Steven P. Stucker, C.P.G.
Lead Environmental Engineer

July 31, 2017

Ms. Alexandra Servis
New York State Department of Environmental Conservation
Division of Environmental Remediation
Remedial Bureau C
625 Broadway
Albany, NY 12233-7013

Re: ***National Grid Kingsley Avenue Site***
Rome, New York
2017 2nd Quarter OM&M Report

Dear Ms. Servis:

Enclosed for your review is the 2017 2nd Quarter Operation, Maintenance, and Monitoring (OM&M) Report for the National Grid Rome (Kingsley Avenue) Site. OM&M is being conducted in accordance with the Site Management Plan (SMP) and OM&M Plan issued May 31, 2013. National Grid is working with the NYSDEC to file an environmental easement for OU-1. Subsequent to the easement being filed with Oneida County, National Grid will request that the SMP/OM&M Plan be approved by NYSDEC.

The completed quarterly OM&M activities included:

- A quarterly site inspection;
- Collection of quarterly static water level measurements of site wells;
- Collection and laboratory analysis of quarterly groundwater samples from OU-1 groundwater wells;
- Collection and laboratory analysis of quarterly groundwater extraction system samples;
- Monitoring and/or collection of light non-aqueous phase liquid and dense non-aqueous phase liquid at site wells; and
- Snow removal, as needed.

The groundwater extraction system is operating continuously and discharging to the sanitary sewer under the existing City of Rome Water Pollution Control Authority discharge permit. A chemical treatment system to minimize iron fouling within the groundwater extraction manhole, submersible pump, and piping also operates continuously.

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Please note that the laboratory did not collect a pH reading on the submitted effluent sample. Historic results indicate that pH always falls within the acceptable range of 5.5 – 11.5. A new sample will be obtained in August 2017, and the resulting analytical data will be transmitted to NYSDEC and the City of Rome in an amended quarterly report in August.

If you have any questions regarding the report or the scheduled activities, feel free to contact me at (315) 428-5652.

Very truly yours,

Mark Boorady

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for SPS

Steven P. Stucker, C.P.G.
Lead Environmental Engineer
National Grid

Enclosures

Cc: Devin Shay - Groundwater & Environmental Services, Inc.

nationalgrid

Kingsley Avenue Operable Unit 1 Site
(Site No. 633043)
Rome, New York

2017 2nd Quarter Operation, Maintenance, and Monitoring Report

Prepared by:

5 Technology Place, Suite 4
East Syracuse, NY 13057

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Section 1
Introduction

1.1 Introduction

Groundwater & Environmental Services, Inc. (GES) has prepared this 2017 2nd Quarter Operation, Maintenance, and Monitoring Report (OM&M) on behalf of National Grid. This report compiles the OM&M activities completed in the 2nd quarter of 2017 at the Former Kingsley Avenue Manufactured Gas Plant (MGP) Site (the Site), located in Rome, New York. The Site has been classified as a Class 2 inactive hazardous waste disposal site by the New York State Department of Environmental Conservation (NYSDEC) and is identified as Site No. 633043.

In accordance with the Record of Decision (March 2002) and following successful completion of the selected remedy, long-term OM&M is required at the Site. The Site Management Plan (SMP) and OM&M Plan were submitted to NYSDEC on May 31, 2013.

The following long-term OM&M activities are conducted in accordance with the SMP to monitor the effectiveness of the remediation previously conducted:

- Quarterly inspection of the Site (March, June, September, December);
- Collection of quarterly static water level measurements at the 34 site wells (16 Operable Unit [OU]-1 shallow and deep groundwater wells, eight dense non-aqueous phase liquid (DNAPL) wells, five OU-2 groundwater wells, and five extraction trench monitoring wells);
- Collection of quarterly groundwater samples from the 16 OU-1 shallow and deep groundwater wells and laboratory analysis of samples;
- Monitoring and/or collection of light non-aqueous phase liquid (LNAPL) and DNAPL monitoring at the 34 site wells, as needed. Offsite disposal of collected DNAPL at least once every 12 months;
- Removal of vegetation and snow, as necessary, to allow for access to the Site; and
- Submittal of quarterly OM&M reports to NYSDEC.

The groundwater extraction system is fully operational and discharges to the nearby sanitary sewer under an existing City of Rome Water Pollution Control Facility (WPCF) discharge permit. Discharge water samples are collected and analyzed quarterly for comparison to the permit limits as part of OM&M.

This OM&M Quarterly Report covers OM&M activities conducted during April, May, and June 2017.

1.2 Site Description

The Site is located within the City of Rome, Oneida County, New York. Refer to **Figure 1-1** for the Site location map. The Site consists of an approximately 22 acre parcel owned by National Grid. MGP operations formerly covered the northern half of the Site. National Grid presently operates and maintains a natural gas valving station located adjacent to the terminus of Kingsley Ave.

The Site is located south of East Dominick Street, bordering a historic, commercial and residential district, approximately 2,000 feet north of the confluence of the Mohawk River with the New York State Barge Canal. It is bounded by the Genesee and Mohawk Valley Railroad to the north, and the Mohawk River forms the western boundary of the Site. Whitesboro Street terminates near the southern boundary of the Site. The City of Rome Department of Public Works facility is located to the east and southeast of the Site. The Site is bounded on the south by a National Grid electric substation. Residential properties are located near the Site entrance on Kingsley Avenue.

The Site is relatively flat, with existing grades ranging from 430 to 442 feet above mean sea level. The primary surface water feature in the area is the Mohawk River, which discharges into the Barge Canal approximately 3 miles downstream toward the south. The groundwater flow direction in both the water table aquifer (near surface) and deep aquifer (within the overburden above the clay) is toward the south-southwest. Depth to groundwater ranges from 2.5 to 14 feet below ground surface at the Site.

1.3 Site History

The Kingsley Avenue MGP was constructed in 1917. Gas production began at the Site in 1917 and peaked in 1927. Manufactured gas was produced at the Site using the coal gas and water gas processes. Coal carbonization produced coal gas by heating coal in retorts or beehive ovens. The water gas process involved the passage of steam through burning coal. This formed a gaseous mixture that was passed through a super heater into which an oil feed stock was sprayed. In each process, the gas produced was condensed and purified prior to distribution. The production of manufactured gas created many by-products, some of which remain onsite. A dense, oily liquid known as coal tar condensed out of the gas at various stages during its production, purification, and distribution. Although much of the coal tar produced was reused, recovery of the coal tar waste was incomplete. Substantial amounts of coal tar leaked from storage and processing facilities, contaminating surface and subsurface soils, as well as groundwater. Another by-product includes the discarded lime and/or wood chips treated with iron oxides to remove cyanide and sulfur from the gas (known as purifier waste).

By 1930, production of gas at the Kingsley Avenue MGP was limited to emergency capacity, as the supply of gas for the City of Rome came from other facilities. Between 1938 and 1941, the retort house and relief holder were decommissioned. By 1949, gas manufacturing equipment had been removed from the central building. In 1959, the main gas holder was dismantled.

Environmental concerns at the Site caused NYSDEC and the United States Environmental Protection Agency (USEPA) to evaluate the need for investigation and remedial action. Regulators typically define a single site into a number of OUs. An OU, for technical or administrative reasons, can be addressed separately to eliminate or mitigate a release, threat of release, or exposure pathway resulting from the Site contamination. The lead agency, NYSDEC, defined two OUs: OU-1 and OU-2 and continues to administer the Site under a Consent Order with National Grid. OU-1 includes the former Kingsley Avenue MGP property, the surface soils of a small contiguous area of undeveloped New York State-owned land along the Mohawk River, and sediments in a backwater area west of the Site. OU-2 includes an approximate 2-acre area between the National Grid property and the eastern shore of the Mohawk River. Additionally, OU-2 includes the area beneath the Mohawk River and property west of the Mohawk River to East Westboro Street. OU-2 encompasses approximately 20 acres of land. Refer to **Figure 1-2** for a depiction of OU-1 and OU-2.

This report is focused on OU-1. The following provides general chronology of key project-related events related to OU-1.

- 1987 – USEPA Preliminary Assessment
- 1992 – Preliminary Site Assessment/Interim Remedial Measures (IRM) Work Plan
- May 1994 – Concentrator House IRM
- July 1994 – Start of Remedial Investigation
- January 1995 – Purifier Disposal Area IRM
- July 1998 – Light non-aqueous phase liquid (LNAPL) Removal IRM initiated
- March 1999 – Remedial Investigation Report
- December 2001 – Offsite Remedial Investigation Report complete
- January 2002 – OU-1 Feasibility Study complete
- March 2002 – OU-1 Record of Decision (ROD) issued by NYSDEC
- August 2006 – Remedial Design approved
- August 2007 – Remedial Action started
- December 2010 – Remedial Action completed
- January 2011 – long-term groundwater and LNAPL and DNAPL monitoring commenced
- December 2011 – long-term groundwater extraction system OM&M commenced
- November 2012 – chemical treatment system for the extraction manhole completed

The remedial elements for OU-1 that have been completed include:

- Utility relocation.
- DNAPL and LNAPL source area soil removal and offsite thermal treatment/disposal.
- Purifier waste material removal and offsite disposal.
- River bank soil removal and offsite disposal.
- Demolition and offsite disposal of the MGP tar well and holder foundations.
- Installation of a sheet pile cutoff wall to contain and minimize offsite migration of DNAPL.
- Installation of a groundwater extraction trench with passive recovery pipe along the upgradient side of the wall. The trench includes a series of collection manholes/sumps. Submersible pumps deliver untreated groundwater to a sanitary manhole under an existing City of Rome WPCF.
- Installation of a 14-acre soil cover in the northern portion of the Site.
- The two foot thick vegetative cover (2 foot thick clean soil above geotextile layer).
- Installation of eight DNAPL collection wells within known source areas.
- Installation of five groundwater monitoring wells along the extraction trench.
- Installation of 16 groundwater monitoring wells to monitor shallow and deep aquifers.
- Installation of five groundwater monitoring wells within the OU-2 area.
- A Deed of Covenants and Restrictions was previously filed for the site, however it needs to be revised in order to reflect post-remedial conditions (as required in the ROD). National Grid will discuss the applicability of an Environmental Easement or Deed Restriction with the NYSDEC in order to determine the most appropriate path to closure of this requirement.

Figure 1-3 presents the monitoring well locations for the western portion of the Site. **Figure 1-4** present monitoring well locations for the eastern portion of the Site.

Following start-up of the groundwater extraction system, it became apparent that iron fouling would be an operational issue. Therefore, National Grid installed a chemical treatment system to help protect the groundwater wells, piping, and submersible pump associated with the groundwater extraction system. As part of the chemical treatment system, a weather-proof structure was installed adjacent to the groundwater pumping manhole and houses a chemical tote and chemical feed pump. [An environmental friendly iron inhibitor (REDUX 340) is injected into the pumping manhole to protect the submersible pump, piping, and metering instruments. This chemical is used at similar National Grid sites across central and eastern New York State in order to minimize iron fouling and reduce operation and maintenance costs and has been approved by the City of Rome publicly owned treatment works (POTW).] The chemical treatment system became operational in November 2012.

Section 2

Operation, Maintenance, and Monitoring Activities

2.1 Quarterly Site Inspection

GES conducted the 2017 2nd quarter site inspection on June 7, 2017. Inspections are generally conducted in March, June, September, and December of each year. The Site inspection included the Site wells, security perimeter fence/gates, drainage system, vegetation, and the Site access road. In general, the Site was noted to be in good condition during the inspection. Refer to **Appendix A** for the Site Inspection Form.

There are 34 total site wells that were inspected as part of this event. Figures 1-3 and 1-4 show the well locations. **Table 2-1** details each well in terms of horizontal location, vertical elevation, diameter, material, and screen elevation.

2.2 Quarterly Static Water Level Measurements

Quarterly static water level measurements were collected from the 34 wells on June 23, 2017. **Table 2-2** presents historical and recent static water level measurements. Refer to **Appendix B** for the field log sheet with water level measurements.

Prior to the construction of the barrier wall and groundwater extraction trench/system remedy, groundwater generally flowed northwesterly toward the Mohawk River. The remedy was designed and constructed to intercept that groundwater flow pattern and minimize migration of site-related DNAPL from the upgradient side of the barrier wall to the river. To ensure that the barrier wall meets the intent of the remedial action, it was agreed by NYSDEC and National Grid that the long-term compliance mechanism would be to compare the top of steel sheeting barrier wall (generally 435 to 437 feet above sea level) with the groundwater levels immediately upgradient of the barrier wall.

Eight manholes (MH-2, MH-3, MH-4, MH-5, MH-6, MH-6A, MH-7, and MH-8) and ten groundwater monitoring wells (DNAPL-2, DNAPL-3, DNAPL-4, DNAPL-5, DNAPL-6, VTW-1, VTW-2, VTW-3, VTW-4, and VTW-5) were constructed immediately upgradient of the barrier wall within the gravel extraction trench. The static water levels in each of these upgradient manholes and groundwater monitoring wells were measured and found to be between 425 and 430 **(Table 2-2)** feet above sea level since start-up of the groundwater extraction system. Groundwater does not overtop the barrier wall. **Figure 2-1** presents the groundwater levels compared to the barrier wall profile.

2.3 Quarterly Groundwater Monitoring Event

The 2017 2nd quarter groundwater monitoring event was conducted June 7, 2017. Sixteen groundwater monitoring wells were sampled [LTMW-D01, LTMW-S01, LTMW-D02, LTMW-S02, LTMW-D03, LTMW-S03, LTMW-D04, LTMW-S04, LTMW-D05, LTMW-S05, LTMW-D06, LTMW-S06, LTMW-S07, LTMW-S08, LTMW-S09, LTMW-S10].

The wells were sampled in accordance with USEPA Low-Flow Groundwater Sampling Procedures [1996]. Purge water was contained and subsequently discharged to the onsite groundwater extraction system which discharges water to the City of Rome WPCF. Field measurements (temperature, pH, oxidation-reduction potential, conductivity, turbidity, dissolved oxygen, and total dissolved solids) were recorded at each well during the sampling using a water quality meter and are presented in **Appendix C**.

In addition to the 16 water samples collected, four quality assurance/quality control (QA/QC) samples were collected, including one field duplicate sample, one matrix spike sample, one matrix spike duplicate sample, and one trip blank sample. Twenty total samples were shipped on ice to the Pace Analytical Services, LLC (Pace) of Greensburg, Pennsylvania for laboratory analysis. Analyses included: polycyclic aromatic hydrocarbons (PAHs) via USEPA Method 8270D; benzene, toluene, ethylbenzene, and total xylenes (BTEX) via USEPA Method 8260C; heavy metals via USEPA Method 200.7; and total cyanide via USEPA Method 335.4.

The analytical results included detections of BTEX, acenaphthene, and fluorene above the New York State regulatory maximum allowable limits. Additionally, analytical results at LTMW-S03 indicated zinc levels above the guidance value provided in NYSDEC's Technical and Operational Guidance Series section 1.1.1. A summary of laboratory analytical results is provided in **Table 2-3**. Of the 16 wells sampled, LTMW-D01 and LTMW-D03 had BTEX concentrations above the New York State Groundwater Ambient Water Quality Standards (AWQS). Results indicated no detections for LTMW-D02, LTMW-D05 and LTMW-S07.

The analytical data report was validated by GES. The primary objective of the data validation is to identify any questionable or invalid laboratory processes or data. The data validator reviewed the summary form information, the raw sample data, and a limited review of associated raw QC data. In summary, sample results are usable as reported, with a few qualifications due to low surrogate recoveries and precision issues. Qualifications are detailed in Table 1 of Appendix D, which presents the Data Usability Summary Report (DUSR) including the validated laboratory data.

2.4 Quarterly Light Non-aqueous Phase Liquid and Dense Non-aqueous Phase Liquid Monitoring/Collection Event

Each of the 34 wells was monitored for LNAPL and DNAPL monthly in this quarter. This activity is conducted in conjunction with the collection of static water level measurements. A probe is lowered to the water level in the well and inspected for LNAPL. The probe is then lowered to the bottom of the well and inspected for DNAPL. If LNAPL or DNAPL is discovered in measurable quantities, product is removed from the well using a submersible pump. The removed product/water mixture is subsequently containerized in a properly labeled NYSDOT-approved 55-gallon drum for future offsite disposal.

DNAPL in measurable quantities was noted in three site wells: MW-OU2-1, MW-OU2-4, and DNAPL-03.

As part of the NAPL monitoring/collection event, a total of 7.0 gallons of DNAPL was collected (4.0 gallons from MW-OU2-1, 2.5 gallons from MW-OU2-4, and 0.5 gallon from DNAPL-03) during this quarter.

Since the start of the NAPL monitoring/collection program, a total of 454 gallons of DNAPL have been removed for offsite disposal. Zero gallons of LNAPL have been detected/recovered.

2.5 Quarterly Groundwater Extraction System Discharge Sampling Event

Under an existing City of Rome WPCF discharge permit, quarterly sampling, analysis, and reporting of the groundwater extraction system discharge to the local sewer system is required. A water sample was collected on June 7, 2017, and analyzed by Pace for the permit-specified parameters. No detections above permit limits were noted. **Table 2-4** provides the analytical results compared to the permit limits.

The analytical data report was validated by GES. The primary objective of the data validation is to identify any questionable or invalid laboratory processes or data. The validator reviewed the summary form information, the raw sample data, and a limited review of associated raw QC data. The review stated that field sample analyte values/reporting limits were usable as reported. The DUSR including the validated laboratory data is presented in **Appendix D**.

Please note that this quarter's samples were not analyzed for pH by Pace. A new sample will be obtained in August 2017, and the resulting analytical data will be transmitted to NYSDEC and the City of Rome in an amended quarterly report in August.

2.6 Groundwater Extraction System Discharge Flow and Operation, Maintenance, and Monitoring

The groundwater extraction system consists of a gravel trench, a pumping manhole, dual submersible pumps, and below ground piping. The piping enters the onsite groundwater treatment building where flow measurements, discharge sampling, pressure measurements, and other OM&M activities can be conducted. The piping then continues below ground from the nearby sanitary sewer manhole to the City of Rome WPCF.

A mechanical flow meter is located with the Site building and serves as the recording device for the City of Rome WPCF discharge fees. During the 2017 2nd quarter, approximately 3,815,009 gallons (average flow ~ 32.7 gpm) were discharged. Since the groundwater extraction system was installed, approximately 120 million gallons have been discharged. Below is a summary table for the groundwater extraction system discharge flow:

Time Period	Discharge Flow (gallons)
2010	11,600,000
2011	14,400,000
2012	19,900,000
2013	19,500,000
2014	16,500,000
2015	16,686,700
2016 1st Quarter	3,504,900
2016 2nd Quarter	3,593,500
2016 3rd Quarter	3,157,820
2016 4th Quarter	3,438,790
2017 1st Quarter	3,706,351
2017 2nd Quarter	**3,815,009**
TOTAL	**119,918,630**

The previous consultant conducted an evaluation of the groundwater extraction system, including inspections of the extraction manhole, submersible pumps, valving/controls, and clean-outs. Iron fouling throughout the system, particularly scaling on the submersible pumps, piping, and metering instruments, had been observed. As such, a chemical scale inhibitor (Redux 340) system, which applies the Redux 340 at the groundwater extraction manhole/submersible pumps, was installed and became operational in November 2012. A heating element located at the pumping manhole was installed in June 2012. Electrical power and building lighting/heating was installed in August/September 2012. Information regarding the environmentally-friendly, iron scale inhibitor was previously provided to the City of Rome POTW. The groundwater treatment system, including pumping station, conveyance piping, and flow meters was cleaned (water lancing) during September 2012 in order to remove iron scale build-up in advance of the chemical treatment system installation.

2.7 Vegetation Management and Snow Removal

Mowing, trimming, and some minor road repairs are planned for the upcoming quarter.

Section 3

Conclusions, Recommendations, and Certifications

3.1 Conclusions

Based on data collected from the 2017 2nd quarter OM&M activities, the following conclusions were made:

- The overall condition of the Site is good. Routine mowing and weed spraying activities are being scheduled at this time.
- Quarterly static water level measurements were collected at eight manholes and ten groundwater monitoring wells upgradient of the steel sheeting barrier within the gravel extraction trench. The static water levels (ranging between 426 to 430 feet above sea level) did not overtop the barrier wall (top of wall ranges between 435 to 437 feet above sea level).
- Site groundwater contained detectable concentrations of BTEX, acenaphthene, and fluorene above the New York State regulatory maximum allowable limits. Additionally, analytical results for well LTMW-S03 indicated zinc concentrations above the NYSDEC AWQS guidance value. Four of the 16 wells (LTMW-D01, LTMW-D03, LTMW-S01, and LTMW-S10) sampled had at least one detection of a site-related constituent above the New York State limits.
- The total quarterly volume of DNAPL collected (7.0 gallons) was removed from three wells (MW-OU2-1, MW-OU2-4, and DNAPL-03). A total of 454 gallons of DNAPL have been removed from these wells since the inception of the program. LNAPL has not been observed in any site wells to date.
- The groundwater extraction system operated continuously at approximately 32.7 gpm, and a quarterly total of 3,815,009 gallons were discharged to the local sanitary sewer in accordance with the City of Rome WPCF discharge permit. A quarterly effluent water sample was collected and analyzed. There were no permit limit exceedances. Since December 2011, approximately 120 million gallons of water have been discharged without any permit limit exceedances.

3.2 Recommendations

It is recommended that all OM&M activities continue.

3.3 Certifications

I certify the following:

- The inspection of the Site to confirm the effectiveness of the institutional and engineering controls required by the remedial program was performed under my direction;
- The institutional controls and engineering controls employed at this site are unchanged from the date the controls were put in place, or last approved by the Department;
- Nothing has occurred that would impair the ability of the controls to protect the public health and environment;
- Nothing has occurred that would constitute a violation or failure to comply with any SMP for this control;
- Access to the Site will continue to be provided to the Department to evaluate the remedy, including access to evaluate the continued maintenance of the controls;
- Use of the Site is compliant with the Declarations of Covenants and Restrictions;
- The engineering control systems are performing as designed and are effective;
- To the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the Site remedial program; and
- The information presented in this report is accurate and complete.

Mark Boorady

Digitally signed by Mark Boorady
DN: cn=Mark Boorady, o=Groundwater & Environmental Services, Inc., ou, email=mboorady@gesonline.com, c=US
Date: 2017.07.31 16:18:53 -04'00'

_____ _____

Signature Date

Name: Mark A. Boorady, P.E.
Title: Senior Engineer
Company: Groundwater & Environmental Services, Inc.

Tables

Table 2-1
Site Monitoring Wells

Well ID	Northing	Easting	Elevation OF Ground	Elevation Top Of Outter Casing	Elevation Top of Inner Casing	Nominal Well Diameter (inches)	Well Material	Well Sump Depth (ft)	Depth To Bottom Of Well (ft)	Elevation Bottom of Well	Depth To Top Screen (ft)	Elevation Top Screen	Depth To Bottom Screen (ft)	Elevation Bottom Screen	Action
MW-OU2-1	1169964.4870	1121322.8873	433.5	435.72	435.48	4	SS	3.0	46.12	389.36	33.0	402.48	43.0	392.48	Quarterly Inspection; Quarterly Static Water Level Measurement
MW-OU2-2	1170149.8980	1121255.9363	433.9	436.40	436.06	4	SS	3.0	49.60	386.46	39.0	397.06	49.0	387.06	Quarterly Inspection; Quarterly Static Water Level Measurement
MW-OU2-3	1170101.2208	1121177.4485	430.63	433.25	432.96	4	SS	3.0	35.15	397.81	31.0	401.96	41.0	391.96	Quarterly Inspection; Quarterly Static Water Level Measurement (Surveyed in January 2014)
MW-OU2-4	1170149.6326	1121136.1811	430.63	433.05	432.88	4	SS	3.0	38.85	394.03	31.0	401.88	41.0	391.88	Quarterly Inspection; Quarterly Static Water Level Measurement (Surveyed in January 2014)
MW-OU2-5	1170167.9650	1121091.2658	431.23	433.77	433.46	4	SS	3.0	36.34	397.12	31.0	402.46	41.0	392.46	Quarterly Inspection; Quarterly Static Water Level Measurement (Surveyed in January 2014)
DNAPL-02	1169976.8400	1121338.4483	434.6	436.81	NA	6	SS	3.0	50.40	386.41	4.0	432.81	46.0	389.41	Quarterly Inspection; Quarterly Static Water Level Measurement; DNAPL Monitoring/Collection
DNAPL-03	1170021.7760	1121329.2613	434.6	437.23	NA	6	SS	3.0	52.32	384.91	4.5	432.73	46.5	387.91	Quarterly Inspection; Quarterly Static Water Level Measurement; DNAPL Monitoring/Collection
DNAPL-04	1170138.5720	1121289.3033	436.3	438.50	NA	6	SS	3.0	51.45	387.05	3.5	435.00	47.5	390.05	Quarterly Inspection; Quarterly Static Water Level Measurement; DNAPL Monitoring/Collection
DNAPL-05	1170223.6230	1121251.9083	438.4	440.60	NA	6	SS	3.0	54.75	385.85	6.0	434.60	50.0	388.85	Quarterly Inspection; Quarterly Static Water Level Measurement; DNAPL Monitoring/Collection
DNAPL-06	1170309.3920	1121212.9643	438	439.71	NA	6	SS	3.0	51.45	388.26	8.0	431.71	48.0	391.26	Quarterly Inspection; Quarterly Static Water Level Measurement; DNAPL Monitoring/Collection
DNAPL-07	1170186.6060	1121522.7453	439.4	441.46	NA	6	SS	3.0	53.60	387.86	5.0	436.46	55.5	390.86	Quarterly Inspection; Quarterly Static Water Level Measurement; DNAPL Monitoring/Collection
DNAPL-08	1170230.3820	1121390.3173	439.6	441.80	NA	6	SS	3.0	58.01	383.79	7.0	434.80	53.0	386.79	Quarterly Inspection; Quarterly Static Water Level Measurement; DNAPL Monitoring/Collection
DNAPL-09	1170267.0450	1121351.1333	440.1	442.63	NA	6	SS	3.0	57.58	385.05	5.0	437.63	53.2	388.05	Quarterly Inspection; Quarterly Static Water Level Measurement; DNAPL Monitoring/Collection
VTM-1	1170393.9230	1121200.2643	437.7	439.74	NA	6	SS	NA	46.37	393.37	4.0	435.74	44.0	395.74	Quarterly Inspection; Quarterly Static Water Level Measurement
VTM-2	1170482.8870	1121229.5033	436.1	438.33	NA	6	SS	NA	49.47	388.86	5.0	433.33	47.0	391.33	Quarterly Inspection; Quarterly Static Water Level Measurement
VTM-3	1170541.8140	1121311.1743	437.1	439.44	NA	6	SS	NA	50.91	388.53	4.0	435.44	48.0	391.44	Quarterly Inspection; Quarterly Static Water Level Measurement
VTM-4	1170558.5060	1121416.3693	439.3	441.59	NA	6	SS	NA	50.62	390.97	9.0	432.59	49.0	392.59	Quarterly Inspection; Quarterly Static Water Level Measurement
VTM-5	1170616.4890	1121483.6873	439.8	441.79	NA	6	SS	NA	52.52	389.27	5.0	436.79	51.0	390.79	Quarterly Inspection; Quarterly Static Water Level Measurement
LTMW-D01	1169920.9810	1121340.1793	432.7	434.90	434.80	2	PVC	NA	46.84	387.96	34.0	400.80	44.0	390.80	Quarterly Inspection; Quarterly Static Water Level Measurement; Quarterly Sampling
LTMW-S01	1169936.2970	1121336.3233	433.2	435.52	435.10	2	PVC	NA	16.92	418.18	5.0	430.10	15.0	420.10	Quarterly Inspection; Quarterly Static Water Level Measurement; Quarterly Sampling
LTMW-D02	1170077.3450	1121296.6853	434.2	436.74	436.60	2	PVC	NA	40.29	396.31	30.0	406.60	40.0	396.60	Quarterly Inspection; Quarterly Static Water Level Measurement; Quarterly Sampling
LTMW-S02	1170087.0350	1121294.4073	434.3	436.79	436.59	2	PVC	NA	17.98	418.61	5.0	431.59	15.0	421.59	Quarterly Inspection; Quarterly Static Water Level Measurement; Quarterly Sampling
LTMW-D03	1170208.0726	1121183.8138	429.2	431.27	431.13	2	PVC	NA	40.73	390.40	29.0	402.13	39.0	392.13	Quarterly Inspection; Quarterly Static Water Level Measurement; Quarterly Sampling
LTMW-S03	1170200.4014	1121188.2719	429.3	431.43	431.29	2	PVC	NA	13.70	417.59	2.0	429.29	12.0	419.29	Quarterly Inspection; Quarterly Static Water Level Measurement; Quarterly Sampling
LTMW-D04	1170444.7690	1121162.3583	434.9	437.18	436.88	2	PVC	NA	46.36	390.52	34.0	402.88	44.0	392.88	Quarterly Inspection; Quarterly Static Water Level Measurement; Quarterly Sampling
LTMW-S04	1170434.1910	1121164.5883	435.6	437.24	437.09	2	PVC	NA	17.26	419.83	5.0	432.09	15.0	422.09	Quarterly Inspection; Quarterly Static Water Level Measurement; Quarterly Sampling
LTMW-D05	1170572.7400	1121323.4973	435.7	437.78	437.58	2	PVC	NA	46.53	391.05	35.0	402.58	45.0	392.58	Quarterly Inspection; Quarterly Static Water Level Measurement; Quarterly Sampling
LTMW-S05	1170567.9900	1121317.5703	435.9	437.92	437.77	2	PVC	NA	16.83	420.94	5.0	432.77	15.0	422.77	Quarterly Inspection; Quarterly Static Water Level Measurement; Quarterly Sampling
LTMW-D06	1170625.7620	1121557.7643	440.2	441.70	441.55	2	PVC	NA	52.22	389.33	40.0	401.55	50.0	391.55	Quarterly Inspection; Quarterly Static Water Level Measurement; Quarterly Sampling
LTMW-S06	1170637.4230	1121564.0263	439.7	441.64	441.52	2	PVC	NA	17.60	423.92	5.0	436.52	15.0	426.52	Quarterly Inspection; Quarterly Static Water Level Measurement; Quarterly Sampling
LTMW-S07	1170113.1090	1121525.3273	438	439.94	439.70	2	PVC	NA	17.82	421.88	5.0	434.70	15.0	424.70	Quarterly Inspection; Quarterly Static Water Level Measurement; Quarterly Sampling
LTMW-S08	1170434.0830	1121518.2593	442.4	443.81	443.63	2	PVC	NA	17.39	426.24	5.0	438.63	15.0	428.63	Quarterly Inspection; Quarterly Static Water Level Measurement; Quarterly Sampling
LTMW-S09	1170469.4300	1121969.1733	437.6	439.79	439.54	2	PVC	NA	16.92	422.62	5.0	434.54	15.0	424.54	Quarterly Inspection; Quarterly Static Water Level Measurement; Quarterly Sampling
LTMW-S10	1170123.6800	1121817.1213	437.4	439.67	439.42	2	PVC	NA	17.18	422.24	5.0	434.42	15.0	424.42	Quarterly Inspection; Quarterly Static Water Level Measurement; Quarterly Sampling

Notes:
1) Shallow monitoring wells will be sampled with a low flow peristaltic pump with battery pack.
2) Deep monitoring wells will be sampled with a low flow submersible pump with generator.
3) Static water level measurements will be taken from top of inner casing. If the well has no inner casing, the measurement will be taken from the top of outer casing.

Table 2-2
Static Water Level Data

Well:	MW-OU2-1		Well:	MW-OU2-2		Well:	MW-OU2-3		Well:	MW-OU2-4		Well:	MW-OU2-5	
TOC =	435.72		TOC =	436.40		TOC =	432.96		TOC =	432.88		TOC =	433.46	
Date	**DTW**	**Water El.**	**Date**	**DTW**	**Water El.**	**Date**	**DTW**	**Water El.**	**Date**	**DTW**	**Water El.**	**Date**	**DTW**	**Water El.**
3/29/2011	8.64	427.08	3/29/2011	9.43	426.97	3/29/2011	6.04	426.92	3/29/2011	5.93	426.95	3/29/2011	6.68	426.78
6/13/2011	9.29	426.43	6/13/2011	10.07	426.33	6/13/2011	6.71	426.25	6/13/2011	7.87	425.01	6/13/2011	7.33	426.13
9/26/2011	9.31	426.41	9/26/2011	10.11	426.29	9/26/2011	6.64	426.32	9/26/2011	6.68	426.20	9/26/2011	7.35	426.11
12/5/2011	9.10	426.62	12/5/2011	9.84	426.56	12/5/2011	6.72	426.24	12/5/2011	6.73	426.15	12/5/2011	7.50	425.96
3/19/2012	8.88	426.84	3/19/2012	9.79	426.61	3/19/2012	6.46	426.50	3/19/2012	6.32	426.56	3/19/2012	7.13	426.33
6/18/2012	9.51	426.21	6/18/2012	10.36	426.04	6/18/2012	7.05	425.91	6/18/2012	6.95	425.93	6/18/2012	7.69	425.77
9/12/2012	9.75	425.97	9/12/2012	10.63	425.77	9/12/2012	7.32	425.64	9/12/2012	7.25	425.63	9/12/2012	8.02	425.44
12/3/2012	9.49	426.23	12/3/2012	10.33	426.07	12/3/2012	7.02	425.94	12/3/2012	6.93	425.95	12/3/2012	7.70	425.76
3/27/2013	9.30	426.42	3/27/2013	10.11	426.29	3/27/2013	6.78	426.18	3/27/2013	6.95	425.93	3/27/2013	7.42	426.04
6/10/2013	8.46	427.26	6/10/2013	9.32	427.08	6/10/2013	5.78	427.18	6/10/2013	5.68	427.20	6/10/2013	5.35	428.11
9/23/2013	9.52	426.20	9/23/2013	10.32	426.08	9/23/2013	7.08	425.88	9/23/2013	6.98	425.90	9/23/2013	7.63	425.83
12/12/2013	8.47	427.25	12/12/2013	9.35	427.05	12/12/2013	5.92	427.04	12/12/2013	5.84	427.04	12/12/2013	6.51	426.95
3/25/2014	9.12	426.60	3/25/2014	10.22	426.18	3/25/2014	6.75	426.21	3/25/2014	6.85	426.03	3/25/2014	7.24	426.22
6/12/2014	9.58	426.14	6/12/2014	10.33	426.07	6/12/2014	6.99	425.97	6/12/2014	6.94	425.94	6/12/2014	7.63	425.83
9/10/2014	9.49	426.23	9/10/2014	9.89	426.51	9/10/2014	7.02	425.94	9/10/2014	6.95	425.93	9/10/2014	7.63	425.83
12/1/2014	9.32	426.40	12/1/2014	9.84	426.56	12/1/2014	6.49	426.47	12/1/2014	6.41	426.47	12/1/2014	7.08	426.38
4/8/2015	8.63	427.09	4/8/2015	9.29	427.11	4/8/2015	6.14	426.82	4/8/2015	5.96	426.92	4/8/2015	6.98	426.48
6/3/2015	9.34	426.38	6/3/2015	9.73	426.67	6/3/2015	6.41	426.55	6/3/2015	6.34	426.54	6/3/2015	6.95	426.51
9/16/2015	9.66	426.06	9/16/2015	10.47	425.93	9/16/2015	7.15	425.81	9/16/2015	7.05	425.83	9/16/2015	7.74	425.72
12/2/2015	9.30	426.42	12/2/2015	10.19	426.21	12/2/2015	6.85	426.11	12/2/2015	6.77	426.11	12/2/2015	7.44	426.02
3/7-9/2016	8.45	427.27	3/7-9/2016	9.28	427.12	3/7-9/2016	5.91	427.05	3/7-9/2016	5.82	427.06	3/7-9/2016	6.49	426.97
6/7-9/2016	9.45	426.27	6/7-9/2016	10.28	426.12	6/7-9/2016	6.95	426.01	6/7-9/2016	6.87	426.01	6/7-9/2016	7.57	425.89
9/19-22/2016	9.58	426.14	9/19-22/2016	10.52	425.88	9/19-22/2016	7.29	425.67	9/19-22/2016	7.15	425.73	9/19-22/2016	7.84	425.62
12/15/2016	8.91	426.81	12/15/2016	9.80	426.60	12/15/2016	6.42	426.54	12/15/2016	6.35	426.53	12/15/2016	7.02	426.44
3/8/2017	8.68	427.04	3/8/2017	5.94	430.46	3/8/2017	5.93	427.03	3/8/2017	5.94	426.94	3/8/2017	6.62	426.84
6/23/2017	9.35	426.37	6/23/2017	10.02	426.38	6/23/2017	7.10	425.86	6/23/2017	6.70	426.18	6/23/2017	7.15	426.31

Notes:

TOC = Top of Inner Well Casing in Feet

DTW = Depth to Water in Feet

EL. = Elevation in Feet

Table 2-2
Static Water Level Data

Well:	DNAPL-02		Well:	DNAPL-03		Well:	DNAPL-04		Well:	DNAPL-05	
TOC =	436.81		TOC =	437.23		TOC =	438.50		TOC =	440.60	
Date	**DTW**	**Water El.**	**Date**	**DTW**	**Water El.**	**Date**	**DTW**	**Water El.**	**Date**	**DTW**	**Water El.**
3/29/2011	8.41	428.40	3/29/2011	8.72	428.51	3/29/2011	10.05	428.45	3/29/2011	12.11	428.49
6/13/2011	9.18	427.63	6/13/2011	9.54	427.69	6/13/2011	10.84	427.66	6/13/2011	12.89	427.71
9/26/2011	9.36	427.45	9/26/2011	9.70	427.53	9/26/2011	11.09	427.41	9/26/2011	13.08	427.52
12/5/2011	9.46	427.35	12/5/2011	9.79	427.44	12/5/2011	11.13	427.37	12/5/2011	13.30	427.30
3/19/2012	9.02	427.79	3/19/2012	9.35	427.88	3/19/2012	10.69	427.81	3/19/2012	12.74	427.86
6/18/2012	9.46	427.35	6/18/2012	9.80	427.43	6/18/2012	11.15	427.35	6/18/2012	13.24	427.36
9/12/2012	10.14	426.67	9/12/2012	10.48	426.75	9/12/2012	11.81	426.69	9/12/2012	13.84	426.76
12/3/2012	9.19	427.62	12/3/2012	10.10	427.13	12/3/2012	11.45	427.05	12/3/2012	13.48	427.12
3/27/2013	9.51	427.30	3/27/2013	9.81	427.42	3/27/2013	11.15	427.35	3/27/2013	13.21	427.39
6/10/2013	8.27	428.54	6/10/2013	8.62	428.61	6/10/2013	9.91	428.59	6/10/2013	11.98	428.62
9/23/2013	9.92	426.89	9/23/2013	10.25	426.98	9/23/2013	11.56	426.94	9/23/2013	13.61	426.99
12/12/2013	8.71	428.10	12/12/2013	9.03	428.20	12/12/2013	10.35	428.15	12/12/2013	12.41	428.19
3/25/2014	9.52	427.29	3/25/2014	9.81	427.42	3/25/2014	11.15	427.35	3/25/2014	13.21	427.39
6/12/2014	9.90	426.91	6/12/2014	10.20	427.03	6/12/2014	11.41	427.09	6/12/2014	13.56	427.04
9/10/2014	9.25	427.56	9/10/2014	9.55	427.68	9/10/2014	10.62	427.88	9/10/2014	12.70	427.90
12/1/2014	9.16	427.65	12/1/2014	9.45	427.78	12/1/2014	10.75	427.75	12/1/2014	12.81	427.79
4/8/2015	8.39	428.42	4/8/2015	8.68	428.55	4/8/2015	9.96	428.54	4/8/2015	12.07	428.53
6/3/2015	8.33	428.48	6/3/2015	8.84	428.39	6/3/2015	10.15	428.35	6/3/2015	12.24	428.36
9/16/2015	9.91	426.90	9/16/2015	10.21	427.02	9/16/2015	11.51	426.99	9/16/2015	13.58	427.02
12/2/2015	9.41	427.40	12/2/2015	9.71	427.52	12/2/2015	11.01	427.49	12/2/2015	13.09	427.51
3/7-9/2016	8.45	428.36	3/7-9/2016	8.73	428.50	3/7-9/2016	10.05	428.45	3/7-9/2016	12.10	428.50
6/7-9/2016	9.41	427.40	6/7-9/2016	9.73	427.50	6/7-9/2016	11.05	427.45	6/7-9/2016	13.12	427.48
9/19-22/2016	9.56	427.25	9/19-22/2016	9.88	427.35	9/19-22/2016	11.20	427.30	9/19-22/2016	13.27	427.33
12/15/2016	8.33	428.48	12/15/2016	8.60	428.63	12/15/2016	9.89	428.61	12/15/2016	11.98	428.62
3/8/2017	8.92	427.89	3/8/2017	9.19	428.04	3/8/2017	10.51	427.99	3/8/2017	12.57	428.03
6/23/2017	9.30	427.51	6/23/2017	9.56	427.67	6/23/2017	10.90	427.60	6/23/2017	13.00	427.60

Notes:
TOC = Top of Inner Well Casing in Feet
DTW = Depth to Water in Feet
EL. = Elevation in Feet

