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.

Ms. Alexandra Servis July 31, 2017 Page 2 of 2

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,

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-0U2-1, MW-0U2-4, 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 2 nd Quarter	3,593,500
2016 3rd Quarter	3,157,820
2016 4 th Quarter	3,438,790
2017 1st Quarter	3,706,351
2017 2 nd 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.

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 Quarterly Inspection; Quarterly Static Water Level
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	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 Quarterly Inspection; Quarterly Static Water Level
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	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 Quarterly Inspection; Quarterly Static Water Level
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	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		6	SS	NA	50.91	388.53	4.0	435.44	48.0	391.44	Quarterly Inspection; Quarterly Static Water Level Measurement
					NA										Quarterly Inspection; Quarterly Static Water Level
VTM-4 VTM-5	1170558.5060 1170616.4890	1121416.3693	439.3	441.59 441.79	NA NA	6	SS	NA NA	50.62 52.52	390.97 389.27	9.0 5.0	432.59 436.79	49.0 51.0	392.59 390.79	Measurement Quarterly Inspection; Quarterly Static Water Level Measurement
******	1170010.4030	1121403.0073	433.0	442.73		Ü	- 55		32.32	303.27	5.0	430.73	31.0	330.73	
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 Quarterly Inspection; Quarterly Static Water Level
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	Measurement; Quarterly Sampling Quarterly Inspection; Quarterly Static Water Level
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	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 Quarterly Inspection; Quarterly Static Water Level
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	Measurement; Quarterly Sampling Quarterly Inspection; Quarterly Static Water Level
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	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

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 2-2Static Water Level Data

Well: TOC =		OU2-1 5.72	Well: TOC =		OU2-2 6.40	Well: TOC =		OU2-3 2.96	Well: TOC =		OU2-4 2.88	Well: TOC =		OU2-5 3.46
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

July 24, 2017



Table 2-2Static Water Level Data

Well: TOC =		PL-02 6.81	Well: TOC =		PL-03 7.23	Well: TOC =	,	PL-04 8.50	Well: TOC =		APL-05 0.60
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 2-2Static Water Level Data

Well:		PL-06	Well:		PL-07	Well:		PL-08	Well:		PL-09
TOC =		9.71	TOC =		1.46	TOC =		1.80	TOC =		2.63
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 2-2Static Water Level Data

Well:		M-1	Well:		M-2	Well:		M-3	Well:		M-4	Well:		'M-5
TOC =	439	9.74	TOC =		8.33	TOC =		9.44	TOC =	44	1.59	TOC =		1.79
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

July 24, 2017



Table 2-2Static Water Level Data

Well TOC =		W-D01 4.90		W-S01 5.52		W-D02 6.74		W-S02 6.79		W-D03 1.27		W-S03 1.43		W-D04 7.18		W-S04 7.24
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 2-2Static Water Level Data

Well TOC =		W-D05 7.78		W-S05 7.92		W-D06 1.70		W-S06 1.64		W-S07 9.70		W-S08 3.81		W-S09 9.79		W-S10 9.67
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

July 24, 2017

Table 2-3 Groundwater Analytical Data

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	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										
Benzo(a)anthracene	N/A	0.002	4.9	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										
Benzo(b)fluoranthene	N/A	0.002	4.9	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										
Benzo(k)fluoranthene	N/A	0.002	4.9	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										
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										
Fluoranthene	N/A	50	4.9	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	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										
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										
Pyrene	N/A	50	4.9	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										
Lead	N/A	25	5	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										

Table 2-3 Groundwater Analytical Data

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	3600	ND	ND	ND	ND														
Toluene	1000	5	1	ND	470	ND	ND	ND	ND																
Ethylbenzene	700	5	1	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										
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	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										
Benzo(a)pyrene	N/A	ND	4.9	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										
Benzo(g,h,i)perylene	0.2	NA	4.9	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										
Chrysene	N/A	0.002	4.9	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										
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										
Naphthalene	N/A	10	4.9	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										
Lead	N/A	25	5	ND	ND	ND	8.9	ND	ND	ND	ND	ND	ND	ND	ND										
Zinc	N/A	2000	10	ND	ND	ND	28	ND	ND	ND	ND	ND	ND	ND	ND										

Table 2-3 Groundwater Analytical Data

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										
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										
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	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										
Benzo(a)anthracene	N/A	0.002	4.9	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										
Benzo(b)fluoranthene	N/A	0.002	4.9	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										
Benzo(k)fluoranthene	N/A	0.002	4.9	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										
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										
Fluoranthene	N/A	50	4.9	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										
Indeno(1,2,3-cd)pyrene	N/A	50	4.9	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										
Pyrene	N/A	50	4.9	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	11	ND	ND	ND	ND	6	ND	ND	ND	ND	ND	ND	ND	ND							
Zinc	N/A	2000	10	ND	83	ND	ND	0.021	ND	22	110	11	13	61	ND	ND	ND	ND							

