Groundwater Elevation (ft)	Time	Comments
TW-04 (cont.)	01/08/2014	13.26	6.71	-	-	-	-	6.55	-	
	03/07/2014	13.26	6.06	-	-	-	-	7.20	-	
	03/13/2014	13.26	6.26	-	-	-	-	7.00	-	
	03/20/2014	13.26	6.17	-	-	-	-	7.09	-	
	03/27/2014	13.26	6.55	-	-	-	-	6.71	-	
	04/03/2014	13.26	4.64	-	-	-	-	8.62	-	
	04/08/2014	13.26	5.38	-	-	-	-	7.88	-	
	04/17/2014	13.26	5.60	-	-	-	-	7.66	-	
	04/22/2014	13.26	5.56	-	-	-	-	7.70	-	
	04/29/2014	13.26	5.91	-	-	-	-	7.35	-	
	05/05/2014	13.26	5.06	-	-	-	-	8.20	-	
	05/12/2014	13.26	5.82	-	-	-	-	7.44	-	
	05/19/2014	13.26	4.61	-	-	-	-	8.65	-	
	05/27/2014	13.26	5.66	-	-	-	-	7.60	-	
	06/02/2014	13.26	5.83	-	-	-	-	7.43	-	
	06/09/2014	13.26	5.87	-	-	-	-	7.39	-	
	06/16/2014	13.26	5.21	-	-	-	-	8.05	-	
	06/23/2014	13.26	5.68	-	-	-	-	7.58	-	
	07/02/2014	13.26	5.96	-	-	-	-	7.30	-	
	07/07/2014	13.26	6.18	-	-	-	13.77	7.08	-	
	07/14/2014	13.26	5.80	-	-	-	-	7.46	-	
	07/25/2014	13.26	6.20	-	-	-	13.70	7.06	-	
	07/31/2014	13.26	6.08	-	-	-	13.76	7.18	-	
	08/08/2014	13.26	6.21	-	-	-	-	7.05	-	
	08/11/2014	13.26	6.19	-	-	-	-	7.07	-	
	08/15/2014	13.26	5.99	-	-	-	13.75	7.27	-	
	08/18/2014	13.26	5.92	-	-	-	-	7.34	-	
	08/25/2014	9.49	5.87	-	-	-	-	3.62	-	
	09/02/2014	9.49	6.25	-	-	-	-	3.24	-	
	09/15/2014	9.49	6.17	-	-	-	-	3.32	-	
	09/22/2014	9.49	6.20	-	-	-	-	3.29	-	
	10/01/2014	9.49	6.23	-	-	-	13.55	3.26	-	
	10/10/2014	9.49	6.18	-	-	-	-	3.31	-	
	10/13/2014	9.49	6.19	-	-	-	-	3.30	-	
	10/20/2014	9.49	6.28	-	-	-	13.40	3.21	-	
	10/27/2014	9.49	6.04	-	-	-	-	3.45	-	
	11/07/2014	9.49	6.27	-	-	-	-	3.22	-	
	11/12/2014	9.49	6.19	-	-	-	-	3.30	-	
	11/21/2014	9.49	6.78	-	-	-	-	2.71	-	
	11/26/2014	9.49	6.33	-	-	-	-	3.16	-	
	12/05/2014	9.49	5.75	-	-	-	-	3.74	-	

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom Measured Depth (ft)	Adjusted Groundwater Elevation (ft)	Time	Comments
TW-04 (cont.)	12/11/2014	9.49	5.60	-	-	-	-	3.89	-	
	12/16/2014	9.49	5.83	-	-	-	-	3.66	-	
	12/23/2014	9.49	5.82	-	-	-	-	3.67	-	
	12/30/2014	9.49	5.73	-	-	-	-	3.76	-	
	01/09/2015	9.49	6.06	-	-	-	-	3.43	-	
	01/16/2015	9.49	5.64	-	-	-	-	3.85	-	
	01/19/2015	9.49	5.37	-	-	-	-	4.12	-	
	01/26/2015	9.49	4.78	-	-	-	-	4.71	-	
	02/03/2015	9.49	6.06	-	-	-	13.21	3.43	-	
	02/09/2015	9.49	6.08	-	-	-	-	3.41	-	
	02/18/2015	9.49	6.19	-	-	-	-	3.30	-	
	02/24/2015	9.49	6.21	-	-	-	-	3.28	15:00	
	03/04/2015	9.49	6.11	-	-	-	-	3.38	11:45	
	03/11/2015	9.49	3.93	-	-	-	-	5.56	12:00	
	03/18/2015	9.49	5.40	-	-	-	-	4.09	10:23	
	03/26/2015	9.49	5.75	-	-	-	13.20	3.74	12:21	
	04/02/2015	9.49	5.85	-	-	-	13.25	3.64	10:28	
	04/08/2015	9.49	6.20	-	-	-	13.25	3.29	10:00	
	04/13/2015	9.49	6.28	-	-	-	-	3.21	9:55	
	04/23/2015	9.49	5.44	-	-	-	13.25	4.05	10:43	
	04/29/2015	9.49	5.85	-	-	-	13.25	3.64	13:15	
	05/04/2015	9.49	5.75	-	-	-		3.74	10:50	
	05/11/2015	9.49	5.83	-	-	-	13.20	3.66	15:33	
	05/21/2015	9.49	5.89	-	-	-	13.27	3.60	13:05	
	05/28/2015	9.49	6.28	-	-	-	13.25	3.21	10:55	
	06/02/2015	9.49	5.01	-	-	-	-	4.48	12:15	
	06/09/2015	9.49	5.17	-	-	-	-	4.32	9:45	
	06/16/2015	9.49	5.67	-	-	-	-	3.82	10:35	
	06/26/2015	9.49	4.98	-	-	-	13.20	4.51	8:45	
	07/01/2015	9.49	3.57	-	-	-	-	5.92	11:35	
	07/08/2015	9.49	4.57	-	-	-	-	4.92	10:20	
	07/13/2015	9.49	4.28	-	-	-	-	5.21	8:53	
	07/20/2015	9.49	5.32	-	-	-	-	4.17	8:40	
	08/04/2015	9.49	5.62	-	-	-	13.70	3.87	12:02	
	08/18/2015	9.49	5.88	-	-	-	-	3.61	9:20	
	08/24/2015	9.49	5.76	-	-	-	-	3.73	9:40	
	09/02/2015	9.49	5.92	-	-	-	13.20	3.57	11:36	
	09/09/2015	9.49	6.06	-	-	-	13.18	3.43	14:09	
	09/17/2015	9.49	6.11	-	-	-	13.21	3.38	11:48	
	09/23/2015	9.49	6.08	-	-	-	-	3.41	10:00	
	09/28/2015	9.49	5.61	-	-	-	13.08	3.88	10:36	

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Adjusted Groundwater Elevation (ft)	Time	Comments
TW-04 (cont.)	10/05/2015	9.49	5.22	-	-	-	13.13	4.27	10:20	
	11/10/2015	9.49	5.92	-	-	-	-	3.57	12:29	
	12/01/2015	9.49	5.78	-	-	-	13.10	3.71	13:20	
TW-05	12/18/2013	13.73	6.45	-	-	-	-	7.28	-	
	01/08/2014	13.73	6.98	-	-	-	-	6.75	-	
	03/07/2014	13.73	6.34	-	-	-	-	7.39	-	
	03/13/2014	13.73	6.49	-	-	-	-	7.24	-	
	03/20/2014	13.73	6.04	-	-	-	-	7.69	-	
	03/27/2014	13.73	6.68	-	-	-	-	7.05	-	
	04/03/2014	13.73	4.29	-	-	-	-	9.44	-	
	04/08/2014	13.73	5.36	-	-	-	-	8.37	-	
	04/17/2014	13.73	5.33	-	-	-	-	8.40	-	
	04/22/2014	13.73	5.65	-	-	-	-	8.08	-	
	04/29/2014	13.73	6.06	-	-	-	-	7.67	-	
	05/05/2014	13.73	4.91	-	-	-	-	8.82	-	
	05/12/2014	13.73	6.01	-	-	-	-	7.72	-	
	05/19/2014	13.73	4.65	-	-	-	-	9.08	-	
	05/27/2014	13.73	5.91	-	-	-	-	7.82	-	
	06/02/2014	13.73	6.07	-	-	-	-	7.66	-	
	06/09/2014	13.73	6.11	-	-	-	-	7.62	-	
	06/16/2014	13.73	5.28	-	-	-	-	8.45	-	
	06/23/2014	13.73	5.95	-	-	-	-	7.78	-	
	07/02/2014	13.73	6.28	-	-	-	-	7.45	-	
	07/07/2014	13.73	6.49	-	-	-	12.06	7.24	-	
	07/14/2014	13.73	6.06	-	-	-	-	7.67	-	
	07/25/2014	13.73	5.43	-	-	-	12.08	8.30	-	
	07/31/2014	13.73	6.50	-	-	-	12.10	7.23	-	
	08/08/2014	13.73	6.56	-	-	-	-	7.17	-	
	08/11/2014	13.73	6.51	-	-	-	-	7.22	-	
	08/15/2014	13.73	5.91	-	-	-	11.95	7.82	-	
	08/18/2014	13.73	6.14	-	-	-	-	7.59	-	
	08/25/2014	9.64	6.13	-	-	-	-	3.51	-	
	09/02/2014	9.64	6.59	-	-	-	-	3.05	-	
	09/15/2014	9.64	6.57	-	-	-	-	3.07	-	
	09/22/2014	9.64	6.58	-	-	-	-	3.06	-	
	10/01/2014	9.64	6.63	-	-	-	11.74	3.01	-	
	10/10/2014	9.64	6.52	-	-	-	-	3.12	-	
	10/13/2014	9.64	6.58	-	-	-	-	3.06	-	
	10/20/2014	9.64	6.60	-	-	-	12.63	3.04	-	
	10/27/2014	9.64	6.23	-	-	-	-	3.41	-	

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Adjusted Groundwater Elevation (ft)	Time	Comments
TW-05 (cont.)	11/07/2014	9.64	6.58	-	-	-	-	3.06	-	
	11/12/2014	9.64	6.56	-	-	-	-	3.08	-	
	11/21/2014	9.64	7.07	-	-	-	-	2.57	-	
	11/26/2014	9.64	6.67	-	-	-	-	2.97	-	
	12/05/2014	9.64	5.57	-	-	-	-	4.07	-	
	12/11/2014	9.64	5.38	-	-	-	-	4.26	-	
	12/16/2014	9.64	5.86	-	-	-	-	3.78	-	
	12/23/2014	9.64	6.08	-	-	-	-	3.56	-	
	12/30/2014	9.64	5.50	-	-	-	-	4.14	-	
	01/09/2015	9.64	6.27	-	-	-	-	3.37	-	
	01/16/2015	9.64	5.48	-	-	-	-	4.16	-	
	01/19/2015	9.64	5.08	-	-	-	-	4.56	-	
	01/26/2015	9.64	4.30	-	-	-	-	5.34	-	
	02/03/2015	9.64	6.20	-	-	-	11.88	3.44	-	
	02/09/2015	9.64	6.38	-	-	-	-	3.26	-	
	02/18/2015	9.64	6.64	-	-	-	-	3.00	-	
	02/24/2015	9.64	6.61	-	-	-	-	3.03	14:57	
	03/04/2015	9.64	6.27	-	-	-	-	3.37	12:15	
	03/11/2015	9.64	3.15	-	-	-	-	6.49	12:03	
	03/18/2015	9.64	4.61	-	-	-	-	5.03	10:26	
	03/26/2015	9.64	5.94	-	-	-	12.10	3.70	12:25	
	04/02/2015	9.64	6.00	-	-	-	12.10	3.64	10:30	
	04/08/2015	9.64	6.41	-	-	-	12.14	3.23	10:05	
	04/13/2015	9.64	6.53	-	-	-	-	3.11	9:58	
	04/23/2015	9.64	5.48	-	-	-	12.20	4.16	10:45	
	04/29/2015	9.64	5.99	-	-	-	12.20	3.65	13:17	
	05/04/2015	9.64	5.94	-	-	-	-	3.70	10:53	
	05/11/2015	9.64	6.12	-	-	-	12.30	3.52	15:39	
	05/21/2015	9.64	6.15	-	-	-	12.48	3.49	13:07	
	05/28/2015	9.64	6.56	-	-	-	12.50	3.08	10:57	
	06/02/2015	9.64	4.05	-	-	-	-	5.59	12:18	
	06/09/2015	9.64	4.63	-	-	-	-	5.01	9:48	
	06/16/2015	9.64	5.99	-	-	-	-	3.65	10:38	
	06/26/2015	9.64	4.52	-	-	-	12.80	5.12	8:47	
	07/01/2015	9.64	1.82	-	-	-	-	7.82	11:38	
	07/08/2015	9.64	4.22	-	-	-	-	5.42	10:23	
	07/13/2015	9.64	4.24	-	-	-	-	5.40	8:55	
	07/20/2015	9.64	5.64	-	-	-	-	4.00	8:43	
	07/28/2015	9.64	6.01	-	-	-	12.42	3.63	13:15	
	08/04/2015	9.64	6.07	-	-	-	12.32	3.57	12:05	
	08/11/2015	9.64	5.56	-	-	-	12.54	4.08	12:30	

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Adjusted Groundwater Elevation (ft)	Time	Comments
TW-05 (cont.)	08/18/2015	9.64	6.28	-	-	-	-	3.36	9:23	
	08/24/2015	9.64	6.23	-	-	-	-	3.41	9:43	
	09/02/2015	9.64	6.32	-	-	-	12.53	3.32	11:33	
	09/09/2015	9.64	6.73	-	-	-	12.55	2.91	14:06	
	09/17/2015	9.64	6.54	-	-	-	12.53	3.10	11:45	
	09/23/2015	9.64	6.41	-	-	-	-	3.23	10:03	
	09/28/2015	9.64	6.01	-	-	-	12.51	3.63	10:38	
	10/05/2015	9.64	5.43	-	-	-	12.54	4.21	10:17	
	11/10/2015	9.64	6.31	-	-	-	-	3.33	12:31	
	12/01/2015	9.64	5.99	-	-	-	12.38	3.65	13:10	
TW-06	12/18/2013	13.97	6.21	-	-	-	-	7.76	-	
	01/08/2014	13.97	6.98	-	-	-	-	6.99	-	
	03/07/2014	13.97	6.40	-	-	-	-	7.57	-	
	03/13/2014	13.97	6.62	-	-	-	-	7.35	-	
	03/20/2014	13.97	6.26	-	-	-	-	7.71	-	
	03/27/2014	13.97	6.88	-	-	-	-	7.09	-	
	04/03/2014	13.97	4.81	-	-	-	-	9.16	-	
	04/08/2014	13.97	5.82	-	-	-	-	8.15	-	
	04/17/2014	13.97	5.41	-	-	-	-	8.56	-	
	04/22/2014	13.97	5.90	-	-	-	-	8.07	-	
	04/29/2014	13.97	6.30	-	-	-	-	7.67	-	
	05/05/2014	13.97	4.98	-	-	-	-	8.99	-	
	05/12/2014	13.97	6.18	-	-	-	-	7.79	-	
	05/19/2014	13.97	4.63	-	-	-	-	9.34	-	
	05/27/2014	13.97	6.79	-	-	-	-	7.18	-	
	06/02/2014	13.97	6.24	-	-	-	-	7.73	-	
	06/09/2014	13.97	6.31	-	-	-	-	7.66	-	
	06/16/2014	13.97	5.33	-	-	-	-	8.64	-	
	06/23/2014	13.97	6.12	-	-	-	-	7.85	-	
	07/02/2014	13.97	6.52	-	-	-	-	7.45	-	
	07/07/2014	13.97	6.70	-	-	-	12.60	7.27	-	
	07/14/2014	13.97	6.24	-	-	-	-	7.73	-	
	07/25/2014	13.97	6.65	-	-	-	12.60	7.32	-	
	08/08/2014	13.97	6.81	-	-	-	-	7.16	-	
	08/11/2014	13.97	6.71	-	-	-	-	7.26	-	
	08/15/2014	13.97	6.01	-	-	-	12.70	7.96	-	
	08/18/2014	13.97	6.33	-	-	-	-	7.64	-	
	08/25/2014	9.86	6.37	-	-	-	-	3.49	-	
	09/02/2014	9.86	6.80	-	-	-	-	3.06	-	
	09/15/2014	9.86	6.79	-	-	-	-	3.07	-	

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Adjusted Groundwater Elevation (ft)	Time	Comments
TW-06 (cont.)	09/22/2014	9.86	6.77	-	-	-	-	3.09	-	
	10/01/2014	9.86	6.88	-	-	-	12.60	2.98	-	
	10/10/2014	9.86	6.77	-	-	-	-	3.09	-	
	10/13/2014	9.86	6.85	-	-	-	-	3.01	-	
	10/20/2014	9.86	6.76	-	-	-	12.63	3.10	-	
	10/27/2014	9.86	6.39	-	-	-	-	3.47	-	
	11/07/2014	9.86	6.83	-	-	-	-	3.03	-	
	11/12/2014	9.86	6.85	-	-	-	-	3.01	-	
	11/21/2014	9.86	7.28	-	-	-	-	2.58	-	
	11/26/2014	9.86	7.02	-	-	-	-	2.84	-	
	12/05/2014	9.86	5.85	-	-	-	-	4.01	-	
	12/11/2014	9.86	5.75	-	-	-	-	4.11	-	
	12/16/2014	9.86	6.18	-	-	-	-	3.68	-	
	12/23/2014	9.86	6.36	-	-	-	-	3.50	-	
	12/30/2014	9.86	5.85	-	-	-	-	4.01	-	
	01/09/2015	9.86	6.52	-	-	-	-	3.34	-	
	01/16/2015	9.86	5.77	-	-	-	-	4.09	-	
	01/19/2015	9.86	5.46	-	-	-	-	4.40	-	
	01/26/2015	9.86	4.69	-	-	-	-	5.17	-	
	02/03/2015	9.86	6.39	-	-	-	12.58	3.47	-	
	02/09/2015	9.86	6.62	-	-	-	-	3.24	-	
	02/18/2015	9.86	6.89	-	-	-	-	2.97	-	
	02/24/2015	9.86	6.90	-	-	-	-	2.96	14:54	
	03/04/2015	9.86	6.43	-	-	-	-	3.43	13:00	
	03/11/2015	9.86	4.47	-	-	-	-	5.39	12:06	
	03/18/2015	9.86	5.33	-	-	-	-	4.53	10:29	
	03/26/2015	9.86	6.13	-	-	-	12.60	3.73	12:27	
	04/02/2015	9.86	6.20	-	-	-	12.65	3.66	10:32	
	04/08/2015	9.86	6.66	-	-	-	12.62	3.20	10:15	
	04/13/2015	9.86	6.76	-	-	-	-	3.10	10:01	
	04/23/2015	9.86	5.62	-	-	-	12.60	4.24	10:47	
	04/29/2015	9.86	6.22	-	-	-	12.65	3.64	13:19	
	05/04/2015	9.86	6.14	-	-	-	-	3.72	10:56	
	05/11/2015	9.86	6.38	-	-	-	12.70	3.48	15:40	
	05/21/2015	9.86	6.24	-	-	-	12.65	3.62	13:09	
	05/28/2015	9.86	6.79	-	-	-	12.60	3.07	10:59	
	06/02/2015	9.86	4.41	-	-	-	-	5.45	12:21	
	06/09/2015	9.86	5.28	-	-	-	-	4.58	9:51	
	06/16/2015	9.86	6.24	-	-	-	-	3.62	10:41	
	06/26/2015	9.86	5.08	-	-	-	12.70	4.78	8:49	
	07/01/2015	9.86	3.55	-	-	-	-	6.31	11:41	