Table 2-2
Static Water Level Data

Well:	DNAPL-06		Well:	DNAPL-07		Well:	DNAPL-08		Well:	DNAPL-09	
TOC =	439.71		TOC =	441.46		TOC =	441.80		TOC =	442.63	
Date	**DTW**	**Water El.**	**Date**	**DTW**	**Water El.**	**Date**	**DTW**	**Water El.**	**Date**	**DTW**	**Water El.**
3/29/2011	11.12	428.59	3/29/2011	12.25	429.21	3/29/2011	12.66	429.14	3/29/2011	13.75	428.88
6/13/2011	11.94	427.77	6/13/2011	12.84	428.62	6/13/2011	13.27	428.53	6/13/2011	14.14	428.49
9/26/2011	10.18	429.53	9/26/2011	12.86	428.60	9/26/2011	13.35	428.45	9/26/2011	14.25	428.38
12/5/2011	12.28	427.43	12/5/2011	12.88	428.58	12/5/2011	13.36	428.44	12/5/2011	14.28	428.35
3/19/2012	11.84	427.87	3/19/2012	12.61	428.85	3/19/2012	13.95	427.85	3/19/2012	13.05	429.58
6/18/2012	12.28	427.43	6/18/2012	13.11	428.35	6/18/2012	13.56	428.24	6/18/2012	14.47	428.16
9/12/2012	12.91	426.80	9/12/2012	13.76	427.70	9/12/2012	14.21	427.59	9/12/2012	15.11	427.52
12/3/2012	12.61	427.10	12/3/2012	13.75	427.71	12/3/2012	13.71	428.09	12/3/2012	14.65	427.98
3/27/2013	12.31	427.40	3/27/2013	12.80	428.66	3/27/2013	13.26	428.54	3/27/2013	14.20	428.43
6/10/2013	11.07	428.64	6/10/2013	11.85	429.61	6/10/2013	12.28	429.52	6/10/2013	13.16	429.47
9/23/2013	12.71	427.00	9/23/2013	13.26	428.20	9/23/2013	13.75	428.05	9/23/2013	13.91	428.72
12/12/2013	11.51	428.20	12/12/2013	12.19	429.27	12/12/2013	12.63	429.17	12/12/2013	13.51	429.12
3/25/2014	12.25	427.46	3/25/2014	13.01	428.45	3/25/2014	13.44	428.36	3/25/2014	14.21	428.42
6/12/2014	12.61	427.10	6/12/2014	13.12	428.34	6/12/2014	13.60	428.20	6/12/2014	14.57	428.06
9/10/2014	11.76	427.95	9/10/2014	12.91	428.55	9/10/2014	13.35	428.45	9/10/2014	14.29	428.34
12/1/2014	11.92	427.79	12/1/2014	12.55	428.91	12/1/2014	12.98	428.82	12/1/2014	13.88	428.75
4/8/2015	11.19	428.52	4/8/2015	11.71	429.75	4/8/2015	12.19	429.61	4/8/2015	13.12	429.51
6/3/2015	11.36	428.35	6/3/2015	11.88	429.58	6/3/2015	12.37	429.43	6/3/2015	13.29	429.34
9/16/2015	12.69	427.02	9/16/2015	13.32	428.14	9/16/2015	13.78	428.02	9/16/2015	14.67	427.96
12/2/2015	12.21	427.50	12/2/2015	13.03	428.43	12/2/2015	13.49	428.31	12/2/2015	14.39	428.24
3/7-9/2016	11.17	428.54	3/7-9/2016	11.91	429.55	3/7-9/2016	12.36	429.44	3/7-9/2016	13.25	429.38
6/7-9/2016	12.15	427.56	6/7-9/2016	12.98	428.48	6/7-9/2016	13.44	428.36	6/7-9/2016	14.32	428.31
9/19-22/2016	12.31	427.40	9/19-22/2016	13.22	428.24	9/19-22/2016	13.64	428.16	9/19-22/2016	14.55	428.08
12/15/2016	11.05	428.66	12/15/2016	10.80	430.66	12/15/2016	12.24	429.56	12/15/2016	13.15	429.48
3/8/2017	11.57	428.14	3/8/2017	12.37	429.09	3/8/2017	12.75	429.05	3/8/2017	13.65	428.98
6/23/2017	11.97	427.74	6/23/2017	12.70	428.76	6/23/2017	13.15	428.65	6/23/2017	14.07	428.56

Notes:
TOC = Top of Inner Well Casing in Feet
DTW = Depth to Water in Feet
EL. = Elevation in Feet

Table 2-2
Static Water Level Data

Well:	VTM-1		Well:	VTM-2		Well:	VTM-3		Well:	VTM-4		Well:	VTM-5	
TOC =	439.74		TOC =	438.33		TOC =	439.44		TOC =	441.59		TOC =	441.79	
Date	**DTW**	**Water El.**	**Date**	**DTW**	**Water El.**	**Date**	**DTW**	**Water El.**	**Date**	**DTW**	**Water El.**	**Date**	**DTW**	**Water El.**
3/29/2011	11.02	428.72	3/29/2011	9.48	428.85	3/29/2011	10.65	428.79	3/29/2011	12.81	428.78	3/29/2011	12.97	428.82
6/13/2011	11.74	428.00	6/13/2011	10.15	428.18	6/13/2011	11.32	428.12	6/13/2011	13.39	428.20	6/13/2011	13.59	428.20
9/26/2011	11.95	427.79	9/26/2011	10.41	427.92	9/26/2011	11.61	427.83	9/26/2011	13.66	427.93	9/26/2011	13.82	427.97
12/5/2011	12.01	427.73	12/5/2011	10.48	427.85	12/5/2011	11.62	427.82	12/5/2011	13.61	427.98	12/5/2011	13.81	427.98
3/19/2012	11.49	428.25	3/19/2012	9.91	428.42	3/19/2012	11.11	428.33	3/19/2012	13.16	428.43	3/19/2012	13.33	428.46
6/18/2012	12.01	427.73	6/18/2012	10.46	427.87	6/18/2012	11.66	427.78	6/18/2012	13.70	427.89	6/18/2012	13.89	427.90
12/3/2012	12.31	427.43	12/3/2012	10.82	427.51	12/3/2012	11.98	427.46	12/3/2012	13.84	427.75	12/3/2012	14.06	427.73
3/27/2013	11.83	427.91	3/27/2013	10.82	427.51	3/27/2013	11.48	427.96	3/27/2013	13.51	428.08	3/27/2013	13.69	428.10
6/10/2013	10.45	429.29	6/10/2013	8.75	429.58	6/10/2013	9.98	429.46	6/10/2013	12.08	429.51	6/10/2013	13.16	428.63
9/23/2013	12.19	427.55	9/23/2013	10.63	427.70	9/23/2013	11.79	427.65	9/23/2013	15.75	425.84	9/23/2013	13.91	427.88
12/12/2013	10.91	428.83	12/12/2013	9.31	429.02	12/12/2013	10.46	428.98	12/12/2013	12.51	429.08	12/12/2013	12.56	429.23
3/25/2014	11.69	428.05	3/25/2014	10.01	428.32	3/25/2014	11.17	428.27	3/25/2014	13.32	428.27	3/25/2014	13.35	428.44
6/12/2014	11.94	427.80	6/12/2014	10.28	428.05	6/12/2014	11.45	427.99	6/12/2014	13.48	428.11	6/12/2014	13.63	428.16
9/10/2014	11.62	428.12	9/10/2014	9.91	428.42	9/10/2014	11.10	428.34	9/10/2014	13.14	428.45	9/10/2014	13.31	428.48
12/1/2014	11.55	428.19	12/1/2014	9.79	428.54	12/1/2014	10.92	428.52	12/1/2014	12.91	428.68	12/1/2014	13.09	428.70
4/8/2015	11.06	428.68	4/8/2015	9.49	428.84	4/8/2015	11.65	427.79	4/8/2015	12.65	428.94	4/8/2015	12.81	428.98
6/3/2015	11.21	428.53	6/3/2015	9.55	428.78	6/3/2015	10.72	428.72	6/3/2015	12.68	428.91	6/3/2015	12.86	428.93
9/16/2015	12.55	427.19	9/16/2015	10.75	427.58	9/16/2015	11.85	427.59	9/16/2015	13.73	427.86	9/16/2015	14.67	427.12
12/2/2015	12.12	427.62	12/2/2015	10.53	427.80	12/2/2015	11.68	427.76	12/2/2015	13.58	428.01	12/2/2015	13.74	428.05
3/7-9/2016	10.98	428.76	3/7-9/2016	9.25	429.08	3/7-9/2016	10.36	429.08	3/7-9/2016	12.32	429.27	3/7-9/2016	12.49	429.30
6/7-9/2016	11.98	427.76	6/7-9/2016	10.29	428.04	6/7-9/2016	11.43	428.01	6/7-9/2016	13.44	428.15	6/7-9/2016	13.61	428.18
9/19-22/2016	12.23	427.51	9/19-22/2016	10.56	427.77	9/19-22/2016	11.71	427.73	9/19-22/2016	13.65	427.94	9/19-22/2016	13.82	427.97
12/15/2016	10.99	428.75	12/15/2016	9.33	429.00	12/15/2016	10.49	428.95	12/15/2016	12.49	429.10	12/15/2016	12.54	429.25
3/8/2017	11.24	428.50	3/8/2017	9.52	428.81	3/8/2017	10.65	428.79	3/8/2017	12.58	429.01	3/8/2017	12.76	429.03
6/23/2017	11.80	427.94	6/23/2017	10.10	428.23	6/23/2017	11.21	428.23	6/23/2017	13.15	428.44	6/23/2017	13.29	428.50

Notes:
TOC = Top of Inner Well Casing in Feet
DTW = Depth to Water in Feet
EL. = Elevation in Feet

Table 2-2
Static Water Level Data

Well	LTMW-D01		LTMW-S01		LTMW-D02		LTMW-S02		LTMW-D03		LTMW-S03		LTMW-D04		LTMW-S04	
TOC =	434.90		435.52		436.74		436.79		431.27		431.43		437.18		437.24	
Date	DTW	Water El.	DTW	Water El.	DTW	Water El.	DTW	Water El.	DTW	Water El.	DTW	Water El.	DTW	Water El.	DTW	Water El.
3/28-29/2011	7.83	427.07	7.85	427.67	9.68	427.06	9.43	427.36	4.41	426.86	3.34	428.09	9.07	428.11	8.91	428.33
6/13/2011	7.61	427.29	8.36	427.16	10.27	426.47	9.95	426.84	4.78	426.49	3.75	427.68	9.42	427.76	9.17	428.07
9/26/2011	8.38	426.52	8.45	427.07	10.45	426.29	10.18	426.61	4.71	426.56	3.93	427.50	9.45	427.73	9.44	427.80
12/5/2011	8.16	426.74	8.31	427.21	10.12	426.62	9.61	427.18	4.63	426.64	3.35	428.08	9.39	427.79	8.81	428.43
3/19/2012	8.01	426.89	8.11	427.41	9.92	426.82	9.46	427.33	4.50	426.77	3.04	428.39	9.24	427.94	8.29	428.95
6/18/2012	8.35	426.55	8.61	426.91	10.35	426.39	10.26	426.53	5.10	426.17	4.08	427.35	8.76	428.42	9.48	427.76
9/12/2012	8.84	426.06	8.91	426.61	10.76	425.98	10.35	426.44	5.39	425.88	4.17	427.26	10.20	426.98	9.62	427.62
12/3/2012	8.65	426.25	8.60	426.92	10.42	426.32	9.90	426.89	5.08	426.19	3.80	427.63	9.85	427.33	9.91	427.33
3/27/2013	8.27	426.63	8.64	426.88	10.28	426.46	9.98	426.81	4.84	426.43	3.87	427.56	9.61	427.57	9.36	427.88
6/10/2013	7.17	427.73	7.52	428.00	9.09	427.65	8.73	428.06	3.52	427.75	2.18	429.25	7.99	429.19	6.99	430.25
9/23/2013	8.36	426.54	8.75	426.77	10.28	426.46	10.28	426.51	5.11	426.16	4.05	427.38	9.84	427.34	9.52	427.72
12/12/2013	7.61	427.29	7.64	427.88	9.19	427.55	8.75	428.04	3.97	427.30	1.99	429.44	8.57	428.61	7.45	429.79
3/25/2014	8.22	426.68	8.50	427.02	10.11	426.63	10.19	426.60	4.71	426.56	4.09	427.34	9.56	427.62	9.43	427.81
6/12/2014	8.68	426.22	8.24	427.28	10.57	426.17	10.26	426.53	4.71	426.56	4.11	427.32	9.60	427.58	9.42	427.82
9/10/2014	8.14	426.76	8.12	427.40	9.99	426.75	9.64	427.15	4.58	426.69	3.19	428.24	9.30	427.88	8.70	428.54
12/1/2014	7.94	426.96	8.15	427.37	9.75	426.99	9.64	427.15	4.11	427.16	3.13	428.30	9.09	428.09	8.57	428.67
4/8/2015	7.34	427.56	7.99	427.53	9.58	427.16	9.71	427.08	4.01	427.26	3.54	427.89	8.85	428.33	8.75	428.49
6/3/2015	8.07	426.83	8.03	427.49	10.02	426.72	10.13	426.66	4.45	426.82	3.92	427.51	9.35	427.83	9.27	427.97
9/16/2015	8.30	426.60	8.76	426.76	10.29	426.45	10.32	426.47	4.91	426.36	4.15	427.28	9.69	427.49	9.52	427.72
12/3/2015	7.71	427.19	8.29	427.23	9.85	426.89	9.74	427.05	4.38	426.89	3.51	427.92	9.63	427.55	8.65	428.59
3/7-9/2016	7.75	427.15	7.18	428.34	9.05	427.69	9.15	427.64	3.69	427.58	2.45	428.98	8.55	428.63	7.85	429.39
6/7-9/2016	8.56	426.34	7.85	427.67	10.16	426.58	10.21	426.58	4.75	426.52	4.07	427.36	9.47	427.71	9.38	427.86
9/19-22/16	8.78	426.12	8.73	426.79	10.70	426.04	10.41	426.38	5.26	426.01	4.25	427.18	10.03	427.15	9.61	427.63
12/15/2016	8.11	426.79	8.02	427.50	10.03	426.71	9.73	427.06	4.55	426.72	3.28	428.15	9.32	427.86	8.41	428.83
3/8/2017	8.13	426.77	8.27	427.25	10.11	426.63	9.79	427.00	4.48	426.79	3.53	427.90	9.00	428.18	8.79	428.45
6/23/2017	8.30	426.60	8.53	426.99	10.45	426.29	10.27	426.52	4.91	426.36	4.05	427.38	9.58	427.60	9.45	427.79

Notes:

TOC = Top of Inner Well Casing in Feet

DTW = Depth to Water in Feet

EL. = Elevation in Feet

Table 2-2
Static Water Level Data

Well	LTMW-D05		LTMW-S05		LTMW-D06		LTMW-S06		LTMW-S07		LTMW-S08		LTMW-S09		LTMW-S10	
TOC =	437.78		437.92		441.70		441.64		439.70		443.81		439.79		439.67	
Date	DTW	Water El.	DTW	Water El.	DTW	Water El.	DTW	Water El.	DTW	Water El.	DTW	Water El.	DTW	Water El.	DTW	Water El.
3/28-29/2011	8.08	429.70	9.12	428.80	11.62	430.08	12.41	429.23	10.08	429.62	14.46	429.35	10.14	429.65	9.75	429.92
6/13/2011	8.91	428.87	9.34	428.58	11.99	429.71	12.88	428.76	10.79	428.91	15.03	428.78	9.49	430.30	10.29	429.38
9/26/2011	9.32	428.46	9.53	428.39	12.40	429.30	13.20	428.44	11.01	428.69	15.21	428.60	9.55	430.24	10.31	429.36
12/5/2011	9.02	428.76	9.08	428.84	12.22	429.48	13.04	428.60	10.97	428.73	15.19	428.62	9.58	430.21	10.34	429.33
3/19/2012	8.79	428.99	9.04	428.88	12.12	429.58	12.99	428.65	11.05	428.65	15.19	428.62	9.73	430.06	10.43	429.24
6/18/2012	9.26	428.52	9.51	428.41	12.41	429.29	13.23	428.41	11.31	428.39	15.40	428.41	9.81	429.98	10.56	429.11
9/12/2012	9.76	428.02	9.64	428.28	12.81	428.89	13.69	427.95	11.97	427.73	15.95	427.86	10.58	429.21	11.27	428.40
12/3/2012	9.51	428.27	9.48	428.44	13.43	428.27	12.78	428.86	11.59	428.11	15.72	428.09	10.25	429.54	10.91	428.76
3/27/2013	9.13	428.65	9.45	428.47	12.16	429.54	13.10	428.54	10.92	428.78	15.27	428.54	9.55	430.24	10.31	429.36
6/10/2013	7.55	430.23	7.48	430.44	11.15	430.55	11.78	429.86	10.27	429.43	14.12	429.69	9.43	430.36	10.17	429.50
9/23/2013	8.94	428.84	9.52	428.40	12.36	429.34	13.21	428.43	11.39	428.31	15.46	428.35	9.86	429.93	10.64	429.03
12/12/2013	7.96	429.82	7.85	430.07	11.20	430.50	11.87	429.77	10.16	429.54	14.11	429.70	8.95	430.84	9.63	430.04
3/25/2014	9.03	428.75	8.50	429.42	11.95	429.75	12.81	428.83	10.85	428.85	15.03	428.78	9.11	430.68	9.93	429.74
6/12/2014	9.02	428.76	9.52	428.40	12.28	429.42	13.08	428.56	11.14	428.56	15.34	428.47	9.63	430.16	10.46	429.21
9/10/2014	8.85	428.93	8.97	428.95	11.91	429.79	12.68	428.96	10.96	428.74	15.34	428.47	9.35	430.44	10.29	429.38
12/1/2014	8.28	429.50	8.91	429.01	11.77	429.93	12.49	429.15	10.97	428.73	14.78	429.03	9.31	430.48	9.93	429.74
4/8/2015	8.74	429.04	9.36	428.56	11.67	430.03	12.55	429.09	10.06	429.64	14.85	428.96	8.89	430.90	9.54	430.13
6/3/2015	9.25	428.53	9.41	428.51	12.15	429.55	12.93	428.71	10.81	428.89	15.21	428.60	9.15	430.64	9.93	429.74
9/16/2015	8.97	428.81	9.51	428.41	12.58	429.12	13.25	428.39	11.54	428.16	15.65	428.16	9.89	429.90	10.65	429.02
12/2/2015	8.77	429.01	9.21	428.71	12.31	429.39	13.20	428.44	11.55	428.15	15.67	428.14	10.40	429.39	10.95	428.72
3/7-9/2016	7.85	429.93	8.27	429.65	11.16	430.54	12.13	429.51	9.94	429.76	14.48	429.33	9.05	430.74	9.65	430.02
6/7-9/2016	8.82	428.96	9.53	428.39	11.98	429.72	13.03	428.61	11.01	428.69	15.36	428.45	9.81	429.98	10.41	429.26
9/19-22/2016	9.63	428.15	9.65	428.27	12.61	429.09	13.24	428.40	11.44	428.26	15.59	428.22	9.82	429.97	10.68	428.99
12/15/2016	8.80	428.98	9.00	428.92	12.28	429.42	11.70	429.94	9.89	429.81	14.50	429.31	8.60	431.19	9.30	430.37
3/8/2017	8.26	429.52	7.54	430.38	11.52	430.18	11.78	429.86	10.39	429.31	14.69	429.12	9.21	430.58	9.98	429.69
6/23/2017	9.14	428.64	9.60	428.32	12.07	429.63	12.88	428.76	10.73	428.97	15.22	428.59	12.88	426.91	10.18	429.49

Notes:

TOC = Top of Inner Well Casing in Feet

DTW = Depth to Water in Feet

EL. = Elevation in Feet

National Grid Kingsley Avenue Site
Rome, New York

Table 2-3
Groundwater Analytical Data

Sample Well Number LTMW-D01

Parameter	EPA - Maximum Allowable (ug/L)	NYSDEC AWQS (ug/l)	Reporting Level (ug/L)	19-Mar-12	18-Jun-12	12-Sep-12	03-Dec-12	27-Mar-13	10-Jun-13	23-Sep-13	12-Dec-13	25-Mar-14	11-Jun-14	09-Sep-14	4-Dec-14	08-Apr-15	03-Jun-15	16-Sep-15	03-Dec-15	04-Mar-16	09-Jun-16	21-Sep-16	7-Dec-16	8-Mar-17	7-Jun-17
Benzene	5	1	1	360	1100	590	410	880	4900	14000	8400	4700	5700	2800	1100	540	5100	1700	1500	4800	1700	5310	8990	5800	**5290**
Toluene	1000	5	1	66	180	110	93	280	2600	4300	2200	1000	1500	580	240	300	1300	430	340	1100	340	1090	2080	1320	**1470**
Ethylbenzene	700	5	1	11	20	14	7.4	28	280	390	200	53	110	ND	7.8	26	84	53	54	82	ND	167	241	145	**137**
Xylene (total)	10000	5	2	ND	26	ND	5.5	53	510	450	ND	ND	170	ND	46	68	160	ND	ND	170	ND	176	254	206	**201**
Acenaphthene	N/A	20	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.59	0.43	0.19	0.10
Acenaphthylene	N/A	NA	4.9	ND	ND	ND	ND	ND	9.6	8.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.0	6.2	0.31	0.11
Anthracene	N/A	NA	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	N/A	ND	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	0.2	NA	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cyanide	N/A	200	10	13	ND	ND	11	ND	ND	10	13	ND	ND	ND	ND	ND	ND	ND	ND	13	ND	ND	0.014	0.011	ND
Dibenzo(a,h)anthracene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.51	0.35	0.15	ND
Indeno(1,2,3-cd)pyrene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	N/A	10	4.9	ND	ND	ND	ND	ND	24	24	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	97.1	229	ND	ND
Phenanthrene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	N/A	25	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Lead	N/A	25	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	N/A	2000	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

National Grid Kingsley Avenue Site
Rome, New York

Table 2-3
Groundwater Analytical Data

Sample Well Number LTMW-S01

Parameter	EPA - Maximum Allowable (ug/L)	NYSDEC AWQS (ug/l)	Reporting Level (ug/L)	19-Mar-12	18-Jun-12	12-Sep-12	03-Dec-12	27-Mar-13	10-Jun-13	23-Sep-13	12-Dec-13	25-Mar-14	11-Jun-14	09-Sep-14	4-Dec-14	08-Apr-15	03-Jun-15	16-Sep-15	03-Dec-15	04-Mar-16	09-Jun-16	21-Sep-16	7-Dec-16	8-Mar-17	7-Jun-17
Benzene	5	1	1	2.7	1.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	3600	ND	ND	ND	ND	ND	ND	ND	ND	ND	**ND**
Toluene	1000	5	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	470	ND	ND	ND	ND	ND	ND	ND	ND	ND	**ND**
Ethylbenzene	700	5	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.2	ND	**ND**
Xylene (total)	10000	5	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**ND**
Acenaphthene	N/A	20	4.9	120	120	140	150	130	79	85	100	99	83	56 H J	94	70	68	72	79 E	76	120	125	91.2	69.4	56.40
Acenaphthylene	N/A	NA	4.9	6.4	6.6	6.7	6.8	5.9	ND	5.1	ND	ND	5.1	ND	ND	ND	4.7	ND	ND	ND	ND	4.1	3	3.2	2.5
Anthracene	N/A	NA	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.44	0.38	0.52	0.28
Benzo(a)anthracene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	N/A	ND	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	0.2	NA	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cyanide	N/A	200	10	16	23	23	26	21	ND	32	16	19	28	22	ND	23	16	23	20	20	21	ND	0.013	0.055	0.018
Dibenzo(a,h)anthracene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	N/A	50	4.9	ND	5.4	7.3	5.1	5.9	ND	5.5	ND	ND	5.4	ND	ND	ND	ND	ND	ND	ND	ND	4.9	4	3.6	2.8
Fluorene	N/A	0.002	4.9	30	38	49	41	31	24	29	26	ND	27	20 H J	28	18	26	25	23	21	28	34.1	27.6	19.9	12.6
Indeno(1,2,3-cd)pyrene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	N/A	10	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.2	0.38	0.4	0.15
Phenanthrene	N/A	50	4.9	44	56	64	47	29	27	28	17	ND	25	7.7 H J	10	ND	9.4	ND	ND	ND	ND	0.25	0.74	1.7	ND
Pyrene	N/A	50	4.9	ND	ND	6.6	4.9	ND	ND	5.6	ND	ND	5.3	ND	ND	ND	ND	ND	ND	ND	ND	5	4.2	3.6	2.7
Arsenic	N/A	25	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Lead	N/A	25	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.9	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	N/A	2000	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	28	ND	ND	ND	ND	ND	ND	ND	ND

National Grid Kingsley Avenue Site
Rome, New York

Table 2-3
Groundwater Analytical Data

Sample Well Number LTMW-D02

Parameter	EPA - Maximum Allowable (ug/L)	NYSDEC AWQS (ug/l)	Reporting Level (ug/L)	19-Mar-12	18-Jun-12	12-Sep-12	03-Dec-12	27-Mar-13	10-Jun-13	23-Sep-13	12-Dec-13	25-Mar-14	11-Jun-14	09-Sep-14	4-Dec-14	08-Apr-15	03-Jun-15	16-Sep-15	03-Dec-15	04-Mar-16	09-Jun-16	20-Sep-16	7-Dec-16	8-Mar-17	7-Jun-17
Benzene	5	1	1	2.6	2.9	2.3	1.7	ND	1.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**ND**
Toluene	1000	5	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**ND**
Ethylbenzene	700	5	1	ND	1.9	1.3	ND	ND	1.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**ND**
Xylene (total)	10000	5	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**ND**
Acenaphthene	N/A	20	4.9	7.9	10	8.9	7	8.3	ND	11	ND	7	7.4	3.8 H J	7.4	5.8	ND	ND	ND	ND	ND	3.3	2.2	1.6	ND
Acenaphthylene	N/A	NA	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.8	0.43	0.39	ND
Anthracene	N/A	NA	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	N/A	ND	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	0.2	NA	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cyanide	N/A	200	10	16	23	17	14	19	19	49	ND	ND	100	110	ND	130	110	16	ND	93	85	ND	0.15	0.2	ND
Dibenzo(a,h)anthracene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	N/A	10	4.9	25	21	21	21	5.9	5.9	6.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.16	ND	ND	ND
Phenanthrene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	N/A	25	10	ND	ND	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Lead	N/A	25	5	ND	ND	ND	ND	ND	ND	ND	ND	11	ND	ND	ND	ND	6	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	N/A	2000	10	ND	ND	ND	ND	ND	ND	ND	ND	83	ND	ND	0.021	ND	22	110	11	13	61	ND	ND	ND	ND

Table 2-3
Groundwater Analytical Data

Sample Well Number LTMW-S02

Parameter	EPA - Maximum Allowable (ug/L)	NYSDEC AWQS (ug/l)	Reporting Level (ug/L)	19-Mar-12	18-Jun-12	12-Sep-12	03-Dec-12	27-Mar-13	10-Jun-13	23-Sep-13	12-Dec-13	25-Mar-14	11-Jun-14	09-Sep-14	4-Dec-14	08-Apr-15	03-Jun-15	16-Sep-15	03-Dec-15	04-Mar-16	09-Jun-16	20-Sep-16	7-Dec-16	8-Mar-17	7-Jun-17
Benzene	5	1	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	1000	5	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	700	5	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylene (total)	10000	5	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	N/A	20	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	N/A	NA	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	N/A	NA	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	N/A	ND	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	0.2	NA	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cyanide	N/A	200	10	310	260	280	200	130	140	270	150	130	140	160	ND	81	35	190	120	130	150	ND	0.13	0.075	0.073
Dibenzo(a,h)anthracene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	N/A	10	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.15	ND	ND	ND
Phenanthrene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	N/A	25	10	25	25	25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	15	15	5.1	ND	7.7	ND
Lead	N/A	25	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	N/A	2000	10	30	30	30	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

National Grid Kingsley Avenue Site
Rome, New York

Table 2-3
Groundwater Analytical Data

Sample Well Number LTMW-D03

Parameter	EPA - Maximum Allowable (ug/L)	NYSDEC AWQS (ug/l)	Reporting Level (ug/L)	19-Mar-12	18-Jun-12	12-Sep-12	03-Dec-12	27-Mar-13	10-Jun-13	23-Sep-13	12-Dec-13	25-Mar-14	11-Jun-14	10-Sep-14	4-Dec-14	08-Apr-15	03-Jun-15	16-Sep-15	03-Dec-15	04-Mar-16	09-Jun-16	20-Sep-16	7-Dec-16	8-Mar-17	7-Jun-17
Benzene	5	1	1	480	61	99	110	28	34	25	22	16	15	11	12	6.7	9.3	9.3	10	8.9	20	15.9	27.1	10.2	8.5
Toluene	1000	5	1	600	25	72	100	5.2	22	8.4	5.6	4.4	5.3	ND	4.2	2	3.4	2.2	ND	ND	20	13.9	55	5.9	1.9
Ethylbenzene	700	5	1	350	520	220	210	1	220	210	200	120	170	150	190	73	100	87	76	86	58	69.6	23.9	63.7	44
Xylene (total)	10000	5	2	460	150	110	130	8.3	76	58	45	25	42	28	41	15	22	16	16	14	42	30.1	25.7	13.5	5.6
Acenaphthene	N/A	20	4.9	ND	29	9.7	ND	ND	ND	20	13	ND	11	4.9 H J	14	10	14	16	12	11	ND	411.9	ND	10.7	3.70
Acenaphthylene	N/A	NA	4.9	24	52	31	ND	ND	ND	14	13	ND	7.3	ND	5.9	ND	ND	ND	ND	ND	ND	34.7	10.6	3.1	2.5
Anthracene	N/A	NA	4.9	9	12	7.5	ND	ND	ND	7.1	5.7	ND	ND	ND	5.7	ND	5.6	5.4	ND	ND	ND	5.2	ND	5.6	0.3
Benzo(a)anthracene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.43	ND	0.42	ND
Benzo(a)pyrene	N/A	ND	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	0.2	NA	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.21	ND	0.25	ND
Cyanide	N/A	200	10	83	120	98	80	77	79	86	86	76	76	ND	44	64	67	78	71	75	93	77	0.079	0.084	0.076
Dibenzo(a,h)anthracene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	N/A	50	4.9	9	12	11	ND	ND	ND	9.3	7.4	ND	5.7	ND	7.1	ND	6.7	6.6	5.6	6.2	ND	6.2	ND	6.1	2.9
Fluorene	N/A	0.002	4.9	14	29	15	ND	ND	ND	18	12	ND	11	4.3 H J	12	6.8	11	10	9.3	7.8	ND	11.5	ND	7.1	13.2
Indeno(1,2,3-cd)pyrene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	9.4	ND	ND
Naphthalene	N/A	10	4.9	22	740	580	420	ND	300	170	330	230	100	74 H J	150	14	47	29	24	13	81	556	284	32.2	0.15
Phenanthrene	N/A	50	4.9	31	55	34	30	ND	50	38	35	ND	27	9.6 H J	31	17	28	30	25	27	25	29.5	1.5	30.3	0.11
Pyrene	N/A	50	4.9	9.9	15	15	ND	5.4	ND	13	10	ND	ND	ND	9.8	6	8.9	8.6	7.2	8.3	8.3	8.3	1.2	7.6	2.8
Arsenic	N/A	25	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Lead	N/A	25	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	N/A	2000	10	ND	ND	ND	ND	ND	0.11	0.11	ND	ND	ND	ND	0.01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

National Grid Kingsley Avenue Site
Rome, New York

Table 2-3
Groundwater Analytical Data

Sample Well Number LTMW-S03

Parameter	EPA - Maximum Allowable (ug/L)	NYSDEC AWQS (ug/l)	Reporting Level (ug/L)	19-Mar-12	18-Jun-12	12-Sep-12	03-Dec-12	27-Mar-13	10-Jun-13	23-Sep-13	12-Dec-13	25-Mar-14	11-Jun-14	10-Sep-14	4-Dec-14	08-Apr-15	03-Jun-15	16-Sep-15	03-Dec-15	04-Mar-16	09-Jun-16	20-Sep-16	7-Dec-16	8-Mar-17	7-Jun-17
Benzene	5	1	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	1000	5	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	700	5	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylene (total)	10000	5	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	N/A	20	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	N/A	NA	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	N/A	NA	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	N/A	ND	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	0.2	NA	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cyanide	N/A	200	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	72 J	ND	ND	ND	ND	ND	ND	11	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.15	ND	ND
Indeno(1,2,3-cd)pyrene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	N/A	10	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.16	0.17	ND	ND
Phenanthrene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.11	ND	ND
Pyrene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	N/A	25	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Lead	N/A	25	5	ND	8	6.6	5.8	ND	ND	60	ND	10	7.9	11	ND	15	30	5.9	5.9	ND	ND	ND	ND	ND	ND	ND
Zinc	N/A	2000	10	8200	7000	7500	8800	5600	6700	10800	5900	7500	5800	5600	4600	5600	7300	5500	4400	4600	4300	4300	4600	5330	4250

National Grid Kingsley Avenue Site
Rome, New York

Table 2-3
Groundwater Analytical Data

Sample Well Number LTMW-D04

Parameter	EPA - Maximum Allowable (ug/L)	NYSDEC AWQS (ug/l)	Reporting Level (ug/L)	19-Mar-12	18-Jun-12	12-Sep-12	03-Dec-12	27-Mar-13	10-Jun-13	23-Sep-13	11-Dec-13	25-Mar-14	11-Jun-14	10-Sep-14	4-Dec-14	08-Apr-15	03-Jun-15	16-Sep-15	03-Dec-15	04-Mar-16	09-Jun-16	20-Sep-16	7-Dec-16	8-Mar-17	7-Jun-17
Benzene	5	1	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	1000	5	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	700	5	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylene (total)	10000	5	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	N/A	20	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	N/A	NA	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	N/A	NA	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	N/A	ND	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	0.2	NA	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cyanide	N/A	200	10	ND	ND	57	ND	ND	13	16	13	ND	15	12	ND	13	15	14	11.5	10	ND	10	ND	ND	ND	ND
Dibenzo(a,h)anthracene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	N/A	10	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	N/A	25	10	ND	ND	ND	ND	ND	ND	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	35.3
Lead	N/A	25	5	ND	ND	ND	ND	ND	ND	5.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	N/A	2000	10	ND	ND	22	ND	ND	ND	16	ND	ND	ND	ND	0.013	ND	ND	ND	490	490	ND	ND	ND	ND	ND	ND

National Grid Kingsley Avenue Site
Rome, New York

Table 2-3
Groundwater Analytical Data

Sample Well Number LTMW-S04

Parameter	EPA - Maximum Allowable (ug/L)	NYSDEC AWQS (ug/l)	Reporting Level (ug/L)	19-Mar-12	18-Jun-12	12-Sep-12	03-Dec-12	27-Mar-13	10-Jun-13	11-Dec-13	25-Mar-14	11-Jun-14	10-Sep-14	04-Dec-14	8-Apr-15	03-Jun-15	16-Sep-15	03-Dec-15	04-Mar-16	09-Jun-16	20-Sep-16	7-Dec-16	8-Mar-17	7-Jun-17
Benzene	5	1	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	1000	5	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	700	5	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylene (total)	10000	5	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	N/A	20	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	N/A	NA	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	N/A	NA	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	N/A	ND	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	0.2	NA	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cyanide	N/A	200	10	920	24	ND	520	170	190	770	300	350	580	680	870	400	800	170	450	600	59	2	0.9	1.2
Dibenzo(a,h)anthracene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	N/A	10	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	N/A	25	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Lead	N/A	25	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	N/A	2000	10	330	790	ND	1600	890	83	580	560	310	330	120	180	610	140	ND	510	340	23	618	358	108

National Grid Kingsley Avenue Site
Rome, New York

Table 2-3
Groundwater Analytical Data

Sample Well Number LTMW-D05

Parameter	EPA - Maximum Allowable (ug/L)	NYSDEC AWQS (ug/l)	Reporting Level (ug/L)	19-Mar-12	18-Jun-12	12-Sep-12	03-Dec-12	27-Mar-13	10-Jun-13	23-Sep-13	11-Dec-13	25-Mar-14	11-Jun-14	10-Sep-14	4-Dec-14	08-Apr-15	03-Jun-15	16-Sep-15	03-Dec-15	04-Mar-16	09-Jun-16	19-Sep-16	7-Dec-16	8-Mar-17	7-Jun-17
Benzene	5	1	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	1000	5	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	700	5	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylene (total)	10000	5	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	N/A	20	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	N/A	NA	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	N/A	NA	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	N/A	ND	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	0.2	NA	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cyanide	N/A	200	10	ND	ND	ND	ND	10	ND	ND	ND	140	ND	ND	ND	ND	ND	ND	ND	ND	13	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	N/A	10	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	N/A	25	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Lead	N/A	25	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	N/A	2000	10	ND	ND	ND	ND	ND	ND	ND	ND	39	ND	ND	0.013	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

National Grid Kingsley Avenue Site
Rome, New York

Table 2-3
Groundwater Analytical Data

Sample Well Number LTMW-S05

Parameter	EPA - Maximum Allowable (ug/L)	NYSDEC AWQS (ug/l)	Reporting Level (ug/L)	19-Mar-12	18-Jun-12	12-Sep-12	03-Dec-12	27-Mar-13	10-Jun-13	23-Sep-13	11-Dec-13	25-Mar-14	11-Jun-14	10-Sep-14	4-Dec-14	08-Apr-15	03-Jun-15	16-Sep-15	03-Dec-15	04-Mar-16	09-Jun-16	19-Sep-16	7-Dec-16	8-Mar-17	7-Jun-17
Benzene	5	1	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5800	ND
Toluene	1000	5	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1320	ND
Ethylbenzene	700	5	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	145	ND
Xylene (total)	10000	5	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	206	ND
Acenaphthene	N/A	20	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.19	ND
Acenaphthylene	N/A	NA	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.31	ND
Anthracene	N/A	NA	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	N/A	ND	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	0.2	NA	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cyanide	N/A	200	10	340	230	270	190	61	110	99	750	ND	260	150	94	140	190	220	160	450	250	16	0.83	0.51	0.57
Dibenzo(a,h)anthracene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.15	ND
Indeno(1,2,3-cd)pyrene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	N/A	10	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	N/A	25	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Lead	N/A	25	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND	ND	5.4	ND
Zinc	N/A	2000	10	ND	ND	ND	58	ND	ND	23	ND	ND	ND	11	13	75	ND	27	ND	ND	19	23	ND	27.5	ND

National Grid Kingsley Avenue Site
Rome, New York

Table 2-3
Groundwater Analytical Data

Sample Well Number LTMW-D06

Parameter	EPA - Maximum Allowable (ug/L)	NYSDEC AWQS (ug/l)	Reporting Level (ug/L)	19-Mar-12	18-Jun-12	12-Sep-12	03-Dec-12	27-Mar-13	10-Jun-13	10-Jun-13	11-Dec-13	25-Mar-14	11-Jun-14	08-Sep-14	4-Dec-14	08-Apr-15	03-Jun-15	16-Sep-15	03-Dec-15	04-Mar-16	09-Jun-16	19-Sep-16	7-Dec-16	8-Mar-17	7-Jun-17
Benzene	5	1	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	1000	5	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	700	5	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylene (total)	10000	5	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	N/A	20	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	N/A	NA	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	N/A	NA	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	N/A	ND	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	0.2	NA	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cyanide	N/A	200	10	ND	ND	ND	34	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.092	ND	ND	ND
Dibenzo(a,h)anthracene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	N/A	10	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.1	ND	ND
Arsenic	N/A	25	10	ND	ND	ND	ND	ND	ND	ND	14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.64	ND	ND	8.1
Lead	N/A	25	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	N/A	2000	10	ND	ND	ND	ND	ND	ND	ND	12	ND	ND	ND	0.015	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

National Grid Kingsley Avenue Site
Rome, New York

Table 2-3
Groundwater Analytical Data

Sample Well Number LTMW-S06

Parameter	EPA - Maximum Allowable (ug/L)	NYSDEC AWQS (ug/l)	Reporting Level (ug/L)	19-Mar-12	18-Jun-12	12-Sep-12	03-Dec-12	27-Mar-13	10-Jun-13	23-Sep-13	11-Dec-13	25-Mar-14	11-Jun-14	08-Sep-14	4-Dec-14	08-Apr-15	03-Jun-15	16-Sep-15	03-Dec-15	04-Mar-16	09-Jun-16	19-Sep-16	7-Dec-16	8-Mar-17	7-Jun-17
Benzene	5	1	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	1000	5	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	700	5	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylene (total)	10000	5	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	N/A	20	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	N/A	NA	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	N/A	NA	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	N/A	ND	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	0.2	NA	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cyanide	N/A	200	10	60	65	32	ND	85	22	40	25	71	110	66	17	100	ND	32	19	32	66	31	ND	0.19	0.079
Dibenzo(a,h)anthracene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	N/A	10	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	N/A	25	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	9	ND	ND
Lead	N/A	25	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	N/A	2000	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.01	0.01	ND	ND	ND	18	ND	ND	ND	ND	ND	ND

National Grid Kingsley Avenue Site
Rome, New York

Table 2-3
Groundwater Analytical Data

Sample Well Number LTMW-S07

Parameter	EPA - Maximum Allowable (ug/L)	NYSDEC AWQS (ug/l)	Reporting Level (ug/L)	19-Mar-12	18-Jun-12	12-Sep-12	03-Dec-12	27-Mar-13	10-Jun-13	23-Sep-13	10-Dec-13	25-Mar-14	11-Jun-14	08-Sep-14	4-Dec-14	08-Apr-15	03-Jun-15	16-Sep-15	03-Dec-15	04-Mar-16	09-Jun-16	21-Sep-16	7-Dec-16	8-Mar-17	7-Jun-17
Benzene	5	1	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	1000	5	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	700	5	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylene (total)	10000	5	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	N/A	20	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	N/A	NA	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	N/A	NA	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	N/A	ND	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	0.2	NA	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cyanide	N/A	200	10	ND	ND	13	13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	N/A	10	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	N/A	25	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Lead	N/A	25	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	N/A	2000	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

National Grid Kingsley Avenue Site
Rome, New York

Table 2-3
Groundwater Analytical Data

Sample Well Number LTMW-S08

Parameter	EPA - Maximum Allowable (ug/L)	NYSDEC AWQS (ug/l)	Reporting Level (ug/L)	19-Mar-12	18-Jun-12	12-Sep-12	03-Dec-12	27-Mar-13	10-Jun-13	23-Sep-13	10-Dec-13	25-Mar-14	11-Jun-14	08-Sep-14	4-Dec-14	08-Apr-15	03-Jun-15	16-Sep-15	03-Dec-15	04-Mar-16	09-Jun-16	19-Sep-16	7-Dec-16	8-Mar-17	7-Jun-17
Benzene	5	1	1	ND	ND	ND	ND	ND	ND	ND	5.5	ND	ND	ND	ND	2.4	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	1000	5	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	700	5	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylene (total)	10000	5	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	N/A	20	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	N/A	NA	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	N/A	NA	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	N/A	ND	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	0.2	NA	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cyanide	N/A	200	10	91	71	84	58	120	140	95	260	ND	130	110	170	560	120	100	100	280	120	120	0.14	0.24	0.016
Dibenzo(a,h)anthracene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	N/A	10	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.12	ND	ND
Phenanthrene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	N/A	25	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Lead	N/A	25	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	N/A	2000	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