Table 2-3 Groundwater Analytical Data

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										
Toluene	1000	5	1	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										
Xylene (total)	10000	5	2	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										
Acenaphthylene	N/A	NA	4.9	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										
Benzo(a)anthracene	N/A	0.002	4.9	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										
Benzo(b)fluoranthene	N/A	0.002	4.9	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										
Benzo(k)fluoranthene	N/A	0.002	4.9	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										
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										
Fluoranthene	N/A	50	4.9	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										
Indeno(1,2,3-cd)pyrene	N/A	50	4.9	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	0.15	ND	ND	ND										
Phenanthrene	N/A	50	4.9	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										
Arsenic	N/A	25	10	25	25	25	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										
Zinc	N/A	2000	10	30	30	30	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND							

Table 2-3 Groundwater Analytical Data

GES

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	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										
Benzo(b)fluoranthene	N/A	0.002	4.9	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										
Benzo(k)fluoranthene	N/A	0.002	4.9	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	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										
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	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										
Lead	N/A	25	5	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						

Table 2-3

Groundwater Analytical Data

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										
Toluene	1000	5	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND										
Ethylbenzene	700	5	1	ND	1.3	ND	ND	ND	ND																
Xylene (total)	10000	5	2	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										
Acenaphthylene	N/A	NA	4.9	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										
Benzo(a)anthracene	N/A	0.002	4.9	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										
Benzo(b)fluoranthene	N/A	0.002	4.9	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										
Benzo(k)fluoranthene	N/A	0.002	4.9	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										
Cyanide	N/A	200	10	ND	72 J	ND	ND	ND	ND	ND	ND	11	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										
Fluoranthene	N/A	50	4.9	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	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										
Naphthalene	N/A	10	4.9	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	0.11	ND										
Pyrene	N/A	50	4.9	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										
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
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

Table 2-3 Groundwater Analytical Data

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										
Toluene	1000	5	1	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										
Xylene (total)	10000	5	2	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										
Acenaphthylene	N/A	NA	4.9	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										
Benzo(a)anthracene	N/A	0.002	4.9	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										
Benzo(b)fluoranthene	N/A	0.002	4.9	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										
Benzo(k)fluoranthene	N/A	0.002	4.9	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										
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
Dibenzo(a,h)anthracene	N/A	50	4.9	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										
Fluorene	N/A	0.002	4.9	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										
Naphthalene	N/A	10	4.9	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										
Pyrene	N/A	50	4.9	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	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
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

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Table 2-3 Groundwater Analytical Data

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										
Toluene	1000	5	1	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										
Xylene (total)	10000	5	2	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										
Acenaphthylene	N/A	NA	4.9	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										
Benzo(a)anthracene	N/A	0.002	4.9	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										
Benzo(b)fluoranthene	N/A	0.002	4.9	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										
Benzo(k)fluoranthene	N/A	0.002	4.9	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										
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										
Fluoranthene	N/A	50	4.9	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										
Indeno(1,2,3-cd)pyrene	N/A	50	4.9	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										
Phenanthrene	N/A	50	4.9	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										
Arsenic	N/A	25	10	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										
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

Table 2-3 Groundwater Analytical Data

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
Toluene	1000	5	1	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										
Xylene (total)	10000	5	2	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										
Acenaphthylene	N/A	NA	4.9	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										
Benzo(a)anthracene	N/A	0.002	4.9	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										
Benzo(b)fluoranthene	N/A	0.002	4.9	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										
Benzo(k)fluoranthene	N/A	0.002	4.9	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										
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
Dibenzo(a,h)anthracene	N/A	50	4.9	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										
Fluorene	N/A	0.002	4.9	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										
Naphthalene	N/A	10	4.9	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										
Pyrene	N/A	50	4.9	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										
Lead	N/A	25	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND										
Zinc	N/A	2000	10	ND	39	ND	ND	0.013	ND	ND	ND	ND													

Table 2-3 Groundwater Analytical Data

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	5800	ND							
Toluene	1000	5	1	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	145	ND
Xylene (total)	10000	5	2	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	0.19	ND										
Acenaphthylene	N/A	NA	4.9	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										
Benzo(a)anthracene	N/A	0.002	4.9	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										
Benzo(b)fluoranthene	N/A	0.002	4.9	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										
Benzo(k)fluoranthene	N/A	0.002	4.9	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										
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										
Fluoranthene	N/A	50	4.9	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	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										
Naphthalene	N/A	10	4.9	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										
Pyrene	N/A	50	4.9	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										
Lead	N/A	25	5	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