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Adjusted Groundwater Elevation (ft)	Time	Comments
TW-06 (cont.)	07/08/2015	9.86	4.88	-	-	-	-	4.98	10:26	
	07/13/2015	9.86	4.78	-	-	-	-	5.08	8:55	
	07/20/2015	9.86	5.93	-	-	-	-	3.93	8:46	
	07/28/2015	9.86	6.31	-	-	-	12.61	3.55	12:55	
	08/04/2015	9.86	6.34	-	-	-	12.64	3.52	12:07	
	08/11/2015	9.86	6.15	-	-	-	12.64	3.71	12:35	
	08/18/2015	9.86	6.58	-	-	-	-	3.28	9:26	
	08/24/2015	9.86	6.51	-	-	-	-	3.35	9:46	
	09/02/2015	9.86	6.65	-	-	-	12.06	3.21	11:30	
	09/09/2015	9.86	6.02	-	-	-	12.66	3.84	14:03	
	09/17/2015	9.86	6.85	-	-	-	12.69	3.01	11:40	
	09/23/2015	9.86	6.69	-	-	-	-	3.17	10:06	
	09/28/2015	9.86	6.27	-	-	-	12.61	3.59	10:41	
	10/05/2015	9.86	5.70	-	-	-	12.63	4.16	10:13	
	11/10/2015	9.86	6.65	-	-	-	-	3.21	12:32	
	12/01/2015	9.86	6.55	-	-	-	12.62	3.31	13:22	
TW-07	12/18/2013	14.00	7.56	-	-	-	-	6.44	-	
	01/08/2014	14.00	7.91	-	-	-	-	6.09	-	
	03/07/2014	14.00	6.91	-	-	-	-	7.09	-	
	03/13/2014	14.00	7.40	-	-	-	-	6.60	-	
	03/20/2014	14.00	6.78	-	-	-	-	7.22	-	
	03/27/2014	14.00	7.56	-	-	-	-	6.44	-	
	04/03/2014	14.00	5.67	-	-	-	-	8.33	-	
	04/08/2014	14.00	6.77	-	-	-	-	7.23	-	
	04/17/2014	14.00	5.51	-	-	-	-	8.49	-	
	04/22/2014	14.00	6.75	-	-	-	-	7.25	-	
	04/29/2014	14.00	6.60	-	-	-	-	7.40	-	
	05/05/2014	14.00	5.41	-	-	-	-	8.59	-	
	05/12/2014	14.00	6.89	-	-	-	-	7.11	-	
	05/19/2014	14.00	6.16	-	-	-	-	7.84	-	
	05/27/2014	14.00	6.70	-	-	-	-	7.30	-	
	06/02/2014	14.00	6.94	-	-	-	-	7.06	-	
	06/09/2014	14.00	7.81	-	-	-	-	6.19	-	
	06/16/2014	14.00	6.47	-	-	-	-	7.53	-	
	06/23/2014	14.00	6.69	-	-	-	-	7.31	-	
	07/02/2014	14.00	7.00	-	-	-	-	7.00	-	
	07/07/2014	14.00	7.27	-	-	-	13.42	6.73	-	
	07/14/2014	14.00	6.70	-	-	-	-	7.30	-	
	07/25/2014	14.00	7.33	-	-	-	13.30	6.67	-	
	07/31/2014	14.00	7.22	-	-	-	13.30	6.78	-	

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Adjusted Groundwater Elevation (ft)	Time	Comments
TW-07 (cont.)	08/08/2014	14.00	7.39	-	-	-	-	6.61	-	
	08/11/2014	14.00	7.17	-	-	-	13.20	6.83	-	
	08/15/2014	14.00	7.05	-	-	-	-	6.95	-	
	08/18/2014	14.00	7.14	-	-	-	-	6.86	-	
	08/25/2014	9.88	6.87	-	-	-	-	3.01	-	
	09/02/2014	9.88	7.43	-	-	-	-	2.45	-	
	09/15/2014	9.88	7.33	-	-	-	-	2.55	-	
	09/22/2014	9.88	7.28	-	-	-	-	2.60	-	
	10/01/2014	9.88	7.38	-	-	-	12.98	2.50	-	
	10/13/2014	9.88	7.30	-	-	-	-	2.58	-	
	10/20/2014	9.88	7.49	-	-	-	12.97	2.39	-	
	02/24/2015	9.88	7.45	-	-	-	-	2.43	14:52	
	05/11/2015	9.88	6.92	-	-	-	12.70	2.96	15:27	
	08/04/2015	9.88	6.88	-	-	-	12.74	3.00	12:10	
	12/01/2015	9.88	5.97				12.99	3.91	13:24	
TW-12S	12/18/2013	38.01	DRY	-	-	-	-	-	-	
	01/08/2014	38.01	DRY	-	-	-	-	-	-	
	03/07/2014	38.01	DRY	-	-	-	-	-	-	
	03/13/2014	38.01	DRY	-	-	-	-	-	-	
	03/20/2014	38.01	DRY	-	-	-	-	-	-	
	03/27/2014	38.01	DRY	-	-	-	-	-	-	
	04/03/2014	38.01	DRY	-	-	-	-	-	-	
	04/08/2014	38.01	DRY	-	-	-	-	-	-	
	04/17/2014	38.01	DRY	-	-	-	-	-	-	
	04/22/2014	38.01	DRY	-	-	-	-	-	-	
	04/29/2014	38.01	DRY	-	-	-	-	-	-	
	05/05/2014	38.01	DRY	-	-	-	-	-	-	
	05/12/2014	38.01	DRY	-	-	-	-	-	-	
	05/19/2014	38.01	DRY	-	-	-	-	-	-	
	06/02/2014	38.01	DRY	-	-	-	-	-	-	
	06/09/2014	38.01	DRY	-	-	-	-	-	-	
	06/16/2014	38.01	26.37	-	-	-	-	11.64	-	
	06/23/2014	38.01	26.37	-	-	-	-	11.64	-	
	07/02/2014	38.01	26.40	-	-	-	-	11.61	-	
	07/07/2014	38.01	26.40	-	-	-	26.60	11.61	-	
	07/14/2014	38.01	26.48	-	-	-	-	11.53	-	
	07/24/2014	38.01	26.48	-	-	-	-	11.53	-	
	07/31/2014	38.01	26.48	-	-	-	26.56	11.53	-	
	08/08/2014	38.01	26.49	-	-	-	26.60	11.52	-	
	08/11/2014	38.01	26.47	-	-	-	-	11.54	-	
	08/15/2014	38.01	26.47	-	-	-	26.58	11.54	-	

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Adjusted Groundwater Elevation (ft)	Time	Comments
TW-12S (cont.)	08/18/2014	38.01	26.47	-	-	-	-	11.54	-	
	08/25/2014	NR	26.47	-	-	-	-	-	-	
	09/02/2014	NR	24.84	-	-	-	24.97	-	-	
	09/15/2014	NR	24.82	-	-	-	-	-	-	
	09/22/2014	NR	24.83	-	-	-	-	-	-	
	10/01/2014	NR	24.81	-	-	-	24.91	-	-	
	10/10/2014	NR	24.82	-	-	-	-	-	-	
	10/20/2014	NR	24.82	-	-	-	24.92	-	-	
	02/24/2015	31.33	24.81	-	-	-	-	6.52	15:47	
	05/11/2015	31.33	24.82	-	-	-	24.90	6.51	10:40	
	08/04/2015	31.33	24.78	-	-	-	25.00	6.55	10:25	
	12/01/2015	31.33	24.82	-	-	-	24.92	6.51	11:32	
TW-14	01/17/2014	15.55	2.48	-	-	-	-	13.07	-	
	03/07/2014	15.55	2.29	-	-	-	-	13.26	-	
	03/13/2014	15.55	2.55	-	-	-	-	13.00	-	
	03/20/2014	15.55	2.25	-	-	-	-	13.30	-	
	03/27/2014	15.55	2.42	-	-	-	-	13.13	-	
	04/03/2014	15.55	2.31	-	-	-	-	13.24	-	
	04/08/2014	15.55	2.27	-	-	-	-	13.28	-	
	04/17/2014	15.55	2.26	-	-	-	-	13.29	-	
	04/22/2014	15.55	2.48	-	-	-	-	13.07	-	
	04/29/2014	15.55	2.66	-	-	-	-	12.89	-	
	05/05/2014	15.55	2.56	-	-	-	-	12.99	-	
	05/12/2014	15.55	2.58	-	-	-	-	12.97	-	
	05/19/2014	15.55	2.38	-	-	-	-	13.17	-	
	06/02/2014	15.55	2.52	-	-	-	-	13.03	-	
	06/09/2014	15.55	2.50	-	-	-	-	13.05	-	
	06/16/2014	15.55	2.31	-	-	-	-	13.24	-	
	06/23/2014	15.55	2.44	-	-	-	-	13.11	-	
	07/02/2014	15.55	4.63	-	-	-	-	10.92	-	
	07/07/2014	15.55	4.65	-	-	-	7.27	10.90	-	
	07/14/2014	15.55	4.40	-	-	-	-	11.15	-	
	07/24/2014	15.55	4.46	-	-	-	-	11.09	-	
	07/31/2014	15.55	4.63	-	-	-	7.39	10.92	-	
	08/08/2014	15.55	4.43	-	-	-	7.39	11.12	-	
	08/11/2014	15.55	4.57	-	-	-	-	10.98	-	
	08/15/2014	15.55	4.36	-	-	-	7.39	11.19	-	
	08/18/2014	15.55	4.49	-	-	-	-	11.06	-	
	08/25/2014	11.61	3.01	-	-	-	-	8.60	-	
	09/02/2014	11.61	3.03	-	-	-	-	8.58	-	

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Adjusted Groundwater Elevation (ft)	Time	Comments
TW-14	09/15/2014	11.61	3.19	-	-	-	-	8.42	-	
(cont.)	09/22/2014	11.61	3.38	-	-	-	-	8.23	-	
	10/01/2014	11.61	3.50	-	-	-	5.90	8.11	-	
	10/10/2014	11.61	3.67	-	-	-	-	7.94	-	
	10/20/2014	11.61	3.02	-	-	-	5.90	8.59	-	
	02/24/2015	11.61	2.67	-	-	-	-	8.94	15:29	
	02/26/2015	11.61	2.68	-	-	-	5.90	8.93	12:00	
	05/11/2015	11.61	3.28	-	-	-	6.90	8.33	10:30	
	08/04/2015	11.61	3.37	-	-	-	5.98	8.24	10:31	
	08/11/2015	11.61	3.65	-	-	-	6.00	7.96	12:00	
	08/18/2015	11.61	3.83	-	-	-	-	7.78	9:15	
	12/01/2015	11.61	2.76	-	-	-	-	8.85	9:15	

Notes:
The depth to water measurement from MW-103 for the 12/01/2015 gauging event appears to be anomalous. This may be due to drawdown from sampling an adjacent well (TW14).
Specific gravity was tested from MW-05 and MW-25, and the average specific gravity was used.

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

HISTORICAL GROUNDWATER FIELD PARAMETERS DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Sample Date	Head Space Photo Ionization Detector (ppm)	Head Space Oxygen (%)	Head Space Carbon Dioxide (%)	Head Space Methane (%)	Dissolved Oxygen (mg/L)	Well pH	Well Temperature (deg C)	ORP (mV)	Specific Conductance (µS/cm)	Turbidity (NTU)
MW-01S	10/10/2014	10.2	6.3	-	-	0.53	6.68	17.69	-95.0	880	-
	10/20/2014	1.0	6.3	10.1	10.3	-	-	-	-	-	-
	10/22/2014	-	-	-	-	0.80	6.63	17.81	-91.6	369	-
	2/24/2015	8.4	3.0	12.2	26.6	0.10	6.53	16.31	-172.6	724	-
	5/11/2015	64.8	1.6	10.8	27.8	-	-	-	-	-	-
	8/4/2015	11.4	8.9	7.2	9.2	-	-	-	-	-	-
MW-05 / RW-05	10/13/2014	15.9	13.0	-	-	-	-	-	-	-	-
	10/15/2014	137.0	9.6	-	-	-	-	-	-	-	-
	2/24/2015	11.4	1.0	15.9	25.3	-	-	-	-	-	-
	5/11/2015	90.2	5.8	11.1	19.6	-	-	-	-	-	-
	8/4/2015	71.9	18.2	1.9	2.1	-	-	-	-	-	-
	12/1/2015	12.8	2.6	15.1	26.6	-	-	-	-	-	-
MW-08S	10/13/2014	21.0	14.5	-	-	0.89	6.68	18.18	-123.6	1488	-
	10/13/2014	-	-	-	-	0.81	6.70	18.26	-108.0	1386	-
	10/14/2014	-	-	-	-	0.16	6.77	18.18	-129.0	1424	-
	10/15/2014	8.7	20.4	-	-	0.83	6.68	18.29	-105.8	1325	-
	10/15/2014	-	-	-	-	0.28	6.66	18.23	-113.1	1408	-
	10/20/2014	15.9	10.9	6.2	1.9	-	-	-	-	-	-
	10/22/2014	-	-	-	-	1.24	6.59	18.27	-98.8	1276	-
	2/24/2015	49.3	0.4	13.8	15.4	-	-	-	-	-	-
	2/25/2015	-	-	-	-	0.09	6.69	16.81	-137.5	1236	-
MW-10S	10/13/2014	23.1	17.0	-	-	0.75	6.59	18.17	-117.6	1202	-

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-10S (cont.)	10/13/2014	-	-	-	-	0.60	6.60	18.20	-113.0	1185	-
	10/15/2014	8.3	20.4	-	-	0.41	6.54	18.23	-118.5	1185	-
	10/15/2014	-	-	-	-	0.60	6.56	18.30	-104.5	1189	-
	10/16/2014	18.5	20.9	-	-	-	-	-	-	-	-
	10/20/2014	25.2	15.2	3.7	0.2	-	-	-	-	-	-
	10/22/2014	-	-	-	-	1.30	6.48	18.44	-72.7	1002	-
	2/24/2015	54.5	1.0	14.7	3.4	-	-	-	-	-	-
	5/11/2015	22.6	6.5	9.2	7.6	-	-	-	-	-	-
	8/4/2015	53.6	4.2	10.6	7.6	0.02	6.73	16.52	-90.0	1440	-
MW-11	10/13/2014	5.4	19.0	-	-	2.30	6.27	18.16	56.2	324	-
	10/13/2014	-	-	-	-	3.23	6.14	18.29	48.6	349	-
	10/15/2014	23.6	15.3	-	-	-	-	-	-	-	-
	10/20/2014	22.0	11.6	6.3	1.9	-	-	-	-	-	-
	10/22/2014	-	-	-	-	0.38	5.73	18.38	160.2	323	-
	2/24/2015	3.2	19.3	3.7	0.1	-	-	-	-	-	-
	2/25/2015	-	-	-	-	0.12	5.60	17.83	62.6	370	-
	5/11/2015	0.6	20.6	0.2	0.1	0.07	5.66	17.27	91.2	390	-
	8/4/2015	4.3	2.5	15.0	26.8	0.09	6.66	18.45	-39.8	1	-
MW-14	10/13/2014	15.9	17.2	-	-	2.79	6.00	18.13	68.0	368	-
	10/20/2014	82.4	14.4	3.7	1.3	-	-	-	-	-	-
	10/22/2014	-	-	-	-	0.26	5.79	18.43	216.2	310	-
	2/24/2015	188.0	14.4	0.9	0.4	-	-	-	-	-	-
	2/25/2015	-	-	-	-	0.84	6.25	17.90	-98.6	460	-

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-14	5/11/2015	166.8	18.4	2.4	0.2	0.07	6.22	17.30	-69.6	420	-
(cont.)	8/4/2015	11.9	17.8	3.2	0.3	0.07	6.72	17.10	-69.4	1	-
MW-15S	10/13/2014	34.0	12.4	-	-	0.84	6.32	18.03	-17.1	647	-
	10/20/2014	18.2	2.2	11.6	0.0	-	-	-	-	-	-
	10/22/2014	-	-	-	-	0.88	6.48	17.61	-37.4	989	-
MW-16S	10/10/2014	9.0	7.2	-	-	-	-	-	-	-	-
	2/24/2015	0.0	5.5	12.4	0.1	1.54	6.11	14.50	60.2	2	-
MW-16	10/10/2014	11.1	6.9	-	-	0.46	5.88	17.50	162.4	707	-
	10/22/2014	-	-	-	-	0.87	5.79	17.75	211.0	681	30,200
	2/24/2015	0.0	20.9	0.3	0.1	2.62	5.92	17.57	101.8	1010	-
	5/11/2015	-	-	-	-	0.49	5.83	17.05	112.4	830	-
MW-25S	10/13/2014	-	-	-	-	0.96	6.46	18.51	-84.0	914	-
	10/13/2014	13.0	20.3	-	-	-	-	-	-	-	-
	10/15/2014	192.0	19.3	-	-	-	-	-	-	-	-
	10/16/2014	34.4	20.9	-	-	-	-	-	-	-	-
	10/20/2014	30.2	16.6	3.4	0.3	-	-	-	-	-	-
	2/24/2015	127.0	3.6	12.7	2.3	-	-	-	-	-	-
	5/11/2015	51.8	6.5	8.3	6.4	-	-	-	-	-	-
	8/4/2015	70.5	4.4	9.5	4.6	-	-	-	-	-	-
MW-25 / RW-25	10/13/2014	139.0	19.2	-	-	-	-	-	-	-	-

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-25 / RW-25 (cont.)	10/14/2014	79.0	17.5	-	-	-	-	-	-	-	-
	10/15/2014	8.4	20.9	-	-	-	-	-	-	-	-
	10/16/2014	28.2	14.3	-	-	-	-	-	-	-	-
	2/24/2015	121.0	15.4	5.5	1.3	-	-	-	-	-	-
	5/11/2015	263.0	11.6	6.7	0.6	-	-	-	-	-	-
	8/4/2015	118.4	15.8	3.7	0.4	-	-	-	-	-	-
	12/1/2015	79.5	14.7	5.4	1.1	-	-	-	-	-	-
MW-27	10/10/2014	41.5	17.7	-	-	0.28	6.55	17.74	-79.8	1075	-
	10/15/2014	7.3	20.9	-	-	0.02	6.51	17.97	-36.3	1057	-
	10/15/2014	21.9	16.1	-	-	1.67	6.37	18.18	44.5	831	-
	10/16/2014	21.9	16.1	-	-	-	-	-	-	-	-
	10/20/2014	25.3	14.3	6.5	8.6	-	-	-	-	-	-
	10/23/2014	-	-	-	-	0.54	6.46	17.97	743.0	153	1,540
	2/24/2015	21.1	2.3	12.2	13.6	-	-	-	-	-	-
	2/25/2015	-	-	-	-	0.06	6.61	15.83	-85.6	1228	-
	5/11/2015	127.3	8.1	7.9	0.0	0.08	6.54	14.84	-110.0	1300	-
	8/4/2015	28.5	1.3	13.2	16.6	0.03	6.68	15.93	-49.3	1260	-
	12/1/2015	67.4	2.2	16.9	31.9	0.06	6.57	17.28	-51.5	1190	-
MW-31 / RW-31	10/10/2014	120.5	6.2	-	-	0.39	6.97	18.62	-119.7	899	-
	10/15/2014	62.5	15.0	-	-	0.59	6.83	19.04	-119.9	848	-
	10/15/2014	0.0	20.9	-	-	0.90	6.61	19.57	-47.6	541	-
	10/20/2014	11.8	17.4	1.1	0.3	-	-	-	-	-	-
	10/23/2014	-	-	-	-	0.41	6.98	18.69	-15.9	791	728