National Grid Kingsley Avenue Site
Rome, New York

Table 2-3
Groundwater Analytical Data

Sample Well Number LTMW-S09

Parameter	EPA - Maximum Allowable (ug/L)	NYSDEC AWQS (ug/l)	Reporting Level (ug/L)	19-Mar-12	18-Jun-12	12-Sep-12	03-Dec-12	27-Mar-13	10-Jun-13	23-Sep-13	10-Dec-13	25-Mar-14	11-Jun-14	08-Sep-14	4-Dec-14	08-Apr-15	03-Jun-15	16-Sep-15	03-Dec-15	04-Mar-16	09-Jun-16	19-Sep-16	7-Dec-16	8-Mar-17	7-Jun-17
Benzene	5	1	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	1000	5	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	700	5	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylene (total)	10000	5	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	N/A	20	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	N/A	NA	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	N/A	NA	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	N/A	ND	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	0.2	NA	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cyanide	N/A	200	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	N/A	10	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	N/A	25	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Lead	N/A	25	5	ND	ND	ND	ND	ND	ND	ND	24	ND	ND	ND	11	ND	ND	5.4	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	N/A	2000	10	ND	ND	ND	ND	20	10	ND	96	ND	ND	ND	66	22	17	45	ND	ND	10	13	23.2	97.6	24.4

National Grid Kingsley Avenue Site
Rome, New York

Table 2-3
Groundwater Analytical Data

Sample Well Number LTMW-S10

Parameter	EPA - Maximum Allowable (ug/L)	NYSDEC AWQS (ug/l)	Reporting Level (ug/L)	19-Mar-12	18-Jun-12	12-Sep-12	03-Dec-12	27-Mar-13	10-Jun-13	23-Sep-13	10-Dec-13	25-Mar-14	11-Jun-14	08-Sep-14	4-Dec-14	08-Apr-15	03-Jun-15	16-Sep-15	03-Dec-15	04-Mar-16	09-Jun-16	21-Sep-16	7-Dec-16	8-Mar-17	7-Jun-17
Benzene	5	1	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	1000	5	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	700	5	1	1.1	ND	ND	ND	ND	ND	ND	ND	ND	1.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylene (total)	10000	5	2	1.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	N/A	20	4.9	35	43	30	38	37	23	40	28	30	43	15 H	26	21	17	36	29	6.3	6.3	23	17.4	3.1	4.3
Acenaphthylene	N/A	NA	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.9	0.96	0.2	0.23
Anthracene	N/A	NA	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.17	0.12	0.12	ND
Benzo(a)anthracene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	N/A	ND	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	0.2	NA	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cyanide	N/A	200	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.1	1.5	0.5	0.62
Fluorene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.5	1.1	0.17	0.35
Indeno(1,2,3-cd)pyrene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	N/A	10	4.9	100	77	ND	ND	64	ND	17	ND	5.1	60	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.2	0.17
Phenanthrene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.4	0.94	ND	0.22
Pyrene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.6	1.9	0.45	0.71
Arsenic	N/A	25	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Lead	N/A	25	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	N/A	2000	10	ND	180	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.011	0.011	ND	ND	ND	ND	ND	ND	ND	ND	ND

National Grid Kingsley Avenue Site
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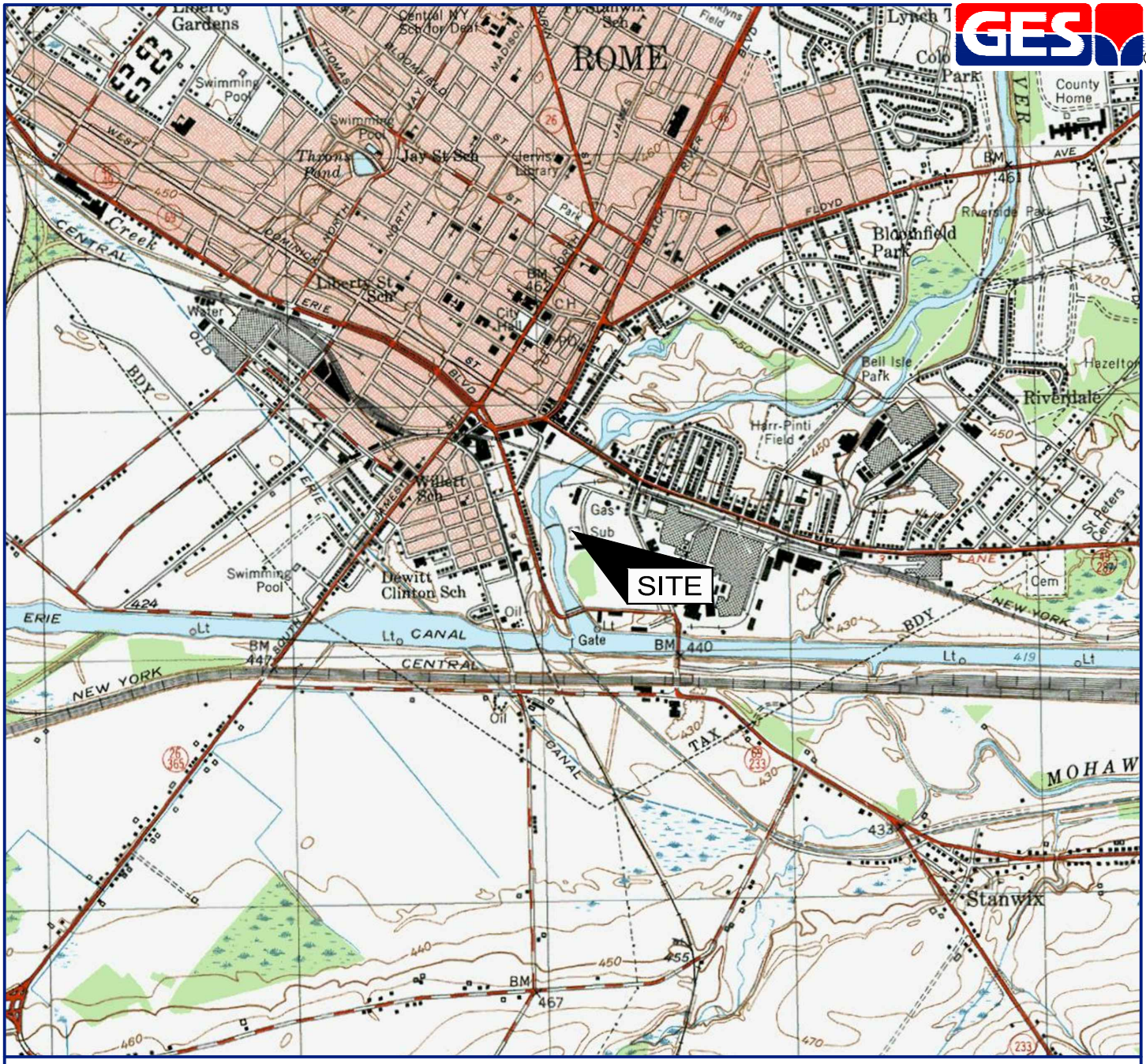
Table 2-4
GW Extraction System Discharge

Parameter	City of Rome WPCF Permit Max Daily Limit (mg/L)	24-Mar-14	30-Jun-14	03-Sep-14	01-Dec-14	30-Mar-15	03-Jun-15	14-Sep-15	03-Dec-15	07-Mar-16	06-Jun-16	12-Sep-16	5-Jan-17	9-Mar-17	7-Jun-17
Benzene	0.13	0.062	0.066	0.033	0.057	0.045	0.053	0.04	0.044	0.037	0.063	0.043	0.0393	0.0536	0.0611
Ethylbenzene	1.59	0.0049	0.00053	0.0019	0.0045	0.0021	0.0049	0.0042	0.003	0.0021	0.0049	0.0042	0.0025	0.0045	0.005
Toluene	1.35	0.0011	0.0097	0.0031	0.0073	0.01	0.0085	0.0013	0.0011	0.0038	0.0087	0.0021	0.0019	0.0028	0.0095
Xylene	1.35	0.0047	0.0031	ND<0.001	0.002	ND<0.001	0.0034	ND<0.001	ND<0.001	ND<0.001	0.0011	ND<0.001	ND<0.0001	ND<0.003	0.0034
Total BTEX	2.87	0.083	0.084	0.038	0.071	0.057	0.07	0.046	0.048	0.043	0.078	0.0465	0.0437	0.0609	0.079
Arsenic	0.1	ND<0.01	ND<0.01	ND<0.01	ND<0.01	ND<0.01	ND<0.01	ND<0.01	ND<0.01	ND<0.01	ND<0.01	ND<0.0050	ND<0.010	ND<0.005	ND<0.005
Cadmium	0.11	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.001	0.0017	ND<0.001	ND<0.001	ND<0.001	ND<0.0030	ND<0.0025	ND<0.003	ND<0.003
Chromium	2.77	ND<0.004	ND<0.004	ND<0.004	ND<0.004	ND<0.004	ND<0.004	ND<0.004	ND<0.004	ND<0.004	ND<0.004	ND<0.0050	ND<0.010	ND<0.005	ND<0.005
Copper	1.3	ND<0.01	ND<0.01	ND<0.01	ND<0.01	ND<0.01	ND<0.01	ND<0.01	ND<0.01	ND<0.01	ND<0.01	ND<0.0050	ND<0.025	ND<0.005	ND<0.005
Cyanide	1.2	0.083	0.088	0.091	0.073	0.081	0.074	0.075	0.075	0.11	0.11	0.062	ND<0.010	0.09	0.084
Lead	1.1	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.0050	ND<0.0050	ND<0.005	ND<0.005
Mercury	0.2	ND<0.0002	ND<0.0002	ND<0.0002	ND<0.0002	ND<0.0002	ND<0.0002	ND<0.0002	ND<0.0002	ND<0.0002	ND<0.0002	ND<0.0002	ND<0.00020	ND<0.0002	ND<0.0002
Nickel	1.9	ND<0.01	ND<0.01	ND<0.01	ND<0.01	ND<0.01	ND<0.01	ND<0.01	ND<0.01	ND<0.01	ND<0.01	ND<0.010	ND<0.040	ND<0.010	ND<0.010
Silver	0.43	ND<0.003	ND<0.003	ND<0.003	ND<0.003	ND<0.003	ND<0.003	ND<0.003	ND<0.003	ND<0.003	ND<0.003	ND<0.0060	ND<0.010	ND<0.006	ND<0.006
Zinc	2.6	ND<0.01	ND<0.01	ND<0.01	ND<0.01	ND<0.01	ND<0.01	ND<0.01	0.018	0.018	0.018	ND<0.010	0.0241	ND<0.010	ND<0.010
Oil & Grease	100	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	NS	NS	NS	NS
CBOD5	250	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	NS	NS	NS	NS
pH	5.5 - 11.5 su	7.16	7.1	7.11	6.96	7.01	7.08	6.88	6.98	7.06	6.91	6.8	6.8	6.7	NA

Results in mg/L.
NS= Not Sampled
NA = Not Analyzed

Figures

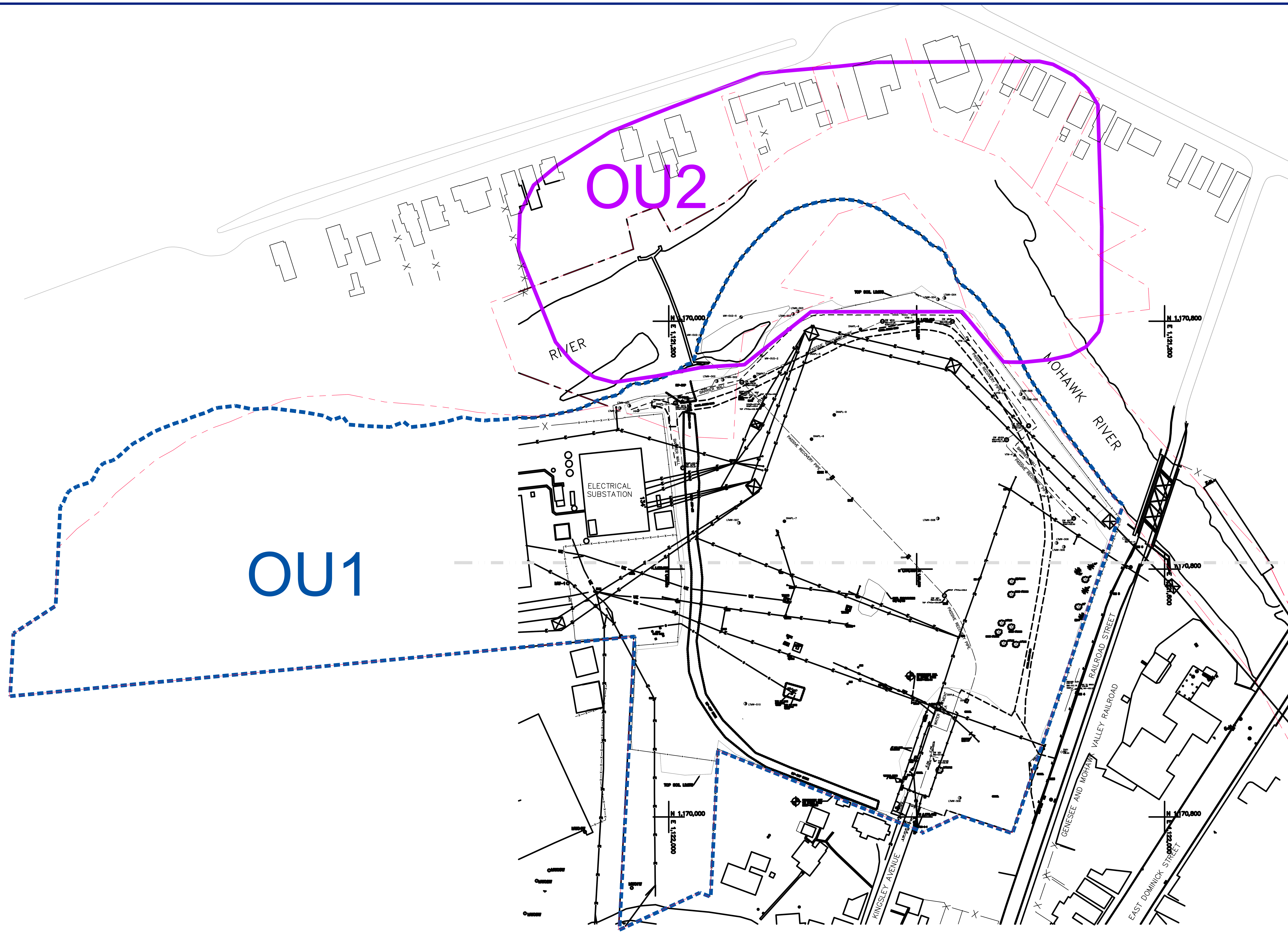


SOURCE: USGS 7.5 MINUTE SERIES
TOPOGRAPHIC QUADRANGLE 1955
ROME, NEW YORK
CONTOUR INTERVAL = 10'

QUADRANGLE LOCATION

DRAFTED BY: W.G.S.	SITE LOCATION MAP
CHECKED BY:	NATIONAL GRID KINGSLEY AVENUE ROME, NEW YORK
REVIEWED BY:	
NORTH	Groundwater & Environmental Services, Inc. 5 TECHNOLOGY PLACE, SUITE 4, EAST SYRACUSE, NY 13057
SCALE IN FEET: 0 – 2000	DATE: 10-17-16
	FIGURE: 1-1

M:\Graphics\0600-Syracuse\Misc\National Grid\Rome\Rome SLM.dwg, Layout1, WShea



LEGEND

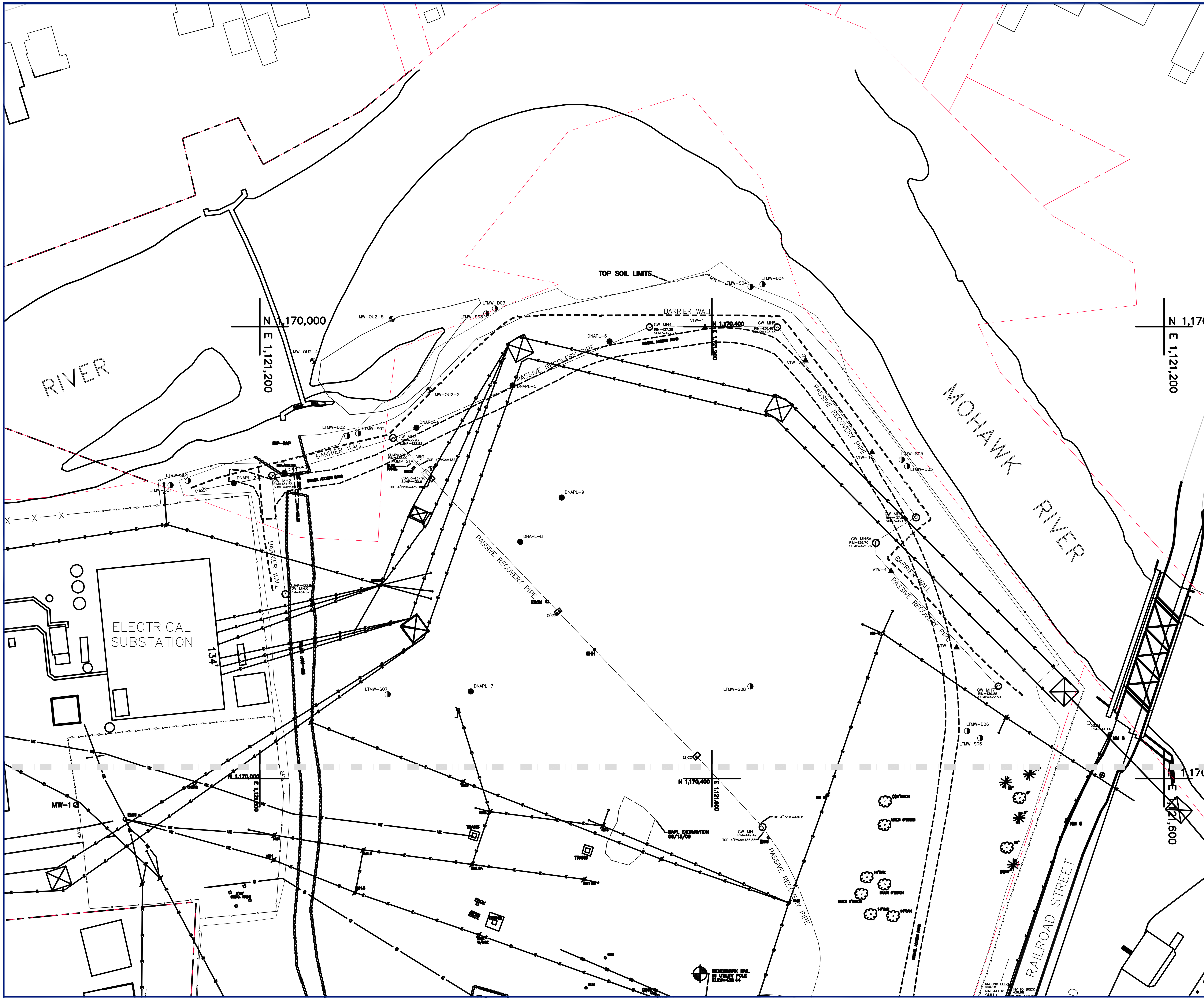
- PROPERTY BOUNDARY
- EAST WEST DIVIDE
- FENCE
- UTILITY POLE
- UNDERGROUND ELECTRIC LINE
- UNDERGROUND GAS LINE
- OVERHEAD ELECTRIC
- ELECTRICAL CONDUIT
- DNAPL–7 DNAPL MONITORING WELL / UNDERGROUND TELEPHONE LINE
- LTMW–D01 LTMW MONITORING WELL
- VTW–1 VTW MONITORING WELL
- MW–OU2–1 OU2 MONITORING WELL

GRAPHIC SCALE (feet)

80 0 40 80 160 320

(Scale configured for D–Size 24" x 36" Plot)
1 inch = 80 ft.
(APPROXIMATE)

DRAFTED BY: W.G.S.	SITE MAP OPERABLE UNITS
CHECKED BY: REVIEWED BY:	NATIONAL GRID KINGSLEY AVENUE ROME, NEW YORK
NORTH	Groundwater & Environmental Services, Inc. 300 GATEWAY PARK DRIVE, NORTH SYRACUSE, NY 13212
	DATE 10–17–16 — FIGURE 1-2



LEGEND

- PROPERTY BOUNDARY
- EAST WEST DIVIDE
- FENCE
- UTILITY POLE
- UNDERGROUND ELECTRIC LINE
- UNDERGROUND GAS LINE
- OVERHEAD ELECTRIC
- ELECTRICAL CONDUIT
- UNDERGROUND TELEPHONE LINE
- DNAPL-7 DNAPL MONITORING WELL
- LTMW-D01 LTMW MONITORING WELL
- VTW-1 VTW MONITORING WELL
- MW-OU2-1 OU2 MONITORING WELL

WELL	NORTHING	EASTING	CASING	PVC	GROUND
LTMW-S01	1169936.2970	1121336.3233	435.52	435.10	433.2
LTMW-D01	1169920.9810	1121340.1793	434.90	434.80	432.7
LTMW-S02	1170087.0350	1121294.4073	436.79	436.59	434.3
LTMW-D02	1170077.3450	1121296.6853	436.74	436.60	434.2
LTMW-S03	1170200.4014	1121188.2719	431.43	431.29	429.3
LTMW-D03	1170208.0726	1121183.8138	431.27	431.13	429.2
LTMW-S04	1170434.1910	1121164.5883	437.24	437.09	435.6
LTMW-D04	1170444.7690	1121162.3583	437.18	436.88	434.9
LTMW-S05	1170567.9900	1121317.5703	437.92	437.77	435.9
LTMW-D05	1170572.7400	1121323.4973	437.78	437.58	435.7
LTMW-S06	1170637.4230	1121564.0263	441.64	441.52	439.7
LTMW-D06	1170625.7620	1121557.7643	441.70	441.55	440.2
LTMW-S07	1170113.1090	1121525.3273	439.94	439.70	438.0
LTMW-S08	1170434.0830	1121518.2593	443.81	443.63	442.4
LTMW-S09	1170469.4300	1121969.1733	439.79	439.54	437.6
LTMW-S10	1170123.6800	1121817.1213	439.67	439.42	437.4
DNAPL-2	1169976.8400	1121338.4483	436.81	no pipe	434.6
DNAPL-3	1170021.7760	1121329.2613	437.23	no pipe	434.6
DNAPL-4	1170138.5720	1121289.3033	438.50	no pipe	436.3
DNAPL-5	1170223.6230	1121251.9083	440.60	no pipe	438.4
DNAPL-6	1170309.3920	1121212.9643	439.71	no pipe	438.0
DNAPL-7	1170186.6060	1121522.7453	441.46	no pipe	439.4
DNAPL-8	1170230.3820	1121390.3173	441.80	no pipe	439.6
DNAPL-9	1170267.0450	1121351.1333	442.63	no pipe	440.1
MW-OU2-1	1169964.4870	1121322.8873	435.72	435.48	433.5
MW-OU2-2	1170149.8980	1121255.9363	436.40	436.06	433.9
MW-OU2-3					
MW-OU2-4	1170047.2131	1121230.1096			
MW-OU2-5	1170116.6727	1121193.2720			
VTW-1	1170393.9230	1121200.2643	439.74	no pipe	437.7
VTW-2	1170482.8870	1121229.5033	438.33	no pipe	436.1
VTW-3	1170541.8140	1121311.1743	439.44	no pipe	437.1
VTW-4	1170558.5060	1121416.3693	441.59	no pipe	439.3
VTW-5	1170616.4890	1121483.6873	441.79	no pipe	439.8

GRAPHIC SCALE (feet)

40 0 20 40 80 160

(Scale configured for D-Size 24" x 36" Plot)
1 inch = 40 ft.
(APPROXIMATE)

DRAFTED BY: W.G.S.

CHECKED BY:

REVIEWED BY:

NORTH

SITE MAP-WEST

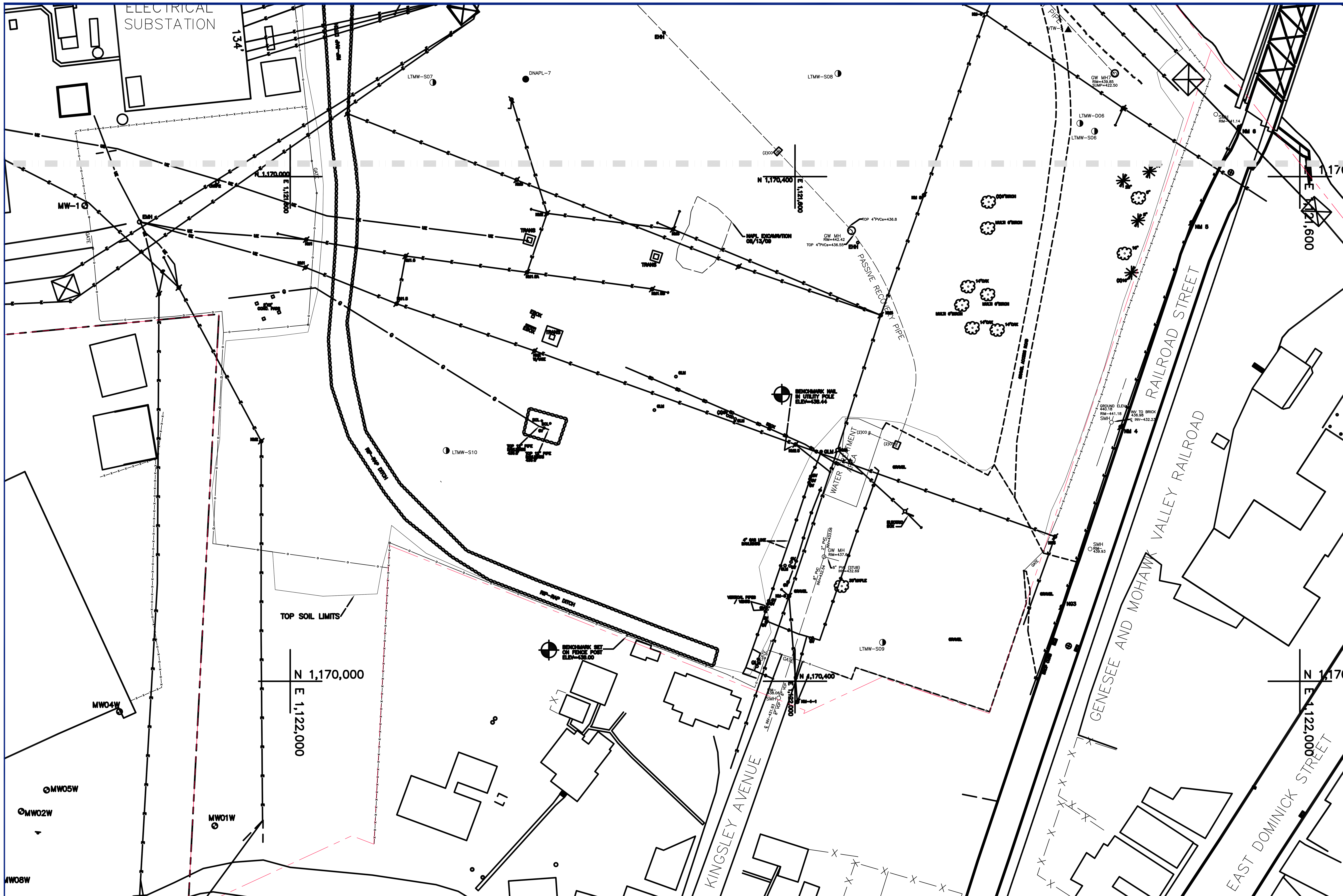
NATIONAL GRID
KINGSLEY AVENUE
ROME, NEW YORK

Groundwater & Environmental Services, Inc.
5 TECHNOLOGY PLACE, SUITE 4, EAST SYRACUSE, NY 13057

DATE 10-27-16

FIGURE 1-3

M:\Graphics\0600-Syracuse\Misc\National Grid\Rome\Rome SM.dwg, D-40-W, WShea



GES®

LEGEND

- PROPERTY BOUNDARY
- EAST WEST DIVIDE
- FENCE
- UTILITY POLE
- UNDERGROUND ELECTRIC LINE
- UNDERGROUND GAS LINE
- OVERHEAD ELECTRIC
- ELECTRICAL CONDUIT
- DNAPL-7 — DNAPL MONITORING WELL / UNDERGROUND TELEPHONE LINE
- LTMW-D01 — LTMW MONITORING WELL
- VTW-1 — VTW MONITORING WELL
- MW-OU2-1 — OU2 MONITORING WELL

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DNAPL-4	1170138.5720	1121289.3033	438.50	no pipe	436.3
DNAPL-5	1170223.6230	1121251.9083	440.60	no pipe	438.4
DNAPL-6	1170309.3920	1121212.9643	439.71	no pipe	438.0
DNAPL-7	1170186.6060	1121522.7453	441.46	no pipe	439.4
DNAPL-8	1170230.3820	1121390.3173	441.80	no pipe	439.6
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MW-OU2-3					
MW-OU2-4	1170047.2131	1121230.1096			
MW-OU2-5	1170116.6727	1121193.2720			
VTW-1	1170393.9230	1121200.2643	439.74	no pipe	437.7
VTW-2	1170482.8870	1121229.5033	438.33	no pipe	436.1
VTW-3	1170541.8140	1121311.1743	439.44	no pipe	437.1
VTW-4	1170558.5060	1121416.3693	441.59	no pipe	439.3
VTW-5	1170616.4890	1121483.6873	441.79	no pipe	439.8

GRAPHIC SCALE (feet)

40 0 20 40 80 160

(Scale configured for D-Size 24" x 36" Plot)
1 inch = 40 ft.
(APPROXIMATE)

DRAFTED BY: W.G.S.
CHECKED BY:
REVIEWED BY:

SITE MAP-EAST

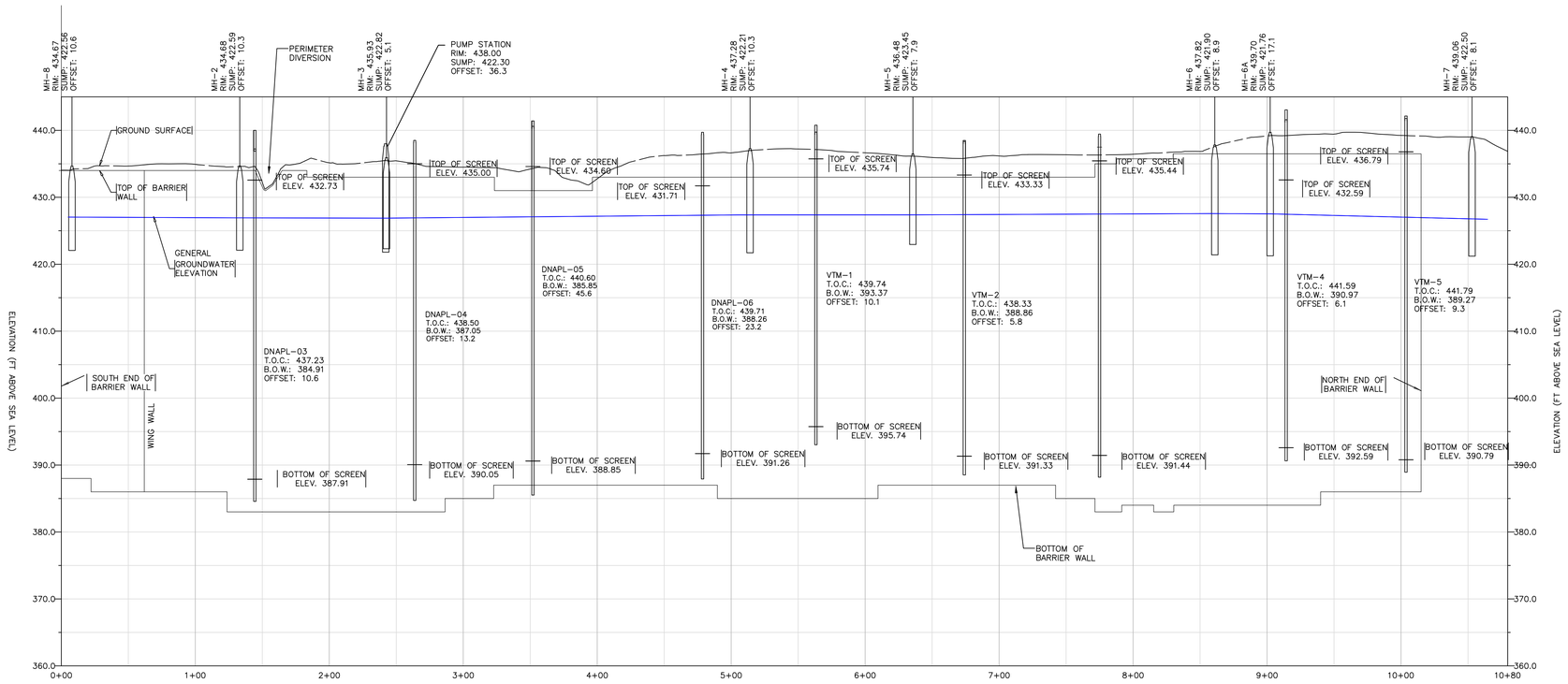
NATIONAL GRID
KINGSLEY AVENUE
ROME, NEW YORK

Groundwater & Environmental Services, Inc.
5 TECHNOLOGY PLACE, SUITE 4, EAST SYRACUSE, NY 13057

NORTH

DATE: 10-27-16

FIGURE: 1-4



PROFILE

HORIZONTAL: 1" = 50'
VERTICAL: 1" = 10'

LEGEND

T.O.C.	TOP OF CASING
B.O.W.	BOTTOM OF WELL
	TOP OF WALL
	GROUNDWATER ELEVATION (JUNE 2012)

NOTES:

1. THE DEPTH OF THE BARRIER WALL IS APPROXIMATELY 50 FEET.
2. GROUNDWATER ELEVATION MEASUREMENTS TAKEN JUNE 2012.

DRAFTED BY: W.G.S.
CHECKED BY:
REVIEWED BY:
NORTH

BARRIER WALL PROFILE

NATIONAL GRID
KINGSLEY AVENUE
ROME, NEW YORK

Groundwater & Environmental Services, Inc.
300 GATEWAY PARK DRIVE, NORTH SYRACUSE, NY 13212

DATE: 10-17-16
FIGURE: 2-1

M:\Graphics\2000s\Syracuse\Rec\National Grid\Rome\Rome Profile.dwg, DL: WStrea

Appendix A

Field Inspection Report

Date: 6/7/2017 Time: 15:00

Technician: K. Leo Weather: Sunny 70

Site Controls					
Fence Condition	GOOD	FAIR	DAMAGED		COMMENTS
Kingsley Ave Gate	GOOD	FAIR	DAMAGED		COMMENTS:
Padlock-NG/CDMSmith	OPERATIONAL		NON-OPERATIONAL		COMMENTS:
Railroad Ave Gate	GOOD	FAIR	DAMAGED		COMMENTS:
Padlock-NG/CDMSmith	OPERATIONAL		NON-OPERATIONAL		COMMENTS:

Vegetation (Surface Cover System)				
Condition of Grass	GOOD	FAIR	POOR	COMMENTS: Needs mowing
Site Trees	NONE	MINOR	SIGNIFICANT	COMMENTS: 4 dead
Surface Erosion	NONE	MINOR	SIGNIFICANT	COMMENTS:

Stoned Areas				
Condition of Main Access Road	GOOD	FAIR	POOR	COMMENTS:
Condition of Main Staging Area	GOOD	FAIR	POOR	COMMENTS:
Condition of Rear Turn Around Area	GOOD	FAIR	POOR	COMMENTS:

Drainage Systems					
Rip Rap Area	Culvert	UNOBSTRUCTED		OBSTRUCTED	
	Flow	NONE	LITTLE	SIGNIFICANT	COMMENTS:
	Outlet Channel	OPERATIONAL		NON-OPERATIONAL	COMMENTS:

Miscellaneous				
Evidence of Trespassing	NO		YES	COMMENTS:
Litter	NONE	MINOR	SIGNIFICANT	COMMENTS:

General Comments:

(4) Dead trees, Limb on Fence
Grass Long, In Good Shape

Appendix B

Quarterly Gauging Data

National Grid
Kingsley Ave, Former MGP Site
Rome, New York

First Quarter Event
June 23, 2017

Well ID	Sample ?	Well Size	DTW	DTP	DTB	Comments
MW-OU2-1	No	4"	9.35	42.98	45.81	Removed 2.5 gal DNAPL
MW-OU2-2	No	4"	10.02	NP	47.53	
MW-OU2-3	No	4"	7.10	NP	34.18	
MW-OU2-4	No	4"	6.70	34.20	39.55	
MW-OU2-5	No	4"	7.15	NP	36.01	
DNAPL-02	No	6"	9.30	NP	50.40	
DNAPL-03	No	6"	9.56	47.58	52.32	
DNAPL-04	No	6"	10.90	NP	51.45	
DNAPL-05	No	6"	13.00	NP	54.75	
DNAPL-06	No	6"	11.97	NP	54.45	
DNAPL-07	No	6"	12.70	NP	53.60	
DNAPL-08	No	6"	13.15	NP	58.01	
DNAPL-09	No	6"	14.07	NP	57.58	
VTM-1	No	6"	11.80	NP	46.37	
VTM-2	No	6"	10.10	NP	49.47	
VTM-3	No	6"	11.21	NP	50.91	
VTM-4	No	6"	13.15	NP	50.62	
VTM-5	No	6"	13.29	NP	52.52	
LTMW-D01	Yes	2"	8.30	NP	46.84	
LTMW-S01	Yes	2"	8.53	NP	16.96	
LTMW-D02	Yes	2"	10.45	NP	40.29	
LTMW-S02	Yes	2"	10.27	NP	17.98	
LTMW-D03	Yes	2"	4.91	NP	40.73	
LTMW-S03	Yes	2"	4.05	NP	13.70	
LTMW-D04	Yes	2"	9.58	NP	46.36	
LTMW-S04	Yes	2"	9.45	NP	17.26	
LTMW-D05	Yes	2"	9.14	NP	46.53	
LTMW-S05	Yes	2"	9.60	NP	16.83	
LTMW-D06	Yes	2"	12.07	NP	52.22	
LTMW-S06	Yes	2"	12.88	NP	17.60	
LTMW-S07	Yes	2"	10.73	NP	17.82	
LTMW-S08	Yes	2"	15.22	NP	17.39	
LTMW-S09	Yes	2"	12.88	NP	16.92	
LTMW-S10	Yes	2"	10.18	NP	17.18	

DTW *-depth to water*
DTP *-depth to product*
DTB *-depth to bottom*
All from top of casing

Appendix C

Groundwater Sampling Field Measurements

Pace Analytical™
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: GES - Syracuse	Report To: Mark Boorady (GES) mboorady@gesonline.com	Attention: Accounts Payable via email at ges-invoices@gesonline.com
Address: 5 Technology Place, Suite 4	Copy To:	Company Name: Groundwater & Environmental Services, Inc.
East Syracuse, New York 13057		Address: 5 Technology Place, Suite 4, East Syracuse, NY 13057
Email To: mboorady@gesonline.com	Purchase Order No.:	Pace Quote Reference:
Phone: 800.220.3069, x4065 Fax: None	Project Name: National Grid - Rome Kingsley Ave. Site, Rome, NY	Pace Project Manager: Rachel Christner
Requested Due Date/TAT: Standard	Project Number: 06-02882-134400-221-1106	Pace Profile #:

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER

UST RCRA OTHER: _____

SITE LOCATION: GA IL IN MI NC OH SC WI OTHER____

Section D Required Client Information

SAMPLE ID

One Character per box.
(A-Z, 0-9 / ,-)
Samples IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	Section D: SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COMPOSITE START TIME	GRAB DATE	GRAB TIME	SAMPLE TEMP AT COLLECTION	#OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Filtered (Y/N)	Requested Analysis: BTEX (8260C)	SVOCs (PAHs) (8270D)	Cyanide, Total (335.4)	Metals, Total (As, Pb, Zn) (200.7)	Pace Project Number / Lab I.D.
1	LTMW-D01-0617	WT	G			6/7/17	09:30		7	2		1	3	1					3	2	1	1	
2	LTMW-S01-0617	WT	G				09:30		7	2		1	3	1					3	2	1	1	
3	LTMW-D02-0617	WT	G				11:20		7	2		1	3	1					3	2	1	1	
4	LTMW-S02-0617	WT	G				10:35		7	2		1	3	1					3	2	1	1	
5	LTMW-D03-0617	WT	G				10:40		7	2		1	3	1					3	2	1	1	
6	LTMW-S03-0617	WT	G				11:40		7	2		1	3	1					3	2	1	1	
7	LTMW-D04-0617	WT	G				12:00		7	2		1	3	1					3	2	1	1	
8	LTMW-S04-0617	WT	G				13:10		7	2		1	3	1					3	2	1	1	
9	LTMW-D05-0617	WT	G				12:45		7	2		1	3	1					3	2	1	1	
10	LTMW-S05-0617	WT	G				13:05		7	2		1	3	1					3	2	1	1	
11	LTMW-D06-0617	WT	G				14:15		7	2		1	3	1					3	2	1	1	
12	LTMW-S06-0617	WT	G				15:05		7	2		1	3	1					3	2	1	1	

Additional Comments:

SAMPLES WILL ARRIVE IN # _____ COOLERS.

Please send reports to: mboorady@gesonline.com,
Syracuselabs@gesonline.com, ges@equisonline.com

SPECIFIC EDD NAME:

NGRome-labnumber.28351.EQEDD.zip

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
[signature]	6/7/17	17:15			

SAMPLE CONDITIONS

	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: KEVIN LE

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 6/7/17

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: GES - Syracuse	Report To: Mark Boorady (GES) mboorady@gesonline.com	Attention: Accounts Payable via email at ges-invoices@gesonline.com
Address: 5 Technology Place, Suite 4	Copy To:	Company Name: Groundwater & Environmental Services, Inc.
East Syracuse, New York 13057		Address: 5 Technology Place, Suite 4, East Syracuse, NY 13057
Email To: mboorady@gesonline.com	Purchase Order No.:	Pace Quote Reference:
Phone: 800.220.3069, x4065 Fax: None	Project Name: National Grid - Rome Kingsley Ave. Site, Rome, NY	Pace Project Manager: Rachel Christner
Requested Due Date/TAT: Standard	Project Number: 06-02882-134400-221-1106	Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER

☐ UST ☐ RCRA ☐ OTHER _____

SITE LOCATION: ☐ GA ☐ IL ☐ IN ☐ MI ☐ NC ☐ OH ☐ SC ☐ WI ☐ OTHER ____

Section D Required Client Information

SAMPLE ID

One Character per box.
(A-Z, 0-9 / ,-)
Samples IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED GRAB DATE	COLLECTED GRAB TIME	SAMPLE TEMP AT COLLECTION	#OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Requested Analysis: BTEX (8260C)	SVOCs (PAHs) (8270D)	Cyanide, Total (335.4)	Metals, Total (As, Pb, Zn) (200.7)	Pace Project Number / Lab I.D.
1	LTMW-S07-0617	WT	G			6/1/17	14:05		7	2		1	3	1				3	2	1	1	
2	LTMW-S08-0617	WT	G				15:00		7	2		1	3	1				3	2	1	1	
3	LTMW-S09-0617	WT	G				16:00		7	2		1	3	1				3	2	1	1	
4	LTMW-S10-0617	WT	G				15:50		7	2		1	3	1				3	2	1	1	Collect MS/MSD Samples
5	Field Duplicate-0617	WT	G						7	2		1	3	1				3	2	1	1	
6	Trip Blank	WT	Lab						2				2					2				
7	---END OF RECORD---																					
8																						
9																						
10																						

Additional Comments:

SAMPLES WILL ARRIVE IN [#] COOLERS.

Please send reports to: mboorady@gesonline.com,
Syracuselabs@gesonline.com, ges@equisonline.com

SPECIFIC EDD NAME:

NGRome-labnumber.28351.EQEDD.zip

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
[signature]	6/1/17	19:45			

SAMPLE CONDITIONS

Temp in °C	Received on Ice Y/N	Custody Sealed Cooler Y/N	Samples Intact Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: [illegible]

SIGNATURE of SAMPLER: [signature] DATE Signed (MM / DD / YY): 6/1/17

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:

Company: GES - Syracuse	
Address: 5 Technology Place, Suite 4	
East Syracuse, New York 13057	
Email To: mboorady@gesonline.com	
Phone: 800.220.3069, x4065 Fax: None	
Requested Due Date/TAT: Standard	

Section B Required Project Information:

Report To: Mark Boorady (GES) mboorady@gesonline.com	
Copy To:	
Purchase Order No.:	
Project Name: National Grid - Rome Kingsley Ave. Site, Rome, NY	
Project Number: 06-02882-134400-221-1106	

Section C Invoice Information:

Attention: Accounts Payable via email at ges-invoices@gesonline.com	
Company Name: Groundwater & Environmental Services, Inc.	
Address: 5 Technology Place, Suite 4, East Syracuse, NY 13057	
Pace Quote Reference:	
Pace Project Manager: Rachel Christner	
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

SITE LOCATION ☐ GA ☐ IL ☐ IN ☐ MI ☐ NC ☐ OH ☐ SC ☐ WI ☐ OTHER____

Section D Required Client Information

SAMPLE ID
One Character per box.
(A-Z, 0-9 / ,-)
Samples IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED GRAB DATE	COLLECTED GRAB TIME	SAMPLE TEMP AT COLLECTION	#OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Requested Analysis: BTEX (8260C) and Total Toxic Organics	SVOCs (PAHs) (8270D)	Cyanide, Total (335.4)	Metals: Total (As, Cd, Cr, Cu, Pb, Ni, Ag, Zn, Hg) (200.7, [illegible])	[illegible]	Pace Project Number / Lab I.D.
1	Effluent System 0617	WT	G			6/7/17	14:30		7	2	2	1	3	1				3	2	1	1			
2	Trip Blank	WT	G			"	14:30		3				3					3						
3	---END OF RECORD---																							
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								

Additional Comments:

SAMPLES WILL ARRIVE IN # COOLERS.

Please send reports to: mboorady@gesonline.com, Syracuselabs@gesonline.com, ges@equisonline.com

SPECIFIC EDD NAME:

NGRome-labnumber.28351.EQEDD.zip

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
[signature]	6/7/17	17:45			

SAMPLE CONDITIONS

Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: [illegible]

SIGNATURE of SAMPLER: [signature] DATE Signed (MM / DD / YY): 6/7/17

National Grid
Kingsley Avenue, Rome, New York

Sampling Personnel: KL
Date: 6/7/17
Job Number: 06-02882-134400-221
Weather: Sunny
Well Id. LTMW-D02 D01
Time In: 8:50 Time Out: 09:40

Well Information

		TOC	Other
Depth to Water:	(feet)	7.36	
Depth to Bottom:	(feet)	40.29	
Depth to Product:	(feet)	32.93	NP
Length of Water Column:	(feet)	32.93	
Volume of Water in Well:	(gal)	5.26	
Three Well Volumes:	(gal)	15.80	

Well Type: Flushmount ☐ Stick-Up ☒
Well Locked: Yes ☒ No ☐
Measuring Point Marked: Yes ☒ No ☐
Well Material: PVC ☒ SS ☐ Other:
Well Diameter: 1" ☐ 2" ☒ Other:
Comments:

Purging Information

Purging Method:	Bailer ☐	Peristaltic ☒	Grundfos Pump ☐		
Tubing/Bailer Material:	Teflon ☐	Stainless St. ☐	Polyethylene ☒		
Sampling Method:	Bailer ☐	Peristaltic ☒	Grundfos Pump ☐		
Average Pumping Rate:	(ml/min)	200			
Duration of Pumping:	(min)	30			
Total Volume Removed:	(gal)	6000 mL	Did well go dry?	Yes ☐	No ☒

YSI 6920 or Horiba U-52 Water Quality Meter Used? Yes ☒ No ☐

Conversion Factors				
gal/ft. of water	1" ID	2" ID	4" ID	6" ID
	0.04	0.16	0.66	1.47
1 gallon=3.785L=3785mL=1337cu. feet				

Time	DTW (feet)	Temp (°C)	pH (S.U.)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	TDS (g/L)
09:00	8.84	15.37	8.63	-84	0.389	38	2.96	0.253
09:05	9.50	14.98	8.65	-117	0.390	3.4	1.84	0.253
09:10	10.25	14.93	8.64	-117	0.384	3.0	0.93	0.249
09:15	10.78	15.07	8.66	-140	0.377	2.4	0.52	0.245
09:20	~~15.02~~ 11.23	15.50	8.66	-147	0.368	1.9	0.20	0.239
09:25	11.84	15.81	8.65	-111	0.367	1.8	0.19	0.237
09:30	12.34	16.07	8.65	-112	0.362	1.8	0.17	0.235

Sampling Information:

Quantity	Size	Material	Preservative	Compounds analyzed	Method
2	1 L	Glass	Unpreserved	SVOC PAH's	EPA Method 8270
3	40 mL	Glass	HCl	VOC's & BTEX	EPA Method 8260
1	250 mL	Plastic	NaOH	Total Cyanide	EPA Method 335.4
1	250 mL	Plastic	HNO3	Total Metals	EPA Method 200.7

Sample ID: LTMW-D02-0617
Sample Time: 09:30
Duplicate? Yes ☐ No ☒
MS/MSD? Yes ☐ No ☒
Shipped: Drop-off Syracuse Service Center ☐
Pick-up by Syracuse Courier ☐

Comments/Notes:

Laboratory: PACE Analytical
Greensburg, PA

National Grid
Kingsley Avenue, Rome, New York

Sampling Personnel:

Date: 6/7

Job Number: 06-02882-134400-221

Weather: SUNNY

Well Id. **LTMW-S01**

Time In: 0850 Time Out: 0940

Well Information

		TOC	Other
Depth to Water:	(feet)	7.2	
Depth to Bottom:	(feet)	16.92	
Depth to Product:	(feet)		NP
Length of Water Column:	(feet)	9.72	
Volume of Water in Well:	(gal)	9.88	
Three Well Volumes:	(gal)	29.64	

Well Type: Flushmount ☐ Stick-Up ☒
Well Locked: Yes ☒ No ☐
Measuring Point Marked: Yes ☒ No ☐
Well Material: PVC ☒ SS ☐ Other:
Well Diameter: 1" ☐ 2" ☒ Other:
Comments:

Purging Information

Purging Method:	Bailer ☐	Peristaltic ☒	Grundfos Pump ☐	
Tubing/Bailer Material:	Teflon ☐	Stainless St. ☐	Polyethylene ☒	
Sampling Method:	Bailer ☐	Peristaltic ☒	Grundfos Pump ☐	

Average Pumping Rate:	(ml/min)	200
Duration of Pumping:	(min)	30min
Total Volume Removed:	(gal)	1.69

Did well go dry? Yes ☐ No ☒

YSI 6920 or Horiba U-52 Water Quality Meter Used? Yes ☒ No ☐

Conversion Factors				
gal/ft. of water	1" ID	2" ID	4" ID	6" ID
	0.04	0.16	0.66	1.47
1 gallon=3.785L=3785mL=1337cu. feet				

Time	DTW (feet)	Temp (°C)	pH (S.U.)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	TDS (g/L)
0900	7.25	14.84	7.52	-135	0.815	4.2	2.45	0.515
0905	7.30	13.12	7.27	-132	0.797	54.8	1.03	0.510
0910	7.28	12.64	7.31	-130	0.796	3.2	0.72	0.509
0915	7.28	12.59	7.28	-128	0.793	4.8	0.68	0.507
0920	7.28	12.55	7.30	-128	0.792	5.0	0.44	0.507
0925	7.28	12.54	7.31	-128	0.790	5.1	0.38	0.505
0930	7.28	12.52	7.29	-127	0.789	5.0	0.23	0.505

Sampling Information:

Quantity	Size	Material	Preservative	Compounds analyzed	Method
2	1 L	Glass	Unpreserved	SVOC PAH's	EPA Method 8270
3	40 mL	Glass	HCl	VOC's & BTEX	EPA Method 8260
1	250 mL	Plastic	NaOH	Total Cyanide	EPA Method 335.4
1	250 mL	Plastic	HNO3	Total Metals	EPA Method 200.7

Sample ID: **LTMW-S01-0617**
Sample Time: 0930

Duplicate? Yes ☐ No ☒
MS/MSD? Yes ☐ No ☒

Shipped: Drop-off Syracuse Service Center ☐
Pick-up by Syracuse Courier ☒

Comments/Notes:

Laboratory: PACE Analytical
Greensburg, PA

National Grid
Kingsley Avenue, Rome, New York

Sampling Personnel: AS
Date: 6/7/17
Job Number: 06-02882-134400-221
Weather: 64°F, sunny
Well Id. LTMW-D01 , D02
Time In: 1045 Time Out: 1140

Well Information

		TOC	Other
Depth to Water:	(feet)	9.02	
Depth to Bottom:	(feet)	46.84	
Depth to Product:	(feet)	NP	
Length of Water Column:	(feet)	37.82	
Volume of Water in Well:	(gal)	6.0	
Three Well Volumes:	(gal)	18	

Well Type: Flushmount [ ] Stick-Up [X]
Well Locked: Yes [X] No [ ]
Measuring Point Marked: Yes [X] No [ ]
Well Material: PVC [X] SS [ ] Other:
Well Diameter: 1" [ ] 2" [X] Other:
Comments:

Purging Information

Purging Method:	Bailer [ ]	Peristaltic [X]	Grundfos Pump [ ]		
Tubing/Bailer Material:	Teflon [ ]	Stainless St. [ ]	Polyethylene [X]		
Sampling Method:	Bailer [ ]	Peristaltic [X]	Grundfos Pump [ ]		
Average Pumping Rate:	250 (ml/min)				
Duration of Pumping:	30 (min)				
Total Volume Removed:	3 (gal)				

Did well go dry? Yes [ ] No [X]

YSI 6920 or Horiba U-52 Water Quality Meter Used? Yes [X] No [ ]

Conversion Factors				
gal/ft. of water	1" ID	2" ID	4" ID	6" ID
	0.04	0.16	0.66	1.47
1 gallon=3.785L=3785mL=1337cu. feet				

Time	DTW (feet)	Temp (°C)	pH (S.U.)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	TDS (g/L)
1050	12.01	12.49	7.26	-78	0.437	36.1	3.17	0.289
1055	10.58	12.88	8.01	-86	0.227	51.0	6.46	0153
1100	10.64	12.75	8.41	-54	0.131	45.6	5.80	0.086
1105	10.75	12.84	8.46	-17	0.124	37.2	4.73	0081
1110	10.75	12.87	8.70	-7	0.124	36.1	4.59	0.081
1115	10.80	12.88	8.90	-2	0.124	35.5	4.63	0.081
1120	10.75	12.93	8.72	5	0.125	32.0	4.45	0.081

Sampling Information:

Quantity	Size	Material	Preservative	Compounds analyzed	Method
2	1 L	Glass	Unpreserved	SVOC PAH's	EPA Method 8270
3	40 mL	Glass	HCl	VOC's & BTEX	EPA Method 8260
1	250 mL	Plastic	NaOH	Total Cyanide	EPA Method 335.4
1	250 mL	Plastic	HNO3	Total Metals	EPA Method 200.7

Sample ID: LTMW-D01-0617
Sample Time: 1120
Duplicate? Yes [ ] No [X]
MS/MSD? Yes [ ] No [X]

Shipped: Drop-off Syracuse Service Center [ ]
Pick-up by Syracuse Courier [ ]

Comments/Notes:

Laboratory: PACE Analytical
Greensburg, PA

National Grid
Kingsley Avenue, Rome, New York

Sampling Personnel: AJ
Job Number: 06-02882-134400-221
Well Id. **LTMW-S02**

Date: 6/7/17
Weather: 62°F, sunny
Time In: 1000 Time Out: 1045

Well Information

		TOC	Other
Depth to Water:	(feet)	8.35	
Depth to Bottom:	(feet)	17.98	
Depth to Product:	(feet)	NP	
Length of Water Column:	(feet)	9.163	
Volume of Water in Well:	(gal)	1.54	
Three Well Volumes:	(gal)	4.6	

Well Type: Flushmount ☐ Stick-Up ☒
Well Locked: Yes ☒ No ☐
Measuring Point Marked: Yes ☒ No ☐
Well Material: PVC ☒ SS ☐ Other:
Well Diameter: 1" ☐ 2" ☒ Other:
Comments:

Purging Information

Purging Method:	Bailer ☐	Peristaltic ☒	Grundfos Pump ☐	
Tubing/Bailer Material:	Teflon ☐	Stainless St. ☐	Polyethylene ☒	
Sampling Method:	Bailer ☐	Peristaltic ☒	Grundfos Pump ☐	

Average Pumping Rate: 250 (ml/min)
Duration of Pumping: 30 (min)
Total Volume Removed: 3 (gal)

Did well go dry? Yes ☐ No ☒

YSI 6920 or Horiba U-52 Water Quality Meter Used? Yes ☒ No ☐

Conversion Factors				
gal/ft. of water	1" ID	2" ID	4" ID	6" ID
	0.04	0.16	0.66	1.47
1 gallon=3.785L=3785mL=1337cu. feet				

Time	DTW (feet)	Temp (°C)	pH (S.U.)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	TDS (g/L)
1005	8.55	16.36	7.36	-85	0497	183	20.96	0.323
1010	8.53	15.92	7.33	-87	0.502	187	4.27	0.322
1015	8.53	15.41	7.29	-91	0.504	189	0.78	0.322
1020	8.53	15.34	7.28	-95	0.499	188	0.38	0.324
1025	8.51	14.20	7.14	-86	0.498	119	0.48	0.324
1030	8.53	12.46	6.95	-72	0.506	36.5	083	0.324
1035	8.53	12.13	6.89	-69	0.514	29.2	0.92	0.329

Sampling Information:

Quantity	Size	Material	Preservative	Compounds analyzed	Method
2	1 L	Glass	Unpreserved	SVOC PAH's	EPA Method 8270
3	40 mL	Glass	HCl	VOC's & BTEX	EPA Method 8260
1	250 mL	Plastic	NaOH	Total Cyanide	EPA Method 335.4
1	250 mL	Plastic	HNO3	Total Metals	EPA Method 200.7

Sample ID: **LTMW-S02-0617**
Sample Time: 1035

Duplicate? Yes ☐ No ☒
MS/MSD? Yes ☐ No ☒

Shipped: Drop-off Syracuse Service Center ☐
Pick-up by Syracuse Courier ☐

Comments/Notes:

Laboratory: PACE Analytical
Greensburg, PA

National Grid
Kingsley Avenue, Rome, New York

Sampling Personnel: KC
Job Number: 06-02882-134400-221
Well Id. **LTMW-D03**

Date: 6/7
Weather: CLEAR-SUNNY
Time In: 1000 Time Out: 1050

Well Information

		TOC	Other
Depth to Water:	(feet)	3.85	
Depth to Bottom:	(feet)	40.73	
Depth to Product:	(feet)	NP	
Length of Water Column:	(feet)	36.88	
Volume of Water in Well:	(gal)	5.9	
Three Well Volumes:	(gal)	17.70	

Well Type: Flushmount ☐ Stick-Up ☒
Well Locked: Yes ☒ No ☐
Measuring Point Marked: Yes ☒ No ☐
Well Material: PVC ☒ SS ☐ Other: ____
Well Diameter: 1" ☐ 2" ☒ Other: ____
Comments:

Purging Information

Purging Method:	Bailer ☐	Peristaltic ☒	Grundfos Pump ☐		
Tubing/Bailer Material:	Teflon ☐	Stainless St. ☐	Polyethylene ☒		
Sampling Method:	Bailer ☐	Peristaltic ☒	Grundfos Pump ☐		
Average Pumping Rate: (ml/min)	200				
Duration of Pumping: (min)	30				
Total Volume Removed: (gal)	6000	Did well go dry?	Yes ☐	No ☒	

YSI 6920 or Horiba U-52 Water Quality Meter Used? Yes ☒ No ☐

Conversion Factors				
gal/ft. of water	1" ID	2" ID	4" ID	6" ID
	0.04	0.16	0.66	1.47
1 gallon=3.785L=3785mL=1337cu. feet				

Time	DTW (feet)	Temp (°C)	pH (S.U.)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	TDS (g/L)
1005	3.85	17.85	7.66	-123	0.808	3.1	1.07	0.521
1010	5.65	15.27	7.51	-138	0.875	3.0	0.00	0.561
1015	5.91	15.20	7.50	-140	0.883	2.7	0.00	0.566
1020	6.16	15.28	7.50	-140	0.885	2.0	0.00	0.566
1025	6.30	15.27	7.50	-140	0.884	1.9	0.00	0.566
1030	6.39	15.26	7.50	-140	0.884	1.8	0.00	0.566
1035	6.59	15.27	7.50	-140	0.884	1.9	0.00	0.566

Sampling Information:

Quantity	Size	Material	Preservative	Compounds analyzed	Method
2	1 L	Glass	Unpreserved	SVOC PAH's	EPA Method 8270
3	40 mL	Glass	HCl	VOC's & BTEX	EPA Method 8260
1	250 mL	Plastic	NaOH	Total Cyanide	EPA Method 335.4
1	250 mL	Plastic	HNO3	Total Metals	EPA Method 200.7

Sample ID: **LTMW-D03-0617**
Sample Time: 1040
Duplicate? Yes ☐ No ☒
MS/MSD? Yes ☐ No ☒
Shipped: Drop-off Syracuse Service Center ☐
Pick-up by Syracuse Courier ☐

Comments/Notes:

Laboratory: PACE Analytical
Greensburg, PA

National Grid
Kingsley Avenue, Rome, New York

Sampling Personnel: KL
Job Number: 06-02882-134400-221
Well Id. **LTMW-S03**

Date: 6/7/17
Weather: Sunny 65
Time In: 10:50 Time Out: 1150

Well Information

		TOC	Other
Depth to Water:	(feet)	1.81	
Depth to Bottom:	(feet)	13.70	
Depth to Product:	(feet)	NP	
Length of Water Column:	(feet)	11.89	
Volume of Water in Well:	(gal)	1.90	
Three Well Volumes:	(gal)	5.70	

Well Type: Flushmount ☐ Stick-Up ☒
Well Locked: Yes ☒ No ☐
Measuring Point Marked: Yes ☒ No ☐
Well Material: PVC ☒ SS ☐ Other:
Well Diameter: 1" ☐ 2" ☒ Other:
Comments:

Purging Information

Purging Method:	Bailer ☐	Peristaltic ☒	Grundfos Pump ☐	
Tubing/Bailer Material:	Teflon ☐	Stainless St. ☐	Polyethylene ☒	
Sampling Method:	Bailer ☐	Peristaltic ☒	Grundfos Pump ☐	
Average Pumping Rate: (ml/min)	200			
Duration of Pumping: (min)	30			
Total Volume Removed: (gal)	~~6000ml~~	Did well go dry?	Yes ☐	No ☒

YSI 6920 or Horiba U-52 Water Quality Meter Used? Yes ☒ No ☐

Conversion Factors				
gal/ft. of water	1" ID	2" ID	4" ID	6" ID
	0.04	0.16	0.66	1.47
1 gallon=3.785L=3785mL=1337cu. feet				

Time	DTW (feet)	Temp (°C)	pH (S.U.)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	TDS (g/L)
10:55	1.82	19.61	7.26	-75	0.761	9.6	2.14	0.462
11:00	1.80	18.37	6.66	-56	0.439	7.2	0.00	0.283
11:05	1.80	17.28	6.59	-59	0.410	5.6	0.00	0.266
11:10	1.80	16.99	6.58	-63	0.400	4.1	0.00	0.260
11:15	1.80	16.90	6.57	-63	0.397	5.0	0.00	0.260
11:20	1.80	16.95	6.59	-65	0.395	5.2	0.00	0.259
11:30	1.90	17.10	6.59	-66	0.381	3.4	0.00	0.247

Sampling Information:

Quantity	Size	Material	Preservative	Compounds analyzed	Method
2	1 L	Glass	Unpreserved	SVOC PAH's	EPA Method 8270
3	40 mL	Glass	HCl	VOC's & BTEX	EPA Method 8260
1	250 mL	Plastic	NaOH	Total Cyanide	EPA Method 335.4
1	250 mL	Plastic	HNO3	Total Metals	EPA Method 200.7

Sample ID: **LTMW-S03-0617**
Sample Time: 11:40
Duplicate? Yes ☐ No ☒
MS/MSD? Yes ☐ No ☒

Shipped: Drop-off Syracuse Service Center ☐
Pick-up by Syracuse Courier ☐

Comments/Notes:

Laboratory: PACE Analytical
Greensburg, PA

National Grid
Kingsley Avenue, Rome, New York

Sampling Personnel: KC
Date: 6/7
Job Number: 06-02882-134400-221
Weather: CLEAR - SON
Well Id. **LTMW-D04**
Time In: 1150 Time Out: 12:30

Well Information

		TOC	Other
Depth to Water:	(feet)	8.43	
Depth to Bottom:	(feet)	46.36	
Depth to Product:	(feet)	NP	
Length of Water Column:	(feet)	37.93	
Volume of Water in Well:	(gal)	6.06	
Three Well Volumes:	(gal)	18.20	

Well Type: Flushmount ☐ Stick-Up ☒
Well Locked: Yes ☒ No ☐
Measuring Point Marked: Yes ☒ No ☐
Well Material: PVC ☒ SS ☐ Other:
Well Diameter: 1" ☐ 2" ☒ Other:
Comments:

Purging Information

Purging Method:	Bailer ☐	Peristaltic ☒	Grundfos Pump ☐	
Tubing/Bailer Material:	Teflon ☐	Stainless St. ☐	Polyethylene ☒	
Sampling Method:	Bailer ☐	Peristaltic ☒	Grundfos Pump ☐	
Average Pumping Rate: (ml/min)	200			
Duration of Pumping: (min)	30			
Total Volume Removed: (gal)	6000 ml	Did well go dry?	Yes ☐	No ☒

YSI 6920 or Horiba U-52 Water Quality Meter Used? Yes ☒ No ☐

Conversion Factors				
gal/ft. of water	1" ID	2" ID	4" ID	6" ID
	0.04	0.16	0.66	1.47
1 gallon=3.785L=3785mL=1337cu. feet				

Time	DTW (feet)	Temp (°C)	pH (S.U.)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	TDS (g/L)
11:50	9.18	19.51	7.54	-114	0.426	88.1	1.59	0.278
11:55	9.32	17.06	7.79	-65	0.445	62.4	0.00	0.290
12:00	9.44	16.40	7.81	-76	0.464	57.8	0.00	0.303
12:05	9.49	16.09	7.79	-94	0.500	51.4	0.00	0.320
12:10	9.45	15.99	7.78	-98	0.510	57.2	0.00	0.326
12:15	9.45	15.71	7.77	-101	0.515	47.2	0.00	0.330
12:20	9.45	15.70	7.76	-179	0.514	46.9	0.00	0.331

Sampling Information:

Quantity	Size	Material	Preservative	Compounds analyzed	Method
2	1 L	Glass	Unpreserved	SVOC PAH's	EPA Method 8270
3	40 mL	Glass	HCl	VOC's & BTEX	EPA Method 8260
1	250 mL	Plastic	NaOH	Total Cyanide	EPA Method 335.4
1	250 mL	Plastic	HNO3	Total Metals	EPA Method 200.7

Sample ID: **LTMW-D04-0617**
Sample Time: 12:20
Duplicate? Yes ☐ No ☒
MS/MSD? Yes ☐ No ☒
Shipped: Drop-off Syracuse Service Center ☐
Pick-up by Syracuse Courier ☐

Comments/Notes:

Laboratory: PACE Analytical
Greensburg, PA

National Grid
Kingsley Avenue, Rome, New York

Sampling Personnel: VK
Job Number: 06-02882-134400-221
Well Id. **LTMW-S04**

Date: 6/7/17
Weather: Sunny 70°
Time In: 12:30 Time Out: 13:20

Well Information

		TOC	Other
Depth to Water:	(feet)	7.11	
Depth to Bottom:	(feet)	17.26	
Depth to Product:	(feet)	NP	
Length of Water Column:	(feet)	10.15	
Volume of Water in Well:	(gal)	1.62	
Three Well Volumes:	(gal)	4.87	

Well Type: Flushmount ☐ Stick-Up ☒
Well Locked: Yes ☒ No ☐
Measuring Point Marked: Yes ☒ No ☐
Well Material: PVC ☒ SS ☐ Other: ____
Well Diameter: 1" ☐ 2" ☒ Other: ____
Comments:

Purging Information

Purging Method:	Bailer ☐	Peristaltic ☒	Grundfos Pump ☐	
Tubing/Bailer Material:	Teflon ☐	Stainless St. ☐	Polyethylene ☒	
Sampling Method:	Bailer ☐	Peristaltic ☒	Grundfos Pump ☐	
Average Pumping Rate: (ml/min)	200			
Duration of Pumping: (min)	30			
Total Volume Removed: (gal)	6000 mL	Did well go dry?	Yes ☐	No ☒

YSI 6920 or Horiba U-52 Water Quality Meter Used? Yes ☒ No ☐

Conversion Factors				
gal/ft. of water	1" ID	2" ID	4" ID	6" ID
	0.04	0.16	0.66	1.47
1 gallon=3.785L=3785mL=1337cu. feet				

Time	DTW (feet)	Temp (°C)	pH (S.U.)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	TDS (g/L)
12:40	7.34	14.42	6.75	197	0.360	14.5	0.74	0.226
12:45	7.58	16.34	6.06	282	0.262	10.1	0.29	0.170
12:50	7.60	16.41	6.05	295	0.253	7.3	0.08	0.164
12:55	7.60	16.46	6.05	301	0.255	5.6	0.00	0.166
13:00	7.65	16.31	6.06	308	0.255	4.0	0.00	0.166
13:05	7.65	16.38	6.04	318	0.254	2.7	0.00	0.165
13:10	7.65	16.23	6.04	321	0.255	2.8	0.00	0.166

Sampling Information:

Quantity	Size	Material	Preservative	Compounds analyzed	Method
2	1 L	Glass	Unpreserved	SVOC PAH's	EPA Method 8270
3	40 mL	Glass	HCl	VOC's & BTEX	EPA Method 8260
1	250 mL	Plastic	NaOH	Total Cyanide	EPA Method 335.4
1	250 mL	Plastic	HNO3	Total Metals	EPA Method 200.7

Sample ID: **LTMW-S04-0617**
Sample Time: 13:10
Duplicate? Yes ☐ No ☒
MS/MSD? Yes ☐ No ☒

Shipped: Drop-off Syracuse Service Center ☐
Pick-up by Syracuse Courier ☐

Comments/Notes:

Laboratory: PACE Analytical
Greensburg, PA

National Grid
Kingsley Avenue, Rome, New York

Sampling Personnel: AS
Job Number: 06-02882-134400-221
Well Id. **LTMW-D05**

Date: 6/7/17
Weather: 64°F, Sunny
Time In: 1140 Time Out: 1230

Well Information

		TOC	Other
Depth to Water:	(feet)	7.82	
Depth to Bottom:	(feet)	46.53	
Depth to Product:	(feet)	NP	
Length of Water Column:	(feet)	38.71	
Volume of Water in Well:	(gal)	6.2	
Three Well Volumes:	(gal)	18.5	

Well Type: Flushmount ☐ Stick-Up ☒
Well Locked: Yes ☒ No ☐
Measuring Point Marked: Yes ☒ No ☐
Well Material: PVC ☒ SS ☐ Other:
Well Diameter: 1" ☐ 2" ☒ Other:
Comments:

Purging Information

Purging Method:	Bailer ☐	Peristaltic ☒	Grundfos Pump ☐		
Tubing/Bailer Material:	Teflon ☐	Stainless St. ☐	Polyethylene ☒		
Sampling Method:	Bailer ☐	Peristaltic ☒	Grundfos Pump ☐		
Average Pumping Rate:	250 (ml/min)				
Duration of Pumping:	30 (min)				
Total Volume Removed:	3 (gal)				

Did well go dry? Yes ☐ No ☒

YSI 6920 or Horiba U-52 Water Quality Meter Used? Yes ☒ No ☐

Conversion Factors				
gal/ft. of water	1" ID	2" ID	4" ID	6" ID
	0.04	0.16	0.66	1.47
1 gallon=3.785L=3785mL=1337cu. feet				

Time	DTW (feet)	Temp (°C)	pH (S.U.)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	TDS (g/L)
1145	9.01	13.99	8.67	29	0.240	22.5	3.56	0.150
1150	9.99	14.84	8.59	53	0.340	12.3	1.83	0.221
1155	10.76	14.61	8.59	44	0.336	7.1	1.21	0.218
1200	11.18	14.86	8.60	35	0.338	5.0	1.07	0.220
1205	11.37	15.23	8.60	31	0.339	4.4	1.11	0.220
1210	11.70	15.31	8.61	30	0.338	3.9	1.19	0.220
1215	11.89	15.31	8.61	29	0.337	3.4	1.20	0.219

Sampling Information:

Quantity	Size	Material	Preservative	Compounds analyzed	Method
2	1 L	Glass	Unpreserved	SVOC PAH's	EPA Method 8270
3	40 mL	Glass	HCl	VOC's & BTEX	EPA Method 8260
1	250 mL	Plastic	NaOH	Total Cyanide	EPA Method 335.4
1	250 mL	Plastic	HNO3	Total Metals	EPA Method 200.7

Sample ID: **LTMW-D05-0617**
Sample Time: 1215

Duplicate? Yes ☐ No ☒
MS/MSD? Yes ☐ No ☒

Shipped: Drop-off Syracuse Service Center ☐
Pick-up by Syracuse Courier ☐

Comments/Notes:

Laboratory: PACE Analytical
Greensburg, PA

National Grid
Kingsley Avenue, Rome, New York

Sampling Personnel: AS
Job Number: 06-02882-134400-221
Well Id. **LTMW-S05**

Date: 6/7/17
Weather: 67°F, sunny
Time In: 1230 Time Out:

Well Information

		TOC	Other
Depth to Water:	(feet)	7.67	
Depth to Bottom:	(feet)	16.83	
Depth to Product:	(feet)	NP	
Length of Water Column:	(feet)	9.16	
Volume of Water in Well:	(gal)	1.4	
Three Well Volumes:	(gal)	4.3	

Well Type: Flushmount ☐ Stick-Up ☒
Well Locked: Yes ☒ No ☐
Measuring Point Marked: Yes ☒ No ☐
Well Material: PVC ☒ SS ☐ Other:
Well Diameter: 1" ☐ 2" ☒ Other:
Comments:

Purging Information

Purging Method:	Bailer ☐	Peristaltic ☒	Grundfos Pump ☐	
Tubing/Bailer Material:	Teflon ☐	Stainless St. ☐	Polyethylene ☒	
Sampling Method:	Bailer ☐	Peristaltic ☒	Grundfos Pump ☐	

Average Pumping Rate: 250 (ml/min)
Duration of Pumping: 30 (min)
Total Volume Removed: (gal)
Did well go dry? Yes ☐ No ☒
YSI 6920 or Horiba U-52 Water Quality Meter Used? Yes ☒ No ☐

Conversion Factors				
gal/ft. of water	1" ID	2" ID	4" ID	6" ID
	0.04	0.16	0.66	1.47
1 gallon=3.785L=3785mL=1337cu. feet				

Time	DTW (feet)	Temp (°C)	pH (S.U.)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	TDS (g/L)
1235	7.66	15.15	7.94	101	0.404	14.1	2.28	0.259
1240	7.67	14.62	7.20	199	0.467	19.3	3.21	0.303
1245	7.67	13.89	7.08	236	0.469	9.3	3.03	0.305
1250	7.67	13.62	7.03	250	0.470	8.4	2.99	0.306
1255	7.67	13.71	7.01	254	0.472	8.1	2.99	0.307
1300	7.67	13.81	7.00	259	0.478	5.8	2.94	0.310
1305	7.67	13.78	7.01	267	0.489	3.0	2.82	0.317

Sampling Information:

Quantity	Size	Material	Preservative	Compounds analyzed	Method
2	1 L	Glass	Unpreserved	SVOC PAH's	EPA Method 8270
3	40 mL	Glass	HCl	VOC's & BTEX	EPA Method 8260
1	250 mL	Plastic	NaOH	Total Cyanide	EPA Method 335.4
1	250 mL	Plastic	HNO3	Total Metals	EPA Method 200.7

Sample ID: **LTMW-S05-0617**
Sample Time: 1305
Duplicate? Yes ☐ No ☒
MS/MSD? Yes ☐ No ☒

Shipped: Drop-off Syracuse Service Center ☐
Pick-up by Syracuse Courier ☐

Comments/Notes:

Laboratory: PACE Analytical
Greensburg, PA

National Grid
Kingsley Avenue, Rome, New York

Sampling Personnel: AJ
Job Number: 06-02882-134400-221
Well Id. **LTMW-D06**

Date: 6/7/17
Weather: 69°F, sunny
Time In: 1340 Time Out: 1430

Well Information

		TOC	Other
Depth to Water:	(feet)	10.01	
Depth to Bottom:	(feet)	52.22	
Depth to Product:	(feet)	NP	
Length of Water Column:	(feet)	42.21	
Volume of Water in Well:	(gal)	6.7	
Three Well Volumes:	(gal)	20.2	

Well Type: Flushmount ☐ Stick-Up ☒
Well Locked: Yes ☒ No ☐
Measuring Point Marked: Yes ☒ No ☐
Well Material: PVC ☒ SS ☐ Other:
Well Diameter: 1" ☐ 2" ☒ Other:
Comments:

Purging Information

Purging Method:	Bailer ☐	Peristaltic ☒	Grundfos Pump ☐		
Tubing/Bailer Material:	Teflon ☐	Stainless St. ☐	Polyethylene ☒		
Sampling Method:	Bailer ☐	Peristaltic ☒	Grundfos Pump ☐		
Average Pumping Rate:	250 (ml/min)				
Duration of Pumping:	30 (min)				
Total Volume Removed:	3 (gal)				

Did well go dry? Yes ☐ No ☒

YSI 6920 or Horiba U-52 Water Quality Meter Used? Yes ☒ No ☐

Conversion Factors				
gal/ft. of water	1" ID	2" ID	4" ID	6" ID
	0.04	0.16	0.66	1.47
1 gallon=3.785L=3785mL=1337cu. feet				

Time	DTW (feet)	Temp (°C)	pH (S.U.)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	TDS (g/L)
1345	11.55	23.49	8.28	159	0.348	22.3	3.66	0.226
1350	11.50	23.19	8.31	156	0.342	21.9	2.22	0.223
1355	11.51	22.51	8.34	150	0.332	19.6	0.75	0.216
1400	11.52	21.85	8.34	143	0.329	15.0	0.32	0.214
1405	11.52	21.53	8.33	139	0.328	11.3	0.26	0.213
1410	11.54	21.11	8.31	135	0.329	8.5	0.19	0.214
1415	11.54	20.93	8.28	130	0.334	7.0	0.13	0.217

Sampling Information:

Quantity	Size	Material	Preservative	Compounds analyzed	Method
2	1 L	Glass	Unpreserved	SVOC PAH's	EPA Method 8270
3	40 mL	Glass	HCl	VOC's & BTEX	EPA Method 8260
1	250 mL	Plastic	NaOH	Total Cyanide	EPA Method 335.4
1	250 mL	Plastic	HNO3	Total Metals	EPA Method 200.7

Sample ID: **LTMW-D06-0617**
Sample Time: 1415

Duplicate? Yes ☐ No ☒
MS/MSD? Yes ☐ No ☒

Shipped: Drop-off Syracuse Service Center ☐
Pick-up by Syracuse Courier ☐

Comments/Notes:

Laboratory: PACE Analytical
Greensburg, PA

National Grid
Kingsley Avenue, Rome, New York

Sampling Personnel: AS
Job Number: 06-02882-134400-221
Well Id. **LTMW-S06**

Date: 6/7/17
Weather: 71°F, Sunny
Time In: 1430 Time Out: 1526

Well Information

		TOC	Other
Depth to Water:	(feet)	11.42	
Depth to Bottom:	(feet)	17.60	
Depth to Product:	(feet)	NP	
Length of Water Column:	(feet)	6.18	
Volume of Water in Well:	(gal)	1.0	
Three Well Volumes:	(gal)	3.0	

Well Type: Flushmount ☐ Stick-Up ☒
Well Locked: Yes ☒ No ☐
Measuring Point Marked: Yes ☒ No ☐
Well Material: PVC ☒ SS ☐ Other:
Well Diameter: 1" ☐ 2" ☒ Other:
Comments:

Purging Information

Purging Method:	Bailer ☐	Peristaltic ☒	Grundfos Pump ☐
Tubing/Bailer Material:	Teflon ☐	Stainless St. ☐	Polyethylene ☒
Sampling Method:	Bailer ☐	Peristaltic ☒	Grundfos Pump ☐
Average Pumping Rate:	250 (ml/min)		
Duration of Pumping:	30 (min)		
Total Volume Removed:	3 (gal)		

Did well go dry? Yes ☐ No ☒

YSI 6920 or Horiba U-52 Water Quality Meter Used? Yes ☒ No ☐

Conversion Factors				
gal/ft. of water	1" ID	2" ID	4" ID	6" ID
	0.04	0.16	0.66	1.47
1 gallon=3.785L=3785mL=1337cu. feet				

Time	DTW (feet)	Temp (°C)	pH (S.U.)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	TDS (g/L)
1435	11.45	17.90	7.84	69	0.653	8.7	0.16	0.391
1440	11.46	13.31	7.11	-8	1.36	13.0	0.28	0.864
1445	11.45	12.95	6.93	-15	1.47	15.3	0.27	0.942
1450	11.46	12.94	6.91	-14	1.49	13.2	0.10	0.952
1455	11.46	12.96	6.90	-14	1.49	6.1	0.00	0.954
1500	11.46	12.94	6.90	-13	1.49	7.4	0.00	0.952
1505	11.46	12.99	6.89	-12	1.48	1.60	0.00	0.950

Sampling Information:

Quantity	Size	Material	Preservative	Compounds analyzed	Method
2	1 L	Glass	Unpreserved	SVOC PAH's	EPA Method 8270
3	40 mL	Glass	HCl	VOC's & BTEX	EPA Method 8260
1	250 mL	Plastic	NaOH	Total Cyanide	EPA Method 335.4
1	250 mL	Plastic	HNO3	Total Metals	EPA Method 200.7

Sample ID: **LTMW-S06-0617**
Sample Time: 1505

Duplicate? Yes ☐ No ☒
MS/MSD? Yes ☐ No ☒

Shipped: Drop-off Syracuse Service Center ☐
Pick-up by Syracuse Courier ☐

Comments/Notes:

Laboratory: PACE Analytical
Greensburg, PA

National Grid
Kingsley Avenue, Rome, New York

Sampling Personnel: KC TD
Job Number: 06-02882-134400-221
Well Id. **LTMW-S07**

Date: 6/7/17
Weather: Sunny 70
Time In: 13:30 Time Out: 14:20

Well Information

		TOC	Other
Depth to Water:	(feet)	9.60	
Depth to Bottom:	(feet)	17.82	
Depth to Product:	(feet)	NP	
Length of Water Column:	(feet)	8.22	
Volume of Water in Well:	(gal)	1.31	
Three Well Volumes:	(gal)	3.94	

Well Type: Flushmount ☐ Stick-Up ☒
Well Locked: Yes ☒ No ☐
Measuring Point Marked: Yes ☒ No ☐
Well Material: PVC ☒ SS ☐ Other:
Well Diameter: 1" ☐ 2" ☒ Other:
Comments:

Purging Information

Purging Method:	Bailer ☐	Peristaltic ☒	Grundfos Pump ☐	
Tubing/Bailer Material:	Teflon ☐	Stainless St. ☐	Polyethylene ☒	
Sampling Method:	Bailer ☐	Peristaltic ☒	Grundfos Pump ☐	
Average Pumping Rate: (ml/min)	200			
Duration of Pumping: (min)	30			
Total Volume Removed: (gal)	6000mL	Did well go dry?	Yes ☐	No ☒

YSI 6920 or Horiba U-52 Water Quality Meter Used? Yes ☒ No ☐

Conversion Factors				
gal/ft. of water	1" ID	2" ID	4" ID	6" ID
	0.04	0.16	0.66	1.47
1 gallon=3.785L=3785mL=1337cu. feet				

Time	DTW (feet)	Temp (°C)	pH (S.U.)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	TDS (g/L)
13:35	10.60	16.69	6.79	-23	0.622	17.7	1.37	0.399
13:40	10.80	14.98	6.87	-17	0.656	14.1	0.00	0.426
13:45	10.85	12.71	6.82	-24	0.686	11.3	0.00	0.434
13:50	10.95	12.96	6.82	-27	0.675	10.3	0.00	0.435
13:55	10.95	12.85	6.81	-27	0.677	4.1	0.00	0.433
14:00	10.95	12.45	6.75	-23	0.682	3.3	0.00	0.435
14:05		12.44	6.72	-23	0.681	3.2	0.00	0.434