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-31 / RW-31 (cont.)	2/24/2015	179.0	2.1	0.2	0.3	0.02	7.08	14.47	-164.3	927	-
	5/11/2015	36.9	5.8	4.1	0.1	0.00	7.06	12.74	-129.3	1010	-
	8/4/2015	41.3	3.9	5.4	1.7	0.02	7.18	15.92	-13.7	1010	-
MW-33	10/10/2014	1.4	9.7	-	-	0.68	5.81	17.97	157.4	654	-
	10/15/2014	0.5	19.0	-	-	0.09	5.84	18.30	64.9	633	-
	10/15/2014	0.0	20.9	-	-	0.42	5.86	18.30	92.6	658	-
	10/20/2014	1.0	12.0	5.4	0.0	-	-	-	-	-	-
	10/23/2014	-	-	-	-	2.37	6.05	18.24	186.7	698	1,120
	2/24/2015	0.0	20.6	0.1	0.1	2.35	5.51	15.51	88.7	648	-
	5/11/2015	21.4	19.0	1.0	0.0	0.47	5.69	14.03	88.0	720	-
	8/4/2015	1.4	3.3	8.6	0.0	0.05	6.29	15.84	48.5	780	
MW-51S	10/13/2014	23.0	5.7	-	-	0.64	6.72	18.32	-120.0	1457	-
	10/13/2014	1.0	-	-	-	0.75	6.65	18.35	-78.8	1000	-
	10/14/2014	-	-	-	-	0.33	6.64	18.46	-71.8	1047	-
	10/15/2014	1.2	20.0	-	-	1.62	6.60	18.43	1.5	566	-
	10/15/2014	-	-	-	-	0.74	6.62	18.45	-84.6	1122	-
	10/20/2014	22.3	10.6	6.3	1.5	-	-	-	-	-	-
	10/22/2014	-	-	-	-	0.81	6.67	18.47	-93.7	1153	-
	2/24/2015	9.9	0.9	13.5	27.2	-	-	-	-	-	-
	2/25/2015	-	-	-	-	0.08	6.70	16.75	-110.9	1968	-
	5/11/2015	40.8	1.2	12.1	28.3	0.02	6.74	16.21	-113.3	1830	-
	8/4/2015	15.2	0.7	13.2	27.5	0.04	6.82	16.33	-96.0	1440	-

HISTORICAL GROUNDWATER FIELD PARAMETERS DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Sample Date	Head Space Photo Ionization Detector (ppm)	Head Space Oxygen (%)	Head Space Carbon Dioxide (%)	Head Space Methane (%)	Dissolved Oxygen (mg/L)	Well pH	Well Temperature (deg C)	ORP (mV)	Specific Conductance (µS/cm)	Turbidity (NTU)
MW-51 / RW-51	10/13/2014	135.0	18.0	-	-	-	-	-	-	-	-
	10/15/2014	100.8	14.0	-	-	0.33	6.60	18.57	-86.9	1014	-
	10/20/2014	31.5	11.6	4.9	3.2	-	-	-	-	-	-
	2/24/2015	35.1	4.7	11.4	6.0	-	-	-	-	-	-
	5/11/2015	100.3	1.2	12.6	5.1	-	-	-	-	-	-
	8/4/2015	104.3	19.6	1.0	1.6	-	-	-	-	-	-
	12/1/2015	18.5	17.8	2.4	1.2	-	-	-	-	-	-
MW-52	10/10/2014	5.4	16.3	-	-	1.15	5.87	17.51	45.9	465	-
MW-70	10/10/2014	0.3	16.2	-	-	2.12	5.76	17.30	98.7	843	-
	2/24/2015	0.0	17.8	1.3	0.2	1.02	5.53	16.71	-36.2	9	-
	5/11/2015	-	-	-	-	0.40	5.49	16.51	120.7	790	-
	8/4/2015	-	-	-	-	0.46	5.72	16.24	77.5	820	
MW-72S	10/10/2014	21.7	5.8	-	-	0.55	6.42	18.41	-98.2	1331	-
	10/15/2014	14.5	14.0	-	-	0.04	6.40	18.56	-85.4	1340	-
	10/15/2014	-	-	-	-	1.70	6.47	18.70	-53.0	1246	-
	10/16/2014	95.0	7.8	-	-	-	-	-	-	-	-
	10/20/2014	38.8	9.3	7.4	4.2	-	-	-	-	-	-
	10/22/2014	-	-	-	-	1.92	6.39	17.99	-21.2	904	-
	2/24/2015	30.6	5.4	11.5	1.6	0.09	6.54	16.13	-101.9	1325	-
	5/11/2015	65.0	6.5	9.4	3.3	0.02	6.49	14.58	-110.6	1340	-
	8/4/2015	8.0	8.2	6.9	0.4	0.11	6.71	16.20	-56.9	1710	-

HISTORICAL GROUNDWATER FIELD PARAMETERS DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Sample Date	Head Space Photo Ionization Detector (ppm)	Head Space Oxygen (%)	Head Space Carbon Dioxide (%)	Head Space Methane (%)	Dissolved Oxygen (mg/L)	Well pH	Well Temperature (deg C)	ORP (mV)	Specific Conductance (µS/cm)	Turbidity (NTU)
MW-72 / RW-72	10/10/2014	12.2	6.6	-	-	0.48	5.47	17.86	32.6	743	-
	10/15/2014	14.8	16.8	-	-	0.14	5.41	18.04	110.3	733	-
	10/15/2014	-	-	-	-	2.99	5.75	18.09	108.9	739	-
	10/16/2014	6.9	5.2	-	-	-	-	-	-	-	-
	10/20/2014	10.5	2.0	16.8	13.0	-	-	-	-	-	-
	10/22/2014	-	-	-	-	1.77	5.86	17.73	146.2	533	29,800
	2/24/2015	13.3	14.2	6.9	0.1	0.58	5.48	17.43	82.8	877	-
	5/11/2015	64.5	20.6	0.2	0.0	0.03	5.82	15.99	-21.9	1080	-
	8/4/2015	6.9	12.7	5.0	3.2	0.02	6.68	16.31	-57.3	1880	-
MW-100S	10/10/2014	6.5	6.8	-	-	0.40	5.62	18.36	11.8	915	-
	2/24/2015	0.0	17.2	3.5	0.2	4.78	5.79	16.07	25.5	2	-
MW-100	10/10/2014	0.3	20.4	-	-	2.23	5.38	17.60	148.8	531	-
	2/24/2015	0.0	20.4	0.6	0.2	1.02	5.53	16.80	27.5	309	-
MW-102	10/10/2014	0.6	17.7	-	-	2.44	6.10	17.15	68.2	295	-
MW-103	10/10/2014	8.5	19.4	-	-	1.72	6.41	19.90	71.6	610	-
	10/23/2014	-	-	-	-	7.32	6.15	19.14	149.3	598	-
	2/24/2015	0.0	19.5	2.4	0.3	-	-	-	-	-	-
	2/25/2015	-	-	-	-	5.27	6.17	5.08	85.9	720	-
	5/11/2015	-	-	-	-	0.13	5.95	12.40	82.3	680	-
MW-104	10/10/2014	5.8	18.9	-	-	1.98	6.90	19.47	6.1	452	-

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-104 (cont.)	10/21/2014	-	-	-	-	2.17	6.93	18.83	102.6	526	3,250
	2/24/2015	0.0	15.1	1.1	0.3	-	-	-	-	-	-
	2/25/2015	-	-	-	-	3.75	7.07	9.30	50.4	496	-
	5/11/2015	-	-	-	-	1.24	6.89	12.25	54.8	740	-
MW-105	10/10/2014	11.5	19.0	-	-	3.96	6.90	19.03	56.8	427	-
	10/21/2014	-	-	-	-	4.47	6.89	19.20	155.1	393	2,520
	5/11/2015	-	-	-	-	0.42	5.38	11.11	98.1	27900	-
MW-106	10/10/2014	9.2	17.1	-	-	1.20	4.66	18.99	122.5	2231	-
	10/14/2014	4.3	18.3	-	-	-	-	-	-	-	-
	10/20/2014	0.2	15.5	3.8	0.0	-	-	-	-	-	-
	10/23/2014	-	-	-	-	1.29	5.20	18.35	97.7	1529	-
	2/24/2015	0.0	7.1	5.4	0.1	1.03	4.63	9.81	62.0	2156	-
	5/11/2015	0.7	0.2	7.6	0.2	0.03	5.00	11.73	100.8	2010	-
	8/4/2015	1.0	12.6	4.5	0.0	0.09	5.66	17.62	31.8	2080	-
MW-107	10/10/2014	10.5	11.8	-	-	0.62	3.51	18.90	348.4	2063	-
	10/15/2014	7.3	13.7	-	-	1.51	3.63	19.54	393.0	1047	-
	10/15/2014	-	-	-	-	2.52	3.76	19.36	428.9	1117	-
	10/20/2014	0.3	7.3	9.4	0.0	-	-	-	-	-	-
	10/23/2014	-	-	-	-	3.40	2.90	19.05	480.1	1462	-
	2/24/2015	0.0	19.3	1.5	0.1	7.33	3.01	11.73	338.5	15	-
	5/11/2015	0.8	9.1	6.7	0.0	0.40	3.36	12.51	425.7	2010	-
	8/4/2015	0.5	7.9	8.2	0.0	0.31	3.69	18.19	347.8	2360	-

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-108	10/10/2014	9.5	11.6	-	-	-	-	-	-	-	-
MW-109S	10/10/2014	50.0	11.3	-	-	1.43	6.35	18.20	-83.5	827	-
	10/20/2014	13.8	3.9	13.2	0.0	-	-	-	-	-	-
	10/21/2014	-	-	-	-	0.35	6.03	18.29	59.2	769	-
	2/24/2015	12.9	1.3	14.9	0.3	-	-	-	-	-	-
	2/25/2015	-	-	-	-	1.35	6.19	13.93	36.7	607	-
	5/11/2015	4.0	13.8	4.8	0.0	0.33	5.96	12.89	124.7	460	-
MW-109	10/10/2014	11.8	19.1	-	-	1.65	6.03	17.98	35.0	247	-
	10/20/2014	0.2	20.8	0.6	0.0	-	-	-	-	-	-
	10/21/2014	-	-	-	-	0.86	5.81	18.04	133.5	261	-
	2/24/2015	6.2	18.5	3.2	0.3	-	-	-	-	-	-
	2/25/2015	-	-	-	-	0.71	5.74	15.75	137.9	248	-
MW-110S	10/10/2014	9.9	14.4	-	-	0.50	6.32	18.38	-87.8	651	-
	2/24/2015	12.7	4.3	12.8	0.3	-	-	-	-	-	-
	2/25/2015	-	-	-	-	1.65	6.39	13.79	-19.5	849	-
MW-110	10/10/2014	13.1	16.4	-	-	1.30	5.39	17.98	117.8	215	-
	2/24/2015	5.8	19.4	1.0	0.4	-	-	-	-	-	-
	2/25/2015	-	-	-	-	1.70	5.48	15.49	168.1	245	-
MW-111	10/10/2014	7.3	16.9	-	-	1.70	5.82	17.98	75.9	247	-
	2/24/2015	0.0	18.7	1.7	0.2	-	-	-	-	-	-

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-111 (cont.)	2/25/2015	-	-	-	-	1.21	6.05	15.24	122.6	368	-
MW-112S	10/10/2014	25.0	14.7	-	-	1.95	5.46	18.26	148.5	369	-
	10/20/2014	0.0	12.0	7.9	0.0	-	-	-	-	-	-
	10/21/2014	-	-	-	-	2.50	5.38	18.27	172.9	333	-
	2/24/2015	16.8	6.6	9.7	0.3	-	-	-	-	-	-
	2/25/2015	-	-	-	-	3.92	5.41	13.06	207.5	347	-
	5/11/2015	2.1	16.3	3.3	0.0	3.37	5.21	13.22	197.2	360	-
MW-112	10/10/2014	14.8	16.3	-	-	2.14	5.56	17.93	157.3	162	-
	2/24/2015	12.3	19.2	1.3	0.3	-	-	-	-	-	-
	2/25/2015	-	-	-	-	4.34	5.54	15.13	203.8	171	-
MW-113	10/10/2014	6.3	19.2	-	-	6.17	6.35	17.97	83.2	352	-
	2/24/2015	0.0	19.9	1.6	0.2	-	-	-	-	-	-
	2/25/2015	-	-	-	-	5.96	6.73	14.72	73.5	428	-
MW-114	10/10/2014	9.0	6.3	-	-	1.50	5.83	17.65	78.0	310	-
	10/20/2014	0.1	16.0	2.1	0.1	-	-	-	-	-	-
	10/21/2014	-	-	-	-	1.23	6.04	17.81	154.1	262	-
	2/24/2015	0.0	20.6	0.3	0.3	-	-	-	-	-	-
	2/25/2015	-	-	-	-	8.72	6.10	12.05	113.7	326	-
	5/11/2015	0.0	19.4	1.0	0.0	3.99	5.99	15.33	199.7	300	-
MW-121	8/4/2015	-	-	-	-	0.02	7.00	17.04	-13.1	890	-

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-121 (cont.)	12/1/2015	14.8	14.8	3.6	15.2	0.04	6.72	17.44	-91.7	880	-
MW-122	8/4/2015	-	-	-	-	0.06	7.04	16.73	-6.3	1020	-
	12/1/2015	2.2	11.2	4.8	4.8	0.27	6.81	17.06	-86.8	1130	-
MW-123S	8/4/2015	-	-	-	-	2.66	12.52	16.99	-53.2	15080	-
	12/1/2015	0.2	17.8	2.0	10.5	0.13	6.63	17.68	-46.3	810	-
RW-1	10/13/2014	130.0	19.0	-	-	1.34	6.92	18.45	136.4	495	-
	10/13/2014	79.0	18.9	-	-	3.41	6.41	18.31	158.0	473	-
	10/14/2014	55.0	18.9	-	-	0.53	6.49	18.46	129.6	475	-
	10/15/2014	80.7	19.3	-	-	1.99	6.29	18.43	60.4	292	-
	10/15/2014	-	-	-	-	1.06	6.31	18.49	96.9	314	-
	10/20/2014	29.2	16.4	3.2	2.4	-	-	-	-	-	-
	10/22/2014	-	-	-	-	2.14	6.50	18.07	85.5	311	-
	2/24/2015	178.0	3.2	4.2	0.2	-	-	-	-	-	-
	2/25/2015	-	-	-	-	0.03	6.76	17.88	-86.4	900	-
	12/1/2015	6.9	3.1	8.5	9.5	0.07	6.68	17.28	-57.6	760	-
RW-05S	8/4/2015	-	-	-	-	0.00	8.88	15.65	-469.6	1960	-
	12/1/2015	193.7	19.2	1.3	3.5	0.04	6.59	17.01	-89.7	1560	-
RW-25S	8/4/2015	3.9	2.1	14.7	59.9	DRY					
	12/1/2015	111.1	13.1	6.5	9.7	-	-	-	-	-	-

HISTORICAL GROUNDWATER FIELD PARAMETERS DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Sample Date	Head Space Photo Ionization Detector (ppm)	Head Space Oxygen (%)	Head Space Carbon Dioxide (%)	Head Space Methane (%)	Dissolved Oxygen (mg/L)	Well pH	Well Temperature (deg C)	ORP (mV)	Specific Conductance (µS/cm)	Turbidity (NTU)
RW-28S	8/4/2015	48.5	13.8	1.4	0.3	0.17	6.22	16.59	-12.0	1610	-
	12/1/2015	31.8	17.6	1.6	0.1	0.24	6.50	17.31	-48.20	1590	-
RW-30S	10/10/2014	6.8	7.6	-	-	0.31	6.64	18.50	-59.9	1155	-
	10/15/2014	15.5	17.2	-	-	-	6.69	19.02	-114.8	1084	-
	10/15/2014	74.4	10.5	-	-	0.69	6.61	19.43	-60.0	1030	-
	10/20/2014	2.8	11.5	4.0	0.0	-	-	-	-	-	-
	2/24/2015	16.5	12.8	0.3	0.2	0.40	6.74	14.15	-51.7	742	-
	5/11/2015	49.6	13.4	2.9	0.0	0.81	6.7	13.04	7.0	680	-
	8/4/2015	18.3	16.0	0.5	1.1	1.96	7.12	16.90	-93.7	780	-
	12/1/2015	32.1	15.7	2.6	0.1	0.27	6.75	17.86	-68.4	1040	-
RW-116S	8/4/2015	3.8	13.8	3.9	0.6	0.07	6.68	16.35	-77.4	1710	-
	12/1/2015	50.7	18.8	0.6	1.2	0.06	6.62	16.97	-78.7	1350	-
RW-117S	8/4/2015	3.2	20.5	0.0	0.0	0.27	6.92	16.29	-76.5	1740	-
	12/1/2015	422.3	17.3	3.1	2.1	0.06	6.64	17.06	-100.6	1420	-
RW-118S	8/4/2015	19.6	6.4	7.3	0.1	0.14	6.78	16.32	-59.8	1350	-
RW-119S	8/4/2015	2.4	12.8	3.4	2.1	0.03	6.69	16.60	-15.9	1020	-
TW-02	10/13/2014	0.3	17.4	-	-	1.01	6.43	18.32	-	523	-
	10/23/2014	-	-	-	-	0.65	6.70	17.24	-63.8	1189	-
	2/24/2015	0.0	19.9	0.3	0.3	-	-	-	-	-	-

HISTORICAL GROUNDWATER FIELD PARAMETERS DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Sample Date	Head Space Photo Ionization Detector (ppm)	Head Space Oxygen (%)	Head Space Carbon Dioxide (%)	Head Space Methane (%)	Dissolved Oxygen (mg/L)	Well pH	Well Temperature (deg C)	ORP (mV)	Specific Conductance (µS/cm)	Turbidity (NTU)
TW-02 (cont.)	2/25/2015	-	-	-	-	1.56	6.24	8.82	96.2	991	-
	5/11/2015	-	-	-	-	1.62	6.60	21.64	-49.5	1230	-
	8/5/2015	-	-	-	-	0.27	6.82	18.28	-68.9	792	31.9
TW-03	10/13/2014	0.3	19.5	-	-	1.86	5.73	19.23	-	503	-
	10/23/2014	-	-	-	-	0.71	6.12	18.54	38.1	489	-
	2/24/2015	0.0	3.1	10.4	0.3	-	-	-	-	-	-
	2/25/2015	-	-	-	-	0.75	6.21	8.92	64.8	609	-
	5/11/2015	0.0	8.5	10.2	0.0	2.03	5.77	20.61	110.5	480	-
	8/4/2015	0.0	7.8	14.3	0.0	0.26	5.40	21.76	80.4	602	70.6
TW-04	10/13/2014	2.0	19.2	-	-	1.67	5.73	19.08	-	1344	-
	10/23/2014	-	-	-	-	0.70	5.76	18.95	35.0	1232	-
	2/24/2015	1.2	15.7	4.4	0.3	-	-	-	-	-	-
	2/25/2015	-	-	-	-	2.36	5.86	6.96	65.1	1862	-
	5/11/2015	-	-	-	-	1.92	6.19	19.77	-22.7	1390	-
	8/4/2015	-	-	-	-	0.16	6.23	19.04	-35.7	1203	210
TW-05	10/13/2014	129.3	17.0	-	-	1.26	5.23	18.64	61.2	1204	-
	10/15/2014	8.7	20.5	-	-	-	-	-	-	-	-
	10/20/2014	16.0	20.6	0.1	0.0	-	-	-	-	-	-
	10/23/2014	-	-	-	-	0.85	5.73	19.04	49.2	1121	-
	2/24/2015	16.0	11.1	8.6	0.7	-	-	-	-	-	-
	2/25/2015	-	-	-	-	0.85	6.19	7.42	37.1	992	-
	5/11/2015	22.1	4.6	12.9	0.0	0.15	5.60	18.61	54.0	800	-