Sampling Information:

Quantity	Size	Material	Preservative	Compounds analyzed	Method
2	1 L	Glass	Unpreserved	SVOC PAH's	EPA Method 8270
3	40 mL	Glass	HCl	VOC's & BTEX	EPA Method 8260
1	250 mL	Plastic	NaOH	Total Cyanide	EPA Method 335.4
1	250 mL	Plastic	HNO3	Total Metals	EPA Method 200.7

Sample ID: **LTMW-S07-0617**
Sample Time: 14:05
Duplicate? Yes ☐ No ☒
MS/MSD? Yes ☐ No ☒

Shipped: Drop-off Syracuse Service Center ☐
Pick-up by Syracuse Courier ☒

Comments/Notes:

Laboratory: PACE Analytical
Greensburg, PA

National Grid
Kingsley Avenue, Rome, New York

Sampling Personnel: KE PD
Job Number: 06-02882-134400-221
Well Id. **LTMW-S08**

Date: 6/7/17
Weather: Sunny 70°
Time In: 14:27 Time Out: 15:10

Well Information

		TOC	Other
Depth to Water:	(feet)	13.95	
Depth to Bottom:	(feet)	17.39	
Depth to Product:	(feet)	NP	
Length of Water Column:	(feet)	3.54	
Volume of Water in Well:	(gal)	0.58	
Three Well Volumes:	(gal)	~~1.74~~	1.69

Well Type: Flushmount ☐ Stick-Up ☒
Well Locked: Yes ☒ No ☐
Measuring Point Marked: Yes ☒ No ☐
Well Material: PVC ☒ SS ☐ Other:
Well Diameter: 1" ☐ 2" ☒ Other:
Comments:

Purging Information

Purging Method:	Bailer ☐	Peristaltic ☒	Grundfos Pump ☐		
Tubing/Bailer Material:	Teflon ☐	Stainless St. ☐	Polyethylene ☒		
Sampling Method:	Bailer ☐	Peristaltic ☒	Grundfos Pump ☐		
Average Pumping Rate:	(ml/min)	200			
Duration of Pumping:	(min)	30			
Total Volume Removed:	(gal)	6000 mL	Did well go dry?	Yes ☐	No ☒

YSI 6920 or Horiba U-52 Water Quality Meter Used? Yes ☒ No ☐

Conversion Factors				
gal/ft. of water	1" ID	2" ID	4" ID	6" ID
	0.04	0.16	0.66	1.47
1 gallon=3.785L=3785mL=1337cu. feet				

Time	DTW (feet)	Temp (°C)	pH (S.U.)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	TDS (g/L)
14:30	13.94	15.29	6.35	131	0.179	15.1	0.73	0.115
14:35	13.93	14.59	6.17	153	0.175	13.3	6.23	0.114
14:40	13.94	13.57	6.02	178	0.177	10.8	6.00	0.115
14:45	13.95	12.87	5.97	191	0.173	6.9	0.00	0.113
14:50	13.95	12.67	5.96	204	0.172	5.6	0.00	0.112
14:55	~~13.95~~ 13.95	12.41	5.97	208	0.170	4.7	0.00	0.110
15:00	13.95	12.42	5.96	207	0.171	4.4	0.00	0.111

Sampling Information:

Quantity	Size	Material	Preservative	Compounds analyzed	Method
2	1 L	Glass	Unpreserved	SVOC PAH's	EPA Method 8270
3	40 mL	Glass	HCl	VOC's & BTEX	EPA Method 8260
1	250 mL	Plastic	NaOH	Total Cyanide	EPA Method 335.4
1	250 mL	Plastic	HNO3	Total Metals	EPA Method 200.7

Sample ID: **LTMW-S08-0617**
Sample Time: 15:00
Duplicate? Yes ☐ No ☒
MS/MSD? Yes ☐ No ☒
Shipped: Drop-off Syracuse Service Center ☐
Pick-up by Syracuse Courier ☐

Comments/Notes:

Laboratory: PACE Analytical
Greensburg, PA

National Grid
Kingsley Avenue, Rome, New York

Sampling Personnel:

Job Number: 06-02882-134400-221

Well Id. **LTMW-S09**

Date: 6/7/17

Weather: 71°F, partly cloudy

Time In: 1525 Time Out: 1635

Well Information

		TOC	Other
Depth to Water:	(feet)	8.70	
Depth to Bottom:	(feet)	16.92	
Depth to Product:	(feet)	NP	
Length of Water Column:	(feet)	8.22	
Volume of Water in Well:	(gal)	1.3	
Three Well Volumes:	(gal)	3.9	

Well Type: Flushmount ☐ Stick-Up ☒
Well Locked: Yes ☒ No ☐
Measuring Point Marked: Yes ☒ No ☐
Well Material: PVC ☒ SS ☐ Other:
Well Diameter: 1" ☐ 2" ☒ Other:
Comments:

Purging Information

Purging Method:	Bailer ☐	Peristaltic ☒	Grundfos Pump ☐
Tubing/Bailer Material:	Teflon ☐	Stainless St. ☐	Polyethylene ☒
Sampling Method:	Bailer ☐	Peristaltic ☒	Grundfos Pump ☐

Average Pumping Rate: 250 (ml/min)
Duration of Pumping: 30 (min)
Total Volume Removed: 3 (gal)
Did well go dry? Yes ☐ No ☒
YSI 6920 or Horiba U-52 Water Quality Meter Used? Yes ☒ No ☐

Conversion Factors				
gal/ft. of water	1" ID	2" ID	4" ID	6" ID
	0.04	0.16	0.66	1.47
1 gallon=3.785L=3785mL=1337cu. feet				

Time	DTW (feet)	Temp (°C)	pH (S.U.)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	TDS (g/L)
1530	8.74	14.08	7.08	36	1.06	6.8	7.79	0.702
1535	8.72	15.08	7.33	96	0.652	10.5	8.70	0.420
1540	8.72	14.97	7.30	113	0.619	8.0	7.31	0.396
1545	8.72	14.88	7.28	123	0.616	6.2	7.24	0.394
1550	8.72	15.03	7.25	129	0.617	5.3	7.13	0.395
1555	8.72	15.20	7.31	135	0.618	4.9	7.04	0.396
1600	8.72	15.26	7.33	138	0.618	4.9	7.01	0.396

Sampling Information:

Quantity	Size	Material	Preservative	Compounds analyzed	Method
4	1 L	Glass	Unpreserved	SVOC PAH's	EPA Method 8270
6	40 mL	Glass	HCl	VOC's & BTEX	EPA Method 8260
2	250 mL	Plastic	NaOH	Total Cyanide	EPA Method 335.4
2	250 mL	Plastic	HNO3	Total Metals	EPA Method 200.7

Field Duplicate **Sample Time**
Sample ID: **LTMW-S09-0617** Duplicate? Yes ☒ No ☐
Sample Time: 1600 MS/MSD? Yes ☐ No ☒

Shipped: Drop-off Syracuse Service Center ☐
Pick-up by Syracuse Courier ☐

Comments/Notes:

Laboratory: PACE Analytical
Greensburg, PA

National Grid
Kingsley Avenue, Rome, New York

Sampling Personnel: KL PD
Date: 6/7/17
Job Number: 06-02882-134400-221
Weather: Sunny 70
Well Id. **LTMW-S10**
Time In: 15:15 Time Out:

Well Information

		TOC	Other
Depth to Water:	(feet)	9.11	
Depth to Bottom:	(feet)	17.18	
Depth to Product:	(feet)	NP	
Length of Water Column:	(feet)	8.07	
Volume of Water in Well:	(gal)	1.29	
Three Well Volumes:	(gal)	3.87	

Well Type: Flushmount ☐ Stick-Up ☒
Well Locked: Yes ☒ No ☐
Measuring Point Marked: Yes ☒ No ☐
Well Material: PVC ☒ SS ☐ Other:
Well Diameter: 1" ☐ 2" ☒ Other:
Comments:

Purging Information

Purging Method:		Bailer ☐	Peristaltic ☒	Grundfos Pump ☐		
Tubing/Bailer Material:		Teflon ☐	Stainless St. ☐	Polyethylene ☒		
Sampling Method:		Bailer ☐	Peristaltic ☒	Grundfos Pump ☐		
Average Pumping Rate:	(ml/min)	200				
Duration of Pumping:	(min)	50				
Total Volume Removed:	(gal)	10000 mL	Did well go dry?	Yes ☐	No ☒	

YSI 6920 or Horiba U-52 Water Quality Meter Used? Yes ☒ No ☐

Conversion Factors				
gal/ft. of water	1" ID	2" ID	4" ID	6" ID
	0.04	0.16	0.66	1.47
1 gallon=3.785L=3785mL=1337cu. feet				

Time	DTW (feet)	Temp (°C)	pH (S.U.)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	TDS (g/L)
15:20	9.37	16.92	6.29	45	1.04	16.4	0.99	0.665
15:25	9.43	14.84	6.28	17	1.00	238	1.59	0.682
15:30	9.48	13.79	6.25	21	1.10	57.7	0.00	0.702
15:35	9.50	13.59	6.29	14	1.10	51.1	0.00	0.705
15:40	9.50	13.37	6.29	11	1.11	36.8	0.00	0.711
15:45	9.50	13.44	6.29	5	1.12	27.5	0.00	0.718
15:50	9.51	13.54	6.29	2	1.13	26.3	0.00	0.721

Sampling Information:

Quantity	Size	Material	Preservative	Compounds analyzed	Method
6	1 L	Glass	Unpreserved	SVOC PAH's	EPA Method 8270
9	40 mL	Glass	HCl	VOC's & BTEX	EPA Method 8260
3	250 mL	Plastic	NaOH	Total Cyanide	EPA Method 335.4
3	250 mL	Plastic	HNO3	Total Metals	EPA Method 200.7

Matrix Spike Sample Time 15:50 **Matrix Spike Duplicate Sample Time** —

Sample ID: **LTMW-S10-0617** Duplicate? Yes ☐ No ☒
Sample Time: 15:50 MS/MSD? Yes ☒ No ☐

Shipped: Drop-off Syracuse Service Center ☐
Pick-up by Syracuse Courier ☒

Comments/Notes:

Laboratory: PACE Analytical
Greensburg, PA

Appendix D

Analytical Data Usability Summary Report with Analytical Data

Groundwater & Environmental Services, Inc.

708 North Main Street, Suite 201 • Blacksburg, Virginia 24060 • (866) 756 0788

July 16, 2017

Mark A. Boorady
Groundwater & Environmental Services, Inc.
5 Technology Place, Suite 4
East Syracuse, New York 13057

RE: Data Usability Summary Report (DUSR) for National Grid- Rome Kingsley Avenue Site Data Packages Pace Analytical Job Nos. 30221123, 30221243

Groundwater & Environmental Services, Inc. (GES) reviewed two data packages (Laboratory Project Numbers 30221123, 30221243) from Pace Analytical Services, Inc., for the analysis of an effluent sample and trip blank collected on June 7, 2017 and groundwater samples collected on June 7, 2017 from monitoring wells located at the National Grid: Rome Kingsley Avenue Site. Sixteen aqueous samples and a field duplicate were analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX), polyaromatic hydrocarbons (PAHs), Total metals (arsenic, lead, zinc), and total cyanide. One effluent system sample was processed for TCL volatiles, nine metals, mercury and total cyanide. Methodologies utilized are those of the USEPA 200.7, USEPA 335.4 USEPA 245.1 and the USEPA SW846 methods 7470/8260B/8270C, with additional QC requirements of the NYSDEC ASP.

The data are reported as part of a complete full deliverable type B data validation. This usability report is generated from review of the following:

- Laboratory Narrative Discussion
- Custody Documentation
- Holding Times
- Surrogate and Internal Standard Recoveries
- Matrix Spike Recoveries/Duplicate (MS/MSD) Correlations
- Field Duplicate Correlations
- Laboratory Control Sample (LCS)
- Preparation/Calibration Blanks
- Calibration/Low Level Standard Responses
- Instrumental Tunes
- Instrument MDLs
- Sample Quantitation and Identification

The items listed above which show deficiencies are discussed within the text of this narrative.

All of the other items are determined to be acceptable for the DUSR level review.

Table 1. Data Qualifications

Sample ID	Qualifier	Analyte	Reason for qualification
LTMW-D05-0617 LTMW-S02-0617 LTMW-S07-0617 LTMW-S10-0617 LTMW-D05-0617 LTMW-S02-0617 LTMW-S07-0617	Detects: J Non-Detects UJ	All	Low surrogate recoveries
LTMW-S10-0617	J	Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Chrysene, Dibenz(a,h)anthracene, Fluoranthene, Indeno(1,2,3-cd)pyrene, Pyrene	RPD in MS/MSD above specification

In summary, sample results are usable as reported, with a few qualifications due to low surrogate recoveries and precision issues. Qualifications are detailed in Table 1.

The laboratory case narratives and sample identification summary forms are attached to this text, and should be reviewed in conjunction with this report.

BTEX and TCL Volatiles by EPA 8260C/NYSDEC ASP

Sample holding times are met for groundwater and effluent samples and instrumental tune fragmentations are within acceptance ranges. Surrogate and internal standard recoveries are within required limits with the exception of the surrogate recovery for 1,2-dichlorothaane-D4, which was consistently high across all samples, including the laboratory prepared quality control. As the secondary low molecular weight surrogate, dibromofluoromethane recovers within specifications, and all recoveries in the MS/MSD of compounds of concern show no high bias, no qualifications are applied. Calibrations standards show acceptable responses within analytical protocol and validation action limits. The blind field duplicate correlations of LTMW-S09-0617 fall within guidance limits.

PAHs by EPA8270D/NYSDEC ASP

Holding times are met. Instrumental tune fragmentations are within acceptance ranges. Surrogate recoveries are within analytical and validation guidelines.

Blanks show no contamination. Calibration standards, both initial and continuing, show acceptable responses within analytical method protocols and validation guidelines. The laboratory

control spike recoveries and precision indicate the method is within laboratory control. The blind field duplicate correlations of LTMW-S09-0617 fall within guidance limits. Internal standard response is within specification. A matrix spike matrix spike duplicate (MS/MSD) analysis was performed and all data passed within laboratory specifications. Surrogates in the PAH analyses failed low in multiple samples. This indicates a possible low bias in the data, and all results in the associated samples are qualified as estimates. Details can be found in Table 1.

Specific analytes were reported at dilution, with other analytes reported a full concentration. Elevated reporting limits are only associated with high-level concentration analytes, and do not impact the ability to use the data to compare to regulatory standards.

Arsenic, Lead, and Zinc, and Nine Metals by EPA 200.7/EPA 245.3/NYSDEC ASP

The matrix spikes show acceptable accuracy and precision. The blind field duplicate correlations of LTMW-S09-0617 fall within guidance limits. Instrument performance is compliant, and blanks show no contamination above the reporting limit.

Wet Chemistry-Total Cyanide by EPA335.4 and pH

Review was conducted for method compliance, holding times, transcription, calculations, standard and blank acceptability, accuracy and precision, etc., as applicable to each procedure. All are acceptable for the validated samples. Cyanide hold times were met.

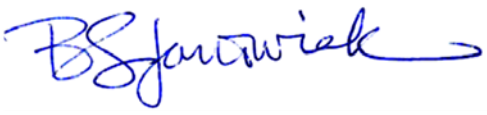
Calibration standard responses are compliant. Blanks show no detections above the reporting limits. The matrix spikes and/or laboratory duplicates of total cyanide show acceptable recoveries and/or correlations.

The analyses for pH requires immediate analysis upon sampling. Laboratory data is out of hold and qualified by the laboratory.

Data Package Completeness

Complete NYSDEC Category B deliverables were included in the laboratory data package, all information required for validation of the data is present.

Please do not hesitate to contact me if you have comments or questions regarding this report.



Bonnie Janowiak, Ph.D.
Project Chemist
708 North Main Street, Suite 201
Blacksburg, VA 24060

VALIDATION DATA QUALIFIER DEFINITIONS

U The analyte was analyzed for, but was not detected above the level of the associated reported quantitation limit.

J The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.

J- The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased low.

J+ The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased high.

UJ The analyte was analyzed for, but was not detected. The associated reported quantitation limit is approximate and may be inaccurate or imprecise.

NJ The detection is tentative in identification and estimated in value. Although there is presumptive evidence of the analyte, the result should be used with caution as a potential false positive and/or elevated quantitative value.

R The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control limits. The analyte may or may not be present.

Sample Summaries

and

Laboratory Case Narratives

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

June 22, 2017

Mr. Mark Boorady
Groundwater & Environmental Services, Inc.
5 Technology Place, Suite 4
East Syracuse, NY 13057

RE: Project: National Grid - Rome Kingsley
Pace Project No.: 30221123

Dear Mr. Boorady:
Enclosed are the analytical results for sample(s) received by the laboratory on June 09, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Timothy Reed for
Rachel Christner
rachel.christner@pacelabs.com
724-850-5611
Project Manager

Enclosures

cc: GES Reports - Syracuse, Groundwater & Environmental Services, Inc.
Ms. Cheryl Golden-Walts, Groundwater & Environmental Services, Inc.
Chandler Swartzendruber, Groundwater & Environmental Services, Inc.

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

CERTIFICATIONS

Project: National Grid - Rome Kingsley
Pace Project No.: 30221123

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
L-A-B DOD-ELAP Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH-0694
Delaware Certification
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: 90133
Louisiana DHH/TNI Certification #: LA140008
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: PA00091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235
Montana Certification #: Cert 0082
Nebraska Certification #: NE-05-29-14
Nevada Certification #: PA014572015-1
New Hampshire/TNI Certification #: 2976
New Jersey/TNI Certification #: PA 051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Oregon/TNI Certification #: PA200002
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN2867
Texas/TNI Certification #: T104704188-14-8
Utah/TNI Certification #: PA014572015-5
USDA Soil Permit #: P330-14-00213
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Certification
Wyoming Certification #: 8TMS-L

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE SUMMARY

Project: National Grid - Rome Kingsley
Pace Project No.: 30221123

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30221123001	**LTMW-D01-0617**	Water	06/07/17 09:30	06/09/17 10:05
30221123002	**LTMW-S01-0617**	Water	06/07/17 09:30	06/09/17 10:05
30221123003	**LTMW-D02-0617**	Water	06/07/17 11:20	06/09/17 10:05
30221123004	**LTMW-S02-0617**	Water	06/07/17 10:35	06/09/17 10:05
30221123005	**LTMW-D03-0617**	Water	06/07/17 10:40	06/09/17 10:05
30221123006	**LTMW-S03-0617**	Water	06/07/17 11:40	06/09/17 10:05
30221123007	**LTMW-D04-0617**	Water	06/07/17 12:20	06/09/17 10:05
30221123008	**LTMW-S04-0617**	Water	06/07/17 13:10	06/09/17 10:05
30221123009	**LTMW-D05-0617**	Water	06/07/17 12:15	06/09/17 10:05
30221123010	**LTMW-S05-0617**	Water	06/07/17 13:05	06/09/17 10:05
30221123011	**LTMW-D06-0617**	Water	06/07/17 14:15	06/09/17 10:05
30221123012	**LTMW-S06-0617**	Water	06/07/17 15:05	06/09/17 10:05
30221123013	**LTMW-S07-0617**	Water	06/07/17 14:05	06/09/17 10:05
30221123014	**LTMW-S08-0617**	Water	06/07/17 15:00	06/09/17 10:05
30221123015	**LTMW-S09-0617**	Water	06/07/17 16:00	06/09/17 10:05
30221123016	**LTMW-S10-0617**	Water	06/07/17 15:50	06/09/17 10:05
30221123017	**Field Duplicate-0617**	Water	06/07/17 00:01	06/09/17 10:05
30221123018	**Trip Blank**	Water	06/07/17 00:01	06/09/17 10:05

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE ANALYTE COUNT

Project: National Grid - Rome Kingsley
Pace Project No.: 30221123

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30221123001	**LTMW-D01-0617**	EPA 200.7	CTS	3	PASI-PA
		EPA 8270D by SIM	DSC	19	PASI-PA
		EPA 8260C	MAK	10	PASI-PA
		EPA 335.4	LEP	1	PASI-PA
30221123002	**LTMW-S01-0617**	EPA 200.7	CTS	3	PASI-PA
		EPA 8270D by SIM	DSC	19	PASI-PA
		EPA 8260C	MAK	10	PASI-PA
		EPA 335.4	LEP	1	PASI-PA
30221123003	**LTMW-D02-0617**	EPA 200.7	CTS	3	PASI-PA
		EPA 8270D by SIM	DSC	19	PASI-PA
		EPA 8260C	MAK	10	PASI-PA
		EPA 335.4	LEP	1	PASI-PA
30221123004	**LTMW-S02-0617**	EPA 200.7	CTS	3	PASI-PA
		EPA 8270D by SIM	DSC	19	PASI-PA
		EPA 8260C	MAK	10	PASI-PA
		EPA 335.4	LEP	1	PASI-PA
30221123005	**LTMW-D03-0617**	EPA 200.7	CTS	3	PASI-PA
		EPA 8270D by SIM	DSC	19	PASI-PA
		EPA 8260C	MAK	10	PASI-PA
		EPA 335.4	LEP	1	PASI-PA
30221123006	**LTMW-S03-0617**	EPA 200.7	CTS	3	PASI-PA
		EPA 8270D by SIM	DSC	19	PASI-PA
		EPA 8260C	MAK	10	PASI-PA
		EPA 335.4	LEP	1	PASI-PA
30221123007	**LTMW-D04-0617**	EPA 200.7	CTS	3	PASI-PA
		EPA 8270D by SIM	DSC	19	PASI-PA
		EPA 8260C	MAK	10	PASI-PA
		EPA 335.4	LEP	1	PASI-PA
30221123008	**LTMW-S04-0617**	EPA 200.7	CTS	3	PASI-PA
		EPA 8270D by SIM	DSC	19	PASI-PA
		EPA 8260C	MAK	10	PASI-PA
		EPA 335.4	LEP	1	PASI-PA
30221123009	**LTMW-D05-0617**	EPA 200.7	CTS	3	PASI-PA
		EPA 8270D by SIM	DSC	19	PASI-PA
		EPA 8260C	MAK	10	PASI-PA
		EPA 335.4	LEP	1	PASI-PA
30221123010	**LTMW-S05-0617**	EPA 200.7	CTS	3	PASI-PA

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE ANALYTE COUNT

Project: National Grid - Rome Kingsley
Pace Project No.: 30221123

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 8270D by SIM	DSC	19	PASI-PA
		EPA 8260C	MAK	10	PASI-PA
		EPA 335.4	LEP	1	PASI-PA
30221123011	**LTMW-D06-0617**	EPA 200.7	CTS	3	PASI-PA
		EPA 8270D by SIM	DSC	19	PASI-PA
		EPA 8260C	MAK	10	PASI-PA
		EPA 335.4	LEP	1	PASI-PA
30221123012	**LTMW-S06-0617**	EPA 200.7	CTS	3	PASI-PA
		EPA 8270D by SIM	DSC	19	PASI-PA
		EPA 8260C	MAK	10	PASI-PA
		EPA 335.4	LEP	1	PASI-PA
30221123013	**LTMW-S07-0617**	EPA 200.7	CTS	3	PASI-PA
		EPA 8270D by SIM	DSC	19	PASI-PA
		EPA 8260C	MAK	10	PASI-PA
		EPA 335.4	LEP	1	PASI-PA
30221123014	**LTMW-S08-0617**	EPA 200.7	CTS	3	PASI-PA
		EPA 8270D by SIM	DSC	19	PASI-PA
		EPA 8260C	MAK	10	PASI-PA
		EPA 335.4	LEP	1	PASI-PA
30221123015	**LTMW-S09-0617**	EPA 200.7	CTS	3	PASI-PA
		EPA 8270D by SIM	DSC	19	PASI-PA
		EPA 8260C	MAK	10	PASI-PA
		EPA 335.4	LEP	1	PASI-PA
30221123016	**LTMW-S10-0617**	EPA 200.7	CTS	3	PASI-PA
		EPA 8270D by SIM	DSC	19	PASI-PA
		EPA 8260C	MAK	10	PASI-PA
		EPA 335.4	LEP	1	PASI-PA
30221123017	**Field Duplicate-0617**	EPA 200.7	CTS	3	PASI-PA
		EPA 8270D by SIM	DSC	19	PASI-PA
		EPA 8260C	MAK	10	PASI-PA
		EPA 335.4	LEP	1	PASI-PA
30221123018	**Trip Blank**	EPA 8260C	MAK	10	PASI-PA

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PROJECT NARRATIVE

Project: National Grid - Rome Kingsley
Pace Project No.: 30221123

Method: **EPA 200.7**
Description: 200.7 Metals, Total
Client: Groundwater & Environmental Services, Inc. (Syracuse)
Date: June 22, 2017

General Information:
17 samples were analyzed for EPA 200.7. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 200.7 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: National Grid - Rome Kingsley
Pace Project No.: 30221123

Method: **EPA 8270D by SIM**
Description: 8270D MSSV PAH by SIM
Client: Groundwater & Environmental Services, Inc. (Syracuse)
Date: June 22, 2017

General Information:
17 samples were analyzed for EPA 8270D by SIM. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3510C with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

QC Batch: 261784

S1: Surrogate recovery outside laboratory control limits (confirmed by re-analysis).
- LTMW-D05-0617 (Lab ID: 30221123009)
  - Terphenyl-d14 (S)
- LTMW-S02-0617 (Lab ID: 30221123004)
  - Terphenyl-d14 (S)
- LTMW-S07-0617 (Lab ID: 30221123013)
  - Terphenyl-d14 (S)

SR: Surrogate recovery was below laboratory control limits. Results may be biased low.
- LTMW-D05-0617 (Lab ID: 30221123009)
  - Terphenyl-d14 (S)
- LTMW-S02-0617 (Lab ID: 30221123004)
  - Terphenyl-d14 (S)
- LTMW-S07-0617 (Lab ID: 30221123013)
  - Terphenyl-d14 (S)
- LTMW-S10-0617 (Lab ID: 30221123016)
  - Terphenyl-d14 (S)
- MSD (Lab ID: 1288966)
  - Terphenyl-d14 (S)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

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PROJECT NARRATIVE

Project: National Grid - Rome Kingsley
Pace Project No.: 30221123

Method: **EPA 8270D by SIM**
Description: 8270D MSSV PAH by SIM
Client: Groundwater & Environmental Services, Inc. (Syracuse)
Date: June 22, 2017

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 261784

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30221123016

R1: RPD value was outside control limits.

- MSD (Lab ID: 1288966)
  - Benzo(a)anthracene
  - Benzo(a)pyrene
  - Benzo(b)fluoranthene
  - Benzo(g,h,i)perylene
  - Benzo(k)fluoranthene
  - Chrysene
  - Dibenz(a,h)anthracene
  - Fluoranthene
  - Indeno(1,2,3-cd)pyrene
  - Pyrene

Additional Comments:

Analyte Comments:

QC Batch: 261784

1c: Emulsions were present during the extraction of this sample. Appropriate mechanical means were employed to break up the emulsions and were successful.

- LTMW-S08-0617 (Lab ID: 30221123014)
  - 2-Methylnaphthalene
  - Acenaphthene
  - Acenaphthylene
  - Anthracene
  - Benzo(k)fluoranthene
  - Benzo(g,h,i)perylene
  - Benzo(a)anthracene
  - Benzo(b)fluoranthene
  - Benzo(a)pyrene
  - Chrysene
  - Dibenz(a,h)anthracene
  - Fluorene
  - Fluoranthene
  - Indeno(1,2,3-cd)pyrene
  - Naphthalene
  - Phenanthrene
  - Pyrene

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PROJECT NARRATIVE

Project: National Grid - Rome Kingsley
Pace Project No.: 30221123

Method: **EPA 8260C**
Description: 8260C MSV
Client: Groundwater & Environmental Services, Inc. (Syracuse)
Date: June 22, 2017

General Information:
18 samples were analyzed for EPA 8260C. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

QC Batch: 261514

S2: Surrogate recovery outside laboratory control limits due to matrix interferences (confirmed by similar results from sample re-analysis).

- LTMW-D01-0617 (Lab ID: 30221123001)
  - 1,2-Dichloroethane-d4 (S)

S3: Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated sample.

- BLANK (Lab ID: 1287905)
  - 1,2-Dichloroethane-d4 (S)
- Field Duplicate-0617 (Lab ID: 30221123017)
  - 1,2-Dichloroethane-d4 (S)
- LTMW-D02-0617 (Lab ID: 30221123003)
  - 1,2-Dichloroethane-d4 (S)
- LTMW-D04-0617 (Lab ID: 30221123007)
  - 1,2-Dichloroethane-d4 (S)
- LTMW-D05-0617 (Lab ID: 30221123009)
  - 1,2-Dichloroethane-d4 (S)
- LTMW-D06-0617 (Lab ID: 30221123011)
  - 1,2-Dichloroethane-d4 (S)
- LTMW-S01-0617 (Lab ID: 30221123002)
  - 1,2-Dichloroethane-d4 (S)
- LTMW-S03-0617 (Lab ID: 30221123006)
  - 1,2-Dichloroethane-d4 (S)
- LTMW-S04-0617 (Lab ID: 30221123008)
  - 1,2-Dichloroethane-d4 (S)
- LTMW-S05-0617 (Lab ID: 30221123010)
  - 1,2-Dichloroethane-d4 (S)

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PROJECT NARRATIVE

Project: National Grid - Rome Kingsley
Pace Project No.: 30221123

Method: **EPA 8260C**
Description: 8260C MSV
Client: Groundwater & Environmental Services, Inc. (Syracuse)
Date: June 22, 2017

QC Batch: 261514

S3: Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated sample.

- LTMW-S06-0617 (Lab ID: 30221123012)
  - 1,2-Dichloroethane-d4 (S)
- LTMW-S07-0617 (Lab ID: 30221123013)
  - 1,2-Dichloroethane-d4 (S)
- LTMW-S08-0617 (Lab ID: 30221123014)
  - 1,2-Dichloroethane-d4 (S)
- LTMW-S09-0617 (Lab ID: 30221123015)
  - 1,2-Dichloroethane-d4 (S)
- LTMW-S10-0617 (Lab ID: 30221123016)
  - 1,2-Dichloroethane-d4 (S)
- Trip Blank (Lab ID: 30221123018)
  - 1,2-Dichloroethane-d4 (S)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: National Grid - Rome Kingsley
Pace Project No.: 30221123

Method: **EPA 335.4**
Description: 335.4 Cyanide, Total
Client: Groundwater & Environmental Services, Inc. (Syracuse)
Date: June 22, 2017

General Information:
17 samples were analyzed for EPA 335.4. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 335.4 with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: National Grid - Rome Kingsley
Pace Project No.: 30221123

Sample: LTMW-D01-0617 **Lab ID: 30221123001** Collected: 06/07/17 09:30 Received: 06/09/17 10:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Arsenic	ND	ug/L	5.0	3.0	1	06/14/17 08:38	06/15/17 09:51	7440-38-2	
Lead	ND	ug/L	5.0	2.5	1	06/14/17 08:38	06/15/17 09:51	7439-92-1	
Zinc	ND	ug/L	10.0	1.0	1	06/14/17 08:38	06/15/17 09:51	7440-66-6	
8270D MSSV PAH by SIM	Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3510C								
Acenaphthene	**0.10**	ug/L	0.099	0.027	1	06/14/17 14:36	06/19/17 13:06	83-32-9	
Acenaphthylene	**0.11**	ug/L	0.099	0.033	1	06/14/17 14:36	06/19/17 13:06	208-96-8	
Anthracene	ND	ug/L	0.099	0.045	1	06/14/17 14:36	06/19/17 13:06	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.099	0.048	1	06/14/17 14:36	06/19/17 13:06	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.099	0.034	1	06/14/17 14:36	06/19/17 13:06	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.099	0.035	1	06/14/17 14:36	06/19/17 13:06	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.099	0.038	1	06/14/17 14:36	06/19/17 13:06	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.099	0.036	1	06/14/17 14:36	06/19/17 13:06	207-08-9	
Chrysene	ND	ug/L	0.099	0.035	1	06/14/17 14:36	06/19/17 13:06	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.099	0.031	1	06/14/17 14:36	06/19/17 13:06	53-70-3	
Fluoranthene	ND	ug/L	0.099	0.061	1	06/14/17 14:36	06/19/17 13:06	206-44-0	
Fluorene	ND	ug/L	0.099	0.026	1	06/14/17 14:36	06/19/17 13:06	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.099	0.034	1	06/14/17 14:36	06/19/17 13:06	193-39-5	
2-Methylnaphthalene	ND	ug/L	0.099	0.057	1	06/14/17 14:36	06/19/17 13:06	91-57-6	
Naphthalene	ND	ug/L	0.099	0.061	1	06/14/17 14:36	06/19/17 13:06	91-20-3	
Phenanthrene	ND	ug/L	0.099	0.037	1	06/14/17 14:36	06/19/17 13:06	85-01-8	
Pyrene	ND	ug/L	0.099	0.056	1	06/14/17 14:36	06/19/17 13:06	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	48	%	19-123		1	06/14/17 14:36	06/19/17 13:06	321-60-8	
Terphenyl-d14 (S)	63	%	58-130		1	06/14/17 14:36	06/19/17 13:06	1718-51-0	
8260C MSV	Analytical Method: EPA 8260C								
Benzene	**5290**	ug/L	20.0	3.6	20		06/12/17 12:07	71-43-2	
Ethylbenzene	**137**	ug/L	1.0	0.20	1		06/12/17 11:42	100-41-4	
Toluene	**1470**	ug/L	20.0	2.2	20		06/12/17 12:07	108-88-3	
Xylene (Total)	**201**	ug/L	3.0	0.77	1		06/12/17 11:42	1330-20-7	
m&p-Xylene	**138**	ug/L	2.0	0.49	1		06/12/17 11:42	179601-23-1	
o-Xylene	**62.9**	ug/L	1.0	0.28	1		06/12/17 11:42	95-47-6	
Surrogates									
Toluene-d8 (S)	95	%	84-115		1		06/12/17 11:42	2037-26-5	
4-Bromofluorobenzene (S)	105	%	81-119		1		06/12/17 11:42	460-00-4	
1,2-Dichloroethane-d4 (S)	127	%	77-126		1		06/12/17 11:42	17060-07-0	S2,ST
Dibromofluoromethane (S)	115	%	70-130		1		06/12/17 11:42	1868-53-7	
335.4 Cyanide, Total	Analytical Method: EPA 335.4 Preparation Method: EPA 335.4								
Cyanide	ND	mg/L	0.010	0.0020	1	06/14/17 14:27	06/15/17 18:44	57-12-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: National Grid - Rome Kingsley
Pace Project No.: 30221123

Sample: LTMW-S01-0617 **Lab ID: 30221123002** Collected: 06/07/17 09:30 Received: 06/09/17 10:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Arsenic	ND	ug/L	5.0	3.0	1	06/14/17 08:38	06/15/17 09:55	7440-38-2	
Lead	ND	ug/L	5.0	2.5	1	06/14/17 08:38	06/15/17 09:55	7439-92-1	
Zinc	ND	ug/L	10.0	1.0	1	06/14/17 08:38	06/15/17 09:55	7440-66-6	
8270D MSSV PAH by SIM	Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3510C								
Acenaphthene	**56.4**	ug/L	1.0	0.27	10	06/14/17 14:36	06/21/17 19:18	83-32-9	
Acenaphthylene	**2.5**	ug/L	0.10	0.034	1	06/14/17 14:36	06/19/17 13:23	208-96-8	
Anthracene	**0.28**	ug/L	0.10	0.046	1	06/14/17 14:36	06/19/17 13:23	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	0.049	1	06/14/17 14:36	06/19/17 13:23	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	0.035	1	06/14/17 14:36	06/19/17 13:23	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	0.036	1	06/14/17 14:36	06/19/17 13:23	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	0.039	1	06/14/17 14:36	06/19/17 13:23	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	0.037	1	06/14/17 14:36	06/19/17 13:23	207-08-9	
Chrysene	ND	ug/L	0.10	0.036	1	06/14/17 14:36	06/19/17 13:23	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	0.032	1	06/14/17 14:36	06/19/17 13:23	53-70-3	
Fluoranthene	**2.8**	ug/L	0.10	0.062	1	06/14/17 14:36	06/19/17 13:23	206-44-0	
Fluorene	**12.6**	ug/L	0.10	0.026	1	06/14/17 14:36	06/19/17 13:23	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	0.035	1	06/14/17 14:36	06/19/17 13:23	193-39-5	
2-Methylnaphthalene	ND	ug/L	0.10	0.058	1	06/14/17 14:36	06/19/17 13:23	91-57-6	
Naphthalene	**0.15**	ug/L	0.10	0.062	1	06/14/17 14:36	06/19/17 13:23	91-20-3	
Phenanthrene	ND	ug/L	0.10	0.037	1	06/14/17 14:36	06/19/17 13:23	85-01-8	
Pyrene	**2.7**	ug/L	0.10	0.057	1	06/14/17 14:36	06/19/17 13:23	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	50	%	19-123		1	06/14/17 14:36	06/19/17 13:23	321-60-8	
Terphenyl-d14 (S)	65	%	58-130		1	06/14/17 14:36	06/19/17 13:23	1718-51-0	
8260C MSV	Analytical Method: EPA 8260C								
Benzene	ND	ug/L	1.0	0.18	1		06/12/17 12:32	71-43-2	
Ethylbenzene	ND	ug/L	1.0	0.20	1		06/12/17 12:32	100-41-4	
Toluene	ND	ug/L	1.0	0.11	1		06/12/17 12:32	108-88-3	
Xylene (Total)	ND	ug/L	3.0	0.77	1		06/12/17 12:32	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.49	1		06/12/17 12:32	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.28	1		06/12/17 12:32	95-47-6	
Surrogates									
Toluene-d8 (S)	91	%	84-115		1		06/12/17 12:32	2037-26-5	
4-Bromofluorobenzene (S)	107	%	81-119		1		06/12/17 12:32	460-00-4	
1,2-Dichloroethane-d4 (S)	128	%	77-126		1		06/12/17 12:32	17060-07-0	S3,ST
Dibromofluoromethane (S)	117	%	70-130		1		06/12/17 12:32	1868-53-7	
335.4 Cyanide, Total	Analytical Method: EPA 335.4 Preparation Method: EPA 335.4								
Cyanide	**0.018**	mg/L	0.010	0.0020	1	06/14/17 14:27	06/15/17 18:45	57-12-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: National Grid - Rome Kingsley
Pace Project No.: 30221123

Sample: LTMW-D02-0617 **Lab ID: 30221123003** Collected: 06/07/17 11:20 Received: 06/09/17 10:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Arsenic	ND	ug/L	5.0	3.0	1	06/14/17 08:38	06/15/17 10:08	7440-38-2	
Lead	ND	ug/L	5.0	2.5	1	06/14/17 08:38	06/15/17 10:08	7439-92-1	
Zinc	ND	ug/L	10.0	1.0	1	06/14/17 08:38	06/15/17 10:08	7440-66-6	
8270D MSSV PAH by SIM	Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3510C								
Acenaphthene	ND	ug/L	0.098	0.026	1	06/14/17 14:36	06/19/17 13:41	83-32-9	
Acenaphthylene	ND	ug/L	0.098	0.033	1	06/14/17 14:36	06/19/17 13:41	208-96-8	
Anthracene	ND	ug/L	0.098	0.045	1	06/14/17 14:36	06/19/17 13:41	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.098	0.047	1	06/14/17 14:36	06/19/17 13:41	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.098	0.034	1	06/14/17 14:36	06/19/17 13:41	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.098	0.035	1	06/14/17 14:36	06/19/17 13:41	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.098	0.038	1	06/14/17 14:36	06/19/17 13:41	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.098	0.036	1	06/14/17 14:36	06/19/17 13:41	207-08-9	
Chrysene	ND	ug/L	0.098	0.035	1	06/14/17 14:36	06/19/17 13:41	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.098	0.031	1	06/14/17 14:36	06/19/17 13:41	53-70-3	
Fluoranthene	ND	ug/L	0.098	0.060	1	06/14/17 14:36	06/19/17 13:41	206-44-0	
Fluorene	ND	ug/L	0.098	0.025	1	06/14/17 14:36	06/19/17 13:41	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.098	0.034	1	06/14/17 14:36	06/19/17 13:41	193-39-5	
2-Methylnaphthalene	ND	ug/L	0.098	0.056	1	06/14/17 14:36	06/19/17 13:41	91-57-6	
Naphthalene	ND	ug/L	0.098	0.060	1	06/14/17 14:36	06/19/17 13:41	91-20-3	
Phenanthrene	ND	ug/L	0.098	0.036	1	06/14/17 14:36	06/19/17 13:41	85-01-8	
Pyrene	ND	ug/L	0.098	0.055	1	06/14/17 14:36	06/19/17 13:41	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	63	%	19-123		1	06/14/17 14:36	06/19/17 13:41	321-60-8	
Terphenyl-d14 (S)	84	%	58-130		1	06/14/17 14:36	06/19/17 13:41	1718-51-0	
8260C MSV	Analytical Method: EPA 8260C								
Benzene	ND	ug/L	1.0	0.18	1		06/12/17 12:57	71-43-2	
Ethylbenzene	ND	ug/L	1.0	0.20	1		06/12/17 12:57	100-41-4	
Toluene	ND	ug/L	1.0	0.11	1		06/12/17 12:57	108-88-3	
Xylene (Total)	ND	ug/L	3.0	0.77	1		06/12/17 12:57	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.49	1		06/12/17 12:57	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.28	1		06/12/17 12:57	95-47-6	
Surrogates									
Toluene-d8 (S)	91	%	84-115		1		06/12/17 12:57	2037-26-5	
4-Bromofluorobenzene (S)	105	%	81-119		1		06/12/17 12:57	460-00-4	
1,2-Dichloroethane-d4 (S)	130	%	77-126		1		06/12/17 12:57	17060-07-0	S3,ST
Dibromofluoromethane (S)	114	%	70-130		1		06/12/17 12:57	1868-53-7	
335.4 Cyanide, Total	Analytical Method: EPA 335.4 Preparation Method: EPA 335.4								
Cyanide	ND	mg/L	0.010	0.0020	1	06/14/17 14:27	06/15/17 18:46	57-12-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: National Grid - Rome Kingsley
Pace Project No.: 30221123

Sample: LTMW-S02-0617 **Lab ID: 30221123004** Collected: 06/07/17 10:35 Received: 06/09/17 10:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Arsenic	ND	ug/L	5.0	3.0	1	06/14/17 08:38	06/15/17 10:12	7440-38-2	
Lead	ND	ug/L	5.0	2.5	1	06/14/17 08:38	06/15/17 10:12	7439-92-1	
Zinc	ND	ug/L	10.0	1.0	1	06/14/17 08:38	06/15/17 10:12	7440-66-6	
8270D MSSV PAH by SIM	Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3510C								
Acenaphthene	ND	ug/L	0.10	0.027	1	06/14/17 14:36	06/19/17 13:58	83-32-9	
Acenaphthylene	ND	ug/L	0.10	0.033	1	06/14/17 14:36	06/19/17 13:58	208-96-8	
Anthracene	ND	ug/L	0.10	0.045	1	06/14/17 14:36	06/19/17 13:58	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	0.048	1	06/14/17 14:36	06/19/17 13:58	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	0.034	1	06/14/17 14:36	06/19/17 13:58	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	0.035	1	06/14/17 14:36	06/19/17 13:58	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	0.038	1	06/14/17 14:36	06/19/17 13:58	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	0.036	1	06/14/17 14:36	06/19/17 13:58	207-08-9	
Chrysene	ND	ug/L	0.10	0.036	1	06/14/17 14:36	06/19/17 13:58	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	0.031	1	06/14/17 14:36	06/19/17 13:58	53-70-3	
Fluoranthene	ND	ug/L	0.10	0.061	1	06/14/17 14:36	06/19/17 13:58	206-44-0	
Fluorene	ND	ug/L	0.10	0.026	1	06/14/17 14:36	06/19/17 13:58	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	0.035	1	06/14/17 14:36	06/19/17 13:58	193-39-5	
2-Methylnaphthalene	ND	ug/L	0.10	0.057	1	06/14/17 14:36	06/19/17 13:58	91-57-6	
Naphthalene	ND	ug/L	0.10	0.061	1	06/14/17 14:36	06/19/17 13:58	91-20-3	
Phenanthrene	ND	ug/L	0.10	0.037	1	06/14/17 14:36	06/19/17 13:58	85-01-8	
Pyrene	ND	ug/L	0.10	0.056	1	06/14/17 14:36	06/19/17 13:58	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	39	%	19-123		1	06/14/17 14:36	06/19/17 13:58	321-60-8	
Terphenyl-d14 (S)	49	%	58-130		1	06/14/17 14:36	06/19/17 13:58	1718-51-0	S1, SR
8260C MSV	Analytical Method: EPA 8260C								
Benzene	ND	ug/L	1.0	0.18	1		06/12/17 13:23	71-43-2	
Ethylbenzene	ND	ug/L	1.0	0.20	1		06/12/17 13:23	100-41-4	
Toluene	ND	ug/L	1.0	0.11	1		06/12/17 13:23	108-88-3	
Xylene (Total)	ND	ug/L	3.0	0.77	1		06/12/17 13:23	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.49	1		06/12/17 13:23	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.28	1		06/12/17 13:23	95-47-6	
Surrogates									
Toluene-d8 (S)	91	%	84-115		1		06/12/17 13:23	2037-26-5	
4-Bromofluorobenzene (S)	111	%	81-119		1		06/12/17 13:23	460-00-4	
1,2-Dichloroethane-d4 (S)	125	%	77-126		1		06/12/17 13:23	17060-07-0	
Dibromofluoromethane (S)	115	%	70-130		1		06/12/17 13:23	1868-53-7	
335.4 Cyanide, Total	Analytical Method: EPA 335.4 Preparation Method: EPA 335.4								
Cyanide	**0.073**	mg/L	0.010	0.0020	1	06/14/17 14:27	06/15/17 18:47	57-12-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
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ANALYTICAL RESULTS

Project: National Grid - Rome Kingsley
Pace Project No.: 30221123

Sample: LTMW-D03-0617 **Lab ID: 30221123005** Collected: 06/07/17 10:40 Received: 06/09/17 10:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Arsenic	ND	ug/L	5.0	3.0	1	06/14/17 08:38	06/15/17 10:16	7440-38-2	
Lead	ND	ug/L	5.0	2.5	1	06/14/17 08:38	06/15/17 10:16	7439-92-1	
Zinc	ND	ug/L	10.0	1.0	1	06/14/17 08:38	06/15/17 10:16	7440-66-6	
8270D MSSV PAH by SIM	Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3510C								
Acenaphthene	**3.7**	ug/L	1.0	0.28	10	06/14/17 14:36	06/21/17 19:36	83-32-9	
Acenaphthylene	**2.5**	ug/L	0.10	0.035	1	06/14/17 14:36	06/20/17 20:42	208-96-8	
Anthracene	**0.30**	ug/L	0.10	0.047	1	06/14/17 14:36	06/20/17 20:42	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	0.050	1	06/14/17 14:36	06/20/17 20:42	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	0.035	1	06/14/17 14:36	06/20/17 20:42	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	0.036	1	06/14/17 14:36	06/20/17 20:42	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	0.039	1	06/14/17 14:36	06/20/17 20:42	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	0.038	1	06/14/17 14:36	06/20/17 20:42	207-08-9	
Chrysene	ND	ug/L	0.10	0.037	1	06/14/17 14:36	06/20/17 20:42	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	0.032	1	06/14/17 14:36	06/20/17 20:42	53-70-3	
Fluoranthene	**2.9**	ug/L	0.10	0.063	1	06/14/17 14:36	06/20/17 20:42	206-44-0	
Fluorene	**13.2**	ug/L	0.10	0.027	1	06/14/17 14:36	06/20/17 20:42	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	0.036	1	06/14/17 14:36	06/20/17 20:42	193-39-5	
2-Methylnaphthalene	ND	ug/L	0.10	0.059	1	06/14/17 14:36	06/20/17 20:42	91-57-6	
Naphthalene	**0.15**	ug/L	0.10	0.063	1	06/14/17 14:36	06/20/17 20:42	91-20-3	
Phenanthrene	**0.11**	ug/L	0.10	0.038	1	06/14/17 14:36	06/20/17 20:42	85-01-8	
Pyrene	**2.8**	ug/L	0.10	0.058	1	06/14/17 14:36	06/20/17 20:42	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	51	%	19-123		1	06/14/17 14:36	06/20/17 20:42	321-60-8	
Terphenyl-d14 (S)	65	%	58-130		1	06/14/17 14:36	06/20/17 20:42	1718-51-0	
8260C MSV	Analytical Method: EPA 8260C								
Benzene	**8.5**	ug/L	1.0	0.18	1		06/12/17 13:48	71-43-2	
Ethylbenzene	**44.0**	ug/L	1.0	0.20	1		06/12/17 13:48	100-41-4	
Toluene	**1.9**	ug/L	1.0	0.11	1		06/12/17 13:48	108-88-3	
Xylene (Total)	**5.6**	ug/L	3.0	0.77	1		06/12/17 13:48	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.49	1		06/12/17 13:48	179601-23-1	
o-Xylene	**4.6**	ug/L	1.0	0.28	1		06/12/17 13:48	95-47-6	
Surrogates									
Toluene-d8 (S)	92	%	84-115		1		06/12/17 13:48	2037-26-5	
4-Bromofluorobenzene (S)	111	%	81-119		1		06/12/17 13:48	460-00-4	
1,2-Dichloroethane-d4 (S)	132	%	77-126		1		06/12/17 13:48	17060-07-0	ST
Dibromofluoromethane (S)	116	%	70-130		1		06/12/17 13:48	1868-53-7	
335.4 Cyanide, Total	Analytical Method: EPA 335.4 Preparation Method: EPA 335.4								
Cyanide	**0.076**	mg/L	0.010	0.0020	1	06/14/17 14:27	06/15/17 18:50	57-12-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
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(724)850-5600

ANALYTICAL RESULTS

Project: National Grid - Rome Kingsley
Pace Project No.: 30221123

Sample: LTMW-S03-0617 **Lab ID: 30221123006** Collected: 06/07/17 11:40 Received: 06/09/17 10:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Arsenic	ND	ug/L	5.0	3.0	1	06/14/17 08:38	06/15/17 10:20	7440-38-2	
Lead	ND	ug/L	5.0	2.5	1	06/14/17 08:38	06/15/17 10:20	7439-92-1	
Zinc	**4250**	ug/L	10.0	1.0	1	06/14/17 08:38	06/15/17 10:20	7440-66-6	
8270D MSSV PAH by SIM	Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3510C								
Acenaphthene	ND	ug/L	0.099	0.027	1	06/14/17 14:36	06/19/17 14:33	83-32-9	
Acenaphthylene	ND	ug/L	0.099	0.033	1	06/14/17 14:36	06/19/17 14:33	208-96-8	
Anthracene	ND	ug/L	0.099	0.045	1	06/14/17 14:36	06/19/17 14:33	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.099	0.048	1	06/14/17 14:36	06/19/17 14:33	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.099	0.034	1	06/14/17 14:36	06/19/17 14:33	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.099	0.035	1	06/14/17 14:36	06/19/17 14:33	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.099	0.038	1	06/14/17 14:36	06/19/17 14:33	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.099	0.036	1	06/14/17 14:36	06/19/17 14:33	207-08-9	
Chrysene	ND	ug/L	0.099	0.035	1	06/14/17 14:36	06/19/17 14:33	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.099	0.031	1	06/14/17 14:36	06/19/17 14:33	53-70-3	
Fluoranthene	ND	ug/L	0.099	0.061	1	06/14/17 14:36	06/19/17 14:33	206-44-0	
Fluorene	ND	ug/L	0.099	0.026	1	06/14/17 14:36	06/19/17 14:33	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.099	0.034	1	06/14/17 14:36	06/19/17 14:33	193-39-5	
2-Methylnaphthalene	ND	ug/L	0.099	0.057	1	06/14/17 14:36	06/19/17 14:33	91-57-6	
Naphthalene	ND	ug/L	0.099	0.061	1	06/14/17 14:36	06/19/17 14:33	91-20-3	
Phenanthrene	ND	ug/L	0.099	0.037	1	06/14/17 14:36	06/19/17 14:33	85-01-8	
Pyrene	ND	ug/L	0.099	0.056	1	06/14/17 14:36	06/19/17 14:33	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	44	%	19-123		1	06/14/17 14:36	06/19/17 14:33	321-60-8	
Terphenyl-d14 (S)	59	%	58-130		1	06/14/17 14:36	06/19/17 14:33	1718-51-0	
8260C MSV	Analytical Method: EPA 8260C								
Benzene	ND	ug/L	1.0	0.18	1		06/12/17 14:13	71-43-2	
Ethylbenzene	ND	ug/L	1.0	0.20	1		06/12/17 14:13	100-41-4	
Toluene	ND	ug/L	1.0	0.11	1		06/12/17 14:13	108-88-3	
Xylene (Total)	ND	ug/L	3.0	0.77	1		06/12/17 14:13	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.49	1		06/12/17 14:13	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.28	1		06/12/17 14:13	95-47-6	
Surrogates									
Toluene-d8 (S)	90	%	84-115		1		06/12/17 14:13	2037-26-5	
4-Bromofluorobenzene (S)	105	%	81-119		1		06/12/17 14:13	460-00-4	
1,2-Dichloroethane-d4 (S)	130	%	77-126		1		06/12/17 14:13	17060-07-0	S3,ST
Dibromofluoromethane (S)	117	%	70-130		1		06/12/17 14:13	1868-53-7	
335.4 Cyanide, Total	Analytical Method: EPA 335.4 Preparation Method: EPA 335.4								
Cyanide	ND	mg/L	0.010	0.0020	1	06/14/17 14:27	06/15/17 18:51	57-12-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
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ANALYTICAL RESULTS

Project: National Grid - Rome Kingsley
Pace Project No.: 30221123

Sample: LTMW-D04-0617 **Lab ID: 30221123007** Collected: 06/07/17 12:20 Received: 06/09/17 10:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Arsenic	**35.3**	ug/L	5.0	3.0	1	06/14/17 08:38	06/15/17 10:23	7440-38-2	
Lead	ND	ug/L	5.0	2.5	1	06/14/17 08:38	06/15/17 10:23	7439-92-1	
Zinc	ND	ug/L	10.0	1.0	1	06/14/17 08:38	06/15/17 10:23	7440-66-6	
8270D MSSV PAH by SIM	Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3510C								
Acenaphthene	ND	ug/L	0.099	0.027	1	06/14/17 14:36	06/19/17 14:51	83-32-9	
Acenaphthylene	ND	ug/L	0.099	0.033	1	06/14/17 14:36	06/19/17 14:51	208-96-8	
Anthracene	ND	ug/L	0.099	0.045	1	06/14/17 14:36	06/19/17 14:51	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.099	0.048	1	06/14/17 14:36	06/19/17 14:51	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.099	0.034	1	06/14/17 14:36	06/19/17 14:51	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.099	0.035	1	06/14/17 14:36	06/19/17 14:51	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.099	0.038	1	06/14/17 14:36	06/19/17 14:51	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.099	0.036	1	06/14/17 14:36	06/19/17 14:51	207-08-9	
Chrysene	ND	ug/L	0.099	0.035	1	06/14/17 14:36	06/19/17 14:51	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.099	0.031	1	06/14/17 14:36	06/19/17 14:51	53-70-3	
Fluoranthene	ND	ug/L	0.099	0.060	1	06/14/17 14:36	06/19/17 14:51	206-44-0	
Fluorene	ND	ug/L	0.099	0.026	1	06/14/17 14:36	06/19/17 14:51	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.099	0.034	1	06/14/17 14:36	06/19/17 14:51	193-39-5	
2-Methylnaphthalene	ND	ug/L	0.099	0.057	1	06/14/17 14:36	06/19/17 14:51	91-57-6	
Naphthalene	ND	ug/L	0.099	0.060	1	06/14/17 14:36	06/19/17 14:51	91-20-3	
Phenanthrene	ND	ug/L	0.099	0.037	1	06/14/17 14:36	06/19/17 14:51	85-01-8	
Pyrene	ND	ug/L	0.099	0.056	1	06/14/17 14:36	06/19/17 14:51	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	41	%	19-123		1	06/14/17 14:36	06/19/17 14:51	321-60-8	
Terphenyl-d14 (S)	73	%	58-130		1	06/14/17 14:36	06/19/17 14:51	1718-51-0	
8260C MSV	Analytical Method: EPA 8260C								
Benzene	ND	ug/L	1.0	0.18	1		06/12/17 14:39	71-43-2	
Ethylbenzene	ND	ug/L	1.0	0.20	1		06/12/17 14:39	100-41-4	
Toluene	ND	ug/L	1.0	0.11	1		06/12/17 14:39	108-88-3	
Xylene (Total)	ND	ug/L	3.0	0.77	1		06/12/17 14:39	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.49	1		06/12/17 14:39	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.28	1		06/12/17 14:39	95-47-6	
Surrogates									
Toluene-d8 (S)	91	%	84-115		1		06/12/17 14:39	2037-26-5	
4-Bromofluorobenzene (S)	108	%	81-119		1		06/12/17 14:39	460-00-4	
1,2-Dichloroethane-d4 (S)	130	%	77-126		1		06/12/17 14:39	17060-07-0	S3,ST
Dibromofluoromethane (S)	112	%	70-130		1		06/12/17 14:39	1868-53-7	
335.4 Cyanide, Total	Analytical Method: EPA 335.4 Preparation Method: EPA 335.4								
Cyanide	ND	mg/L	0.010	0.0020	1	06/14/17 14:27	06/15/17 18:51	57-12-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: National Grid - Rome Kingsley
Pace Project No.: 30221123

Sample: LTMW-S04-0617 **Lab ID: 30221123008** Collected: 06/07/17 13:10 Received: 06/09/17 10:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Arsenic	ND	ug/L	5.0	3.0	1	06/14/17 08:38	06/15/17 10:27	7440-38-2	
Lead	ND	ug/L	5.0	2.5	1	06/14/17 08:38	06/15/17 10:27	7439-92-1	
Zinc	**108**	ug/L	10.0	1.0	1	06/14/17 08:38	06/15/17 10:27	7440-66-6	
8270D MSSV PAH by SIM	Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3510C								
Acenaphthene	ND	ug/L	0.10	0.027	1	06/14/17 14:36	06/19/17 17:29	83-32-9	
Acenaphthylene	ND	ug/L	0.10	0.034	1	06/14/17 14:36	06/19/17 17:29	208-96-8	
Anthracene	ND	ug/L	0.10	0.046	1	06/14/17 14:36	06/19/17 17:29	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	0.049	1	06/14/17 14:36	06/19/17 17:29	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	0.035	1	06/14/17 14:36	06/19/17 17:29	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	0.036	1	06/14/17 14:36	06/19/17 17:29	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	0.039	1	06/14/17 14:36	06/19/17 17:29	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	0.037	1	06/14/17 14:36	06/19/17 17:29	207-08-9	
Chrysene	ND	ug/L	0.10	0.036	1	06/14/17 14:36	06/19/17 17:29	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	0.032	1	06/14/17 14:36	06/19/17 17:29	53-70-3	
Fluoranthene	ND	ug/L	0.10	0.062	1	06/14/17 14:36	06/19/17 17:29	206-44-0	
Fluorene	ND	ug/L	0.10	0.026	1	06/14/17 14:36	06/19/17 17:29	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	0.035	1	06/14/17 14:36	06/19/17 17:29	193-39-5	
2-Methylnaphthalene	ND	ug/L	0.10	0.058	1	06/14/17 14:36	06/19/17 17:29	91-57-6	
Naphthalene	ND	ug/L	0.10	0.062	1	06/14/17 14:36	06/19/17 17:29	91-20-3	
Phenanthrene	ND	ug/L	0.10	0.037	1	06/14/17 14:36	06/19/17 17:29	85-01-8	
Pyrene	ND	ug/L	0.10	0.057	1	06/14/17 14:36	06/19/17 17:29	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	35	%	19-123		1	06/14/17 14:36	06/19/17 17:29	321-60-8	
Terphenyl-d14 (S)	61	%	58-130		1	06/14/17 14:36	06/19/17 17:29	1718-51-0	
8260C MSV	Analytical Method: EPA 8260C								
Benzene	ND	ug/L	1.0	0.18	1		06/12/17 15:04	71-43-2	
Ethylbenzene	ND	ug/L	1.0	0.20	1		06/12/17 15:04	100-41-4	
Toluene	ND	ug/L	1.0	0.11	1		06/12/17 15:04	108-88-3	
Xylene (Total)	ND	ug/L	3.0	0.77	1		06/12/17 15:04	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.49	1		06/12/17 15:04	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.28	1		06/12/17 15:04	95-47-6	
Surrogates									
Toluene-d8 (S)	90	%	84-115		1		06/12/17 15:04	2037-26-5	
4-Bromofluorobenzene (S)	107	%	81-119		1		06/12/17 15:04	460-00-4	
1,2-Dichloroethane-d4 (S)	129	%	77-126		1		06/12/17 15:04	17060-07-0	S3,ST
Dibromofluoromethane (S)	116	%	70-130		1		06/12/17 15:04	1868-53-7	
335.4 Cyanide, Total	Analytical Method: EPA 335.4 Preparation Method: EPA 335.4								
Cyanide	**1.2**	mg/L	0.10	0.020	10	06/14/17 14:27	06/15/17 19:26	57-12-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: National Grid - Rome Kingsley
Pace Project No.: 30221123

Sample: LTMW-D05-0617 **Lab ID: 30221123009** Collected: 06/07/17 12:15 Received: 06/09/17 10:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Arsenic	ND	ug/L	5.0	3.0	1	06/14/17 08:38	06/15/17 10:31	7440-38-2	
Lead	ND	ug/L	5.0	2.5	1	06/14/17 08:38	06/15/17 10:31	7439-92-1	
Zinc	ND	ug/L	10.0	1.0	1	06/14/17 08:38	06/15/17 10:31	7440-66-6	
8270D MSSV PAH by SIM	Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3510C								
Acenaphthene	ND	ug/L	0.098	0.026	1	06/14/17 14:36	06/19/17 17:46	83-32-9	
Acenaphthylene	ND	ug/L	0.098	0.033	1	06/14/17 14:36	06/19/17 17:46	208-96-8	
Anthracene	ND	ug/L	0.098	0.045	1	06/14/17 14:36	06/19/17 17:46	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.098	0.047	1	06/14/17 14:36	06/19/17 17:46	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.098	0.034	1	06/14/17 14:36	06/19/17 17:46	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.098	0.035	1	06/14/17 14:36	06/19/17 17:46	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.098	0.038	1	06/14/17 14:36	06/19/17 17:46	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.098	0.036	1	06/14/17 14:36	06/19/17 17:46	207-08-9	
Chrysene	ND	ug/L	0.098	0.035	1	06/14/17 14:36	06/19/17 17:46	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.098	0.031	1	06/14/17 14:36	06/19/17 17:46	53-70-3	
Fluoranthene	ND	ug/L	0.098	0.060	1	06/14/17 14:36	06/19/17 17:46	206-44-0	
Fluorene	ND	ug/L	0.098	0.025	1	06/14/17 14:36	06/19/17 17:46	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.098	0.034	1	06/14/17 14:36	06/19/17 17:46	193-39-5	
2-Methylnaphthalene	ND	ug/L	0.098	0.056	1	06/14/17 14:36	06/19/17 17:46	91-57-6	
Naphthalene	ND	ug/L	0.098	0.060	1	06/14/17 14:36	06/19/17 17:46	91-20-3	
Phenanthrene	ND	ug/L	0.098	0.036	1	06/14/17 14:36	06/19/17 17:46	85-01-8	
Pyrene	ND	ug/L	0.098	0.055	1	06/14/17 14:36	06/19/17 17:46	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	33	%	19-123		1	06/14/17 14:36	06/19/17 17:46	321-60-8	
Terphenyl-d14 (S)	56	%	58-130		1	06/14/17 14:36	06/19/17 17:46	1718-51-0	S1,SR
8260C MSV	Analytical Method: EPA 8260C								
Benzene	ND	ug/L	1.0	0.18	1		06/12/17 15:30	71-43-2	
Ethylbenzene	ND	ug/L	1.0	0.20	1		06/12/17 15:30	100-41-4	
Toluene	ND	ug/L	1.0	0.11	1		06/12/17 15:30	108-88-3	
Xylene (Total)	ND	ug/L	3.0	0.77	1		06/12/17 15:30	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.49	1		06/12/17 15:30	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.28	1		06/12/17 15:30	95-47-6	
Surrogates									
Toluene-d8 (S)	91	%	84-115		1		06/12/17 15:30	2037-26-5	
4-Bromofluorobenzene (S)	112	%	81-119		1		06/12/17 15:30	460-00-4	
1,2-Dichloroethane-d4 (S)	134	%	77-126		1		06/12/17 15:30	17060-07-0	S3,ST
Dibromofluoromethane (S)	119	%	70-130		1		06/12/17 15:30	1868-53-7	
335.4 Cyanide, Total	Analytical Method: EPA 335.4 Preparation Method: EPA 335.4								
Cyanide	ND	mg/L	0.010	0.0020	1	06/14/17 14:27	06/15/17 18:53	57-12-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
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ANALYTICAL RESULTS

Project: National Grid - Rome Kingsley
Pace Project No.: 30221123

Sample: LTMW-S05-0617 **Lab ID: 30221123010** Collected: 06/07/17 13:05 Received: 06/09/17 10:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Arsenic	ND	ug/L	5.0	3.0	1	06/14/17 08:38	06/15/17 10:34	7440-38-2	
Lead	ND	ug/L	5.0	2.5	1	06/14/17 08:38	06/15/17 10:34	7439-92-1	
Zinc	ND	ug/L	10.0	1.0	1	06/14/17 08:38	06/15/17 10:34	7440-66-6	
8270D MSSV PAH by SIM	Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3510C								
Acenaphthene	ND	ug/L	0.099	0.027	1	06/14/17 14:36	06/20/17 21:17	83-32-9	
Acenaphthylene	ND	ug/L	0.099	0.033	1	06/14/17 14:36	06/20/17 21:17	208-96-8	
Anthracene	ND	ug/L	0.099	0.045	1	06/14/17 14:36	06/20/17 21:17	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.099	0.048	1	06/14/17 14:36	06/20/17 21:17	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.099	0.034	1	06/14/17 14:36	06/20/17 21:17	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.099	0.035	1	06/14/17 14:36	06/20/17 21:17	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.099	0.038	1	06/14/17 14:36	06/20/17 21:17	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.099	0.036	1	06/14/17 14:36	06/20/17 21:17	207-08-9	
Chrysene	ND	ug/L	0.099	0.035	1	06/14/17 14:36	06/20/17 21:17	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.099	0.031	1	06/14/17 14:36	06/20/17 21:17	53-70-3	
Fluoranthene	ND	ug/L	0.099	0.061	1	06/14/17 14:36	06/20/17 21:17	206-44-0	
Fluorene	ND	ug/L	0.099	0.026	1	06/14/17 14:36	06/20/17 21:17	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.099	0.034	1	06/14/17 14:36	06/20/17 21:17	193-39-5	
2-Methylnaphthalene	ND	ug/L	0.099	0.057	1	06/14/17 14:36	06/20/17 21:17	91-57-6	
Naphthalene	ND	ug/L	0.099	0.061	1	06/14/17 14:36	06/20/17 21:17	91-20-3	
Phenanthrene	ND	ug/L	0.099	0.037	1	06/14/17 14:36	06/20/17 21:17	85-01-8	
Pyrene	ND	ug/L	0.099	0.056	1	06/14/17 14:36	06/20/17 21:17	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	31	%	19-123		1	06/14/17 14:36	06/20/17 21:17	321-60-8	
Terphenyl-d14 (S)	58	%	58-130		1	06/14/17 14:36	06/20/17 21:17	1718-51-0	
8260C MSV	Analytical Method: EPA 8260C								
Benzene	ND	ug/L	1.0	0.18	1		06/12/17 15:55	71-43-2	
Ethylbenzene	ND	ug/L	1.0	0.20	1		06/12/17 15:55	100-41-4	
Toluene	ND	ug/L	1.0	0.11	1		06/12/17 15:55	108-88-3	
Xylene (Total)	ND	ug/L	3.0	0.77	1		06/12/17 15:55	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.49	1		06/12/17 15:55	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.28	1		06/12/17 15:55	95-47-6	
Surrogates									
Toluene-d8 (S)	91	%	84-115		1		06/12/17 15:55	2037-26-5	
4-Bromofluorobenzene (S)	109	%	81-119		1		06/12/17 15:55	460-00-4	
1,2-Dichloroethane-d4 (S)	136	%	77-126		1		06/12/17 15:55	17060-07-0	S3,ST
Dibromofluoromethane (S)	119	%	70-130		1		06/12/17 15:55	1868-53-7	
335.4 Cyanide, Total	Analytical Method: EPA 335.4 Preparation Method: EPA 335.4								
Cyanide	**0.57**	mg/L	0.10	0.020	10	06/14/17 14:27	06/15/17 19:27	57-12-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
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ANALYTICAL RESULTS

Project: National Grid - Rome Kingsley
Pace Project No.: 30221123

Sample: LTMW-D06-0617 **Lab ID: 30221123011** Collected: 06/07/17 14:15 Received: 06/09/17 10:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Arsenic	**8.1**	ug/L	5.0	3.0	1	06/14/17 08:38	06/15/17 10:55	7440-38-2	
Lead	ND	ug/L	5.0	2.5	1	06/14/17 08:38	06/15/17 10:55	7439-92-1	
Zinc	ND	ug/L	10.0	1.0	1	06/14/17 08:38	06/15/17 10:55	7440-66-6	
8270D MSSV PAH by SIM	Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3510C								
Acenaphthene	ND	ug/L	0.098	0.026	1	06/14/17 14:36	06/19/17 16:01	83-32-9	
Acenaphthylene	ND	ug/L	0.098	0.033	1	06/14/17 14:36	06/19/17 16:01	208-96-8	
Anthracene	ND	ug/L	0.098	0.045	1	06/14/17 14:36	06/19/17 16:01	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.098	0.047	1	06/14/17 14:36	06/19/17 16:01	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.098	0.034	1	06/14/17 14:36	06/19/17 16:01	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.098	0.035	1	06/14/17 14:36	06/19/17 16:01	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.098	0.038	1	06/14/17 14:36	06/19/17 16:01	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.098	0.036	1	06/14/17 14:36	06/19/17 16:01	207-08-9	
Chrysene	ND	ug/L	0.098	0.035	1	06/14/17 14:36	06/19/17 16:01	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.098	0.031	1	06/14/17 14:36	06/19/17 16:01	53-70-3	
Fluoranthene	ND	ug/L	0.098	0.060	1	06/14/17 14:36	06/19/17 16:01	206-44-0	
Fluorene	ND	ug/L	0.098	0.025	1	06/14/17 14:36	06/19/17 16:01	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.098	0.034	1	06/14/17 14:36	06/19/17 16:01	193-39-5	
2-Methylnaphthalene	ND	ug/L	0.098	0.056	1	06/14/17 14:36	06/19/17 16:01	91-57-6	
Naphthalene	ND	ug/L	0.098	0.060	1	06/14/17 14:36	06/19/17 16:01	91-20-3	
Phenanthrene	ND	ug/L	0.098	0.036	1	06/14/17 14:36	06/19/17 16:01	85-01-8	
Pyrene	ND	ug/L	0.098	0.055	1	06/14/17 14:36	06/19/17 16:01	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	27	%	19-123		1	06/14/17 14:36	06/19/17 16:01	321-60-8	
Terphenyl-d14 (S)	60	%	58-130		1	06/14/17 14:36	06/19/17 16:01	1718-51-0	
8260C MSV	Analytical Method: EPA 8260C								
Benzene	ND	ug/L	1.0	0.18	1		06/12/17 16:21	71-43-2	
Ethylbenzene	ND	ug/L	1.0	0.20	1		06/12/17 16:21	100-41-4	
Toluene	ND	ug/L	1.0	0.11	1		06/12/17 16:21	108-88-3	
Xylene (Total)	ND	ug/L	3.0	0.77	1		06/12/17 16:21	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.49	1		06/12/17 16:21	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.28	1		06/12/17 16:21	95-47-6	
Surrogates									
Toluene-d8 (S)	89	%	84-115		1		06/12/17 16:21	2037-26-5	
4-Bromofluorobenzene (S)	108	%	81-119		1		06/12/17 16:21	460-00-4	
1,2-Dichloroethane-d4 (S)	133	%	77-126		1		06/12/17 16:21	17060-07-0	S3,ST
Dibromofluoromethane (S)	119	%	70-130		1		06/12/17 16:21	1868-53-7	
335.4 Cyanide, Total	Analytical Method: EPA 335.4 Preparation Method: EPA 335.4								
Cyanide	ND	mg/L	0.010	0.0020	1	06/14/17 14:27	06/15/17 18:55	57-12-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
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ANALYTICAL RESULTS

Project: National Grid - Rome Kingsley
Pace Project No.: 30221123

Sample: LTMW-S06-0617 **Lab ID: 30221123012** Collected: 06/07/17 15:05 Received: 06/09/17 10:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Arsenic	ND	ug/L	5.0	3.0	1	06/14/17 08:38	06/15/17 10:59	7440-38-2	
Lead	ND	ug/L	5.0	2.5	1	06/14/17 08:38	06/15/17 10:59	7439-92-1	
Zinc	ND	ug/L	10.0	1.0	1	06/14/17 08:38	06/15/17 10:59	7440-66-6	
8270D MSSV PAH by SIM	Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3510C								
Acenaphthene	ND	ug/L	0.098	0.026	1	06/14/17 14:36	06/19/17 16:19	83-32-9	
Acenaphthylene	ND	ug/L	0.098	0.033	1	06/14/17 14:36	06/19/17 16:19	208-96-8	
Anthracene	ND	ug/L	0.098	0.045	1	06/14/17 14:36	06/19/17 16:19	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.098	0.047	1	06/14/17 14:36	06/19/17 16:19	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.098	0.034	1	06/14/17 14:36	06/19/17 16:19	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.098	0.035	1	06/14/17 14:36	06/19/17 16:19	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.098	0.038	1	06/14/17 14:36	06/19/17 16:19	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.098	0.036	1	06/14/17 14:36	06/19/17 16:19	207-08-9	
Chrysene	ND	ug/L	0.098	0.035	1	06/14/17 14:36	06/19/17 16:19	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.098	0.031	1	06/14/17 14:36	06/19/17 16:19	53-70-3	
Fluoranthene	ND	ug/L	0.098	0.060	1	06/14/17 14:36	06/19/17 16:19	206-44-0	
Fluorene	ND	ug/L	0.098	0.025	1	06/14/17 14:36	06/19/17 16:19	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.098	0.034	1	06/14/17 14:36	06/19/17 16:19	193-39-5	
2-Methylnaphthalene	ND	ug/L	0.098	0.056	1	06/14/17 14:36	06/19/17 16:19	91-57-6	
Naphthalene	ND	ug/L	0.098	0.060	1	06/14/17 14:36	06/19/17 16:19	91-20-3	
Phenanthrene	ND	ug/L	0.098	0.036	1	06/14/17 14:36	06/19/17 16:19	85-01-8	
Pyrene	ND	ug/L	0.098	0.055	1	06/14/17 14:36	06/19/17 16:19	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	38	%	19-123		1	06/14/17 14:36	06/19/17 16:19	321-60-8	
Terphenyl-d14 (S)	61	%	58-130		1	06/14/17 14:36	06/19/17 16:19	1718-51-0	
8260C MSV	Analytical Method: EPA 8260C								
Benzene	ND	ug/L	1.0	0.18	1		06/12/17 16:46	71-43-2	
Ethylbenzene	ND	ug/L	1.0	0.20	1		06/12/17 16:46	100-41-4	
Toluene	ND	ug/L	1.0	0.11	1		06/12/17 16:46	108-88-3	
Xylene (Total)	ND	ug/L	3.0	0.77	1		06/12/17 16:46	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.49	1		06/12/17 16:46	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.28	1		06/12/17 16:46	95-47-6	
Surrogates									
Toluene-d8 (S)	90	%	84-115		1		06/12/17 16:46	2037-26-5	
4-Bromofluorobenzene (S)	107	%	81-119		1		06/12/17 16:46	460-00-4	
1,2-Dichloroethane-d4 (S)	140	%	77-126		1		06/12/17 16:46	17060-07-0	S3,ST
Dibromofluoromethane (S)	123	%	70-130		1		06/12/17 16:46	1868-53-7	
335.4 Cyanide, Total	Analytical Method: EPA 335.4 Preparation Method: EPA 335.4								
Cyanide	**0.079**	mg/L	0.010	0.0020	1	06/14/17 14:27	06/15/17 18:56	57-12-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: National Grid - Rome Kingsley
Pace Project No.: 30221123

Sample: LTMW-S07-0617 **Lab ID: 30221123013** Collected: 06/07/17 14:05 Received: 06/09/17 10:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Arsenic	ND	ug/L	5.0	3.0	1	06/14/17 08:38	06/15/17 11:02	7440-38-2	
Lead	ND	ug/L	5.0	2.5	1	06/14/17 08:38	06/15/17 11:02	7439-92-1	
Zinc	ND	ug/L	10.0	1.0	1	06/14/17 08:38	06/15/17 11:02	7440-66-6	
8270D MSSV PAH by SIM	Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3510C								
Acenaphthene	ND	ug/L	0.10	0.027	1	06/14/17 14:36	06/19/17 16:36	83-32-9	
Acenaphthylene	ND	ug/L	0.10	0.034	1	06/14/17 14:36	06/19/17 16:36	208-96-8	
Anthracene	ND	ug/L	0.10	0.046	1	06/14/17 14:36	06/19/17 16:36	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	0.048	1	06/14/17 14:36	06/19/17 16:36	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	0.034	1	06/14/17 14:36	06/19/17 16:36	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	0.035	1	06/14/17 14:36	06/19/17 16:36	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	0.038	1	06/14/17 14:36	06/19/17 16:36	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	0.036	1	06/14/17 14:36	06/19/17 16:36	207-08-9	
Chrysene	ND	ug/L	0.10	0.036	1	06/14/17 14:36	06/19/17 16:36	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	0.031	1	06/14/17 14:36	06/19/17 16:36	53-70-3	
Fluoranthene	ND	ug/L	0.10	0.061	1	06/14/17 14:36	06/19/17 16:36	206-44-0	
Fluorene	ND	ug/L	0.10	0.026	1	06/14/17 14:36	06/19/17 16:36	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	0.035	1	06/14/17 14:36	06/19/17 16:36	193-39-5	
2-Methylnaphthalene	ND	ug/L	0.10	0.057	1	06/14/17 14:36	06/19/17 16:36	91-57-6	
Naphthalene	ND	ug/L	0.10	0.061	1	06/14/17 14:36	06/19/17 16:36	91-20-3	
Phenanthrene	ND	ug/L	0.10	0.037	1	06/14/17 14:36	06/19/17 16:36	85-01-8	
Pyrene	ND	ug/L	0.10	0.056	1	06/14/17 14:36	06/19/17 16:36	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	38	%	19-123		1	06/14/17 14:36	06/19/17 16:36	321-60-8	
Terphenyl-d14 (S)	46	%	58-130		1	06/14/17 14:36	06/19/17 16:36	1718-51-0	S1,SR
8260C MSV	Analytical Method: EPA 8260C								
Benzene	ND	ug/L	1.0	0.18	1		06/12/17 17:11	71-43-2	
Ethylbenzene	ND	ug/L	1.0	0.20	1		06/12/17 17:11	100-41-4	
Toluene	ND	ug/L	1.0	0.11	1		06/12/17 17:11	108-88-3	
Xylene (Total)	ND	ug/L	3.0	0.77	1		06/12/17 17:11	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.49	1		06/12/17 17:11	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.28	1		06/12/17 17:11	95-47-6	
Surrogates									
Toluene-d8 (S)	88	%	84-115		1		06/12/17 17:11	2037-26-5	
4-Bromofluorobenzene (S)	106	%	81-119		1		06/12/17 17:11	460-00-4	
1,2-Dichloroethane-d4 (S)	139	%	77-126		1		06/12/17 17:11	17060-07-0	S3,ST
Dibromofluoromethane (S)	120	%	70-130		1		06/12/17 17:11	1868-53-7	
335.4 Cyanide, Total	Analytical Method: EPA 335.4 Preparation Method: EPA 335.4								
Cyanide	ND	mg/L	0.010	0.0020	1	06/14/17 14:27	06/15/17 18:57	57-12-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: National Grid - Rome Kingsley
Pace Project No.: 30221123

Sample: LTMW-S08-0617 **Lab ID: 30221123014** Collected: 06/07/17 15:00 Received: 06/09/17 10:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Arsenic	ND	ug/L	5.0	3.0	1	06/14/17 08:38	06/15/17 11:06	7440-38-2	
Lead	ND	ug/L	5.0	2.5	1	06/14/17 08:38	06/15/17 11:06	7439-92-1	
Zinc	ND	ug/L	10.0	1.0	1	06/14/17 08:38	06/15/17 11:06	7440-66-6	
8270D MSSV PAH by SIM	Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3510C								
Acenaphthene	ND	ug/L	0.10	0.028	1	06/14/17 14:36	06/19/17 16:54	83-32-9	1c
Acenaphthylene	ND	ug/L	0.10	0.035	1	06/14/17 14:36	06/19/17 16:54	208-96-8	1c
Anthracene	ND	ug/L	0.10	0.048	1	06/14/17 14:36	06/19/17 16:54	120-12-7	1c
Benzo(a)anthracene	ND	ug/L	0.10	0.051	1	06/14/17 14:36	06/19/17 16:54	56-55-3	1c
Benzo(a)pyrene	ND	ug/L	0.10	0.036	1	06/14/17 14:36	06/19/17 16:54	50-32-8	1c
Benzo(b)fluoranthene	ND	ug/L	0.10	0.037	1	06/14/17 14:36	06/19/17 16:54	205-99-2	1c
Benzo(g,h,i)perylene	ND	ug/L	0.10	0.040	1	06/14/17 14:36	06/19/17 16:54	191-24-2	1c
Benzo(k)fluoranthene	ND	ug/L	0.10	0.038	1	06/14/17 14:36	06/19/17 16:54	207-08-9	1c
Chrysene	ND	ug/L	0.10	0.037	1	06/14/17 14:36	06/19/17 16:54	218-01-9	1c
Dibenz(a,h)anthracene	ND	ug/L	0.10	0.033	1	06/14/17 14:36	06/19/17 16:54	53-70-3	1c
Fluoranthene	ND	ug/L	0.10	0.064	1	06/14/17 14:36	06/19/17 16:54	206-44-0	1c
Fluorene	ND	ug/L	0.10	0.027	1	06/14/17 14:36	06/19/17 16:54	86-73-7	1c
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	0.036	1	06/14/17 14:36	06/19/17 16:54	193-39-5	1c
2-Methylnaphthalene	ND	ug/L	0.10	0.060	1	06/14/17 14:36	06/19/17 16:54	91-57-6	1c
Naphthalene	ND	ug/L	0.10	0.064	1	06/14/17 14:36	06/19/17 16:54	91-20-3	1c
Phenanthrene	ND	ug/L	0.10	0.039	1	06/14/17 14:36	06/19/17 16:54	85-01-8	1c
Pyrene	ND	ug/L	0.10	0.059	1	06/14/17 14:36	06/19/17 16:54	129-00-0	1c
Surrogates									
2-Fluorobiphenyl (S)	58	%	19-123		1	06/14/17 14:36	06/19/17 16:54	321-60-8	
Terphenyl-d14 (S)	85	%	58-130		1	06/14/17 14:36	06/19/17 16:54	1718-51-0	
8260C MSV	Analytical Method: EPA 8260C								
Benzene	ND	ug/L	1.0	0.18	1		06/12/17 17:37	71-43-2	
Ethylbenzene	ND	ug/L	1.0	0.20	1		06/12/17 17:37	100-41-4	
Toluene	ND	ug/L	1.0	0.11	1		06/12/17 17:37	108-88-3	
Xylene (Total)	ND	ug/L	3.0	0.77	1		06/12/17 17:37	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.49	1		06/12/17 17:37	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.28	1		06/12/17 17:37	95-47-6	
Surrogates									
Toluene-d8 (S)	88	%	84-115		1		06/12/17 17:37	2037-26-5	
4-Bromofluorobenzene (S)	107	%	81-119		1		06/12/17 17:37	460-00-4	
1,2-Dichloroethane-d4 (S)	137	%	77-126		1		06/12/17 17:37	17060-07-0	S3,ST
Dibromofluoromethane (S)	116	%	70-130		1		06/12/17 17:37	1868-53-7	
335.4 Cyanide, Total	Analytical Method: EPA 335.4 Preparation Method: EPA 335.4								
Cyanide	**0.016**	mg/L	0.010	0.0020	1	06/14/17 14:27	06/15/17 18:58	57-12-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: National Grid - Rome Kingsley
Pace Project No.: 30221123