HISTORICAL GROUNDWATER FIELD PARAMETERS DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Sample Date	Head Space Photo Ionization Detector (ppm)	Head Space Oxygen (%)	Head Space Carbon Dioxide (%)	Head Space Methane (%)	Dissolved Oxygen (mg/L)	Well pH	Well Temperature (deg C)	ORP (mV)	Specific Conductance (µS/cm)	Turbidity (NTU)
TW-05 (cont.)	8/4/2015	8.2	7.2	13.3	0.0	0.38	5.86	19.61	21.5	901	87.0
TW-06	10/13/2014	39.8	14.4	-	-	1.31	6.42	18.99	-	983	-
	10/15/2014	78.9	11.0	-	-	1.33	6.54	21.65	-65.0	873	-
	10/15/2014	-	-	-	-	0.31	6.28	19.79	-46.8	986	-
	10/20/2014	0.8	5.4	12.0	0.0	-	-	-	-	-	-
	10/23/2014	-	-	-	-	0.84	6.51	18.95	-68.8	823	-
	2/24/2015	0.7	5.0	8.9	0.3	-	-	-	-	-	-
	2/25/2015	-	-	-	-	0.84	6.75	7.20	-32.9	882	-
	5/11/2015	-	-	-	-	1.33	6.49	18.61	-69.1	710	-
	8/4/2015	-	-	-	-	0.22	6.17	19.07	-36.8	975	30.5
	12/1/2015	4.7	1.1	14.5	0.0	-	-	-	-	-	-
TW-07	10/13/2014	33.5	16.4	-	-	1.40	4.96	19.08	-	580	-
	10/15/2014	15.6	15.4	-	-	0.40	4.94	20.81	97.9	569	-
	10/20/2014	0.0	14.6	5.0	0.0	-	-	-	-	-	-
	10/23/2014	-	-	-	-	0.41	4.99	19.04	139.5	415	-
	2/24/2015	0.0	14.4	7.2	0.3	-	-	-	-	-	-
	2/25/2015	-	-	-	-	1.53	5.07	7.15	244.8	640	-
	5/11/2015	0.0	9.0	11.0	0.0	2.02	4.70	20.64	202.2	660	-
	8/4/2015	0.0	7.2	16.9	0.0	0.20	4.39	22.88	150.0	629	65.8
TW-12S	10/10/2014	0.8	18.5	-	-	-	-	-	-	-	-
	2/24/2015	0.0	15.0	2.8	0.3	-	-	-	-	-	-

HISTORICAL GROUNDWATER FIELD PARAMETERS DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Sample Date	Head Space Photo Ionization Detector (ppm)	Head Space Oxygen (%)	Head Space Carbon Dioxide (%)	Head Space Methane (%)	Dissolved Oxygen (mg/L)	Well pH	Well Temperature (deg C)	ORP (mV)	Specific Conductance (µS/cm)	Turbidity (NTU)
TW-14	10/10/2014	2.3	19.5	-	-	-	-	-	-	-	-
	10/20/2014	0.0	20.0	0.7	0.0	-	-	-	-	-	-
	10/23/2014	-	-	-	-	1.99	7.48	19.13	-47.2	562	-
	2/24/2015	0.0	20.3	0.3	0.3	-	-	-	-	-	-
	2/25/2015	-	-	-	-	3.80	7.18	3.96	-6.1	465	-
	5/11/2015	-	-	-	-	1.16	7.14	22.53	-114.6	760	-
	8/6/2015	-	-	-	-	0.73	6.88	24.20	-107.8	828	-

Notes:

-	= Not available	mg/L	= Milligrams per liter
%	= Percent	mV	= Millivolts
µS/cm	= Microsiemens per centimeter	ORP	= Oxidation-Reduction Potential
deg C	= Degrees Celsius	ppm	= Parts per million

Table 4

Groundwater Monitoring Plan

Potomac River Generating Station
1400 North Royal Street
Alexandria, Virginia

		Field Parameters								Laboratory Parameters									
Well ID	Aquifer Zone	PH	Specific Conductance	Temperature	Oxidation Reduction Potential	Dissolved Oxygen	Headspace CO_2 concentration	Headspace VOC concentration	Headspace O2	TPH-DRO C10-C28 (SW-846 8015B)	BTEX Naphthalene (8260)	Alkalinity (SM 2320B)	Nitrate NO_3^{-1} (EPA 353.2)	Manganese (Mn2+)	Ferrous Iron Fe^{2+} (SM 3500-Fe B modified-1997)	Sulfate SO_4^{2-} (EPA 300.0)	Methane (RSKSOP-175 modified)	Sample Method	Comments
MW-01S	Shallow	Q	Q	Q	Q	Q	Q	Q	Q	Q	A	Q	Q	Q	Q	Q	Q	P&S	LNAPL**; Biostimulation sampling to begin 1Q16
MW-05 / RW-05	Deep	Q	Q	Q	Q	Q	Q	Q	Q	Q	A							P&S	LNAPL**
MW-08S	Shallow									Q	A*							P&S	*Sample once for BTEX and naphthalene; if concentrations below remediation goals discontinue sampling, if above continue to sample annually
MW-10S	Shallow	Q	Q	Q	Q	Q	Q	Q	Q	Q	A	Q	Q	Q	Q	Q	Q	P&S	LNAPL**; Biostimulation sampling to begin 1Q16
MW-11	Deep									A								P&S	
MW-14	Deep	Q	Q	Q	Q	Q	Q	Q	Q	Q		Q	Q	Q	Q	Q	Q	P&S	Biostimulation sampling to begin 1Q16
MW-15S	Shallow									A								P&S	
MW-16S	Shallow																	NS	Gauge only
MW-16	Deep																	NS	Gauge only
MW-25S	Shallow									Q	A							P&S	LNAPL**
MW-25 / RW-25	Deep	Q	Q	Q	Q	Q	Q	Q	Q	Q	A							P&S	LNAPL**
MW-27	Deep	Q	Q	Q	Q	Q	Q	Q	Q	Q	A	Q	Q	Q	Q	Q	Q	P&S	
MW-31 / RW-31	Deep									Q								P&S	
MW-33	Deep									A								P&S	
MW-51S	Shallow	Q	Q	Q	Q	Q	Q	Q	Q	Q		Q	Q	Q	Q	Q	Q	P&S	Biostimulation sampling to begin 1Q16
MW-51 / RW-51	Deep	Q	Q	Q	Q	Q	Q	Q	Q	Q	A							P&S	LNAPL**
MW-52	Deep																	NS	Gauge only
MW-70	Deep																	NS	Gauge only
MW-72S	Shallow	Q	Q	Q	Q	Q	Q	Q	Q	Q	A	Q	Q	Q	Q	Q	Q	P&S	Biostimulation sampling to begin 1Q16
MW-72 / RW-72	Deep	Q	Q	Q	Q	Q	Q	Q	Q	Q	A	Q	Q	Q	Q	Q	Q	P&S	Biostimulation sampling to begin 1Q16
MW-100S	Shallow	A	A	A	A	A	A	A	A	A		A	A	A	A	A	A	P&S	
MW-100	Deep	A	A	A	A	A	A	A	A	A		A	A	A	A	A	A	P&S	
MW-102	Deep																	NS	Gauge only
MW-103	Shallow																	NS	Gauge only
MW-104	Shallow																	NS	Gauge only
MW-105	Shallow																	NS	Gauge only
MW-106	Deep	Q	Q	Q	Q	Q	Q	Q	Q	Q	A	Q	Q	Q	Q	Q	Q	P&S	Biostimulation sampling to begin 1Q16
MW-107	Deep									A								P&S	
MW-108	Deep									Q								P&S	Typically Dry
MW-109S	Shallow									A								P&S	
MW-109	Deep									A								P&S	
MW-110S	Shallow									A								P&S	
MW-110	Deep									A								P&S	
MW-111	Deep									A								P&S	basement wells
MW-112S	Shallow									A								P&S	
MW-112	Deep									A								P&S	
MW-113	Deep									A								P&S	
MW-114	Deep									A								P&S	
MW-121	Deep	Q	Q	Q	Q	Q	Q	Q	Q	Q	A	Q	Q	Q	Q	Q	Q	P&S	
MW-122	Deep	Q	Q	Q	Q	Q	Q	Q	Q	Q	A	Q	Q	Q	Q	Q	Q	P&S	

Table 4

Groundwater Monitoring Plan
Potomac River Generating Station
1400 North Royal Street
Alexandria, Virginia

		Field Parameters								Laboratory Parameters									
Well ID	Aquifer Zone	PH	Specific Conductance	Temperature	Oxidation Reduction Potential	Dissolved Oxygen	Headspace CO_2 concentration	Headspace VOC concentration	Headspace O2	TPH-DRO C10-C28 (SW-846 8015B)	BTEX Naphthalene (8260)	Alkalinity (SM 2320B)	Nitrate NO_3^{-1} (EPA 353.2)	Manganese (Mn2+)	Ferrous Iron Fe^{2+} (SM 3500-Fe B modified-1997)	Sulfate SO_4^{2-} (EPA 300.0)	Methane (RSKSOP-175 modified)	Sample Method	Comments
MW-123S	Shallow	Q	Q	Q	Q	Q	Q	Q	Q	Q								P&S	
TW-02	Deep																	NS	Gauge only
TW-03	Deep	Q	Q	Q	Q	Q	Q	Q	Q	Q		Q	Q	Q	Q	Q	Q	LF	Biostimulation sampling to begin 1Q16
TW-04	Deep									Q								LF	
TW-05	Deep	Q	Q	Q	Q	Q	Q	Q	Q	Q		Q	Q	Q	Q	Q	Q	LF	Biostimulation sampling to begin 1Q16
TW-06	Deep	Q	Q	Q	Q	Q	Q	Q	Q	Q		Q	Q	Q	Q	Q	Q	LF	
TW-07	Deep	Q	Q	Q	Q	Q	Q	Q	Q	Q								LF	Begin collection of field parameters 1Q16
TW-12S	Shallow									Q								P&S	Dry
TW-14	Shallow									Q	A							LF	
RW-1	Deep	Q	Q	Q	Q	Q	Q	Q	Q	Q								P&S	
RW-05S	Shallow	Q	Q	Q	Q	Q	Q	Q	Q	Q								P&S	
RW-25S	Shallow	Q	Q	Q	Q	Q	Q	Q	Q	Q	A							P&S	LNAPL**
RW-28S	Shallow	Q	Q	Q	Q	Q	Q	Q	Q	Q								P&S	
RW-30S	Shallow	Q	Q	Q	Q	Q	Q	Q	Q	Q								P&S	Begin collection of field parameters 1Q16
RW-116S	Shallow	Q	Q	Q	Q	Q	Q	Q	Q	Q								P&S	
RW-117S	Shallow	Q	Q	Q	Q	Q	Q	Q	Q	Q								P&S	
RW-118S	Shallow									Q								P&S	
RW-119S	Shallow									Q								P&S	
Total		27	27	27	27	27	27	27	27	49	15	15	15	15	15	15	15		

Notes:
** - 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
Select annual samples were collected during the 4th quarter of 2015. Moving forward, annual sampling to be completed during the 4th quarter of each year, beginning during 2016.

HISTORICAL GROUNDWATER ANALYTICAL DATA SUMMARY

PC #2013-3154
Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes, Total (µg/L)	Methyl tert-butyl ether (µg/L)	tert-Butyl alcohol (µg/L)	1,2-Dibromoethane (µg/L)	1,2-Dichloroethane (µg/L)	Naphthalene (µg/L)	TPH-DRO (µg/L)
MW-01S	8/15/2014	-	-	-	-	-	-	-	-	-	2,670
	10/22/2014	-	-	-	-	-	-	-	-	-	23,000
MW-08S	8/15/2014	-	-	-	-	-	-	-	-	-	7,540
	10/22/2014	-	-	-	-	-	-	-	-	-	52,000
	2/26/2015	-	-	-	-	-	-	-	-	-	22,000
	5/12/2015	-	-	-	-	-	-	-	-	-	27,000
	8/4/2015	-	-	-	-	-	-	-	-	-	14,000
	12/2/2015	61	<0.5	5	48	-	-	-	-	30	15,000
MW-10S	8/15/2014	-	-	-	-	-	-	-	-	-	36,000
	8/15/2014	-	-	-	-	-	-	-	-	-	100,000
MW-11	8/16/2014	-	-	-	-	-	-	-	-	-	423
	10/22/2014	-	-	-	-	-	-	-	-	-	840
	2/26/2015	-	-	-	-	-	-	-	-	-	920
	5/12/2015	2	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<1	900
	8/5/2015	-	-	-	-	-	-	-	-	-	5,300
	12/2/2015	-	-	-	-	-	-	-	-	-	2,000
MW-14	8/15/2014	-	-	-	-	-	-	-	-	-	305
	10/22/2014	-	-	-	-	-	-	-	-	-	2,100
	2/25/2015	-	-	-	-	-	-	-	-	-	6,000
	5/12/2015	-	-	-	-	-	-	-	-	-	5,500

HISTORICAL GROUNDWATER ANALYTICAL DATA SUMMARY

PC #2013-3154
Potomac River Generating Station
1400 North Royal St
Alexandria, VA

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

HISTORICAL GROUNDWATER ANALYTICAL DATA SUMMARY

PC #2013-3154
Potomac River Generating Station
1400 North Royal St
Alexandria, VA

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

HISTORICAL GROUNDWATER ANALYTICAL DATA SUMMARY

PC #2013-3154
Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes, Total (µg/L)	Methyl tert-butyl ether (µg/L)	tert-Butyl alcohol (µg/L)	1,2-Dibromoethane (µg/L)	1,2-Dichloroethane (µg/L)	Naphthalene (µg/L)	TPH-DRO (µg/L)
MW-33	8/15/2014	-	-	-	-	-	-	-	-	-	440
	10/23/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.02	<45
	2/25/2015	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.030	<45
	5/13/2015	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.1	<45
	8/5/2015	-	-	-	-	-	-	-	-	-	<45
	12/3/2015	-	-	-	-	-	-	-	-	-	<45
MW-51S	8/15/2014	-	-	-	-	-	-	-	-	-	1,590
	10/22/2014	-	-	-	-	-	-	-	-	-	8,400
	2/26/2015	-	-	-	-	-	-	-	-	-	7,100
	5/13/2015	-	-	-	-	-	-	-	-	-	17,000
	8/5/2015	-	-	-	-	-	-	-	-	-	11,000
	12/2/2015	-	-	-	-	-	-	-	-	-	14,000
MW-51 / RW-51	8/11/2014	-	-	-	-	-	-	-	-	-	1,180
	8/13/2014	-	-	-	-	-	-	-	-	-	1,650
	8/16/2014	-	-	-	-	-	-	-	-	-	281,000
MW-52	8/15/2014	-	-	-	-	-	-	-	-	-	<600
	10/22/2014	-	-	-	-	-	-	-	-	-	120
	5/12/2015	-	-	-	-	-	-	-	-	-	<45
	8/5/2015	-	-	-	-	-	-	-	-	-	110

HISTORICAL GROUNDWATER ANALYTICAL DATA SUMMARY

PC #2013-3154
Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes, Total (µg/L)	Methyl tert-butyl ether (µg/L)	tert-Butyl alcohol (µg/L)	1,2-Dibromoethane (µg/L)	1,2-Dichloroethane (µg/L)	Naphthalene (µg/L)	TPH-DRO (µg/L)
MW-70	8/15/2014	-	-	-	-	-	-	-	-	-	<153
	10/21/2014	-	-	-	-	-	-	-	-	-	<45
	2/26/2015	-	-	-	-	-	-	-	-	-	3,200
	5/12/2015	-	-	-	-	-	-	-	-	-	100
	8/5/2015	-	-	-	-	-	-	-	-	-	<45
MW-72S	8/15/2014	-	-	-	-	-	-	-	-	-	5,980
	10/22/2014	-	-	-	-	-	-	-	-	-	3,300
	2/25/2015	-	-	-	-	-	-	-	-	-	3,400
	5/13/2015	13	<0.5	24	<0.5	<0.5	<2	<0.5	<0.5	16.00	4,000
	8/5/2015	-	-	-	-	-	-	-	-	-	3,700
	12/3/2015	8	<0.5	15	<0.5	-	-	-	-	2.00 J	2,100
MW-72 / RW-72	8/11/2014	-	-	-	-	-	-	-	-	-	<300
	8/13/2014	-	-	-	-	-	-	-	-	-	1,100
	8/16/2014	-	-	-	-	-	-	-	-	-	1,340
	10/22/2014	41	<0.5	1	66	0.6	2	<0.5	<0.5	61	2,000
	2/25/2015	8	<0.5	<0.5	3	<0.5	<2	<0.5	<0.5	<0.030	590
	5/13/2015	13	<0.5	<0.5	6	<0.5	<2	<0.5	<0.5	13.00	630
	8/5/2015	-	-	-	-	-	-	-	-	-	3,900
	12/3/2015	20	<0.5	29	100	-	-	-	-	26	960

HISTORICAL GROUNDWATER ANALYTICAL DATA SUMMARY

PC #2013-3154
Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes, Total (µg/L)	Methyl tert-butyl ether (µg/L)	tert-Butyl alcohol (µg/L)	1,2-Dibromoethane (µg/L)	1,2-Dichloroethane (µg/L)	Naphthalene (µg/L)	TPH-DRO (µg/L)
MW-100S	8/15/2014	-	-	-	-	-	-	-	-	-	<300
	10/21/2014	-	-	-	-	-	-	-	-	-	<45
	2/26/2015	-	-	-	-	-	-	-	-	-	690
	5/12/2015	-	-	-	-	-	-	-	-	-	<45
	8/5/2015	-	-	-	-	-	-	-	-	-	<45
MW-100	8/15/2014	-	-	-	-	-	-	-	-	-	<152
	10/21/2014	-	-	-	-	-	-	-	-	-	60
	2/25/2015	-	-	-	-	-	-	-	-	-	300
	5/12/2015	-	-	-	-	-	-	-	-	-	<45
	8/5/2015	-	-	-	-	-	-	-	-	-	<45
MW-102	8/15/2014	-	-	-	-	-	-	-	-	-	<1,500
	10/21/2014	-	-	-	-	-	-	-	-	-	<45
	5/12/2015	-	-	-	-	-	-	-	-	-	<45
	8/5/2015	-	-	-	-	-	-	-	-	-	<45
MW-103	8/15/2014	-	-	-	-	-	-	-	-	-	479
	10/21/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.02	54
	2/26/2015	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.033	<45
	5/12/2015	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<1	<45
	8/5/2015	-	-	-	-	-	-	-	-	-	<45

HISTORICAL GROUNDWATER ANALYTICAL DATA SUMMARY

PC #2013-3154
Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes, Total (µg/L)	Methyl tert-butyl ether (µg/L)	tert-Butyl alcohol (µg/L)	1,2-Dibromoethane (µg/L)	1,2-Dichloroethane (µg/L)	Naphthalene (µg/L)	TPH-DRO (µg/L)
MW-104	8/15/2014	-	-	-	-	-	-	-	-	-	1,630
	10/21/2014	<0.5	<0.5	0.7	2	<0.5	<2	<0.5	<0.5	1	150
	2/26/2015	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.030	<45
	5/12/2015	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<1	<45
	8/5/2015	-	-	-	-	-	-	-	-	-	<45
MW-105	8/15/2014	-	-	-	-	-	-	-	-	-	<1,500
	10/21/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	0.06	<45
	5/12/2015	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<1	<45
	8/5/2015	-	-	-	-	-	-	-	-	-	<45
MW-106	8/15/2014	-	-	-	-	-	-	-	-	-	89,200
	10/22/2014	<0.5	<0.5	1	<0.5	<0.5	<2	<0.5	<0.5	23	2,000
	2/25/2015	<0.5	<0.5	2	<0.5	<0.5	<2	<0.5	<0.5	4.1	9,500
	5/12/2015	<0.5	<0.5	5	<0.5	<0.5	<2	<0.5	<0.5	2 J	7,800
	8/5/2015	-	-	-	-	-	-	-	-	-	2,300
	12/3/2015	<0.5	<0.5	1	<0.5	-	-	-	-	<1	3,300