Sample: LTMW-S09-0617 **Lab ID: 30221123015** Collected: 06/07/17 16:00 Received: 06/09/17 10:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Arsenic	ND	ug/L	5.0	3.0	1	06/14/17 08:38	06/15/17 11:10	7440-38-2	
Lead	ND	ug/L	5.0	2.5	1	06/14/17 08:38	06/15/17 11:10	7439-92-1	
Zinc	**24.4**	ug/L	10.0	1.0	1	06/14/17 08:38	06/15/17 11:10	7440-66-6	
8270D MSSV PAH by SIM	Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3510C								
Acenaphthene	ND	ug/L	0.099	0.027	1	06/14/17 14:36	06/19/17 17:11	83-32-9	
Acenaphthylene	ND	ug/L	0.099	0.033	1	06/14/17 14:36	06/19/17 17:11	208-96-8	
Anthracene	ND	ug/L	0.099	0.045	1	06/14/17 14:36	06/19/17 17:11	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.099	0.048	1	06/14/17 14:36	06/19/17 17:11	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.099	0.034	1	06/14/17 14:36	06/19/17 17:11	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.099	0.035	1	06/14/17 14:36	06/19/17 17:11	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.099	0.038	1	06/14/17 14:36	06/19/17 17:11	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.099	0.036	1	06/14/17 14:36	06/19/17 17:11	207-08-9	
Chrysene	ND	ug/L	0.099	0.035	1	06/14/17 14:36	06/19/17 17:11	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.099	0.031	1	06/14/17 14:36	06/19/17 17:11	53-70-3	
Fluoranthene	ND	ug/L	0.099	0.061	1	06/14/17 14:36	06/19/17 17:11	206-44-0	
Fluorene	ND	ug/L	0.099	0.026	1	06/14/17 14:36	06/19/17 17:11	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.099	0.034	1	06/14/17 14:36	06/19/17 17:11	193-39-5	
2-Methylnaphthalene	ND	ug/L	0.099	0.057	1	06/14/17 14:36	06/19/17 17:11	91-57-6	
Naphthalene	ND	ug/L	0.099	0.061	1	06/14/17 14:36	06/19/17 17:11	91-20-3	
Phenanthrene	ND	ug/L	0.099	0.037	1	06/14/17 14:36	06/19/17 17:11	85-01-8	
Pyrene	ND	ug/L	0.099	0.056	1	06/14/17 14:36	06/19/17 17:11	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	47	%	19-123		1	06/14/17 14:36	06/19/17 17:11	321-60-8	
Terphenyl-d14 (S)	78	%	58-130		1	06/14/17 14:36	06/19/17 17:11	1718-51-0	
8260C MSV	Analytical Method: EPA 8260C								
Benzene	ND	ug/L	1.0	0.18	1		06/12/17 18:02	71-43-2	
Ethylbenzene	ND	ug/L	1.0	0.20	1		06/12/17 18:02	100-41-4	
Toluene	ND	ug/L	1.0	0.11	1		06/12/17 18:02	108-88-3	
Xylene (Total)	ND	ug/L	3.0	0.77	1		06/12/17 18:02	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.49	1		06/12/17 18:02	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.28	1		06/12/17 18:02	95-47-6	
Surrogates									
Toluene-d8 (S)	91	%	84-115		1		06/12/17 18:02	2037-26-5	
4-Bromofluorobenzene (S)	108	%	81-119		1		06/12/17 18:02	460-00-4	
1,2-Dichloroethane-d4 (S)	137	%	77-126		1		06/12/17 18:02	17060-07-0	S3,ST
Dibromofluoromethane (S)	114	%	70-130		1		06/12/17 18:02	1868-53-7	
335.4 Cyanide, Total	Analytical Method: EPA 335.4 Preparation Method: EPA 335.4								
Cyanide	ND	mg/L	0.010	0.0020	1	06/14/17 14:27	06/15/17 19:01	57-12-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: National Grid - Rome Kingsley
Pace Project No.: 30221123

Sample: LTMW-S10-0617 **Lab ID: 30221123016** Collected: 06/07/17 15:50 Received: 06/09/17 10:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Arsenic	ND	ug/L	5.0	3.0	1	06/14/17 08:38	06/15/17 09:30	7440-38-2	
Lead	ND	ug/L	5.0	2.5	1	06/14/17 08:38	06/15/17 09:30	7439-92-1	
Zinc	ND	ug/L	10.0	1.0	1	06/14/17 08:38	06/15/17 09:30	7440-66-6	
8270D MSSV PAH by SIM	Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3510C								
Acenaphthene	**4.3**	ug/L	0.11	0.028	1	06/14/17 14:36	06/19/17 15:08	83-32-9	MH
Acenaphthylene	**0.23**	ug/L	0.11	0.035	1	06/14/17 14:36	06/19/17 15:08	208-96-8	
Anthracene	ND	ug/L	0.11	0.048	1	06/14/17 14:36	06/19/17 15:08	120-12-7	ML
Benzo(a)anthracene	ND	ug/L	0.11	0.051	1	06/14/17 14:36	06/19/17 15:08	56-55-3	ML,R1
Benzo(a)pyrene	ND	ug/L	0.11	0.036	1	06/14/17 14:36	06/19/17 15:08	50-32-8	R1
Benzo(b)fluoranthene	ND	ug/L	0.11	0.037	1	06/14/17 14:36	06/19/17 15:08	205-99-2	R1
Benzo(g,h,i)perylene	ND	ug/L	0.11	0.040	1	06/14/17 14:36	06/19/17 15:08	191-24-2	R1
Benzo(k)fluoranthene	ND	ug/L	0.11	0.038	1	06/14/17 14:36	06/19/17 15:08	207-08-9	ML,R1
Chrysene	ND	ug/L	0.11	0.038	1	06/14/17 14:36	06/19/17 15:08	218-01-9	ML,R1
Dibenz(a,h)anthracene	ND	ug/L	0.11	0.033	1	06/14/17 14:36	06/19/17 15:08	53-70-3	ML,R1
Fluoranthene	**0.62**	ug/L	0.11	0.065	1	06/14/17 14:36	06/19/17 15:08	206-44-0	R1
Fluorene	**0.35**	ug/L	0.11	0.027	1	06/14/17 14:36	06/19/17 15:08	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.11	0.037	1	06/14/17 14:36	06/19/17 15:08	193-39-5	ML,R1
2-Methylnaphthalene	ND	ug/L	0.11	0.060	1	06/14/17 14:36	06/19/17 15:08	91-57-6	ML
Naphthalene	**0.17**	ug/L	0.11	0.064	1	06/14/17 14:36	06/19/17 15:08	91-20-3	ML
Phenanthrene	**0.22**	ug/L	0.11	0.039	1	06/14/17 14:36	06/19/17 15:08	85-01-8	ML
Pyrene	**0.71**	ug/L	0.11	0.059	1	06/14/17 14:36	06/19/17 15:08	129-00-0	R1
Surrogates									
2-Fluorobiphenyl (S)	26	%	19-123		1	06/14/17 14:36	06/19/17 15:08	321-60-8	
Terphenyl-d14 (S)	35	%	58-130		1	06/14/17 14:36	06/19/17 15:08	1718-51-0	SR
8260C MSV	Analytical Method: EPA 8260C								
Benzene	ND	ug/L	1.0	0.18	1		06/12/17 18:27	71-43-2	
Ethylbenzene	ND	ug/L	1.0	0.20	1		06/12/17 18:27	100-41-4	
Toluene	ND	ug/L	1.0	0.11	1		06/12/17 18:27	108-88-3	
Xylene (Total)	ND	ug/L	3.0	0.77	1		06/12/17 18:27	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.49	1		06/12/17 18:27	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.28	1		06/12/17 18:27	95-47-6	
Surrogates									
Toluene-d8 (S)	91	%	84-115		1		06/12/17 18:27	2037-26-5	
4-Bromofluorobenzene (S)	102	%	81-119		1		06/12/17 18:27	460-00-4	
1,2-Dichloroethane-d4 (S)	140	%	77-126		1		06/12/17 18:27	17060-07-0	S3,ST
Dibromofluoromethane (S)	120	%	70-130		1		06/12/17 18:27	1868-53-7	
335.4 Cyanide, Total	Analytical Method: EPA 335.4 Preparation Method: EPA 335.4								
Cyanide	ND	mg/L	0.010	0.0020	1	06/14/17 14:27	06/15/17 19:03	57-12-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: National Grid - Rome Kingsley
Pace Project No.: 30221123

Sample: Field Duplicate-0617 **Lab ID: 30221123017** Collected: 06/07/17 00:01 Received: 06/09/17 10:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Arsenic	ND	ug/L	5.0	3.0	1	06/14/17 08:38	06/15/17 11:14	7440-38-2	
Lead	ND	ug/L	5.0	2.5	1	06/14/17 08:38	06/15/17 11:14	7439-92-1	
Zinc	**23.2**	ug/L	10.0	1.0	1	06/14/17 08:38	06/15/17 11:14	7440-66-6	
8270D MSSV PAH by SIM	Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3510C								
Acenaphthene	ND	ug/L	0.097	0.026	1	06/14/17 14:36	06/19/17 18:21	83-32-9	
Acenaphthylene	ND	ug/L	0.097	0.033	1	06/14/17 14:36	06/19/17 18:21	208-96-8	
Anthracene	ND	ug/L	0.097	0.044	1	06/14/17 14:36	06/19/17 18:21	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.097	0.047	1	06/14/17 14:36	06/19/17 18:21	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.097	0.033	1	06/14/17 14:36	06/19/17 18:21	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.097	0.034	1	06/14/17 14:36	06/19/17 18:21	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.097	0.037	1	06/14/17 14:36	06/19/17 18:21	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.097	0.035	1	06/14/17 14:36	06/19/17 18:21	207-08-9	
Chrysene	ND	ug/L	0.097	0.035	1	06/14/17 14:36	06/19/17 18:21	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.097	0.030	1	06/14/17 14:36	06/19/17 18:21	53-70-3	
Fluoranthene	ND	ug/L	0.097	0.060	1	06/14/17 14:36	06/19/17 18:21	206-44-0	
Fluorene	ND	ug/L	0.097	0.025	1	06/14/17 14:36	06/19/17 18:21	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.097	0.034	1	06/14/17 14:36	06/19/17 18:21	193-39-5	
2-Methylnaphthalene	ND	ug/L	0.097	0.056	1	06/14/17 14:36	06/19/17 18:21	91-57-6	
Naphthalene	ND	ug/L	0.097	0.059	1	06/14/17 14:36	06/19/17 18:21	91-20-3	
Phenanthrene	ND	ug/L	0.097	0.036	1	06/14/17 14:36	06/19/17 18:21	85-01-8	
Pyrene	ND	ug/L	0.097	0.055	1	06/14/17 14:36	06/19/17 18:21	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	53	%	19-123		1	06/14/17 14:36	06/19/17 18:21	321-60-8	
Terphenyl-d14 (S)	74	%	58-130		1	06/14/17 14:36	06/19/17 18:21	1718-51-0	
8260C MSV	Analytical Method: EPA 8260C								
Benzene	ND	ug/L	1.0	0.18	1		06/12/17 19:43	71-43-2	
Ethylbenzene	ND	ug/L	1.0	0.20	1		06/12/17 19:43	100-41-4	
Toluene	ND	ug/L	1.0	0.11	1		06/12/17 19:43	108-88-3	
Xylene (Total)	ND	ug/L	3.0	0.77	1		06/12/17 19:43	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.49	1		06/12/17 19:43	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.28	1		06/12/17 19:43	95-47-6	
Surrogates									
Toluene-d8 (S)	90	%	84-115		1		06/12/17 19:43	2037-26-5	
4-Bromofluorobenzene (S)	109	%	81-119		1		06/12/17 19:43	460-00-4	
1,2-Dichloroethane-d4 (S)	142	%	77-126		1		06/12/17 19:43	17060-07-0	S3,ST
Dibromofluoromethane (S)	118	%	70-130		1		06/12/17 19:43	1868-53-7	
335.4 Cyanide, Total	Analytical Method: EPA 335.4 Preparation Method: EPA 335.4								
Cyanide	ND	mg/L	0.010	0.0020	1	06/14/17 14:27	06/15/17 19:02	57-12-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: National Grid - Rome Kingsley
Pace Project No.: 30221123

Sample: Trip Blank **Lab ID: 30221123018** Collected: 06/07/17 00:01 Received: 06/09/17 10:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV	Analytical Method: EPA 8260C								
Benzene	ND	ug/L	1.0	0.18	1		06/12/17 20:08	71-43-2	
Ethylbenzene	ND	ug/L	1.0	0.20	1		06/12/17 20:08	100-41-4	
Toluene	ND	ug/L	1.0	0.11	1		06/12/17 20:08	108-88-3	
Xylene (Total)	ND	ug/L	3.0	0.77	1		06/12/17 20:08	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.49	1		06/12/17 20:08	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.28	1		06/12/17 20:08	95-47-6	
Surrogates									
Toluene-d8 (S)	90	%	84-115		1		06/12/17 20:08	2037-26-5	
4-Bromofluorobenzene (S)	105	%	81-119		1		06/12/17 20:08	460-00-4	
1,2-Dichloroethane-d4 (S)	141	%	77-126		1		06/12/17 20:08	17060-07-0	S3,ST
Dibromofluoromethane (S)	122	%	70-130		1		06/12/17 20:08	1868-53-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: National Grid - Rome Kingsley
Pace Project No.: 30221123

QC Batch: 261815 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total
Associated Lab Samples: 30221123001, 30221123002, 30221123003, 30221123004, 30221123005, 30221123006, 30221123007, 30221123008, 30221123009, 30221123010, 30221123011, 30221123012, 30221123013, 30221123014, 30221123015, 30221123016, 30221123017

METHOD BLANK: 1289119 Matrix: Water
Associated Lab Samples: 30221123001, 30221123002, 30221123003, 30221123004, 30221123005, 30221123006, 30221123007, 30221123008, 30221123009, 30221123010, 30221123011, 30221123012, 30221123013, 30221123014, 30221123015, 30221123016, 30221123017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	ug/L	ND	5.0	3.0	06/15/17 09:22	
Lead	ug/L	ND	5.0	2.5	06/15/17 09:22	
Zinc	ug/L	ND	10.0	1.0	06/15/17 09:22	

LABORATORY CONTROL SAMPLE: 1289120

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	500	498	100	85-115	
Lead	ug/L	500	494	99	85-115	
Zinc	ug/L	500	527	105	85-115	

MATRIX SPIKE SAMPLE: 1289122

Parameter	Units	30221123010 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	ND	500	510	102	70-130	
Lead	ug/L	ND	500	499	100	70-130	
Zinc	ug/L	ND	500	516	103	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1289124 1289125

Parameter	Units	30221123016 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	ND	500	500	504	512	100	102	70-130	1	20	
Lead	ug/L	ND	500	500	489	495	98	99	70-130	1	20	
Zinc	ug/L	ND	500	500	500	504	100	101	70-130	1	20	

SAMPLE DUPLICATE: 1289121

Parameter	Units	30221123010 Result	Dup Result	RPD	Max RPD	Qualifiers
Arsenic	ug/L	ND	ND		20	
Lead	ug/L	ND	ND		20	
Zinc	ug/L	ND	3J		20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: National Grid - Rome Kingsley
Pace Project No.: 30221123

SAMPLE DUPLICATE: 1289123

Parameter	Units	30221123016 Result	Dup Result	RPD	Max RPD	Qualifiers
Arsenic	ug/L	ND	ND		20	
Lead	ug/L	ND	ND		20	
Zinc	ug/L	ND	ND		20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: National Grid - Rome Kingsley
Pace Project No.: 30221123

QC Batch: 261514 Analysis Method: EPA 8260C
QC Batch Method: EPA 8260C Analysis Description: 8260C MSV UST-WATER
Associated Lab Samples: 30221123001, 30221123002, 30221123003, 30221123004, 30221123005, 30221123006, 30221123007, 30221123008, 30221123009, 30221123010, 30221123011, 30221123012, 30221123013, 30221123014, 30221123015, 30221123016, 30221123017, 30221123018

METHOD BLANK: 1287905 Matrix: Water
Associated Lab Samples: 30221123001, 30221123002, 30221123003, 30221123004, 30221123005, 30221123006, 30221123007, 30221123008, 30221123009, 30221123010, 30221123011, 30221123012, 30221123013, 30221123014, 30221123015, 30221123016, 30221123017, 30221123018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	0.18	06/12/17 11:16	
Ethylbenzene	ug/L	ND	1.0	0.20	06/12/17 11:16	
m&p-Xylene	ug/L	ND	2.0	0.49	06/12/17 11:16	
o-Xylene	ug/L	ND	1.0	0.28	06/12/17 11:16	
Toluene	ug/L	ND	1.0	0.11	06/12/17 11:16	
Xylene (Total)	ug/L	ND	3.0	0.77	06/12/17 11:16	
1,2-Dichloroethane-d4 (S)	%	127	77-126		06/12/17 11:16	S3
4-Bromofluorobenzene (S)	%	104	81-119		06/12/17 11:16	
Dibromofluoromethane (S)	%	117	70-130		06/12/17 11:16	
Toluene-d8 (S)	%	91	84-115		06/12/17 11:16	

LABORATORY CONTROL SAMPLE: 1287906

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	18.9	95	69-115	
Ethylbenzene	ug/L	20	18.2	91	71-116	
m&p-Xylene	ug/L	40	36.9	92	74-118	
o-Xylene	ug/L	20	18.3	91	71-119	
Toluene	ug/L	20	18.4	92	70-115	
Xylene (Total)	ug/L	60	55.2	92	73-118	
1,2-Dichloroethane-d4 (S)	%			122	77-126	
4-Bromofluorobenzene (S)	%			105	81-119	
Dibromofluoromethane (S)	%			122	70-130	
Toluene-d8 (S)	%			94	84-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1287907 1287908

Parameter	Units	30221123016 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	ND	20	20	20.1	20.3	100	102	63-123	1	30	
Ethylbenzene	ug/L	ND	20	20	19.3	19.8	97	99	70-120	2	30	
m&p-Xylene	ug/L	ND	40	40	39.5	37.7	99	94	70-123	4	30	
o-Xylene	ug/L	ND	20	20	19.8	18.2	99	91	68-122	8	30	
Toluene	ug/L	ND	20	20	18.9	18.7	94	94	66-124	1	30	
Xylene (Total)	ug/L	ND	60	60	59.3	56.0	99	93	68-123	6	30	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: National Grid - Rome Kingsley
Pace Project No.: 30221123

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1287907 1287908

Parameter	Units	30221123016 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloroethane-d4 (S)	%						136	139	77-126			ST
4-Bromofluorobenzene (S)	%						105	107	81-119			
Dibromofluoromethane (S)	%						125	120	70-130			
Toluene-d8 (S)	%						92	90	84-115			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: National Grid - Rome Kingsley
Pace Project No.: 30221123

QC Batch: 261784 Analysis Method: EPA 8270D by SIM
QC Batch Method: EPA 3510C Analysis Description: 8270D Water PAH by SIM MSSV
Associated Lab Samples: 30221123001, 30221123002, 30221123003, 30221123004, 30221123005, 30221123006, 30221123007, 30221123008, 30221123009, 30221123010, 30221123011, 30221123012, 30221123013, 30221123014, 30221123015, 30221123016, 30221123017

METHOD BLANK: 1288963 Matrix: Water
Associated Lab Samples: 30221123001, 30221123002, 30221123003, 30221123004, 30221123005, 30221123006, 30221123007, 30221123008, 30221123009, 30221123010, 30221123011, 30221123012, 30221123013, 30221123014, 30221123015, 30221123016, 30221123017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
2-Methylnaphthalene	ug/L	ND	0.10	0.057	06/19/17 12:14	
Acenaphthene	ug/L	ND	0.10	0.027	06/19/17 12:14	
Acenaphthylene	ug/L	ND	0.10	0.034	06/19/17 12:14	
Anthracene	ug/L	ND	0.10	0.046	06/19/17 12:14	
Benzo(a)anthracene	ug/L	ND	0.10	0.048	06/19/17 12:14	
Benzo(a)pyrene	ug/L	ND	0.10	0.034	06/19/17 12:14	
Benzo(b)fluoranthene	ug/L	ND	0.10	0.035	06/19/17 12:14	
Benzo(g,h,i)perylene	ug/L	ND	0.10	0.038	06/19/17 12:14	
Benzo(k)fluoranthene	ug/L	ND	0.10	0.036	06/19/17 12:14	
Chrysene	ug/L	ND	0.10	0.036	06/19/17 12:14	
Dibenz(a,h)anthracene	ug/L	ND	0.10	0.031	06/19/17 12:14	
Fluoranthene	ug/L	ND	0.10	0.061	06/19/17 12:14	
Fluorene	ug/L	ND	0.10	0.026	06/19/17 12:14	
Indeno(1,2,3-cd)pyrene	ug/L	ND	0.10	0.035	06/19/17 12:14	
Naphthalene	ug/L	ND	0.10	0.061	06/19/17 12:14	
Phenanthrene	ug/L	ND	0.10	0.037	06/19/17 12:14	
Pyrene	ug/L	ND	0.10	0.056	06/19/17 12:14	
2-Fluorobiphenyl (S)	%	64	19-123		06/19/17 12:14	
Terphenyl-d14 (S)	%	80	58-130		06/19/17 12:14	

LABORATORY CONTROL SAMPLE: 1288964

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Methylnaphthalene	ug/L	2	1.5	73	47-103	
Acenaphthene	ug/L	2	1.4	71	48-104	
Acenaphthylene	ug/L	2	1.6	79	44-109	
Anthracene	ug/L	2	1.6	78	49-112	
Benzo(a)anthracene	ug/L	2	1.6	80	63-109	
Benzo(a)pyrene	ug/L	2	1.5	77	51-98	
Benzo(b)fluoranthene	ug/L	2	1.7	83	41-139	
Benzo(g,h,i)perylene	ug/L	2	1.6	79	44-124	
Benzo(k)fluoranthene	ug/L	2	1.5	77	58-125	
Chrysene	ug/L	2	1.4	72	62-115	
Dibenz(a,h)anthracene	ug/L	2	1.7	84	55-124	
Fluoranthene	ug/L	2	1.7	84	65-112	
Fluorene	ug/L	2	1.6	79	49-108	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: National Grid - Rome Kingsley
Pace Project No.: 30221123

LABORATORY CONTROL SAMPLE: 1288964

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Indeno(1,2,3-cd)pyrene	ug/L	2	1.7	83	54-125	
Naphthalene	ug/L	2	1.4	68	42-107	
Phenanthrene	ug/L	2	1.4	71	50-109	
Pyrene	ug/L	2	1.7	83	64-109	
2-Fluorobiphenyl (S)	%			71	19-123	
Terphenyl-d14 (S)	%			86	58-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1288965 1288966

Parameter	Units	30221123016 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2-Methylnaphthalene	ug/L	ND	2.1	2.1	0.79	0.81	38	39	47-103	3	20	ML
Acenaphthene	ug/L	4.3	2.1	2.1	6.7	7.0	117	135	48-104	5	20	MH
Acenaphthylene	ug/L	0.23	2.1	2.1	1.2	1.3	49	50	44-109	1	20	
Anthracene	ug/L	ND	2.1	2.1	1.2	1.0	57	48	49-112	16	20	ML
Benzo(a)anthracene	ug/L	ND	2.1	2.1	1.5	1.1	70	53	63-109	26	20	ML,R1
Benzo(a)pyrene	ug/L	ND	2.1	2.1	1.4	1.1	67	51	51-98	27	20	R1
Benzo(b)fluoranthene	ug/L	ND	2.1	2.1	1.4	1.1	70	56	41-139	22	20	R1
Benzo(g,h,i)perylene	ug/L	ND	2.1	2.1	1.3	1.0	63	51	44-124	22	20	R1
Benzo(k)fluoranthene	ug/L	ND	2.1	2.1	1.3	1.0	65	50	58-125	27	20	ML,R1
Chrysene	ug/L	ND	2.1	2.1	1.3	1.0	62	48	62-115	25	20	ML,R1
Dibenz(a,h)anthracene	ug/L	ND	2.1	2.1	1.4	1.1	66	52	55-124	24	20	ML,R1
Fluoranthene	ug/L	0.62	2.1	2.1	2.7	2.1	101	73	65-112	24	20	R1
Fluorene	ug/L	0.35	2.1	2.1	1.5	1.5	57	54	49-108	5	20	
Indeno(1,2,3-cd)pyrene	ug/L	ND	2.1	2.1	1.4	1.1	66	52	54-125	24	20	ML,R1
Naphthalene	ug/L	0.17	2.1	2.1	0.95	0.98	38	39	42-107	3	20	ML
Phenanthrene	ug/L	0.22	2.1	2.1	1.4	1.2	58	45	50-109	20	20	ML
Pyrene	ug/L	0.71	2.1	2.1	2.9	2.2	107	74	64-109	26	20	R1
2-Fluorobiphenyl (S)	%						37	39	19-123		20	
Terphenyl-d14 (S)	%						72	56	58-130		20	SR

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: National Grid - Rome Kingsley
Pace Project No.: 30221123

QC Batch: 261865 Analysis Method: EPA 335.4
QC Batch Method: EPA 335.4 Analysis Description: 335.4 Cyanide, Total
Associated Lab Samples: 30221123001, 30221123002, 30221123003, 30221123004, 30221123005, 30221123006, 30221123007, 30221123008, 30221123009, 30221123010, 30221123011, 30221123012, 30221123013, 30221123014, 30221123015, 30221123016, 30221123017

METHOD BLANK: 1289330 Matrix: Water
Associated Lab Samples: 30221123001, 30221123002, 30221123003, 30221123004, 30221123005, 30221123006, 30221123007, 30221123008, 30221123009, 30221123010, 30221123011, 30221123012, 30221123013, 30221123014, 30221123015, 30221123016, 30221123017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Cyanide	mg/L	ND	0.010	0.0020	06/15/17 18:38	

LABORATORY CONTROL SAMPLE: 1289331

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	.2	0.20	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1289332 1289333

Parameter	Units	30221243001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide	mg/L	0.084	.1	.1	0.18	0.19	101	103	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1289334 1289335

Parameter	Units	30221123016 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide	mg/L	ND	.1	.1	0.10	0.10	96	96	90-110	0	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: National Grid - Rome Kingsley
Pace Project No.: 30221123

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-PA	Pace Analytical Services - Greensburg

ANALYTE QUALIFIERS

1c	Emulsions were present during the extraction of this sample. Appropriate mechanical means were employed to break up the emulsions and were successful.
MH	Matrix spike recovery and/or matrix spike duplicate recovery was above laboratory control limits. Result may be biased high.
ML	Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.
R1	RPD value was outside control limits.
S1	Surrogate recovery outside laboratory control limits (confirmed by re-analysis).
S2	Surrogate recovery outside laboratory control limits due to matrix interferences (confirmed by similar results from sample re-analysis).
S3	Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated sample.
SR	Surrogate recovery was below laboratory control limits. Results may be biased low.
ST	Surrogate recovery was above laboratory control limits. Results may be biased high.

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: National Grid - Rome Kingsley
Pace Project No.: 30221123

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30221123001	**LTMW-D01-0617**	EPA 200.7	261815	EPA 200.7	261892
30221123002	**LTMW-S01-0617**	EPA 200.7	261815	EPA 200.7	261892
30221123003	**LTMW-D02-0617**	EPA 200.7	261815	EPA 200.7	261892
30221123004	**LTMW-S02-0617**	EPA 200.7	261815	EPA 200.7	261892
30221123005	**LTMW-D03-0617**	EPA 200.7	261815	EPA 200.7	261892
30221123006	**LTMW-S03-0617**	EPA 200.7	261815	EPA 200.7	261892
30221123007	**LTMW-D04-0617**	EPA 200.7	261815	EPA 200.7	261892
30221123008	**LTMW-S04-0617**	EPA 200.7	261815	EPA 200.7	261892
30221123009	**LTMW-D05-0617**	EPA 200.7	261815	EPA 200.7	261892
30221123010	**LTMW-S05-0617**	EPA 200.7	261815	EPA 200.7	261892
30221123011	**LTMW-D06-0617**	EPA 200.7	261815	EPA 200.7	261892
30221123012	**LTMW-S06-0617**	EPA 200.7	261815	EPA 200.7	261892
30221123013	**LTMW-S07-0617**	EPA 200.7	261815	EPA 200.7	261892
30221123014	**LTMW-S08-0617**	EPA 200.7	261815	EPA 200.7	261892
30221123015	**LTMW-S09-0617**	EPA 200.7	261815	EPA 200.7	261892
30221123016	**LTMW-S10-0617**	EPA 200.7	261815	EPA 200.7	261892
30221123017	**Field Duplicate-0617**	EPA 200.7	261815	EPA 200.7	261892
30221123001	**LTMW-D01-0617**	EPA 3510C	261784	EPA 8270D by SIM	262248
30221123002	**LTMW-S01-0617**	EPA 3510C	261784	EPA 8270D by SIM	262248
30221123003	**LTMW-D02-0617**	EPA 3510C	261784	EPA 8270D by SIM	262248
30221123004	**LTMW-S02-0617**	EPA 3510C	261784	EPA 8270D by SIM	262248
30221123005	**LTMW-D03-0617**	EPA 3510C	261784	EPA 8270D by SIM	262248
30221123006	**LTMW-S03-0617**	EPA 3510C	261784	EPA 8270D by SIM	262248
30221123007	**LTMW-D04-0617**	EPA 3510C	261784	EPA 8270D by SIM	262248
30221123008	**LTMW-S04-0617**	EPA 3510C	261784	EPA 8270D by SIM	262248
30221123009	**LTMW-D05-0617**	EPA 3510C	261784	EPA 8270D by SIM	262248
30221123010	**LTMW-S05-0617**	EPA 3510C	261784	EPA 8270D by SIM	262248
30221123011	**LTMW-D06-0617**	EPA 3510C	261784	EPA 8270D by SIM	262248
30221123012	**LTMW-S06-0617**	EPA 3510C	261784	EPA 8270D by SIM	262248
30221123013	**LTMW-S07-0617**	EPA 3510C	261784	EPA 8270D by SIM	262248
30221123014	**LTMW-S08-0617**	EPA 3510C	261784	EPA 8270D by SIM	262248
30221123015	**LTMW-S09-0617**	EPA 3510C	261784	EPA 8270D by SIM	262248
30221123016	**LTMW-S10-0617**	EPA 3510C	261784	EPA 8270D by SIM	262248
30221123017	**Field Duplicate-0617**	EPA 3510C	261784	EPA 8270D by SIM	262248
30221123001	**LTMW-D01-0617**	EPA 8260C	261514		
30221123002	**LTMW-S01-0617**	EPA 8260C	261514		
30221123003	**LTMW-D02-0617**	EPA 8260C	261514		
30221123004	**LTMW-S02-0617**	EPA 8260C	261514		
30221123005	**LTMW-D03-0617**	EPA 8260C	261514		
30221123006	**LTMW-S03-0617**	EPA 8260C	261514		
30221123007	**LTMW-D04-0617**	EPA 8260C	261514		
30221123008	**LTMW-S04-0617**	EPA 8260C	261514		
30221123009	**LTMW-D05-0617**	EPA 8260C	261514		
30221123010	**LTMW-S05-0617**	EPA 8260C	261514		
30221123011	**LTMW-D06-0617**	EPA 8260C	261514		
30221123012	**LTMW-S06-0617**	EPA 8260C	261514		
30221123013	**LTMW-S07-0617**	EPA 8260C	261514		
30221123014	**LTMW-S08-0617**	EPA 8260C	261514		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: National Grid - Rome Kingsley
Pace Project No.: 30221123

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30221123015	**LTMW-S09-0617**	EPA 8260C	261514		
30221123016	**LTMW-S10-0617**	EPA 8260C	261514		
30221123017	**Field Duplicate-0617**	EPA 8260C	261514		
30221123018	**Trip Blank**	EPA 8260C	261514		
30221123001	**LTMW-D01-0617**	EPA 335.4	261865	EPA 335.4	262052
30221123002	**LTMW-S01-0617**	EPA 335.4	261865	EPA 335.4	262052
30221123003	**LTMW-D02-0617**	EPA 335.4	261865	EPA 335.4	262052
30221123004	**LTMW-S02-0617**	EPA 335.4	261865	EPA 335.4	262052
30221123005	**LTMW-D03-0617**	EPA 335.4	261865	EPA 335.4	262052
30221123006	**LTMW-S03-0617**	EPA 335.4	261865	EPA 335.4	262052
30221123007	**LTMW-D04-0617**	EPA 335.4	261865	EPA 335.4	262052
30221123008	**LTMW-S04-0617**	EPA 335.4	261865	EPA 335.4	262052
30221123009	**LTMW-D05-0617**	EPA 335.4	261865	EPA 335.4	262052
30221123010	**LTMW-S05-0617**	EPA 335.4	261865	EPA 335.4	262052
30221123011	**LTMW-D06-0617**	EPA 335.4	261865	EPA 335.4	262052
30221123012	**LTMW-S06-0617**	EPA 335.4	261865	EPA 335.4	262052
30221123013	**LTMW-S07-0617**	EPA 335.4	261865	EPA 335.4	262052
30221123014	**LTMW-S08-0617**	EPA 335.4	261865	EPA 335.4	262052
30221123015	**LTMW-S09-0617**	EPA 335.4	261865	EPA 335.4	262052
30221123016	**LTMW-S10-0617**	EPA 335.4	261865	EPA 335.4	262052
30221123017	**Field Duplicate-0617**	EPA 335.4	261865	EPA 335.4	262052

Pace Analytical
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WO#:30221123

30221123

CHAIN OF CUSTODY / Analytical Request Document

a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: GES - Syracuse	Report To: Mark Boorady (GES) mboorady@gesonline.com	Attention: Accounts Payable via email at ges-invoices@gesonline.com
Address: 5 Technology Place, Suite 4	Copy To:	Company Name: Groundwater & Environmental Services, Inc.
East Syracuse, New York 13057		Address: 5 Technology Place, Suite 4, East Syracuse, NY 13057
Email To: mboorady@gesonline.com	Purchase Order No.:	Pace Quote Reference:
Phone: 800.220.3069, x4065 Fax: None	Project Name: National Grid - Rome Kingsley Ave. Site, Rome, NY	Pace Project Manager: Rachel Christner
Requested Due Date/TAT: Standard	Project Number: 06-02882-134400-221-1106	Pace Profile #:

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER

UST RCRA OTHER _____

SITE LOCATION: GA IL IN MI NC OH SC WI OTHER____

Section D Required Client Information

SAMPLE ID

One Character per box.
(A-Z, 0-9 / ,-)
Samples IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED GRAB DATE	COLLECTED GRAB TIME	SAMPLE TEMP AT COLLECTION	#OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Filtered (Y/N)	Requested Analysis: BTEX (8260C)	SVOCs (PAHs) (8270D)	Cyanide, Total (335.4)	Metals, Total (As, Pb, Zn) (200.7)	Pace Project Number / Lab I.D.
1	LTMW-D01-0617	WT	G			6/7/17	09:30		7	2		1	3	1					3	2	1	1	001
2	LTMW-S01-0617	WT	G				09:30		7	2		1	3	1					3	2	1	1	002
3	LTMW-D02-0617	WT	G				11:20		7	2		1	3	1					3	2	1	1	003
4	LTMW-S02-0617	WT	G				10:35		7	2		1	3	1					3	2	1	1	004
5	LTMW-D03-0617	WT	G				10:40		7	2		1	3	1					3	2	1	1	005
6	LTMW-S03-0617	WT	G				11:40		7	2		1	3	1					3	2	1	1	006
7	LTMW-D04-0617	WT	G				12:20		7	2		1	3	1					3	2	1	1	007
8	LTMW-S04-0617	WT	G				13:10		7	2		1	3	1					3	2	1	1	008
9	LTMW-D05-0617	WT	G				12:45		7	2		1	3	1					3	2	1	1	009
10	LTMW-S05-0617	WT	G				13:05		7	2		1	3	1					3	2	1	1	010
11	LTMW-D06-0617	WT	G				14:15		7	2		1	3	1					3	2	1	1	011
12	LTMW-S06-0617	WT	G				13:45		7	2		1	3	1					3	2	1	1	012

Additional Comments:

SAMPLES WILL ARRIVE IN # COOLERS.

Please send reports to: mboorady@gesonline.com.

Syracuselabs@gesonline.com, ges@equisonline.com

SPECIFIC EDD NAME:

NGRome-labnumber.28351.EQEDD.zip

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	6/7/17	17:15	GES Fridge	6/7/17	17:45
GES Fridge	6/8/17	12:00	PACE	6/8/17	12:00
PACE	6/8/17	17:00		6/9/17	0905

SAMPLE CONDITIONS

Temp in °C	Received on ice Y/N	Custody Sealed Cooler Y/N	Samples Intact Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
Sam	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY):

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

30221123

Page: 2 of 2

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: GES - Syracuse	Report To: Mark Boorady (GES) mboorady@gesonline.com	Attention: Accounts Payable via email at ges-invoices@gesonline.com
Address: 5 Technology Place, Suite 4	Copy To:	Company Name: Groundwater & Environmental Services, Inc.
East Syracuse, New York 13057		Address: 5 Technology Place, Suite 4, East Syracuse, NY 13057
Email To: mboorady@gesonline.com	Purchase Order No.:	Pace Quote Reference:
Phone: 800.220.3069, x4065 Fax: None	Project Name: National Grid - Rome Kingsley Ave. Site, Rome, NY	Pace Project Manager: Rachel Christner
Requested Due Date/TAT: Standard	Project Number: 06-02882-134400-221-1106	Pace Profile #:

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER

UST RCRA OTHER:

SITE LOCATION: GA IL IN MI NC OH SC WI OTHER

Section D Required Client Information

SAMPLE ID

One Character per box. (A-Z, 0-9 / ,-) Samples IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED GRAB DATE	COLLECTED GRAB TIME	SAMPLE TEMP AT COLLECTION	#OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Requested Analysis: BTEX (8260C)	SVOCs (PAHs) (8270D)	Cyanide, Total (335.4)	Metals, Total (As, Pb, Zn) (200.7)	Pace Project Number / Lab I.D.
1	LTMW-S07-0617	WT	G			6/1/17	14:05		7	2		1	3	1				3	2	1	1	015
2	LTMW-S08-0617	WT	G			"	15:20		7	2		1	3	1				3	2	1	1	014
3	LTMW-S09-0617	WT	G			"	16:30		7	2		1	3	1				3	2	1	1	015
4	LTMW-S10-0617	WT	G			"	15:40		7	2		1	3	1				3	2	1	1	Collect MS/MSD Samples 016
5	Field Duplicate-0617	WT	G						7	2		1	3	1				3	2	1	1	017
6	Trip Blank	WT	Lab						2				2					2				018
7	---END OF RECORD---																					
8																						
9																						
10																						

Additional Comments:

SAMPLES WILL ARRIVE IN # COOLERS.

Please send reports to: mboorady@gesonline.com, Syracuselabs@gesonline.com, ges@equisonline.com

SPECIFIC EDD NAME:

NGRome-labnumber.28351.EQEDD.zip

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	6/1/17	19:45	Fridge	6/1/17	17:45
Fridge	6/8/17	12:00	PACE	6/8/17	12:00
PACE	6/9/17	10:05		6/9/17	1005

SAMPLE CONDITIONS

Temp in °C	Received on Ice Y/N	Custody Sealed Cooler Y/N	Samples Intact Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: DATE Signed (MM / DD / YY):

KEH

Sample Condition Upon Receipt Pittsburgh

Pace Analytical

Client Name: GES - Syracuse Project # 30221123

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: 7793 3736 6331

Custody Seal on Cooler/Box Present: ☑ yes ☐ no Seals intact: ☑ yes ☐ no

Thermometer Used 6 Type of Ice: (Wet) Blue None

Cooler Temperature Observed Temp 1.3, 3.8 °C Correction Factor: 0.0 °C Final Temp: 1.3, 3.8 °C

Temp should be above freezing to 6°C 4.9, 3.8, 1.1 4.9, 3.8, 1.1

Date and Initials of person examining contents: KA 6/19/17

Comments:	Yes	No	N/A	
Chain of Custody Present:	✓			1.
Chain of Custody Filled Out:	✓			2.
Chain of Custody Relinquished:	✓			3.
Sampler Name & Signature on COC:	✓			4.
Sample Labels match COC: -Includes date/time/ID Matrix: WT	✓			5.
Samples Arrived within Hold Time:	✓			6.
Short Hold Time Analysis (<72hr remaining):		✓		7.
Rush Turn Around Time Requested:		✓		8.
Sufficient Volume:	✓			9.
Correct Containers Used: -Pace Containers Used:	✓ ✓			10.
Containers Intact:	✓			11.
Orthophosphate field filtered			✓	12.
Organic Samples checked for dechlorination:	✓			13.
Filtered volume received for Dissolved tests			✓	14.
All containers have been checked for preservation. All containers needing preservation are found to be in compliance with EPA recommendation.	✓ ✓			15.
exceptions: (VOA) coliform, TOC, O&G, Phenolics				Initial when completed KA / Date/time of preservation; Lot # of added preservative
Headspace in VOA Vials (>6mm):		✓		16.
Trip Blank Present:	✓			17.
Trip Blank Custody Seals Present	✓			
Rad Aqueous Samples Screened > 0.5 mrem/hr			✓	Initial when completed: / Date:

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

☐ **A check in this box indicates that additional information has been stored in ereports.**

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

***PM review** is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

June 20, 2017

Mr. Mark Boorady
Groundwater & Environmental Services, Inc.
5 Technology Place, Suite 4
East Syracuse, NY 13057

RE: Project: National Grid - Rome Kingsley
Pace Project No.: 30221243

Dear Mr. Boorady:
Enclosed are the analytical results for sample(s) received by the laboratory on June 10, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Timothy Reed for
Rachel Christner
rachel.christner@pacelabs.com
724-850-5611
Project Manager

Enclosures

cc: GES Reports - Syracuse, Groundwater & Environmental Services, Inc.
Ms. Cheryl Golden-Walts, Groundwater & Environmental Services, Inc.
Chandler Swartzendruber, Groundwater & Environmental Services, Inc.