HISTORICAL GROUNDWATER ANALYTICAL DATA SUMMARY

PC #2013-3154
Potomac River Generating Station
1400 North Royal St
Alexandria, VA

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

HISTORICAL GROUNDWATER ANALYTICAL DATA SUMMARY

PC #2013-3154
Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes, Total (µg/L)	Methyl tert-butyl ether (µg/L)	tert-Butyl alcohol (µg/L)	1,2-Dibromoethane (µg/L)	1,2-Dichloroethane (µg/L)	Naphthalene (µg/L)	TPH-DRO (µg/L)
MW-110	8/25/2014	-	-	-	-	-	-	-	-	-	<153
	10/20/2014	-	-	-	-	-	-	-	-	-	<45
	2/26/2015	-	-	-	-	-	-	-	-	-	<45
	5/12/2015	-	-	-	-	-	-	-	-	-	<45
MW-111	8/21/2014	-	-	-	-	-	-	-	-	-	<600
	10/20/2014	-	-	-	-	-	-	-	-	-	<45
	2/26/2015	-	-	-	-	-	-	-	-	-	260
	5/12/2015	-	-	-	-	-	-	-	-	-	150
MW-112S	8/15/2014	-	-	-	-	-	-	-	-	-	<1,500
	10/20/2014	-	-	-	-	-	-	-	-	-	380
	2/26/2015	-	-	-	-	-	-	-	-	-	<45
	5/12/2015	-	-	-	-	-	-	-	-	-	<45
MW-112	8/15/2014	-	-	-	-	-	-	-	-	-	<1,500
	10/20/2014	-	-	-	-	-	-	-	-	-	<45
	2/26/2015	-	-	-	-	-	-	-	-	-	<45
	5/12/2015	-	-	-	-	-	-	-	-	-	<45

HISTORICAL GROUNDWATER ANALYTICAL DATA SUMMARY

PC #2013-3154
Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes, Total (µg/L)	Methyl tert-butyl ether (µg/L)	tert-Butyl alcohol (µg/L)	1,2-Dibromoethane (µg/L)	1,2-Dichloroethane (µg/L)	Naphthalene (µg/L)	TPH-DRO (µg/L)
MW-113	8/21/2014	-	-	-	-	-	-	-	-	-	<600
	10/20/2014	-	-	-	-	-	-	-	-	-	61
	2/26/2015	-	-	-	-	-	-	-	-	-	90
	5/12/2015	-	-	-	-	-	-	-	-	-	<45
MW-114	8/25/2014	-	-	-	-	-	-	-	-	-	<600
	10/20/2014	-	-	-	-	-	-	-	-	-	<45
	2/26/2015	-	-	-	-	-	-	-	-	-	<45
	5/12/2015	-	-	-	-	-	-	-	-	-	<45
MW-121	8/4/2015	-	-	-	-	-	-	-	-	-	9,400
	12/2/2015	2.00	<0.5	8.00	<0.5	-	-	-	-	41.00	4,500
MW-122	8/4/2015	-	-	-	-	-	-	-	-	-	2,000
	12/2/2015	1.00	<0.5	8.00	<0.5	-	-	-	-	<1	1,600
MW-123S	8/5/2015	-	-	-	-	-	-	-	-	-	2,400
	12/1/2015	-	-	-	-	-	-	-	-	-	2,500

HISTORICAL GROUNDWATER ANALYTICAL DATA SUMMARY

PC #2013-3154
Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes, Total (µg/L)	Methyl tert-butyl ether (µg/L)	tert-Butyl alcohol (µg/L)	1,2-Dibromoethane (µg/L)	1,2-Dichloroethane (µg/L)	Naphthalene (µg/L)	TPH-DRO (µg/L)
RW-1	10/22/2014	-	-	-	-	-	-	-	-	-	30,000
	2/26/2015	-	-	-	-	-	-	-	-	-	6,200
	5/12/2015	-	-	-	-	-	-	-	-	-	8,400
	8/5/2015	-	-	-	-	-	-	-	-	-	2,500
	12/2/2015	-	-	-	-	-	-	-	-	-	4,300
RW-05S	8/5/2015	-	-	-	-	-	-	-	-	-	6,900
	12/2/2015	-	-	-	-	-	-	-	-	-	17,000
RW-28S	8/5/2015	-	-	-	-	-	-	-	-	-	2,300
	12/1/2015	-	-	-	-	-	-	-	-	-	2,500
RW-30S	8/5/2015	-	-	-	-	-	-	-	-	-	890
	12/1/2015	-	-	-	-	-	-	-	-	-	1,300
RW-116S	8/5/2015	-	-	-	-	-	-	-	-	-	7,000
	12/2/2015	-	-	-	-	-	-	-	-	-	11,000
RW-117S	8/5/2015	-	-	-	-	-	-	-	-	-	6,600
	12/1/2015	-	-	-	-	-	-	-	-	-	13,000
RW-118S	8/5/2015	-	-	-	-	-	-	-	-	-	8,200
	12/2/2015	-	-	-	-	-	-	-	-	-	11,000

HISTORICAL GROUNDWATER ANALYTICAL DATA SUMMARY

PC #2013-3154
Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes, Total (µg/L)	Methyl tert-butyl ether (µg/L)	tert-Butyl alcohol (µg/L)	1,2-Dibromoethane (µg/L)	1,2-Dichloroethane (µg/L)	Naphthalene (µg/L)	TPH-DRO (µg/L)
RW-119S	8/5/2015	-	-	-	-	-	-	-	-	-	2,700
	12/2/2015	-	-	-	-	-	-	-	-	-	2,000
TW-01	12/16/2013	14.3	ND	13.1	63.5	1.55	-	-	-	119	14,100
	7/7/2014	-	-	-	-	-	-	-	-	-	27,400
TW-02	12/16/2013	ND	ND	ND	ND	0.791	-	-	-	ND	584
	7/7/2014	-	-	-	-	-	-	-	-	-	<1,160
	8/15/2014	-	-	-	-	-	-	-	-	-	<600
	10/23/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	-	60
	3/4/2015	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	0.20	<45
	5/13/2015	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<1	<45
	8/5/2015	-	-	-	-	-	-	-	-	-	<45
	12/3/2015	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	0.07	81 J
TW-03	12/16/2013	ND	ND	ND	ND	ND	-	-	-	ND	351
	7/7/2014	-	-	-	-	-	-	-	-	-	<1,160
	8/15/2014	-	-	-	-	-	-	-	-	-	<1,500
	10/23/2014	0.7	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	-	49
	3/4/2015	1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.030	180
	5/13/2015	1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<1	200
	8/5/2015	-	-	-	-	-	-	-	-	-	150
	12/2/2015	0.7 J	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.04	56 J

HISTORICAL GROUNDWATER ANALYTICAL DATA SUMMARY

PC #2013-3154
Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes, Total (µg/L)	Methyl tert-butyl ether (µg/L)	tert-Butyl alcohol (µg/L)	1,2-Dibromoethane (µg/L)	1,2-Dichloroethane (µg/L)	Naphthalene (µg/L)	TPH-DRO (µg/L)
TW-04	12/16/2013	2.2	ND	3.45	7.11	ND	-	-	-	27.7	2,000
	7/7/2014	-	-	-	-	-	-	-	-	-	1,270
	8/15/2014	-	-	-	-	-	-	-	-	-	1,610
	10/23/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	0.3	160
	3/4/2015	1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	1	940
	5/13/2015	1 J	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<1	700
	8/6/2015	-	-	-	-	-	-	-	-	-	1,000
	12/2/2015	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.04	280
TW-05	12/16/2013	7.68	ND	62.8	40.3	ND	-	-	-	240	136,000
	7/7/2014	-	-	-	-	-	-	-	-	-	66,300
	8/15/2014	-	-	-	-	-	-	-	-	-	271,000
	10/23/2014	4	<0.5	14	<0.5	<0.5	<2	<0.5	<0.5	21	29,000
	3/4/2015	2	<0.50	1	<0.5	<0.5	<2	<0.5	<0.5	3	2,200
	5/13/2015	3	<0.50	<0.50	<0.5	<0.5	<2	<0.5	<0.5	1 J	1,100
	8/6/2015	-	-	-	-	-	-	-	-	-	790
	12/1/2015	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.04	330
TW-06	12/16/2013	1.09	ND	20.3	7.86	ND	-	-	-	174	47,000
	7/7/2014	-	-	-	-	-	-	-	-	-	113,000
	8/15/2014	-	-	-	-	-	-	-	-	-	147,000
	10/23/2014	0.8	<0.5	11	1	<0.5	<2	<0.5	<0.5	5	16,000
	3/4/2015	2	<0.5	6	<0.5	<0.5	<2	<0.5	<0.5	2.2	2,200
	5/13/2015	2	<0.5	4	<0.5	<0.5	<2	<0.5	<0.5	4	2,300

HISTORICAL GROUNDWATER ANALYTICAL DATA SUMMARY

PC #2013-3154
Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes, Total (µg/L)	Methyl tert-butyl ether (µg/L)	tert-Butyl alcohol (µg/L)	1,2-Dibromoethane (µg/L)	1,2-Dichloroethane (µg/L)	Naphthalene (µg/L)	TPH-DRO (µg/L)
TW-06	8/6/2015	-	-	-	-	-	-	-	-	-	1,400
cont'd	12/2/2015	0.8 J	<0.5	1	<0.5	<0.5	<2	<0.5	<0.5	0.8	1,300
TW-07	12/16/2013	2.38	ND	0.969	ND	ND	-	-	-	34	3,290
	7/7/2014	-	-	-	-	-	-	-	-	-	41,500
	8/15/2014	-	-	-	-	-	-	-	-	-	19,600
	10/23/2014	2	<0.5	0.6	<0.5	<0.5	<2	<0.5	<0.5	6	4,700
	3/4/2015	9	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	2.2	670
	5/13/2015	10	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	3 J	320
	8/5/2015	-	-	-	-	-	-	-	-	-	220
	12/2/2015	3	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	1	110
TW-08S	7/7/2014	-	-	-	-	-	-	-	-	-	29,500
TW-09S	7/7/2014	-	-	-	-	-	-	-	-	-	2,330,000
TW-10	12/18/2013	2.51	ND	19.7	4.99	ND	-	-	-	131	3,040
	7/7/2014	-	-	-	-	-	-	-	-	-	23,400

HISTORICAL GROUNDWATER ANALYTICAL DATA SUMMARY

PC #2013-3154
Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes, Total (µg/L)	Methyl tert-butyl ether (µg/L)	tert-Butyl alcohol (µg/L)	1,2-Dibromoethane (µg/L)	1,2-Dichloroethane (µg/L)	Naphthalene (µg/L)	TPH-DRO (µg/L)
TW-11	12/18/2013	1.55	0.664	8.3	9.67	0.578	-	-	-	263	170,000
	7/7/2014	-	-	-	-	-	-	-	-	-	117,000
TW-13	12/18/2013	6.06	ND	44.5	137	ND	-	-	-	239	3,580
	7/7/2014	-	-	-	-	-	-	-	-	-	17,500
TW-14	1/17/2014	ND	ND	ND	ND	0.536	-	-	-	ND	2,290
	7/7/2014	-	-	-	-	-	-	-	-	-	16,000
	8/15/2014	-	-	-	-	-	-	-	-	-	3,900
	10/21/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	-	670
	2/26/2015	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.030	120
	5/12/2015	1.00	<0.5	<0.5	<0.5	<0.5	7.00	<0.5	<0.5	<1	2,000
	8/11/2015	-	-	-	-	-	-	-	-	-	3,700
	12/1/2015	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.04	<45

HISTORICAL GROUNDWATER ANALYTICAL DATA SUMMARY

PC #2013-3154
Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Notes:
During the 4th Quarter 2015 sampling event, MW-109S, MW-109, MW-110S, MW-110, MW-111, MW-112S, MW-112, MW-113, and MW-114 were not sampled, as their locations in the basement of the plant were inaccessible due to unsafe conditions. MW-01S, RW-05, MW-10S, MW-25S, RW-25, RW-51, and RW-25S were not sampled due to the presence of LNAPL. MW-108 was not sampled, as the well was dry. TW-12S was not sampled, as the well contained an insufficient volume of water.

-	= Not available
<#	= Less than the method detection limit
µg/L	= Micrograms per liter
J	= Detected between the Method Detection Limit and the Reporting Limit; therefore, result is an estimated value.
ND	= Non-detect
TPH-DRO	= Total Petroleum Hydrocarbons, Diesel Range Organics C10-C28

Table 6

HISTORICAL GROUNDWATER BIOSTIMULATION ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Sample Date	Methane (µg/L)	Sulfate as SO4 (mg/L)	Nitrate Nitrogen (mg/L)	Nitrite Nitrogen (mg/L)	Alkalinity, Carbonate (mg/L as CaCO3)	Ferrous Iron (mg/L)	Manganese (mg/L)
MW-01S	10/22/2014	4200	130	0.044 J	0.037 J	306	31.4	-
MW-10S	10/22/2014	1,100	33.1	<0.040	0.037 J	461	62.8	-
MW-11	10/22/2014	120	71.9	<0.040	<0.015	55	0.059	-
	2/26/2015	200	79.8	<0.040	<0.015	39	0.37	1.64
	5/12/2015	280	70.5	<0.040	<0.015	40.8	0.75	1.73
	8/6/2015	450	118	<0.040	0.049 J	356	21.9	5.67
MW-14	2/25/2015	230	51.4	0.7	<0.015	63	2.5	8.66
	5/12/2015	660	44.3	0.6	0.023 J	76.8	6.3	8.54
	8/6/2015	1,800	45.9	0.15	0.11	304	18	15.1
MW-27	12/3/2015	2,500	112	<0.040	<0.015	424	33.4	10.9
MW-31 / RW-31	10/23/2014	4,300	57.2	<0.040	<0.015	416	2.6	-
	2/25/2015	5,000	69.7	<0.040	<0.015	487	9.3	9.84
	5/13/2015	5,700	70.1	<0.040	<0.015	510	15.4	10.8
	8/5/2015	5,400	85.3	<0.040	<0.015	482	10	5.52
MW-33	10/23/2014	43	253	1.9	<0.015	119	0.068	-
	2/25/2015	9.8	235	2.5	<0.015	55.6	0.030 J	1.23
	5/13/2015	7.3	254	2	<0.015	81.7	0.075	0.975
	8/5/2015	17	253	1.8	<0.015	97.7	<0.010	0.605
MW-51S	10/22/2014	7,100	36.3	0.047 J	<0.015	564	28.7	-
	2/26/2015	8,900	6.2	<0.040	0.12	518	82.4	4.49
	5/13/2015	11,000	<1.5	<0.040	0.2	676	77.3	1.74
	8/6/2015	10,000	26.1	<0.040	0.046	480	48.3	1.03
MW-70	2/26/2015	<3.0	361	0.71	<0.015	35.1	0.048 J	2.62
	5/12/2015	3.4 J	357	0.7	<0.015	40.7	<0.50	6.13
	8/6/2015	<3.0	365	0.73	<0.015	29.6	0.089	1.29
MW-72S	10/22/2014	4,400	80.3	0.093 J	0.019 J	328	9.1	-
	2/25/2015	3,600	64.5	<0.040	<0.015	615	16.7	8.49
	5/13/2015	4,100	130	<0.040	0.097	597	24.6	8.46
	8/5/2015	2,300	207	<0.040	0.067	697	30.7	11.7

Table 6

HISTORICAL GROUNDWATER BIOSTIMULATION ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Sample Date	Methane (µg/L)	Sulfate as SO4 (mg/L)	Nitrate Nitrogen (mg/L)	Nitrite Nitrogen (mg/L)	Alkalinity, Carbonate (mg/L as CaCO3)	Ferrous Iron (mg/L)	Manganese (mg/L)
MW-72 / RW-72	10/22/2014	2,200	389	<0.040	<0.015	65.5	0.33	-
	2/25/2015	490	396	<0.040	<0.015	72.7	4.8	18.8
	5/13/2015	540	434	<0.040	0.057	101	10.8	17.5
	8/5/2015	1,400	393	<0.040	<0.015	548	14.3	13.5
MW-106	2/25/2015	260	1600	<0.040	0.021 J	<7.0	122	2.23
	5/12/2015	960	1160	<0.040	0.15	<0.70	50.1	1.49
	8/5/2015	2,100	1,010	<0.040	<0.015	35.1	32.7	1.38
MW-109S	10/20/2014	1,000	18.8	<0.040	0.037 J	368	8	-
	2/26/2015	140	55.4	<0.040	<0.015	196	3.1	2.64
	5/12/2015	11	62.7	<0.040	<0.015	126	0.5	2.34
MW-112S	10/20/2014	4.1 J	99	0.71	<0.015	25	0.13	-
	2/26/2015	<3.0	86.7	2.3	<0.015	13.3	0.029 J	0.649
	5/12/2015	<3.0	98.9	2.5	<0.015	13.8	<0.010	0.597
MW-114	10/20/2014	16	40.5	1.5	0.16	66.7	0.066	-
	2/26/2015	<3.0	42.7	1.7	<0.015	68	0.016 J	0.102
	5/12/2015	<3.0	42.4	1.7	<0.015	68.2	0.035 J	0.0465
MW-121	12/2/2015	12,000	38.7	<0.040	0.033 J	353	66.7	28
MW-122	12/2/2015	1,000	94.3	<0.040	<0.015	451	7.2	13.1
TW-03	3/4/2015	2,500	269	<0.040	0.083	49.7	29.7	5.24
	5/13/2015	2,200	298	<0.040	0.13	39	24.6	4.32
	8/6/2015	1,800	289	<0.040	0.07	<0.70	32.3	4.61
TW-05	3/4/2015	2,800	367	<0.040	0.13	89.4	72.6	5.28
	5/13/2015	1,300	463	0.052 J	0.18	66.2	58.6	4.77
	8/6/2015	3,000	388	-	-	-	-	-
	8/13/2015	-	-	<0.040	0.091	16.1	84.5	3.55
TW-06	12/2/2015	7,000	279	<0.040	0.027 J	194	58.4	1.93
TW-07	3/4/2015	1,300	258	<0.040	0.034 J	1.6 J	14.1	4.3
	5/13/2015	800	323	<0.040	0.046 J	1.1 J	9.5	5.62
	8/6/2015	2,700	304	<0.040	0.018 J	2.7	8.7	4.51

Table 6

HISTORICAL GROUNDWATER BIOSTIMULATION ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Notes:

J = Detected between the Method Detection Limit and the Reporting Limit; therefore, the result is an estimated value.
<# = Less than the method detection limit of #
µg/L = Micrograms per liter
mg/L = Milligrams per liter

ATTACHMENTS

ATTACHMENT A

Certificate of Recycling

CLEANEARTH
Faster, smarter, greener solutions.

psid # 562409
recd. 10-26-15

Certificate of Recycling

10/22/2015

GROUNDWATER & ENVIRONMENTAL
GRO036

Clean Earth hereby certifies that **14.89** Tons of non-hazardous contaminated material was received in **2** truck(s) by Clean Earth of Greater Washington, LLC.

Generator: NRG Potomac River LLC
8301 Professional Pl Suite 230
Landover, MD 20785

Facility Approval#: 143190087

Job Site: 134336
NRG Potomac River LLC
1400 North Royal Street
Alexandria, VA 22314

Waste processing and recycling is performed in accordance with State of Maryland Permit 2013-OPS-16102A at Clean Earth of Greater Washington, LLC.

Digitally signed by Paul Lane, Facility Manager
Date: 2015.10.22 10:37:56 -04'00'

Authorized Signature

Reference Work Order No. 245592
Subcontract Agreement No. 00846-00
GES Project #0402859 Phase 11106 Task M1311
Reference Invoice #PSI0067574
loads received July 8-14, 2015

ATTACHMENT B

Laboratory Analytical Reports and Chain of Custody Documentation

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

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

December 14, 2015

Project: NRG PRGS

Submittal Date: 12/02/2015
Group Number: 1613712
PO Number: NRG PRGS
Release Number: 0402947
State of Sample Origin: VA

Client Sample Description	Lancaster Labs (LL) #
RW-117S Grab Groundwater	8157103
MW-123S Grab Groundwater	8157104
RW-30S Grab Groundwater	8157105
RW-28S Grab Groundwater	8157106
MW-15S Grab Groundwater	8157107
TB1-12115 Water	8157108
TW-05 Grab Groundwater	8157109
TW-14 Grab Groundwater	8157110

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

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

ELECTRONIC COPY TO	GES	Attn: Greg Reichart
ELECTRONIC COPY TO	GES, Inc.-MD	Attn: Anne Ashley Bell
ELECTRONIC COPY TO	GES, Inc.-MD	Attn: Data Distribution

Respectfully Submitted,

Kaitlin N. Plasterer
Specialist

(717) 556-7323

Sample Description: RW-117S Grab Groundwater
NRG PRGS

LL Sample # WW 8157103
LL Group # 1613712
Account # 08390

Project Name: NRG PRGS

Collected: 12/01/2015 14:15 by LK

Submitted: 12/02/2015 16:45
Reported: 12/14/2015 11:13

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

R117S

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.	13,000	45	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12858	DRO micro-ext 8015B	SW-846 8015B	1	153380005A	12/07/2015 17:20	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	153380005A	12/05/2015 08:04	Maria Davenport	1

Sample Description: MW-123S Grab Groundwater
NRG PRGS

LL Sample # WW 8157104
LL Group # 1613712
Account # 08390

Project Name: NRG PRGS

Collected: 12/01/2015 14:30 by LK

Submitted: 12/02/2015 16:45
Reported: 12/14/2015 11:13

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

M123S

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	2,500	45	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12858	DRO micro-ext 8015B	SW-846 8015B	1	153380005A	12/07/2015 17:44	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	153380005A	12/05/2015 08:04	Maria Davenport	1

Sample Description: RW-30S Grab Groundwater
NRG PRGS

LL Sample # WW 8157105
LL Group # 1613712
Account # 08390

Project Name: NRG PRGS

Collected: 12/01/2015 14:40 by LK

Submitted: 12/02/2015 16:45
Reported: 12/14/2015 11:13

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

RW30S

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

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12858	DRO micro-ext 8015B	SW-846 8015B	1	153380005A	12/07/2015 18:07	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	153380005A	12/05/2015 08:04	Maria Davenport	1

Sample Description: RW-28S Grab Groundwater
NRG PRGS

LL Sample # WW 8157106
LL Group # 1613712
Account # 08390

Project Name: NRG PRGS

Collected: 12/01/2015 14:45 by LK

Submitted: 12/02/2015 16:45
Reported: 12/14/2015 11:13

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

RW28S

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	2,500	45	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12858	DRO micro-ext 8015B	SW-846 8015B	1	153380005A	12/07/2015 18:30	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	153380005A	12/05/2015 08:04	Maria Davenport	1

Sample Description: MW-15S Grab Groundwater
NRG PRGS

LL Sample # WW 8157107
LL Group # 1613712
Account # 08390

Project Name: NRG PRGS

Collected: 12/01/2015 14:38 by LK

Submitted: 12/02/2015 16:45
Reported: 12/14/2015 11:13

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

MW15S

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	4,200	45	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12858	DRO micro-ext 8015B	SW-846 8015B	1	153380005A	12/07/2015 18:53	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	153380005A	12/05/2015 08:04	Maria Davenport	1

Sample Description: TB1-12115 Water
NRG PRGS

LL Sample # WW 8157108
LL Group # 1613712
Account # 08390

Project Name: NRG PRGS

Collected: 12/01/2015 14:00

Submitted: 12/02/2015 16:45
Reported: 12/14/2015 11:13

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

NRGT1

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

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX & Naphthalene 8260B	SW-846 8260B	1	Z153421AA	12/08/2015 12:49	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z153421AA	12/08/2015 12:49	Daniel H Heller	1

Sample Description: TW-05 Grab Groundwater
NRG PRGS

LL Sample # WW 8157109
LL Group # 1613712
Account # 08390

Project Name: NRG PRGS

Collected: 12/01/2015 14:31 by LK

Submitted: 12/02/2015 16:45
Reported: 12/14/2015 11:13

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

TW-05

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	330	45	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12858	DRO micro-ext 8015B	SW-846 8015B	1	153380005A	12/07/2015 19:17	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	153380005A	12/05/2015 08:04	Maria Davenport	1

Sample Description: TW-14 Grab Groundwater
NRG PRGS

LL Sample # WW 8157110
LL Group # 1613712
Account # 08390

Project Name: NRG PRGS

Collected: 12/01/2015 12:10 by LK

Submitted: 12/02/2015 16:45
Reported: 12/14/2015 11:13

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

TW-14

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

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12858	DRO micro-ext 8015B	SW-846 8015B	1	153380005A	12/07/2015 19:40	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	153380005A	12/05/2015 08:04	Maria Davenport	1

Quality Control Summary

Client Name: GES, Inc. Group Number: 1613712
Reported: 12/14/2015 11:13

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.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: Z153421AA	Sample number(s): 8157108							
Benzene	N.D.	0.5	ug/l	92		78-120		
Ethylbenzene	N.D.	0.5	ug/l	95		78-120		
Naphthalene	N.D.	1.	ug/l	79		59-120		
Toluene	N.D.	0.5	ug/l	96		80-120		
Xylene (Total)	N.D.	0.5	ug/l	97		80-120		
Batch number: 153380005A	Sample number(s): 8157103-8157107,8157109-8157110							
DRO C10-C28	N.D.	45.	ug/l	79	78	69-115	2	20

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: Z153421AA	Sample number(s): 8157108 UNSPK: P156142								
Benzene	98	100	78-120	2	30				
Ethylbenzene	101	102	78-120	2	30				
Naphthalene	94	98	59-120	4	30				
Toluene	99	99	80-120	0	30				
Xylene (Total)	103	102	80-120	1	30				

Surrogate Quality Control

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

Analysis Name: BTEX & Naphthalene 8260B
Batch number: Z153421AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
8157108	108	102	96	93
Blank	108	100	96	93
LCS	105	98	97	98

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

Quality Control Summary

Client Name: GES, Inc. Group Number: 1613712
Reported: 12/14/2015 11:13

Surrogate Quality Control

MS	105	100	97	98
MSD	106	102	96	97
Limits:	80-116	77-113	80-113	78-113

Analysis Name: DRO micro-ext 8015B
Batch number: 153380005A

	Orthoterphenyl
8157103	57
8157104	96
8157105	102
8157106	94
8157107	37*
8157109	89
8157110	91
Blank	92
LCS	85
LCSD	81
Limits:	42-160

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

Environmental Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories Environmental

Acct. # 8390 Group # 613712 Sample # 8157103-10

| | | |

eurofins | Lancaster Laboratories Environmental

Sample Administration Receipt Documentation Log

Doc Log ID: 127757

Group Number(s): 613712

Client: GES

Delivery and Receipt Information

Delivery Method:	ELLE Courier	Arrival Timestamp:	12/02/2015 16:45
Number of Packages:	1	Number of Projects:	1
State/Province of Origin:	VI		

Arrival Condition Summary

Shipping Container Sealed:	No	Sample IDs on COC match Containers:	No
Custody Seal Present:	No	Sample Date/Times match COC:	Yes
Samples Chilled:	Yes	VOA Vial Headspace ≥ 6mm:	No
Paperwork Enclosed:	Yes	Total Trip Blank Qty:	1
Samples Intact:	Yes	Trip Blank Type:	HCl
Missing Samples:	No	Air Quality Samples Present:	No
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Jordan Woods (6698) at 17:16 on 12/02/2015

Samples Chilled Details

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

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	DT146	0.4	DT	Wet	Y	Bagged	N

Sample ID Discrepancy Details

Sample ID on COC	Sample ID on Label	Comments
TW-14	TW-114	

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

Explanation of Symbols and Abbreviations

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

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

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

Laboratory Data Qualifiers:

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

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

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

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

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

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

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

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

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

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

December 17, 2015

Project: NRG PRGS

Submittal Date: 12/03/2015
Group Number: 1614172
PO Number: NRG PRGS
Release Number: 0402947
State of Sample Origin: VA

Client Sample Description	Lancaster Labs (LL) #
RW-116S Grab Groundwater	8159480
MW-122 Grab Groundwater	8159481
RW-1 Grab Groundwater	8159482
MW-08S Grab Groundwater	8159483
MW-14 Grab Groundwater	8159484
RW-118S Grab Groundwater	8159485
TB1-12215 Water	8159486
TW-04 Grab Groundwater	8159487
TW-07 Grab Groundwater	8159488

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

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

ELECTRONIC COPY TO	GES	Attn: Greg Reichart
ELECTRONIC COPY TO	GES, Inc.-MD	Attn: Anne Ashley Bell
ELECTRONIC COPY TO	GES, Inc.-MD	Attn: Data Distribution

Respectfully Submitted,

Kaitlin N. Plasterer
Specialist

(717) 556-7323

eurofins | Lancaster Laboratories Environmental

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

Analysis Report

Sample Description: RW-116S Grab Groundwater
NRG PRGS

LL Sample # WW 8159480
LL Group # 1614172
Account # 08390

Project Name: NRG PRGS

Collected: 12/02/2015 10:30 by LK

Submitted: 12/03/2015 16:08
Reported: 12/17/2015 07:10

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

RW116

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

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12858	DRO micro-ext 8015B	SW-846 8015B	1	153410022A	12/09/2015 15:59	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	153410022A	12/08/2015 09:20	Maria Davenport	1

Sample Description: MW-122 Grab Groundwater
NRG PRGS

LL Sample # WW 8159481
LL Group # 1614172
Account # 08390

Project Name: NRG PRGS

Collected: 12/02/2015 10:45 by LK

Submitted: 12/03/2015 16:08
Reported: 12/17/2015 07:10

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

MW122

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10945	Benzene	71-43-2	1	0.5	1
10945	Ethylbenzene	100-41-4	8	0.5	1
10945	Naphthalene	91-20-3	N.D.	1	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Miscellaneous	**RSKSOP-175 modified**		**ug/l**	**ug/l**	
07105	Methane	74-82-8	1,000	15	5
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	1,600	45	1
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	
07058	Manganese	7439-96-5	13.1	0.0016	2
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	
00228	Sulfate	14808-79-8	94.3	6.0	20
	EPA 353.2		**mg/l**	**mg/l**	
00220	Nitrate Nitrogen	14797-55-8	N.D.	0.040	1
00219	Nitrite Nitrogen	14797-65-0	N.D.	0.015	1
	SM 2320 B-1997		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5	n.a.	451	0.70	1
	SM 3500-Fe B 1997		**mg/l**	**mg/l**	
08344	Ferrous Iron	n.a.	7.2	0.50	50

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX & Naphthalene 8260B	SW-846 8260B	1	F153412AA	12/08/2015 01:13	Hu Yang	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F153412AA	12/08/2015 01:13	Hu Yang	1
07105	Methane	RSKSOP-175 modified	1	153380034A	12/07/2015 16:52	Christine E Dolman	5
12858	DRO micro-ext 8015B	SW-846 8015B	1	153410022A	12/09/2015 16:23	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	153410022A	12/08/2015 09:20	Maria Davenport	1

Sample Description: MW-122 Grab Groundwater
NRG PRGS

LL Sample # WW 8159481
LL Group # 1614172
Account # 08390

Project Name: NRG PRGS

Collected: 12/02/2015 10:45 by LK

Submitted: 12/03/2015 16:08
Reported: 12/17/2015 07:10

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

MW122

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07058	Manganese	SW-846 6010B	1	153411848002	12/16/2015 21:16	Suzanne M Will	2
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	153411848002	12/08/2015 18:32	James L Mertz	1
00228	Sulfate	EPA 300.0	1	15340667121A	12/06/2015 18:21	Drew M Gerhart	20
00220	Nitrate Nitrogen	EPA 353.2	1	15341106101B	12/07/2015 10:52	Joseph E McKenzie	1
00219	Nitrite Nitrogen	EPA 353.2	1	15337105102A	12/03/2015 18:25	Venia B McFadden	1
12150	Total Alkalinity to pH 4.5	SM 2320 B-1997	1	15338013105A	12/05/2015 01:00	Michele L Graham	1
08344	Ferrous Iron	SM 3500-Fe B 1997	1	15346834401A	12/12/2015 04:35	Daniel S Smith	50

Sample Description: RW-1 Grab Groundwater
NRG PRGS

LL Sample # WW 8159482
LL Group # 1614172
Account # 08390

Project Name: NRG PRGS

Collected: 12/02/2015 11:00 by LK

Submitted: 12/03/2015 16:08
Reported: 12/17/2015 07:10

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

RW--1

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	4,300	45	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12858	DRO micro-ext 8015B	SW-846 8015B	1	153410022A	12/09/2015 16:46	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	153410022A	12/08/2015 09:20	Maria Davenport	1

Sample Description: MW-08S Grab Groundwater
NRG PRGS

LL Sample # WW 8159483
LL Group # 1614172
Account # 08390

Project Name: NRG PRGS

Collected: 12/02/2015 13:30 by LK

Submitted: 12/03/2015 16:08
Reported: 12/17/2015 07:10

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

MW08S

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10945	Benzene	71-43-2	61	0.5	1
10945	Ethylbenzene	100-41-4	5	0.5	1
10945	Naphthalene	91-20-3	30	1	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	48	0.5	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	15,000	45	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX & Naphthalene 8260B	SW-846 8260B	1	F153412AA	12/08/2015 01:35	Hu Yang	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F153412AA	12/08/2015 01:35	Hu Yang	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	153410022A	12/09/2015 17:10	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	153410022A	12/08/2015 09:20	Maria Davenport	1

Sample Description: MW-14 Grab Groundwater
NRG PRGS

LL Sample # WW 8159484
LL Group # 1614172
Account # 08390

Project Name: NRG PRGS

Collected: 12/02/2015 13:45 by LK

Submitted: 12/03/2015 16:08
Reported: 12/17/2015 07:10

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

MW-14

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

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12858	DRO micro-ext 8015B	SW-846 8015B	1	153410022A	12/09/2015 17:33	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	153410022A	12/08/2015 09:20	Maria Davenport	1

Sample Description: RW-118S Grab Groundwater
NRG PRGS

LL Sample # WW 8159485
LL Group # 1614172
Account # 08390

Project Name: NRG PRGS

Collected: 12/02/2015 14:15 by LK

Submitted: 12/03/2015 16:08
Reported: 12/17/2015 07:10

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

RW118

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

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12858	DRO micro-ext 8015B	SW-846 8015B	1	153410022A	12/09/2015 17:57	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	153410022A	12/08/2015 09:20	Maria Davenport	1

Sample Description: TB1-12215 Water
NRG PRGS

LL Sample # WW 8159486
LL Group # 1614172
Account # 08390

Project Name: NRG PRGS

Collected: 12/02/2015 09:00

Submitted: 12/03/2015 16:08
Reported: 12/17/2015 07:10

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

1-NRG

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

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX & Naphthalene 8260B	SW-846 8260B	1	F153412AA	12/07/2015 20:51	Hu Yang	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F153412AA	12/07/2015 20:51	Hu Yang	1

Sample Description: TW-04 Grab Groundwater
NRG PRGS

LL Sample # WW 8159487
LL Group # 1614172
Account # 08390

Project Name: NRG PRGS

Collected: 12/02/2015 10:00 by LK

Submitted: 12/03/2015 16:08
Reported: 12/17/2015 07:10

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

TW-04

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	280	45	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12858	DRO micro-ext 8015B	SW-846 8015B	1	153410022A	12/09/2015 19:17	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	153410022A	12/08/2015 09:20	Maria Davenport	1

Sample Description: TW-07 Grab Groundwater
NRG PRGS

LL Sample # WW 8159488
LL Group # 1614172
Account # 08390

Project Name: NRG PRGS

Collected: 12/02/2015 12:40 by LK

Submitted: 12/03/2015 16:08
Reported: 12/17/2015 07:10

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

TW-07

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons		**SW-846 8015B**	**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	110	45	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12858	DRO micro-ext 8015B	SW-846 8015B	1	153410022A	12/09/2015 19:41	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	153410022A	12/08/2015 09:20	Maria Davenport	1

Quality Control Summary

Client Name: GES, Inc. Group Number: 1614172
Reported: 12/17/2015 07:10

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.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: F153412AA	Sample number(s): 8159481,8159483,8159486							
Benzene	N.D.	0.5	ug/l	93	91	78-120	2	30
Ethylbenzene	N.D.	0.5	ug/l	95	90	78-120	6	30
Naphthalene	N.D.	1.	ug/l	85	88	59-120	3	30
Toluene	N.D.	0.5	ug/l	98	91	80-120	7	30
Xylene (Total)	N.D.	0.5	ug/l	97	92	80-120	5	30
Batch number: 153380034A	Sample number(s): 8159481							
Methane	N.D.	3.0	ug/l	105		85-115		
Batch number: 153410022A	Sample number(s): 8159480-8159485,8159487-8159488							
DRO C10-C28	N.D.	45.	ug/l	69	72	69-115	3	20
Batch number: 153411848002	Sample number(s): 8159481							
Manganese	N.D.	0.00080	mg/l	105		80-120		
Batch number: 15337105102A	Sample number(s): 8159481							
Nitrite Nitrogen	N.D.	0.015	mg/l	99		90-110		
Batch number: 15340667121A	Sample number(s): 8159481							
Sulfate	N.D.	0.30	mg/l	98		90-110		
Batch number: 15341106101B	Sample number(s): 8159481							
Nitrate Nitrogen	N.D.	0.040	mg/l	102		90-110		
Batch number: 15338013105A	Sample number(s): 8159481							
Total Alkalinity to pH 4.5	N.D.	0.70	mg/l as CaCO3	100		90-110		
Batch number: 15346834401A	Sample number(s): 8159481							
Ferrous Iron	N.D.	0.010	mg/l	97		93-105		

Sample Matrix Quality Control

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

	MS	MSD	MS/MSD	RPD	BKG	DUP	DUP	Dup RPD

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

Quality Control Summary

Client Name: GES, Inc. Group Number: 1614172
Reported: 12/17/2015 07:10

Analysis Name	%REC	%REC	Limits	RPD	MAX	Conc	Conc	RPD	Max
Batch number: 153380034A	Sample number(s): 8159481 UNSPK: P158394								
Methane	101	102	85-115	1	20				
Batch number: 153411848002	Sample number(s): 8159481 UNSPK: P158575 BKG: P158575								
Manganese	94	101	75-125	2	20	1.26	1.26	0	20
Batch number: 15337105102A	Sample number(s): 8159481 UNSPK: 8159481 BKG: 8159481								
Nitrite Nitrogen	103		90-110			N.D.	N.D.	0 (1)	20
Batch number: 15340667121A	Sample number(s): 8159481 UNSPK: P160611 BKG: P160611								
Sulfate	104		90-110			267	266	0	15
Batch number: 15341106101B	Sample number(s): 8159481 UNSPK: P157803 BKG: P157803								
Nitrate Nitrogen	65*		90-110			N.D.	N.D.	0 (1)	2
Batch number: 15338013105A	Sample number(s): 8159481 UNSPK: P160084 BKG: P160084								
Total Alkalinity to pH 4.5	89*		90-110			60.0	59.5	1	5
Batch number: 15346834401A	Sample number(s): 8159481 UNSPK: P161432 BKG: P161432								
Ferrous Iron	96	92*	93-105	2	6	33.4	34.4	3	5

Surrogate Quality Control

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

Analysis Name: BTEX & Naphthalene 8260B
Batch number: F153412AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
8159481	96	101	106	94
8159483	95	99	104	98
8159486	96	98	99	90
Blank	97	98	103	92
LCS	96	103	105	96
LCSD	96	101	104	96
Limits:	80-116	77-113	80-113	78-113