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

CERTIFICATIONS

Project: National Grid - Rome Kingsley
Pace Project No.: 30221243

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
L-A-B DOD-ELAP Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH-0694
Delaware Certification
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: 90133
Louisiana DHH/TNI Certification #: LA140008
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: PA00091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235
Montana Certification #: Cert 0082
Nebraska Certification #: NE-05-29-14
Nevada Certification #: PA014572015-1
New Hampshire/TNI Certification #: 2976
New Jersey/TNI Certification #: PA 051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Oregon/TNI Certification #: PA200002
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN2867
Texas/TNI Certification #: T104704188-14-8
Utah/TNI Certification #: PA014572015-5
USDA Soil Permit #: P330-14-00213
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Certification
Wyoming Certification #: 8TMS-L

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SAMPLE SUMMARY

Project: National Grid - Rome Kingsley
Pace Project No.: 30221243

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30221243001	**Effluent System 0617**	Water	06/07/17 16:30	06/10/17 10:00
30221243002	**Trip Blank**	Water	06/07/17 16:30	06/10/17 10:00

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(724)850-5600

SAMPLE ANALYTE COUNT

Project: National Grid - Rome Kingsley
Pace Project No.: 30221243

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30221243001	**Effluent System 0617**	EPA 200.7	CTS	8	PASI-PA
		EPA 245.1	PJD	1	PASI-PA
		EPA 8270D by SIM	DSC	18	PASI-PA
		EPA 8260C	JAS	41	PASI-PA
		EPA 335.4	LEP	1	PASI-PA
30221243002	**Trip Blank**	EPA 8260C	JAS	39	PASI-PA

REPORT OF LABORATORY ANALYSIS

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(724)850-5600

PROJECT NARRATIVE

Project: National Grid - Rome Kingsley
Pace Project No.: 30221243

Method: **EPA 200.7**
Description: 200.7 Metals, Total
Client: Groundwater & Environmental Services, Inc. (Syracuse)
Date: June 20, 2017

General Information:
1 sample was analyzed for EPA 200.7. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 200.7 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: National Grid - Rome Kingsley
Pace Project No.: 30221243

Method: **EPA 245.1**
Description: 245.1 Mercury
Client: Groundwater & Environmental Services, Inc. (Syracuse)
Date: June 20, 2017

General Information:
1 sample was analyzed for EPA 245.1. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 245.1 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: National Grid - Rome Kingsley
Pace Project No.: 30221243

Method: **EPA 8270D by SIM**
Description: 8270D MSSV PAH by SIM
Client: Groundwater & Environmental Services, Inc. (Syracuse)
Date: June 20, 2017

General Information:
1 sample was analyzed for EPA 8270D by SIM. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3510C with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

QC Batch: 261784

SR: Surrogate recovery was below laboratory control limits. Results may be biased low.
- MSD (Lab ID: 1288966)
  - Terphenyl-d14 (S)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 261784

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30221123016

R1: RPD value was outside control limits.
- MSD (Lab ID: 1288966)
  - Benzo(a)anthracene
  - Benzo(a)pyrene
  - Benzo(b)fluoranthene
  - Benzo(g,h,i)perylene

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: National Grid - Rome Kingsley
Pace Project No.: 30221243

Method: **EPA 8270D by SIM**
Description: 8270D MSSV PAH by SIM
Client: Groundwater & Environmental Services, Inc. (Syracuse)
Date: June 20, 2017

QC Batch: 261784

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30221123016

R1: RPD value was outside control limits.

- Benzo(k)fluoranthene
- Chrysene
- Dibenz(a,h)anthracene
- Fluoranthene
- Indeno(1,2,3-cd)pyrene
- Pyrene

Additional Comments:

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PROJECT NARRATIVE

Project: National Grid - Rome Kingsley
Pace Project No.: 30221243

Method: **EPA 8260C**
Description: 8260C MSV
Client: Groundwater & Environmental Services, Inc. (Syracuse)
Date: June 20, 2017

General Information:
2 samples were analyzed for EPA 8260C. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: National Grid - Rome Kingsley
Pace Project No.: 30221243

Method: **EPA 335.4**
Description: 335.4 Cyanide, Total
Client: Groundwater & Environmental Services, Inc. (Syracuse)
Date: June 20, 2017

General Information:
1 sample was analyzed for EPA 335.4. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 335.4 with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: National Grid - Rome Kingsley
Pace Project No.: 30221243

Sample: Effluent System 0617 **Lab ID: 30221243001** Collected: 06/07/17 16:30 Received: 06/10/17 10:00 Matrix: Water

Comments: • Sample collection time on containers does not match COC; client was notified. Client confirmed 16:30 as correct collection time.
• 8260 TTO = 52.4 ug/L

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Arsenic	ND	mg/L	0.0050	0.0030	1	06/13/17 08:16	06/14/17 11:52	7440-38-2	
Cadmium	ND	mg/L	0.0030	0.00032	1	06/13/17 08:16	06/14/17 11:52	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00058	1	06/13/17 08:16	06/14/17 11:52	7440-47-3	
Copper	ND	mg/L	0.0050	0.0015	1	06/13/17 08:16	06/14/17 11:52	7440-50-8	
Lead	ND	mg/L	0.0050	0.0025	1	06/13/17 08:16	06/14/17 11:52	7439-92-1	
Nickel	ND	mg/L	0.010	0.0012	1	06/13/17 08:16	06/14/17 11:52	7440-02-0	
Silver	ND	mg/L	0.0060	0.00067	1	06/13/17 08:16	06/14/17 11:52	7440-22-4	
Zinc	ND	mg/L	0.010	0.0010	1	06/13/17 08:16	06/14/17 11:52	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1								
Mercury	ND	mg/L	0.00020	0.000017	1	06/14/17 13:20	06/15/17 00:22	7439-97-6	
8270D MSSV PAH by SIM	Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3510C								
Acenaphthene	**15.5**	ug/L	0.097	0.026	1	06/14/17 14:36	06/19/17 12:49	83-32-9	
Acenaphthylene	**1.7**	ug/L	0.097	0.033	1	06/14/17 14:36	06/19/17 12:49	208-96-8	
Anthracene	**0.41**	ug/L	0.097	0.044	1	06/14/17 14:36	06/19/17 12:49	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.097	0.047	1	06/14/17 14:36	06/19/17 12:49	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.097	0.033	1	06/14/17 14:36	06/19/17 12:49	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.097	0.034	1	06/14/17 14:36	06/19/17 12:49	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.097	0.037	1	06/14/17 14:36	06/19/17 12:49	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.097	0.035	1	06/14/17 14:36	06/19/17 12:49	207-08-9	
Chrysene	ND	ug/L	0.097	0.035	1	06/14/17 14:36	06/19/17 12:49	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.097	0.030	1	06/14/17 14:36	06/19/17 12:49	53-70-3	
Fluoranthene	**0.85**	ug/L	0.097	0.060	1	06/14/17 14:36	06/19/17 12:49	206-44-0	
Fluorene	**4.7**	ug/L	0.097	0.025	1	06/14/17 14:36	06/19/17 12:49	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.097	0.034	1	06/14/17 14:36	06/19/17 12:49	193-39-5	
Naphthalene	**4.4**	ug/L	0.097	0.059	1	06/14/17 14:36	06/19/17 12:49	91-20-3	
Phenanthrene	**4.9**	ug/L	0.097	0.036	1	06/14/17 14:36	06/19/17 12:49	85-01-8	
Pyrene	**1.0**	ug/L	0.097	0.055	1	06/14/17 14:36	06/19/17 12:49	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	65	%	19-123		1	06/14/17 14:36	06/19/17 12:49	321-60-8	
Terphenyl-d14 (S)	82	%	58-130		1	06/14/17 14:36	06/19/17 12:49	1718-51-0	
8260C MSV	Analytical Method: EPA 8260C								
1,1,1-Trichloroethane	ND	ug/L	1.0	0.22	1		06/13/17 14:36	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.19	1		06/13/17 14:36	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.45	1		06/13/17 14:36	79-00-5	
1,1-Dichloroethane	ND	ug/L	1.0	0.34	1		06/13/17 14:36	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		06/13/17 14:36	75-35-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.36	1		06/13/17 14:36	107-06-2	
1,2-Dichloropropane	ND	ug/L	1.0	0.62	1		06/13/17 14:36	78-87-5	
2-Butanone (MEK)	ND	ug/L	10.0	5.5	1		06/13/17 14:36	78-93-3	IH
2-Hexanone	ND	ug/L	5.0	1.7	1		06/13/17 14:36	591-78-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1.7	1		06/13/17 14:36	108-10-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: National Grid - Rome Kingsley
Pace Project No.: 30221243

Sample: Effluent System 0617 **Lab ID: 30221243001** Collected: 06/07/17 16:30 Received: 06/10/17 10:00 Matrix: Water

Comments: • Sample collection time on containers does not match COC; client was notified. Client confirmed 16:30 as correct collection time.
• 8260 TTO = 52.4 ug/L

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV	Analytical Method: EPA 8260C								
Acetone	ND	ug/L	10.0	3.8	1		06/13/17 14:36	67-64-1	
Benzene	**61.1**	ug/L	1.0	0.35	1		06/13/17 14:36	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.43	1		06/13/17 14:36	75-27-4	
Bromoform	ND	ug/L	1.0	0.40	1		06/13/17 14:36	75-25-2	
Bromomethane	ND	ug/L	1.0	0.90	1		06/13/17 14:36	74-83-9	IH
Carbon disulfide	ND	ug/L	1.0	0.25	1		06/13/17 14:36	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.32	1		06/13/17 14:36	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.19	1		06/13/17 14:36	108-90-7	
Chloroethane	ND	ug/L	1.0	0.42	1		06/13/17 14:36	75-00-3	
Chloroform	ND	ug/L	1.0	0.33	1		06/13/17 14:36	67-66-3	
Chloromethane	ND	ug/L	1.0	0.32	1		06/13/17 14:36	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.35	1		06/13/17 14:36	124-48-1	
Ethylbenzene	**5.0**	ug/L	1.0	0.21	1		06/13/17 14:36	100-41-4	
Methylene Chloride	ND	ug/L	1.0	0.59	1		06/13/17 14:36	75-09-2	
Styrene	ND	ug/L	1.0	0.18	1		06/13/17 14:36	100-42-5	
TOTAL BTEX	**79.0**	ug/L	6.0	1.9	1		06/13/17 14:36		
Tetrachloroethene	ND	ug/L	1.0	0.33	1		06/13/17 14:36	127-18-4	
Toluene	**9.5**	ug/L	1.0	0.29	1		06/13/17 14:36	108-88-3	
Trichloroethene	ND	ug/L	1.0	0.50	1		06/13/17 14:36	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.21	1		06/13/17 14:36	75-01-4	
Xylene (Total)	**3.4**	ug/L	3.0	1.1	1		06/13/17 14:36	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.48	1		06/13/17 14:36	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.37	1		06/13/17 14:36	10061-01-5	
m&p-Xylene	**2.2**	ug/L	2.0	0.70	1		06/13/17 14:36	179601-23-1	
o-Xylene	**1.2**	ug/L	1.0	0.37	1		06/13/17 14:36	95-47-6	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.32	1		06/13/17 14:36	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.74	1		06/13/17 14:36	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	103	%	81-119		1		06/13/17 14:36	460-00-4	
1,2-Dichloroethane-d4 (S)	84	%	77-126		1		06/13/17 14:36	17060-07-0	
Toluene-d8 (S)	102	%	84-115		1		06/13/17 14:36	2037-26-5	
Dibromofluoromethane (S)	91	%	70-130		1		06/13/17 14:36	1868-53-7	
335.4 Cyanide, Total	Analytical Method: EPA 335.4 Preparation Method: EPA 335.4								
Cyanide	**0.084**	mg/L	0.010	0.0020	1	06/14/17 14:27	06/15/17 18:41	57-12-5	

Sample: Trip Blank **Lab ID: 30221243002** Collected: 06/07/17 16:30 Received: 06/10/17 10:00 Matrix: Water

Comments: • Sample collection time on containers does not match COC; client was notified. Client confirmed 16:30 as correct collection time.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV	Analytical Method: EPA 8260C								
1,1,1-Trichloroethane	ND	ug/L	1.0	0.22	1		06/13/17 14:08	71-55-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: National Grid - Rome Kingsley
Pace Project No.: 30221243

Sample: Trip Blank **Lab ID: 30221243002** Collected: 06/07/17 16:30 Received: 06/10/17 10:00 Matrix: Water

Comments: • Sample collection time on containers does not match COC; client was notified. Client confirmed 16:30 as correct collection time.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV	Analytical Method: EPA 8260C								
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.19	1		06/13/17 14:08	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.45	1		06/13/17 14:08	79-00-5	
1,1-Dichloroethane	ND	ug/L	1.0	0.34	1		06/13/17 14:08	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		06/13/17 14:08	75-35-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.36	1		06/13/17 14:08	107-06-2	
1,2-Dichloropropane	ND	ug/L	1.0	0.62	1		06/13/17 14:08	78-87-5	
2-Butanone (MEK)	ND	ug/L	10.0	5.5	1		06/13/17 14:08	78-93-3	IH
2-Hexanone	ND	ug/L	5.0	1.7	1		06/13/17 14:08	591-78-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1.7	1		06/13/17 14:08	108-10-1	
Acetone	ND	ug/L	10.0	3.8	1		06/13/17 14:08	67-64-1	
Benzene	ND	ug/L	1.0	0.35	1		06/13/17 14:08	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.43	1		06/13/17 14:08	75-27-4	
Bromoform	ND	ug/L	1.0	0.40	1		06/13/17 14:08	75-25-2	
Bromomethane	ND	ug/L	1.0	0.90	1		06/13/17 14:08	74-83-9	IH
Carbon disulfide	ND	ug/L	1.0	0.25	1		06/13/17 14:08	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.32	1		06/13/17 14:08	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.19	1		06/13/17 14:08	108-90-7	
Chloroethane	ND	ug/L	1.0	0.42	1		06/13/17 14:08	75-00-3	
Chloroform	ND	ug/L	1.0	0.33	1		06/13/17 14:08	67-66-3	
Chloromethane	ND	ug/L	1.0	0.32	1		06/13/17 14:08	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.35	1		06/13/17 14:08	124-48-1	
Ethylbenzene	ND	ug/L	1.0	0.21	1		06/13/17 14:08	100-41-4	
Methylene Chloride	ND	ug/L	1.0	0.59	1		06/13/17 14:08	75-09-2	
Styrene	ND	ug/L	1.0	0.18	1		06/13/17 14:08	100-42-5	
Tetrachloroethene	ND	ug/L	1.0	0.33	1		06/13/17 14:08	127-18-4	
Toluene	ND	ug/L	1.0	0.29	1		06/13/17 14:08	108-88-3	
Trichloroethene	ND	ug/L	1.0	0.50	1		06/13/17 14:08	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.21	1		06/13/17 14:08	75-01-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.48	1		06/13/17 14:08	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.37	1		06/13/17 14:08	10061-01-5	
m&p-Xylene	ND	ug/L	2.0	0.70	1		06/13/17 14:08	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.37	1		06/13/17 14:08	95-47-6	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.32	1		06/13/17 14:08	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.74	1		06/13/17 14:08	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	81-119		1		06/13/17 14:08	460-00-4	
1,2-Dichloroethane-d4 (S)	84	%	77-126		1		06/13/17 14:08	17060-07-0	
Toluene-d8 (S)	102	%	84-115		1		06/13/17 14:08	2037-26-5	
Dibromofluoromethane (S)	91	%	70-130		1		06/13/17 14:08	1868-53-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: National Grid - Rome Kingsley
Pace Project No.: 30221243

QC Batch: 261863 Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1 Analysis Description: 245.1 Mercury
Associated Lab Samples: 30221243001

METHOD BLANK: 1289324 Matrix: Water
Associated Lab Samples: 30221243001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000017	06/14/17 23:54	

LABORATORY CONTROL SAMPLE: 1289325

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	.001	0.0010	104	85-115	

MATRIX SPIKE SAMPLE: 1289327

Parameter	Units	30221145001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	ND	.0025	0.0025	101	70-130	

MATRIX SPIKE SAMPLE: 1289329

Parameter	Units	30221410001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	ND	.0025	0.0024	97	70-130	

SAMPLE DUPLICATE: 1289326

Parameter	Units	30221145001 Result	Dup Result	RPD	Max RPD	Qualifiers
Mercury	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 1289328

Parameter	Units	30221410001 Result	Dup Result	RPD	Max RPD	Qualifiers
Mercury	mg/L	ND	ND		20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: National Grid - Rome Kingsley
Pace Project No.: 30221243

QC Batch: 261632
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Total
Associated Lab Samples: 30221243001

METHOD BLANK: 1288436
Matrix: Water
Associated Lab Samples: 30221243001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.0050	0.0030	06/14/17 11:04	
Cadmium	mg/L	ND	0.0030	0.00032	06/14/17 11:04	
Chromium	mg/L	ND	0.0050	0.00058	06/14/17 11:04	
Copper	mg/L	ND	0.0050	0.0015	06/14/17 11:04	
Lead	mg/L	ND	0.0050	0.0025	06/14/17 11:04	
Nickel	mg/L	ND	0.010	0.0012	06/14/17 11:04	
Silver	mg/L	ND	0.0060	0.00067	06/14/17 11:04	
Zinc	mg/L	ND	0.010	0.0010	06/14/17 11:04	

LABORATORY CONTROL SAMPLE: 1288437

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	.5	0.49	97	85-115	
Cadmium	mg/L	.5	0.51	102	85-115	
Chromium	mg/L	.5	0.53	106	85-115	
Copper	mg/L	.5	0.50	100	85-115	
Lead	mg/L	.5	0.48	97	85-115	
Nickel	mg/L	.5	0.52	104	85-115	
Silver	mg/L	.25	0.25	100	85-115	
Zinc	mg/L	.5	0.53	106	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1288439 1288440

Parameter	Units	30220966001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	ND	.5	.5	0.51	0.52	101	103	70-130	1	20	
Cadmium	mg/L	ND	.5	.5	0.52	0.52	103	105	70-130	1	20	
Chromium	mg/L	ND	.5	.5	0.50	0.50	100	100	70-130	1	20	
Copper	mg/L	9.2 ug/L	.5	.5	0.50	0.51	99	99	70-130	1	20	
Lead	mg/L	ND	.5	.5	0.48	0.49	96	98	70-130	2	20	
Nickel	mg/L	ND	.5	.5	0.49	0.49	97	98	70-130	2	20	
Silver	mg/L	ND	.25	.25	0.25	0.26	101	106	70-130	5	20	
Zinc	mg/L	ND	.5	.5	0.52	0.53	104	105	70-130	1	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: National Grid - Rome Kingsley
Pace Project No.: 30221243

MATRIX SPIKE SAMPLE: 1288442

Parameter	Units	30221028001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	8.4 ug/L	.5	0.51	101	70-130	
Cadmium	mg/L	ND	.5	0.52	105	70-130	
Chromium	mg/L	ND	.5	0.50	100	70-130	
Copper	mg/L	ND	.5	0.51	102	70-130	
Lead	mg/L	ND	.5	0.49	97	70-130	
Nickel	mg/L	ND	.5	0.52	104	70-130	
Silver	mg/L	ND	.25	0.26	102	70-130	
Zinc	mg/L	ND	.5	0.52	104	70-130	

SAMPLE DUPLICATE: 1288438

Parameter	Units	30220966001 Result	Dup Result	RPD	Max RPD	Qualifiers
Arsenic	mg/L	ND	ND		20	
Cadmium	mg/L	ND	ND		20	
Chromium	mg/L	ND	.0006J		20	
Copper	mg/L	9.2 ug/L	0.011	14	20	
Lead	mg/L	ND	ND		20	
Nickel	mg/L	ND	ND		20	
Silver	mg/L	ND	.00069J		20	
Zinc	mg/L	ND	.0027J		20	

SAMPLE DUPLICATE: 1288441

Parameter	Units	30221028001 Result	Dup Result	RPD	Max RPD	Qualifiers
Arsenic	mg/L	8.4 ug/L	0.0068	20	20	
Cadmium	mg/L	ND	ND		20	
Chromium	mg/L	ND	ND		20	
Copper	mg/L	ND	ND		20	
Lead	mg/L	ND	ND		20	
Nickel	mg/L	ND	.0046J		20	
Silver	mg/L	ND	ND		20	
Zinc	mg/L	ND	ND		20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: National Grid - Rome Kingsley
Pace Project No.: 30221243

QC Batch: 261727 Analysis Method: EPA 8260C
QC Batch Method: EPA 8260C Analysis Description: 8260C MSV
Associated Lab Samples: 30221243001, 30221243002

METHOD BLANK: 1288724 Matrix: Water
Associated Lab Samples: 30221243001, 30221243002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	0.22	06/13/17 13:40	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	0.19	06/13/17 13:40	
1,1,2-Trichloroethane	ug/L	ND	1.0	0.45	06/13/17 13:40	
1,1-Dichloroethane	ug/L	ND	1.0	0.34	06/13/17 13:40	
1,1-Dichloroethene	ug/L	ND	1.0	0.20	06/13/17 13:40	
1,2-Dichloroethane	ug/L	ND	1.0	0.36	06/13/17 13:40	
1,2-Dichloropropane	ug/L	ND	1.0	0.62	06/13/17 13:40	
2-Butanone (MEK)	ug/L	ND	10.0	5.5	06/13/17 13:40	IH
2-Hexanone	ug/L	ND	10.0	1.7	06/13/17 13:40	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	1.7	06/13/17 13:40	
Acetone	ug/L	ND	10.0	3.8	06/13/17 13:40	
Benzene	ug/L	ND	1.0	0.35	06/13/17 13:40	
Bromodichloromethane	ug/L	ND	1.0	0.43	06/13/17 13:40	
Bromoform	ug/L	ND	1.0	0.40	06/13/17 13:40	
Bromomethane	ug/L	ND	1.0	0.90	06/13/17 13:40	IH
Carbon disulfide	ug/L	ND	1.0	0.25	06/13/17 13:40	
Carbon tetrachloride	ug/L	ND	1.0	0.32	06/13/17 13:40	
Chlorobenzene	ug/L	ND	1.0	0.19	06/13/17 13:40	
Chloroethane	ug/L	ND	1.0	0.42	06/13/17 13:40	
Chloroform	ug/L	ND	1.0	0.33	06/13/17 13:40	
Chloromethane	ug/L	ND	1.0	0.32	06/13/17 13:40	
cis-1,2-Dichloroethene	ug/L	ND	1.0	0.48	06/13/17 13:40	
cis-1,3-Dichloropropene	ug/L	ND	1.0	0.37	06/13/17 13:40	
Dibromochloromethane	ug/L	ND	1.0	0.35	06/13/17 13:40	
Ethylbenzene	ug/L	ND	1.0	0.21	06/13/17 13:40	
m&p-Xylene	ug/L	ND	2.0	0.70	06/13/17 13:40	
Methylene Chloride	ug/L	ND	1.0	0.59	06/13/17 13:40	
o-Xylene	ug/L	ND	1.0	0.37	06/13/17 13:40	
Styrene	ug/L	ND	1.0	0.18	06/13/17 13:40	
Tetrachloroethene	ug/L	ND	1.0	0.33	06/13/17 13:40	
Toluene	ug/L	ND	1.0	0.29	06/13/17 13:40	
TOTAL BTEX	ug/L	ND	6.0	1.9	06/13/17 13:40	
trans-1,2-Dichloroethene	ug/L	ND	1.0	0.32	06/13/17 13:40	
trans-1,3-Dichloropropene	ug/L	ND	1.0	0.74	06/13/17 13:40	
Trichloroethene	ug/L	ND	1.0	0.50	06/13/17 13:40	
Vinyl chloride	ug/L	ND	1.0	0.21	06/13/17 13:40	
Xylene (Total)	ug/L	ND	3.0	1.1	06/13/17 13:40	
1,2-Dichloroethane-d4 (S)	%	83	77-126		06/13/17 13:40	
4-Bromofluorobenzene (S)	%	103	81-119		06/13/17 13:40	
Dibromofluoromethane (S)	%	90	70-130		06/13/17 13:40	
Toluene-d8 (S)	%	101	84-115		06/13/17 13:40	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: National Grid - Rome Kingsley
Pace Project No.: 30221243

LABORATORY CONTROL SAMPLE: 1288725

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	16.0	80	67-129	
1,1,2,2-Tetrachloroethane	ug/L	20	22.7	114	58-128	
1,1,2-Trichloroethane	ug/L	20	20.0	100	69-120	
1,1-Dichloroethane	ug/L	20	18.9	94	66-129	
1,1-Dichloroethene	ug/L	20	16.9	84	59-133	
1,2-Dichloroethane	ug/L	20	14.8	74	66-123	
1,2-Dichloropropane	ug/L	20	18.8	94	69-121	
2-Butanone (MEK)	ug/L	20	22.7	114	57-126	IH
2-Hexanone	ug/L	20	21.3	107	57-129	
4-Methyl-2-pentanone (MIBK)	ug/L	20	19.0	95	65-119	
Acetone	ug/L	20	11.6	58	35-113	
Benzene	ug/L	20	19.2	96	69-115	
Bromodichloromethane	ug/L	20	18.5	93	69-132	
Bromoform	ug/L	20	19.6	98	52-142	
Bromomethane	ug/L	20	26.4	132	14-151	IH
Carbon disulfide	ug/L	20	16.6	83	53-156	
Carbon tetrachloride	ug/L	20	15.0	75	65-138	
Chlorobenzene	ug/L	20	20.0	100	69-120	
Chloroethane	ug/L	20	21.7	109	62-134	
Chloroform	ug/L	20	17.1	86	67-123	
Chloromethane	ug/L	20	22.1	111	54-143	
cis-1,2-Dichloroethene	ug/L	20	17.8	89	66-122	
cis-1,3-Dichloropropene	ug/L	20	18.7	94	64-125	
Dibromochloromethane	ug/L	20	19.6	98	61-135	
Ethylbenzene	ug/L	20	19.8	99	71-116	
m&p-Xylene	ug/L	40	41.2	103	74-118	
Methylene Chloride	ug/L	20	18.3	91	56-130	
o-Xylene	ug/L	20	21.1	105	71-119	
Styrene	ug/L	20	20.5	102	71-129	
Tetrachloroethene	ug/L	20	18.4	92	62-122	
Toluene	ug/L	20	20.1	101	70-115	
TOTAL BTEX	ug/L		121			
trans-1,2-Dichloroethene	ug/L	20	18.2	91	63-130	
trans-1,3-Dichloropropene	ug/L	20	19.8	99	62-122	
Trichloroethene	ug/L	20	18.5	92	61-126	
Vinyl chloride	ug/L	20	22.4	112	58-127	
Xylene (Total)	ug/L	60	62.3	104	73-118	
1,2-Dichloroethane-d4 (S)	%			78	77-126	
4-Bromofluorobenzene (S)	%			103	81-119	
Dibromofluoromethane (S)	%			93	70-130	
Toluene-d8 (S)	%			104	84-115	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: National Grid - Rome Kingsley
Pace Project No.: 30221243

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1288863 1288864

Parameter	Units	30221243001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	20	20	16.4	16.8	82	84	54-140	2	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	22.6	22.4	113	112	54-124	1	30	
1,1,2-Trichloroethane	ug/L	ND	20	20	19.9	20.5	100	102	58-120	3	30	
1,1-Dichloroethane	ug/L	ND	20	20	18.7	18.6	93	93	55-133	0	30	
1,1-Dichloroethene	ug/L	ND	20	20	17.5	17.3	87	87	48-141	1	30	
1,2-Dichloroethane	ug/L	ND	20	20	15.0	15.0	75	75	58-123	0	30	
1,2-Dichloropropane	ug/L	ND	20	20	18.8	17.9	94	89	55-125	5	30	
2-Butanone (MEK)	ug/L	ND	20	20	21.6	22.0	108	110	43-128	2	30	IH
2-Hexanone	ug/L	ND	20	20	18.7	20.4	93	102	43-135	9	30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	20	20	16.7	18.9	83	94	47-123	12	30	
Acetone	ug/L	ND	20	20	17.5	17.5	87	87	10-150	0	30	
Benzene	ug/L	61.1	20	20	78.8	79.6	89	92	63-123	1	30	
Bromodichloromethane	ug/L	ND	20	20	17.3	17.9	86	90	55-127	4	30	
Bromoform	ug/L	ND	20	20	17.4	17.3	87	87	44-131	0	30	
Bromomethane	ug/L	ND	20	20	19.8	24.9	99	124	10-149	23	30	IH
Carbon disulfide	ug/L	ND	20	20	10.3	13.0	51	65	47-158	23	30	
Carbon tetrachloride	ug/L	ND	20	20	16.3	16.1	81	80	44-155	1	30	
Chlorobenzene	ug/L	ND	20	20	19.2	19.4	96	97	57-121	1	30	
Chloroethane	ug/L	ND	20	20	23.1	24.5	116	123	57-156	6	30	
Chloroform	ug/L	ND	20	20	17.8	17.6	89	88	56-132	1	30	
Chloromethane	ug/L	ND	20	20	22.8	23.6	114	118	42-163	4	30	
cis-1,2-Dichloroethene	ug/L	ND	20	20	19.0	19.4	95	97	46-139	2	30	
cis-1,3-Dichloropropene	ug/L	ND	20	20	17.9	17.6	90	88	55-119	2	30	
Dibromochloromethane	ug/L	ND	20	20	18.3	18.8	91	94	52-129	3	30	
Ethylbenzene	ug/L	5.0	20	20	23.6	23.8	93	94	70-120	1	30	
m&p-Xylene	ug/L	2.2	40	40	41.1	41.3	97	98	70-123	0	30	
Methylene Chloride	ug/L	ND	20	20	14.9	16.7	75	84	38-134	12	30	
o-Xylene	ug/L	1.2	20	20	21.3	21.1	101	99	68-122	1	30	
Styrene	ug/L	ND	20	20	21.5	21.4	107	107	49-135	0	30	
Tetrachloroethene	ug/L	ND	20	20	18.4	19.1	92	96	53-125	4	30	
Toluene	ug/L	9.5	20	20	29.0	28.8	98	96	66-124	1	30	
TOTAL BTEX	ug/L	79.0			194	194				0		
trans-1,2-Dichloroethene	ug/L	ND	20	20	16.8	17.8	84	89	52-136	6	30	
trans-1,3-Dichloropropene	ug/L	ND	20	20	18.0	17.9	90	89	54-118	1	30	
Trichloroethene	ug/L	ND	20	20	19.0	18.7	95	94	50-127	1	30	
Vinyl chloride	ug/L	ND	20	20	23.3	23.6	117	118	54-149	1	30	
Xylene (Total)	ug/L	3.4	60	60	62.4	62.4	98	98	68-123	0	30	
1,2-Dichloroethane-d4 (S)	%						83	85	77-126			
4-Bromofluorobenzene (S)	%						103	105	81-119			
Dibromofluoromethane (S)	%						93	92	70-130			
Toluene-d8 (S)	%						103	102	84-115			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: National Grid - Rome Kingsley
Pace Project No.: 30221243

QC Batch: 261784
QC Batch Method: EPA 3510C
Analysis Method: EPA 8270D by SIM
Analysis Description: 8270D Water PAH by SIM MSSV
Associated Lab Samples: 30221243001

METHOD BLANK: 1288963 Matrix: Water
Associated Lab Samples: 30221243001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Acenaphthene	ug/L	ND	0.10	0.027	06/19/17 12:14	
Acenaphthylene	ug/L	ND	0.10	0.034	06/19/17 12:14	
Anthracene	ug/L	ND	0.10	0.046	06/19/17 12:14	
Benzo(a)anthracene	ug/L	ND	0.10	0.048	06/19/17 12:14	
Benzo(a)pyrene	ug/L	ND	0.10	0.034	06/19/17 12:14	
Benzo(b)fluoranthene	ug/L	ND	0.10	0.035	06/19/17 12:14	
Benzo(g,h,i)perylene	ug/L	ND	0.10	0.038	06/19/17 12:14	
Benzo(k)fluoranthene	ug/L	ND	0.10	0.036	06/19/17 12:14	
Chrysene	ug/L	ND	0.10	0.036	06/19/17 12:14	
Dibenz(a,h)anthracene	ug/L	ND	0.10	0.031	06/19/17 12:14	
Fluoranthene	ug/L	ND	0.10	0.061	06/19/17 12:14	
Fluorene	ug/L	ND	0.10	0.026	06/19/17 12:14	
Indeno(1,2,3-cd)pyrene	ug/L	ND	0.10	0.035	06/19/17 12:14	
Naphthalene	ug/L	ND	0.10	0.061	06/19/17 12:14	
Phenanthrene	ug/L	ND	0.10	0.037	06/19/17 12:14	
Pyrene	ug/L	ND	0.10	0.056	06/19/17 12:14	
2-Fluorobiphenyl (S)	%	64	19-123		06/19/17 12:14	
Terphenyl-d14 (S)	%	80	58-130		06/19/17 12:14	

LABORATORY CONTROL SAMPLE: 1288964

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acenaphthene	ug/L	2	1.4	71	48-104	
Acenaphthylene	ug/L	2	1.6	79	44-109	
Anthracene	ug/L	2	1.6	78	49-112	
Benzo(a)anthracene	ug/L	2	1.6	80	63-109	
Benzo(a)pyrene	ug/L	2	1.5	77	51-98	
Benzo(b)fluoranthene	ug/L	2	1.7	83	41-139	
Benzo(g,h,i)perylene	ug/L	2	1.6	79	44-124	
Benzo(k)fluoranthene	ug/L	2	1.5	77	58-125	
Chrysene	ug/L	2	1.4	72	62-115	
Dibenz(a,h)anthracene	ug/L	2	1.7	84	55-124	
Fluoranthene	ug/L	2	1.7	84	65-112	
Fluorene	ug/L	2	1.6	79	49-108	
Indeno(1,2,3-cd)pyrene	ug/L	2	1.7	83	54-125	
Naphthalene	ug/L	2	1.4	68	42-107	
Phenanthrene	ug/L	2	1.4	71	50-109	
Pyrene	ug/L	2	1.7	83	64-109	
2-Fluorobiphenyl (S)	%			71	19-123	
Terphenyl-d14 (S)	%			86	58-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: National Grid - Rome Kingsley
Pace Project No.: 30221243

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1288965 1288966

Parameter	Units	30221123016 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Acenaphthene	ug/L	4.3	2.1	2.1	6.7	7.0	117	135	48-104	5	20	MH
Acenaphthylene	ug/L	0.23	2.1	2.1	1.2	1.3	49	50	44-109	1	20	
Anthracene	ug/L	ND	2.1	2.1	1.2	1.0	57	48	49-112	16	20	ML
Benzo(a)anthracene	ug/L	ND	2.1	2.1	1.5	1.1	70	53	63-109	26	20	ML,R1
Benzo(a)pyrene	ug/L	ND	2.1	2.1	1.4	1.1	67	51	51-98	27	20	R1
Benzo(b)fluoranthene	ug/L	ND	2.1	2.1	1.4	1.1	70	56	41-139	22	20	R1
Benzo(g,h,i)perylene	ug/L	ND	2.1	2.1	1.3	1.0	63	51	44-124	22	20	R1
Benzo(k)fluoranthene	ug/L	ND	2.1	2.1	1.3	1.0	65	50	58-125	27	20	ML,R1
Chrysene	ug/L	ND	2.1	2.1	1.3	1.0	62	48	62-115	25	20	ML,R1
Dibenz(a,h)anthracene	ug/L	ND	2.1	2.1	1.4	1.1	66	52	55-124	24	20	ML,R1
Fluoranthene	ug/L	0.62	2.1	2.1	2.7	2.1	101	73	65-112	24	20	R1
Fluorene	ug/L	0.35	2.1	2.1	1.5	1.5	57	54	49-108	5	20	
Indeno(1,2,3-cd)pyrene	ug/L	ND	2.1	2.1	1.4	1.1	66	52	54-125	24	20	ML,R1
Naphthalene	ug/L	0.17	2.1	2.1	0.95	0.98	38	39	42-107	3	20	ML
Phenanthrene	ug/L	0.22	2.1	2.1	1.4	1.2	58	45	50-109	20	20	ML
Pyrene	ug/L	0.71	2.1	2.1	2.9	2.2	107	74	64-109	26	20	R1
2-Fluorobiphenyl (S)	%						37	39	19-123		20	
Terphenyl-d14 (S)	%						72	56	58-130		20	SR

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: National Grid - Rome Kingsley
Pace Project No.: 30221243

QC Batch: 261865 Analysis Method: EPA 335.4
QC Batch Method: EPA 335.4 Analysis Description: 335.4 Cyanide, Total
Associated Lab Samples: 30221243001

METHOD BLANK: 1289330 Matrix: Water
Associated Lab Samples: 30221243001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Cyanide	mg/L	ND	0.010	0.0020	06/15/17 18:38	

LABORATORY CONTROL SAMPLE: 1289331

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	.2	0.20	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1289332 1289333

Parameter	Units	30221243001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide	mg/L	0.084	.1	.1	0.18	0.19	101	103	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1289334 1289335

Parameter	Units	30221123016 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide	mg/L	ND	.1	.1	0.10	0.10	96	96	90-110	0	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: National Grid - Rome Kingsley
Pace Project No.: 30221243

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-PA	Pace Analytical Services - Greensburg

ANALYTE QUALIFIERS

IH	This analyte exceeded secondary source verification criteria high for the initial calibration. The reported results should be considered an estimated value.
MH	Matrix spike recovery and/or matrix spike duplicate recovery was above laboratory control limits. Result may be biased high.
ML	Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.
R1	RPD value was outside control limits.
SR	Surrogate recovery was below laboratory control limits. Results may be biased low.

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: National Grid - Rome Kingsley
Pace Project No.: 30221243

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30221243001	**Effluent System 0617**	EPA 200.7	261632	EPA 200.7	261734
30221243001	**Effluent System 0617**	EPA 245.1	261863	EPA 245.1	261899
30221243001	**Effluent System 0617**	EPA 3510C	261784	EPA 8270D by SIM	262248
30221243001	**Effluent System 0617**	EPA 8260C	261727		
30221243002	**Trip Blank**	EPA 8260C	261727		
30221243001	**Effluent System 0617**	EPA 335.4	261865	EPA 335.4	262052

Pace Analytical™
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

30221243

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: GES - Syracuse	Report To: Mark Boorady (GES) mboorady@gesonline.com	Attention: Accounts Payable via email at ges-invoices@gesonline.com
Address: 5 Technology Place, Suite 4	Copy To:	Company Name: Groundwater & Environmental Services, Inc.
East Syracuse, New York 13057		Address: 5 Technology Place, Suite 4, East Syracuse, NY 13057
Email To: mboorady@gesonline.com	Purchase Order No.:	Pace Quote Reference:
Phone: 800.220.3069, x4065 / Fax: None	Project Name: National Grid - Rome Kingsley Ave. Site, Rome, NY	Pace Project Manager: Rachel Christner
Requested Due Date/TAT: Standard	Project Number: 06-02882-134400-221-1106	Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER ____

SITE LOCATION: ☐ GA ☐ IL ☐ IN ☐ MI ☐ NC ☐ OH ☐ SC ☐ WI ☐ OTHER ____

Filtered (Y/N)

Requested Analysis:

Section D Required Client Information

SAMPLE ID
One Character per box.
(A-Z, 0-9 / ,-)
Samples IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED GRAB DATE	COLLECTED GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	BTEX (8260C) and Total Toxic Organics	SVOCs (PAHs) (8270D)	Cyanide, Total (335.4)	Metals, Total (As, Cd, Cr, Cu, Pb, Ni, Ag, Zn, Hg) (200.7)	pH (SM4500-H+)	Pace Project Number Lab I.D.
1	Effluent System 0617	WT	G			6/7/17	14:30		7 +2	2	+2	1	3	1				3	2 +2	1	1	✱	001
2	Trip Blank	WT	G			↓	14:30		3				3					3					002
3	---END OF RECORD---																						
4																							
5																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							

WO#: 30221243

30221243

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
[signature]	6/7/17	17:45	GES Fridge	6/7/17	17:45		Y/N	Y/N	Y/N
GES Fridge	6/8/17	12:00	[signature] PACE	6/8/17	12:00		Y/N	Y/N	Y/N
[signature] PACE	6/8/17	17:15	[signature] PACE	6/10/17	1000	4.7	Ⓨ/N	Ⓨ/N	Ⓨ/N
							Y/N	Y/N	Y/N
						Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact

Additional Comments:

SAMPLES WILL ARRIVE IN # ____ COOLERS.

Please send reports to: mboorady@gesonline.com, syracuselabs@gesonline.com, ges@equisonline.com

SPECIFIC EDD NAME:
NGRome-labnumber.28351.EQEDD.zip

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 6/7/17

E-File,(ALLQ020rev.3,31Mar05), 13Jun2005

Sample Condition Upon Receipt Pittsburgh

Pace Analytical

Client Name: GES Project # 30221243

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: 779347020801

Custody Seal on Cooler/Box Present: ☑ yes ☐ no Seals intact: ☑ yes ☐ no

Thermometer Used 7 Type of Ice: (Wet) Blue None

Cooler Temperature Observed Temp 4.7 °C Correction Factor: +0.0 °C Final Temp: 4.7 °C

Temp should be above freezing to 6°C

Date and Initials of person examining contents: ARM 01/10/17

Comments:	Yes	No	N/A	
Chain of Custody Present:	✓			1.
Chain of Custody Filled Out:	✓			2.
Chain of Custody Relinquished:	✓			3.
Sampler Name & Signature on COC:	✓			4.
Sample Labels match COC: -Includes date/time/ID Matrix: WT		✓		5. Time on bottles is 1630.
Samples Arrived within Hold Time:	✓			6.
Short Hold Time Analysis (<72hr remaining):		✓		7.
Rush Turn Around Time Requested:	✓	✓		8. ARM 01/10/17
Sufficient Volume:	✓			9.
Correct Containers Used: -Pace Containers Used:	✓ ✓			10.
Containers Intact:	✓			11.
Orthophosphate field filtered			✓	12.
Organic Samples checked for dechlorination:	✓			13.
Filtered volume received for Dissolved tests			✓	14.
All containers have been checked for preservation. All containers needing preservation are found to be in compliance with EPA recommendation.	✓ ✓			15.
exceptions: (VOA), coliform, TOC, O&G, Phenolics				Initial when completed ARM Date/time of preservation; Lot # of added preservative
Headspace in VOA Vials (>6mm):		✓		16.
Trip Blank Present: Trip Blank Custody Seals Present	✓ ✓			17.
Rad Aqueous Samples Screened > 0.5 mrem/hr			✓	Initial when completed: Date:

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

☐ **A check in this box indicates that additional information has been stored in ereports.**

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.