Analysis Name: Methane
Batch number: 153380034A

	Propene
8159481	84
Blank	100
LCS	102
MS	85
MSD	85
Limits:	44-123

Analysis Name: DRO micro-ext 8015B
Batch number: 153410022A

	Orthoterphenyl

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

Quality Control Summary

Client Name: GES, Inc. Group Number: 1614172
Reported: 12/17/2015 07:10

Surrogate Quality Control

8159480	56
8159481	96
8159482	74
8159483	102
8159484	90
8159485	69
8159487	92
8159488	81
Blank	94
LCS	92
LCSD	85
Limits:	42-160

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

Environmental Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories Environmental

Acct. # 8390 Group # 1614172 Sample # 8159480-88

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

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

Project Manager: Ashley Bell | P.O. #: 0402947

Sampler: Lindsay Keeney | PWSID #:

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

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

Matrix: 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 C10-C28 (SW-846 8015B) — H	BTEX, Naphthalene (SW-846 8260B) — H	Alkalinity (SM 2320B) — None	Nitrate NO3 -1 (EPA 353.2) — S	Manganese Mn2+ (EPA 6010B) — N	Ferrous Iron Fe2+ (SM 3500-Fe B modified-1997) — H	Sulfate SO42- (EPA 300.0) — None	Methane (RSKSOP-175 modified) — H
RW-1165	12-2-15	1030	X		2	X							
MW-122		1045	X		13	X	X	X	X	X	X	X	X
RW-1		1100	X		2	X							
MW-08S		1330	X		5	X	X						
MW-14		1345	X		2	X							
RW-118S		1415	X		2	X							
TB1-12215		0900	X		2		X						
TW-04		1000	X		2	X							
TW-07		1240	X		2	X							

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

Remarks

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

Phone:

Data Package Options (please check if required)

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

Type III (Reduced non-CLP) ☐ CT RCP ☐

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

NYSDEC Category ☐ A or ☐ B

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

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

Relinquished by:	Date	Time	Received by:	Date	Time
	12-3-15	0700	Denise Woodring	12-3-15	0900
Denise Woodring	12-3-15	12:23		12-3-15	1223
	12-3-15	1608			
				12/3/15	1608

Relinquished by Commercial Carrier:

UPS _____ FedEx _____ Other _____

Temperature upon receipt 3.8 °C

Eurofins Lancaster Laboratories Environmental, LLC • 2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300

7045 0614

eurofins | Lancaster Laboratories Environmental

Sample Administration Receipt Documentation Log

Doc Log ID: 128098

Group Number(s): 1614172

Client: GES

Delivery and Receipt Information

Delivery Method:	ELLE Courier	Arrival Timestamp:	12/03/2015 16:08
Number of Packages:	1	Number of Projects:	2
State/Province of Origin:	VA		

Arrival Condition Summary

Shipping Container Sealed:	No	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	No	Sample Date/Times match COC:	Yes
Samples Chilled:	Yes	VOA Vial Headspace ≥ 6mm:	No
Paperwork Enclosed:	Yes	Total Trip Blank Qty:	2
Samples Intact:	Yes	Trip Blank Type:	HCl
Missing Samples:	No	Air Quality Samples Present:	No
Extra Samples:	No		
Discrepancy in Container Qty on COC:	Yes		

Unpacked by Jordan Woods (6698) at 16:44 on 12/03/2015

Samples Chilled Details

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

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	DT146	3.8	DT	Wet	Y	Bagged	N

Container Quantity Discrepancy Details

Sample ID on COC	Container Qty. Received	Container Qty. on COC	Comments
MW-121	13	11	
TW-06	10	8	

2425 New Holland Pike
Lancaster, PA 17605-2425

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

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Explanation of Symbols and Abbreviations

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

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

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

Laboratory Data Qualifiers:

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

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

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

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

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

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

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

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

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

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

December 17, 2015

Project: NRG PRGS

Submittal Date: 12/03/2015
Group Number: 1614173
PO Number: NRG PRGS
Release Number: 0402947
State of Sample Origin: VA

Client Sample Description	Lancaster Labs (LL) #
MW-121 Grab Groundwater	8159489
RW-05S Grab Groundwater	8159490
MW-11 Grab Groundwater	8159491
MW-51S Grab Groundwater	8159492
RW-119S Grab Groundwater	8159493
TW-06 Grab Groundwater	8159494
TW-03 Grab Groundwater	8159495

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

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

ELECTRONIC COPY TO	GES, Inc.-MD	Attn: Anne Ashley Bell
ELECTRONIC COPY TO	GES, Inc.-MD	Attn: Data Distribution

Respectfully Submitted,

Kaitlin N. Plasterer
Specialist

(717) 556-7323

Sample Description: MW-121 Grab Groundwater
NRG PRGS

LL Sample # WW 8159489
LL Group # 1614173
Account # 08390

Project Name: NRG PRGS

Collected: 12/02/2015 10:15 by KM

Submitted: 12/03/2015 16:08
Reported: 12/17/2015 07:10

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

MW121

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10945	Benzene	71-43-2	2	0.5	1
10945	Ethylbenzene	100-41-4	8	0.5	1
10945	Naphthalene	91-20-3	41	1	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Miscellaneous	**RSKSOP-175 modified**		**ug/l**	**ug/l**	
07105	Methane	74-82-8	12,000	300	100
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	4,500	45	1
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	
07058	Manganese	7439-96-5	28.0	0.0040	5
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	
00228	Sulfate	14808-79-8	38.7	6.0	20
	EPA 353.2		**mg/l**	**mg/l**	
00220	Nitrate Nitrogen	14797-55-8	N.D.	0.040	1
00219	Nitrite Nitrogen	14797-65-0	0.033 J	0.015	1
	SM 2320 B-1997		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5	n.a.	353	0.70	1
	SM 3500-Fe B 1997		**mg/l**	**mg/l**	
08344	Ferrous Iron	n.a.	66.7	1.0	100

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX & Naphthalene 8260B	SW-846 8260B	1	F153412AA	12/08/2015 01:56	Hu Yang	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F153412AA	12/08/2015 01:56	Hu Yang	1
07105	Methane	RSKSOP-175 modified	1	153380034A	12/07/2015 17:10	Christine E Dolman	100
12858	DRO micro-ext 8015B	SW-846 8015B	1	153410022A	12/09/2015 20:04	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	153410022A	12/08/2015 09:20	Maria Davenport	1

Sample Description: MW-121 Grab Groundwater
NRG PRGS

LL Sample # WW 8159489
LL Group # 1614173
Account # 08390

Project Name: NRG PRGS

Collected: 12/02/2015 10:15 by KM

Submitted: 12/03/2015 16:08
Reported: 12/17/2015 07:10

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

MW121

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07058	Manganese	SW-846 6010B	1	153411848002	12/16/2015 21:19	Suzanne M Will	5
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	153411848002	12/08/2015 18:32	James L Mertz	1
00228	Sulfate	EPA 300.0	1	15340667121A	12/06/2015 18:38	Drew M Gerhart	20
00220	Nitrate Nitrogen	EPA 353.2	1	15341106102B	12/07/2015 11:27	Joseph E McKenzie	1
00219	Nitrite Nitrogen	EPA 353.2	1	15337105102A	12/03/2015 18:29	Venia B McFadden	1
12150	Total Alkalinity to pH 4.5	SM 2320 B-1997	1	15338013104A	12/04/2015 21:36	Michele L Graham	1
08344	Ferrous Iron	SM 3500-Fe B 1997	1	15346834401A	12/12/2015 04:35	Daniel S Smith	100

Sample Description: RW-05S Grab Groundwater
NRG PRGS

LL Sample # WW 8159490
LL Group # 1614173
Account # 08390

Project Name: NRG PRGS

Collected: 12/02/2015 10:55 by KM

Submitted: 12/03/2015 16:08
Reported: 12/17/2015 07:10

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

RW05S

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	17,000	45	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12858	DRO micro-ext 8015B	SW-846 8015B	1	153410022A	12/09/2015 20:28	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	153410022A	12/08/2015 09:20	Maria Davenport	1

Sample Description: MW-11 Grab Groundwater
NRG PRGS

LL Sample # WW 8159491
LL Group # 1614173
Account # 08390

Project Name: NRG PRGS

Collected: 12/02/2015 12:20 by KM

Submitted: 12/03/2015 16:08
Reported: 12/17/2015 07:10

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

MW-11

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

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12858	DRO micro-ext 8015B	SW-846 8015B	1	153410022A	12/09/2015 20:51	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	153410022A	12/08/2015 09:20	Maria Davenport	1

Sample Description: MW-51S Grab Groundwater
NRG PRGS

LL Sample # WW 8159492
LL Group # 1614173
Account # 08390

Project Name: NRG PRGS

Collected: 12/02/2015 13:20 by KM

Submitted: 12/03/2015 16:08
Reported: 12/17/2015 07:10

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

MW51S

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.	14,000	45	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12858	DRO micro-ext 8015B	SW-846 8015B	1	153410022A	12/09/2015 21:15	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	153410022A	12/08/2015 09:20	Maria Davenport	1

Sample Description: RW-119S Grab Groundwater
NRG PRGS

LL Sample # WW 8159493
LL Group # 1614173
Account # 08390

Project Name: NRG PRGS

Collected: 12/02/2015 14:10 by KM

Submitted: 12/03/2015 16:08
Reported: 12/17/2015 07:10

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

RW119

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

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12858	DRO micro-ext 8015B	SW-846 8015B	1	153410022A	12/09/2015 21:39	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	153410022A	12/08/2015 09:20	Maria Davenport	1

Sample Description: TW-06 Grab Groundwater
NRG PRGS

LL Sample # WW 8159494
LL Group # 1614173
Account # 08390

Project Name: NRG PRGS

Collected: 12/02/2015 14:45 by KM

Submitted: 12/03/2015 16:08
Reported: 12/17/2015 07:10

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

TW-06

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Miscellaneous	**RSKSOP-175 modified**		**ug/l**	**ug/l**	
07105	Methane	74-82-8	7,000	150	50
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	1,300	45	1
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	
07058	Manganese	7439-96-5	1.93	0.00080	1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	
00228	Sulfate	14808-79-8	279	15.0	50
	EPA 353.2		**mg/l**	**mg/l**	
00220	Nitrate Nitrogen	14797-55-8	N.D.	0.040	1
00219	Nitrite Nitrogen	14797-65-0	0.027 J	0.015	1
	SM 2320 B-1997		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5	n.a.	194	0.70	1
	SM 3500-Fe B 1997		**mg/l**	**mg/l**	
08344	Ferrous Iron	n.a.	58.4	1.0	100

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07105	Methane	RSKSOP-175 modified	1	153380034A	12/07/2015 17:28	Christine E Dolman	50
12858	DRO micro-ext 8015B	SW-846 8015B	1	153410022A	12/09/2015 22:02	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	153410022A	12/08/2015 09:20	Maria Davenport	1
07058	Manganese	SW-846 6010B	1	153411848002	12/11/2015 13:27	Joanne M Gates	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	153411848002	12/08/2015 18:32	James L Mertz	1
00228	Sulfate	EPA 300.0	1	15340667121A	12/06/2015 18:55	Drew M Gerhart	50
00220	Nitrate Nitrogen	EPA 353.2	1	15341106102B	12/07/2015 11:32	Joseph E McKenzie	1
00219	Nitrite Nitrogen	EPA 353.2	1	15337105102A	12/03/2015 18:30	Venia B McFadden	1
12150	Total Alkalinity to pH 4.5	SM 2320 B-1997	1	15338013105A	12/05/2015 00:25	Michele L Graham	1
08344	Ferrous Iron	SM 3500-Fe B 1997	1	15346834401A	12/12/2015 04:35	Daniel S Smith	100

Sample Description: TW-03 Grab Groundwater
NRG PRGS

LL Sample # WW 8159495
LL Group # 1614173
Account # 08390

Project Name: NRG PRGS

Collected: 12/02/2015 15:00 by KM

Submitted: 12/03/2015 16:08
Reported: 12/17/2015 07:10

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

TW-03

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

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12858	DRO micro-ext 8015B	SW-846 8015B	1	153410022A	12/09/2015 22:26	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	153410022A	12/08/2015 09:20	Maria Davenport	1

Quality Control Summary

Client Name: GES, Inc. Group Number: 1614173
Reported: 12/17/2015 07:10

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.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: F153412AA	Sample number(s): 8159489							
Benzene	N.D.	0.5	ug/l	93	91	78-120	2	30
Ethylbenzene	N.D.	0.5	ug/l	95	90	78-120	6	30
Naphthalene	N.D.	1.	ug/l	85	88	59-120	3	30
Toluene	N.D.	0.5	ug/l	98	91	80-120	7	30
Xylene (Total)	N.D.	0.5	ug/l	97	92	80-120	5	30
Batch number: 153380034A	Sample number(s): 8159489,8159494							
Methane	N.D.	3.0	ug/l	105		85-115		
Batch number: 153410022A	Sample number(s): 8159489-8159495							
DRO C10-C28	N.D.	45.	ug/l	69	72	69-115	3	20
Batch number: 153411848002	Sample number(s): 8159489,8159494							
Manganese	N.D.	0.00080	mg/l	105		80-120		
Batch number: 15337105102A	Sample number(s): 8159489,8159494							
Nitrite Nitrogen	N.D.	0.015	mg/l	99		90-110		
Batch number: 15340667121A	Sample number(s): 8159489,8159494							
Sulfate	N.D.	0.30	mg/l	98		90-110		
Batch number: 15341106102B	Sample number(s): 8159489,8159494							
Nitrate Nitrogen	N.D.	0.040	mg/l	100		90-110		
Batch number: 15338013104A	Sample number(s): 8159489							
Total Alkalinity to pH 4.5	N.D.	0.70	mg/l as CaCO3	99		90-110		
Batch number: 15338013105A	Sample number(s): 8159494							
Total Alkalinity to pH 4.5	N.D.	0.70	mg/l as CaCO3	100		90-110		
Batch number: 15346834401A	Sample number(s): 8159489,8159494							
Ferrous Iron	N.D.	0.010	mg/l	97		93-105		

Sample Matrix Quality Control

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

Quality Control Summary

Client Name: GES, Inc. Group Number: 1614173
Reported: 12/17/2015 07:10
Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 153380034A	Sample number(s): 8159489,8159494 UNSPK: P158394								
Methane	101	102	85-115	1	20				
Batch number: 153411848002	Sample number(s): 8159489,8159494 UNSPK: P158575 BKG: P158575								
Manganese	94	101	75-125	2	20	1.26	1.26	0	20
Batch number: 15337105102A	Sample number(s): 8159489,8159494 UNSPK: P159481 BKG: P159481								
Nitrite Nitrogen	103		90-110			N.D.	N.D.	0 (1)	20
Batch number: 15340667121A	Sample number(s): 8159489,8159494 UNSPK: P160611 BKG: P160611								
Sulfate	104		90-110			267	266	0	15
Batch number: 15341106102B	Sample number(s): 8159489,8159494 UNSPK: 8159489 BKG: 8159489								
Nitrate Nitrogen	108		90-110			N.D.	N.D.	0 (1)	2
Batch number: 15338013104A	Sample number(s): 8159489 UNSPK: P160083 BKG: P160083								
Total Alkalinity to pH 4.5	83*		90-110			77.9	78.4	1	5
Batch number: 15338013105A	Sample number(s): 8159494 UNSPK: P160084 BKG: P160084								
Total Alkalinity to pH 4.5	89*		90-110			60.0	59.5	1	5
Batch number: 15346834401A	Sample number(s): 8159489,8159494 UNSPK: P161432 BKG: P161432								
Ferrous Iron	96	92*	93-105	2	6	33.4	34.4	3	5

Surrogate Quality Control

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

Analysis Name: BTEX & Naphthalene 8260B
Batch number: F153412AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
8159489	101	108	99	93
Blank	97	98	103	92
LCS	96	103	105	96
LCSD	96	101	104	96
Limits:	80-116	77-113	80-113	78-113

Analysis Name: Methane
Batch number: 153380034A

	Propene
8159489	93
8159494	93
Blank	100
LCS	102
MS	85

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

Quality Control Summary

Client Name: GES, Inc. Group Number: 1614173
Reported: 12/17/2015 07:10

Surrogate Quality Control

	Orthoterphenyl
MSD	85
Limits:	44-123

Analysis Name: DRO micro-ext 8015B
Batch number: 153410022A

	Orthoterphenyl
8159489	61
8159490	120
8159491	78
8159492	126
8159493	79
8159494	90
8159495	92
Blank	94
LCS	92
LCSD	85
Limits:	42-160

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

Environmental Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories Environmental

Acct. # 8390 Group # 1614173 Sample # 8159489-95

| | | |

eurofins | Lancaster Laboratories Environmental

Sample Administration Receipt Documentation Log

Doc Log ID: 128098

Group Number(s): 1614173

Client: GES

Delivery and Receipt Information

Delivery Method:	ELLE Courier	Arrival Timestamp:	12/03/2015 16:08
Number of Packages:	1	Number of Projects:	2
State/Province of Origin:	VA		

Arrival Condition Summary

Shipping Container Sealed:	No	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	No	Sample Date/Times match COC:	Yes
Samples Chilled:	Yes	VOA Vial Headspace ≥ 6mm:	No
Paperwork Enclosed:	Yes	Total Trip Blank Qty:	2
Samples Intact:	Yes	Trip Blank Type:	HCl
Missing Samples:	No	Air Quality Samples Present:	No
Extra Samples:	No		
Discrepancy in Container Qty on COC:	Yes		

Unpacked by Jordan Woods (6698) at 16:44 on 12/03/2015

Samples Chilled Details

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

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	DT146	3.8	DT	Wet	Y	Bagged	N

Container Quantity Discrepancy Details

Sample ID on COC	Container Qty. Received	Container Qty. on COC	Comments
MW-121	13	11	
TW-06	10	8	

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

eurofins | Lancaster Laboratories Environmental

Explanation of Symbols and Abbreviations

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

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

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

Laboratory Data Qualifiers:

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

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

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

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

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

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

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

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ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

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

January 04, 2016

Project: NRG PRGS

Submittal Date: 12/04/2015
Group Number: 1614618
PO Number: NRG PRGS
Release Number: 0402896
State of Sample Origin: VA

Client Sample Description	Lancaster Labs (LL) #
MW-27 Grab Groundwater	8161432
MW-33 Grab Groundwater	8161433
MW-31/RW-31 Grab Groundwater	8161434

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

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

ELECTRONIC COPY TO	GES, Inc.-MD	Attn: Anne Ashley Bell
ELECTRONIC COPY TO	GES	Attn: Greg Reichart
ELECTRONIC COPY TO	GES, Inc.-MD	Attn: Data Distribution

Respectfully Submitted,

Kaitlin N. Plasterer
Specialist

(717) 556-7323

Sample Description: MW-27 Grab Groundwater
NRG PRGS

LL Sample # WW 8161432
LL Group # 1614618
Account # 08390

Project Name: NRG PRGS

Collected: 12/03/2015 09:15

Submitted: 12/04/2015 16:30
Reported: 01/04/2016 07:10

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

MW-27

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10945	Benzene	71-43-2	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1
10945	Naphthalene	91-20-3	1 J	1	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Miscellaneous	**RSKSOP-175 modified**		**ug/l**	**ug/l**	
07105	Methane	74-82-8	2,500	30	10
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	1,700	45	1
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	
07058	Manganese	7439-96-5	10.9	0.0060	5
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	
00228	Sulfate	14808-79-8	112	3.0	10
	EPA 353.2		**mg/l**	**mg/l**	
00220	Nitrate Nitrogen	14797-55-8	N.D.	0.040	1
00219	Nitrite Nitrogen	14797-65-0	N.D.	0.015	1
	SM 2320 B-1997		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5	n.a.	424	0.70	1
	SM 3500-Fe B 1997		**mg/l**	**mg/l**	
08344	Ferrous Iron	n.a.	33.4	1.0	100

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX & Naphthalene 8260B	SW-846 8260B	1	D153442AA	12/11/2015 03:28	Hu Yang	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D153442AA	12/11/2015 03:28	Hu Yang	1
07105	Methane	RSKSOP-175 modified	1	153420020A	12/10/2015 11:01	Christine E Dolman	10
12858	DRO micro-ext 8015B	SW-846 8015B	1	153430001A	12/10/2015 03:54	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	153430001A	12/09/2015 11:00	Maria Davenport	1

Sample Description: MW-27 Grab Groundwater
NRG PRGS

LL Sample # WW 8161432
LL Group # 1614618
Account # 08390

Project Name: NRG PRGS

Collected: 12/03/2015 09:15

Submitted: 12/04/2015 16:30
Reported: 01/04/2016 07:10

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

MW-27

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07058	Manganese	SW-846 6010B	1	153421848003	01/01/2016 09:47	Katlin N Cataldi	5
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	153421848003	12/13/2015 09:22	James L Mertz	1
00228	Sulfate	EPA 300.0	1	15342667121A	12/08/2015 23:40	Drew M Gerhart	10
00220	Nitrate Nitrogen	EPA 353.2	1	15341106101B	12/07/2015 10:54	Joseph E McKenzie	1
00219	Nitrite Nitrogen	EPA 353.2	1	15338105106A	12/04/2015 17:59	Drew M Gerhart	1
12150	Total Alkalinity to pH 4.5	SM 2320 B-1997	1	15342006103A	12/08/2015 19:56	Michele L Graham	1
08344	Ferrous Iron	SM 3500-Fe B 1997	1	15346834401A	12/12/2015 04:35	Daniel S Smith	100

Sample Description: MW-33 Grab Groundwater
NRG PRGS

LL Sample # WW 8161433
LL Group # 1614618
Account # 08390

Project Name: NRG PRGS

Collected: 12/03/2015 10:40

Submitted: 12/04/2015 16:30
Reported: 01/04/2016 07:10

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

MW-33

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

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12858	DRO micro-ext 8015B	SW-846 8015B	1	153430001A	12/10/2015 04:18	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	153430001A	12/09/2015 11:00	Maria Davenport	1

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

LL Sample # WW 8161434
LL Group # 1614618
Account # 08390

Project Name: NRG PRGS

Collected: 12/03/2015 10:50

Submitted: 12/04/2015 16:30
Reported: 01/04/2016 07:10

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

M31W3

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	1,200	45	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12858	DRO micro-ext 8015B	SW-846 8015B	1	153430001A	12/10/2015 04:42	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	153430001A	12/09/2015 11:00	Maria Davenport	1

Quality Control Summary

Client Name: GES, Inc. Group Number: 1614618
Reported: 01/04/2016 07:10

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.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: D153442AA	Sample number(s): 8161432							
Benzene	N.D.	0.5	ug/l	94		78-120		
Ethylbenzene	N.D.	0.5	ug/l	103		78-120		
Naphthalene	N.D.	1.	ug/l	101		59-120		
Toluene	N.D.	0.5	ug/l	104		80-120		
Xylene (Total)	N.D.	0.5	ug/l	104		80-120		
Batch number: 153420020A	Sample number(s): 8161432							
Methane	N.D.	3.0	ug/l	105		85-115		
Batch number: 153430001A	Sample number(s): 8161432-8161434							
DRO C10-C28	N.D.	45.	ug/l	75	72	69-115	6	20
Batch number: 153421848003	Sample number(s): 8161432							
Manganese	N.D.	0.0012	mg/l	106		80-120		
Batch number: 15338105106A	Sample number(s): 8161432							
Nitrite Nitrogen	N.D.	0.015	mg/l	98		90-110		
Batch number: 15341106101B	Sample number(s): 8161432							
Nitrate Nitrogen	N.D.	0.040	mg/l	102		90-110		
Batch number: 15342667121A	Sample number(s): 8161432							
Sulfate	N.D.	0.30	mg/l	96	98	90-110	2	20
Batch number: 15342006103A	Sample number(s): 8161432							
Total Alkalinity to pH 4.5	0.81 J	0.70	mg/l as CaCO3	98		90-110		
Batch number: 15346834401A	Sample number(s): 8161432							
Ferrous Iron	N.D.	0.010	mg/l	97		93-105		

Sample Matrix Quality Control

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

	MS	MSD	MS/MSD	RPD	BKG	DUP	DUP	Dup RPD

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

Quality Control Summary

Client Name: GES, Inc. Group Number: 1614618
Reported: 01/04/2016 07:10

Analysis Name	%REC	%REC	Limits	RPD	MAX	Conc	Conc	RPD	Max
Batch number: D153442AA	Sample number(s): 8161432 UNSPK: P161530								
Benzene	90	100	78-120	10	30				
Ethylbenzene	101	111	78-120	9	30				
Naphthalene	88	99	59-120	12	30				
Toluene	100	112	80-120	12	30				
Xylene (Total)	100	111	80-120	10	30				
Batch number: 153420020A	Sample number(s): 8161432 UNSPK: P163897								
Methane	-2664 (2)	-2922 (2)	85-115	6	20				
Batch number: 153421848003	Sample number(s): 8161432 UNSPK: P162648 BKG: P162648								
Manganese	101	99	75-125	2	20	0.206	0.196	5	20
Batch number: 15338105106A	Sample number(s): 8161432 UNSPK: P160104 BKG: P160104								
Nitrite Nitrogen	91		90-110			N.D.	N.D.	0 (1)	20
Batch number: 15341106101B	Sample number(s): 8161432 UNSPK: P157803 BKG: P157803								
Nitrate Nitrogen	65*		90-110			N.D.	N.D.	0 (1)	2
Batch number: 15342667121A	Sample number(s): 8161432 UNSPK: P158466 BKG: P158466								
Sulfate	112*		90-110			1,860	1,880	1	15
Batch number: 15342006103A	Sample number(s): 8161432 UNSPK: P160955 BKG: P160955								
Total Alkalinity to pH 4.5	94		90-110			59.2	59.2	0	5
Batch number: 15346834401A	Sample number(s): 8161432 UNSPK: 8161432 BKG: 8161432								
Ferrous Iron	96	92*	93-105	2	6	33.4	34.4	3	5

Surrogate Quality Control

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

Analysis Name: BTEX & Naphthalene 8260B
Batch number: D153442AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
8161432	103	98	105	95
Blank	101	97	105	95
LCS	100	98	105	97
MS	101	98	105	98
MSD	100	99	106	98
Limits:	80-116	77-113	80-113	78-113

Analysis Name: Methane
Batch number: 153420020A

	Propene
8161432	96
Blank	97
LCS	79

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

Quality Control Summary

Client Name: GES, Inc. Group Number: 1614618
Reported: 01/04/2016 07:10

Surrogate Quality Control

MS	80
MSD	83
Limits:	44-123

Analysis Name: DRO micro-ext 8015B
Batch number: 153430001A

	Orthoterphenyl
8161432	69
8161433	88
8161434	100
Blank	94
LCS	88
LCSD	96
Limits:	42-160

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

Environmental Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories Environmental

Acct. # 8390 Group # 1614618 Sample # 8161432-34

| | | |

eurofins | Lancaster Laboratories Environmental

Sample Administration Receipt Documentation Log

Doc Log ID: 128424

Group Number(s): 1614618

Client: GES

Delivery and Receipt Information

Delivery Method:	ELLE Courier	Arrival Timestamp:	12/04/2015 16:30
Number of Packages:	1	Number of Projects:	1
State/Province of Origin:	VA		

Arrival Condition Summary

Shipping Container Sealed:	No	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	No	Sample Date/Times match COC:	Yes
Samples Chilled:	Yes	VOA Vial Headspace ≥ 6mm:	No
Paperwork Enclosed:	Yes	Total Trip Blank Qty:	1
Samples Intact:	Yes	Trip Blank Type:	HCl
Missing Samples:	No	Air Quality Samples Present:	No
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Jordan Woods (6698) at 16:43 on 12/04/2015

Samples Chilled Details

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

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	DT146	2.0	DT	Wet	Y	Bagged	N

2425 New Holland Pike
Lancaster, PA 17605-2425

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Explanation of Symbols and Abbreviations

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

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

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

Laboratory Data Qualifiers:

B - Analyte detected in the blank
C - Result confirmed by reanalysis
E - Concentration exceeds the calibration range
J (or G, I, X) - estimated value ≥ the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)
P - Concentration difference between the primary and confirmation column >40%. The lower result is reported.
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Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

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

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

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

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

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ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

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

December 16, 2015

Project: NRG PRGS

Submittal Date: 12/04/2015
Group Number: 1614619
PO Number: NRG PRGS
Release Number: 0402947
State of Sample Origin: VA

Client Sample Description	Lancaster Labs (LL) #
MW-72S Grab Groundwater	8161435
MW-72/RW-72 Grab Groundwater	8161436
MW-106 Grab Groundwater	8161437
MW-107 Grab Groundwater	8161438
TB-12-3-15 #15322 Water	8161439

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

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

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ELECTRONIC COPY TO	GES	Attn: Greg Reichart
ELECTRONIC COPY TO	GES, Inc.-MD	Attn: Data Distribution

Respectfully Submitted,

Kaitlin N. Plasterer
Specialist

(717) 556-7323

Sample Description: MW-72S Grab Groundwater
NRG PRGS

LL Sample # WW 8161435
LL Group # 1614619
Account # 08390

Project Name: NRG PRGS

Collected: 12/03/2015 10:35 by JP

Submitted: 12/04/2015 16:30
Reported: 12/16/2015 14:50

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

MW72S

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	
10945	Benzene	71-43-2	8		0.5	1
10945	Ethylbenzene	100-41-4	15		0.5	1
10945	Naphthalene	91-20-3	2	J	1	1
10945	Toluene	108-88-3	N.D.		0.5	1
10945	Xylene (Total)	1330-20-7	N.D.		0.5	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**		**ug/l**	
12858	DRO C10-C28	n.a.	2,100		45	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX & Naphthalene 8260B	SW-846 8260B	1	D153442AA	12/11/2015 03:52	Hu Yang	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D153442AA	12/11/2015 03:52	Hu Yang	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	153430001A	12/10/2015 05:05	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	153430001A	12/09/2015 11:00	Maria Davenport	1

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

LL Sample # WW 8161436
LL Group # 1614619
Account # 08390

Project Name: NRG PRGS

Collected: 12/03/2015 10:40 by JP

Submitted: 12/04/2015 16:30
Reported: 12/16/2015 14:50

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

MW72R

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10945	Benzene	71-43-2	20	0.5	1
10945	Ethylbenzene	100-41-4	29	0.5	1
10945	Naphthalene	91-20-3	26	1	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	100	0.5	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	960	45	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX & Naphthalene 8260B	SW-846 8260B	1	D153442AA	12/11/2015 04:15	Hu Yang	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D153442AA	12/11/2015 04:15	Hu Yang	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	153430001A	12/10/2015 05:29	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	153430001A	12/09/2015 11:00	Maria Davenport	1

Sample Description: MW-106 Grab Groundwater
NRG PRGS

LL Sample # WW 8161437
LL Group # 1614619
Account # 08390

Project Name: NRG PRGS

Collected: 12/03/2015 10:55 by JP

Submitted: 12/04/2015 16:30
Reported: 12/16/2015 14:50

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

MW106

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10945	Benzene	71-43-2	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	1	0.5	1
10945	Naphthalene	91-20-3	N.D.	1	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	3,300	45	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX & Naphthalene 8260B	SW-846 8260B	1	D153442AA	12/11/2015 04:38	Hu Yang	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D153442AA	12/11/2015 04:38	Hu Yang	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	153430001A	12/10/2015 05:52	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	153430001A	12/09/2015 11:00	Maria Davenport	1

Sample Description: MW-107 Grab Groundwater
NRG PRGS

LL Sample # WW 8161438
LL Group # 1614619
Account # 08390

Project Name: NRG PRGS

Collected: 12/03/2015 11:00 by JP

Submitted: 12/04/2015 16:30
Reported: 12/16/2015 14:50

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

MW107

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.	730	45	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12858	DRO micro-ext 8015B	SW-846 8015B	1	153430001A	12/10/2015 06:15	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	153430001A	12/09/2015 11:00	Maria Davenport	1

Sample Description: TB-12-3-15 #15322 Water
NRG PRGS

LL Sample # WW 8161439
LL Group # 1614619
Account # 08390

Project Name: NRG PRGS

Collected: 12/03/2015

Submitted: 12/04/2015 16:30
Reported: 12/16/2015 14:50

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

123TB

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

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX & Naphthalene 8260B	SW-846 8260B	1	D153442AA	12/10/2015 21:21	Hu Yang	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D153442AA	12/10/2015 21:21	Hu Yang	1

Quality Control Summary

Client Name: GES, Inc. Group Number: 1614619
Reported: 12/16/2015 14:50

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.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: D153442AA	Sample number(s): 8161435-8161437,8161439							
Benzene	N.D.	0.5	ug/l	94		78-120		
Ethylbenzene	N.D.	0.5	ug/l	103		78-120		
Naphthalene	N.D.	1.	ug/l	101		59-120		
Toluene	N.D.	0.5	ug/l	104		80-120		
Xylene (Total)	N.D.	0.5	ug/l	104		80-120		
Batch number: 153430001A	Sample number(s): 8161435-8161438							
DRO C10-C28	N.D.	45.	ug/l	75	72	69-115	6	20

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: D153442AA	Sample number(s): 8161435-8161437,8161439 UNSPK: P161530								
Benzene	90	100	78-120	10	30				
Ethylbenzene	101	111	78-120	9	30				
Naphthalene	88	99	59-120	12	30				
Toluene	100	112	80-120	12	30				
Xylene (Total)	100	111	80-120	10	30				

Surrogate Quality Control

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

Analysis Name: BTEX & Naphthalene 8260B
Batch number: D153442AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
8161435	97	97	103	98
8161436	99	99	105	99
8161437	100	100	104	97

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

Quality Control Summary

Client Name: GES, Inc. Group Number: 1614619
Reported: 12/16/2015 14:50

Surrogate Quality Control

8161439	102	101	104	94
Blank	101	97	105	95
LCS	100	98	105	97
MS	101	98	105	98
MSD	100	99	106	98
Limits:	80-116	77-113	80-113	78-113

Analysis Name: DRO micro-ext 8015B
Batch number: 153430001A

	Orthoterphenyl
8161435	92
8161436	90
8161437	85
8161438	84
Blank	94
LCS	88
LCSD	96
Limits:	42-160

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

Environmental Analysis Request/Chain of Custody

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Acct. # 8390 Group # 1614619 Sample # 8161435-39

| | | |

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Sample Administration Receipt Documentation Log

Doc Log ID: 128424

Group Number(s): 1614619

Client: GES

Delivery and Receipt Information

Delivery Method:	ELLE Courier	Arrival Timestamp:	12/04/2015 16:30
Number of Packages:	1	Number of Projects:	1
State/Province of Origin:	VA		

Arrival Condition Summary

Shipping Container Sealed:	No	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	No	Sample Date/Times match COC:	Yes
Samples Chilled:	Yes	VOA Vial Headspace ≥ 6mm:	No
Paperwork Enclosed:	Yes	Total Trip Blank Qty:	1
Samples Intact:	Yes	Trip Blank Type:	HCl
Missing Samples:	No	Air Quality Samples Present:	No
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Jordan Woods (6698) at 16:43 on 12/04/2015

Samples Chilled Details

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

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C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

<	less than
>	greater than
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ATTACHMENT C

Photographic Record

ATTACHMENT C

PHOTOGRAPHIC RECORD

NRG Potomac River Generating Station
1400 N. Royal Street, Alexandria, VA
(September 30, 2015 - January 11, 2016)

PHOTO 1: View of air knifing to clear utility pole and anchor locations.
Above, asphalt is being removed and hose for the vacuum truck is visible in the foreground.

PHOTO 2: View of loosened soil removal using the vacuum hose.

ATTACHMENT C

PHOTOGRAPHIC RECORD

NRG Potomac River Generating Station
1400 N. Royal Street, Alexandria, VA
(September 30, 2015 - January 11, 2016)

PHOTO 3: View of loosened soil and clay brick removal using a shovel.
Buried bricks were encountered in multiple locations, as the facility previously had brick manufacturing activities.

PHOTO 4: View of piping encountered during air knifing.
When subsurface anomalies were encountered, new locations were selected and air knifed.

ATTACHMENT C

PHOTOGRAPHIC RECORD

NRG Potomac River Generating Station
1400 N. Royal Street, Alexandria, VA
(September 30, 2015 - January 11, 2016)

PHOTO 5: View of air knife lance being used to deliver compressed air for soil loosening.
The in-progress service rack installation can be seen on the right side of the photo.

PHOTO 6: View of Kelly Electric utility pole installation rig.

ATTACHMENT C

PHOTOGRAPHIC RECORD

NRG Potomac River Generating Station
1400 N. Royal Street, Alexandria, VA
(September 30, 2015 - January 11, 2016)

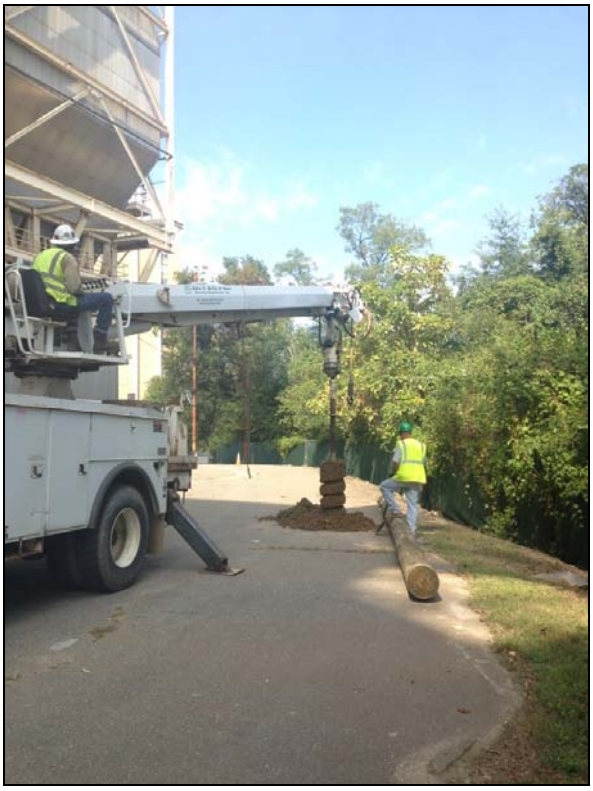

PHOTO 7: View of Kelly Electric augering to required depth for utility pole installation.

PHOTO 8: View of completed utility pole installation.

ATTACHMENT C

PHOTOGRAPHIC RECORD

NRG Potomac River Generating Station
1400 N. Royal Street, Alexandria, VA
(September 30, 2015 - January 11, 2016)

PHOTO 9: View of C&L Contractors working on the service rack installation.
An 18" underground trench was required for conduit between the service rack and first overhead utility pole.

PHOTO 10: View of Kelly Electric setting utility pole adjacent to service rack.

ATTACHMENT C

PHOTOGRAPHIC RECORD

NRG Potomac River Generating Station
1400 N. Royal Street, Alexandria, VA
(September 30, 2015 - January 11, 2016)

PHOTO 11: View of service rack with (from left) meter base, CT cabinet, and service disconnect.

PHOTO 12: View of completed underground connection between service rack and first utility pole.
Overhead wires were strung across new and existing poles to supply power to second rack at the system location.

ATTACHMENT C

PHOTOGRAPHIC RECORD

NRG Potomac River Generating Station
1400 N. Royal Street, Alexandria, VA
(September 30, 2015 - January 11, 2016)

PHOTO 13: View of second service at the system location with disconnects, breaker panels, and heat trace subpanel.