Table 2-3 Groundwater Analytical Data

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										
Toluene	1000	5	1	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										
Xylene (total)	10000	5	2	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										
Acenaphthylene	N/A	NA	4.9	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										
Benzo(a)anthracene	N/A	0.002	4.9	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										
Benzo(b)fluoranthene	N/A	0.002	4.9	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										
Benzo(k)fluoranthene	N/A	0.002	4.9	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										
Cyanide	N/A	200	10	ND	ND	ND	34	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.092	ND	ND						
Dibenzo(a,h)anthracene	N/A	50	4.9	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										
Fluorene	N/A	0.002	4.9	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										
Naphthalene	N/A	10	4.9	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										
Pyrene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.1	ND										
Arsenic	N/A	25	10	ND	14	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										
Zinc	N/A	2000	10	ND	12	ND	ND	ND	0.015	ND	ND	ND	ND												

Table 2-3 Groundwater Analytical Data

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										
Toluene	1000	5	1	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										
Xylene (total)	10000	5	2	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										
Acenaphthylene	N/A	NA	4.9	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										
Benzo(a)anthracene	N/A	0.002	4.9	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										
Benzo(b)fluoranthene	N/A	0.002	4.9	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										
Benzo(k)fluoranthene	N/A	0.002	4.9	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										
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										
Fluoranthene	N/A	50	4.9	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										
Indeno(1,2,3-cd)pyrene	N/A	50	4.9	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										
Phenanthrene	N/A	50	4.9	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										
Arsenic	N/A	25	10	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										
Zinc	N/A	2000	10	ND	0.01	0.01	ND	ND	ND	18	ND	ND	ND	ND	ND										

Table 2-3 Groundwater Analytical Data

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										
Toluene	1000	5	1	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										
Xylene (total)	10000	5	2	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										
Acenaphthylene	N/A	NA	4.9	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										
Benzo(a)anthracene	N/A	0.002	4.9	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										
Benzo(b)fluoranthene	N/A	0.002	4.9	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										
Benzo(k)fluoranthene	N/A	0.002	4.9	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										
Cyanide	N/A	200	10	ND	ND	13	13	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										
Fluoranthene	N/A	50	4.9	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										
Indeno(1,2,3-cd)pyrene	N/A	50	4.9	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										
Phenanthrene	N/A	50	4.9	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										
Arsenic	N/A	25	10	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										
Zinc	N/A	2000	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND										

Table 2-3 Groundwater Analytical Data

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	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										
Ethylbenzene	700	5	1	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										
Acenaphthene	N/A	20	4.9	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										
Anthracene	N/A	NA	4.9	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										
Benzo(a)pyrene	N/A	ND	4.9	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										
Benzo(g,h,i)perylene	0.2	NA	4.9	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										
Chrysene	N/A	0.002	4.9	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										
Fluoranthene	N/A	50	4.9	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										
Indeno(1,2,3-cd)pyrene	N/A	50	4.9	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	0.12	ND	ND										
Phenanthrene	N/A	50	4.9	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										
Arsenic	N/A	25	10	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										
Zinc	N/A	2000	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND										

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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										
Toluene	1000	5	1	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										
Xylene (total)	10000	5	2	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										
Acenaphthylene	N/A	NA	4.9	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										
Benzo(a)anthracene	N/A	0.002	4.9	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										
Benzo(b)fluoranthene	N/A	0.002	4.9	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										
Benzo(k)fluoranthene	N/A	0.002	4.9	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										
Cyanide	N/A	200	10	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										
Fluoranthene	N/A	50	4.9	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										
Indeno(1,2,3-cd)pyrene	N/A	50	4.9	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										
Phenanthrene	N/A	50	4.9	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										
Arsenic	N/A	25	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND										
Lead	N/A	25	5	ND	24	ND	ND	ND	11	ND	ND	5.4	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

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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										
Toluene	1000	5	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND										
Ethylbenzene	700	5	1	1.1	ND	1.6	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									
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	0.9	0.96	0.2	0.23										
Anthracene	N/A	NA	4.9	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										
Benzo(a)pyrene	N/A	ND	4.9	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										
Benzo(g,h,i)perylene	0.2	NA	4.9	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										
Chrysene	N/A	0.002	4.9	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										
Dibenzo(a,h)anthracene	N/A	50	4.9	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	2.1	1.5	0.5	0.62										
Fluorene	N/A	0.002	4.9	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										
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	1.4	0.94	ND	0.22										
Pyrene	N/A	50	4.9	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										
Lead	N/A	25	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND										
Zinc	N/A	2000	10	ND	180	ND	0.011	0.011	ND	ND	ND	ND	ND	ND	ND	ND	ND								

National Grid Kingsley Avenue Site Rome, New York

GES

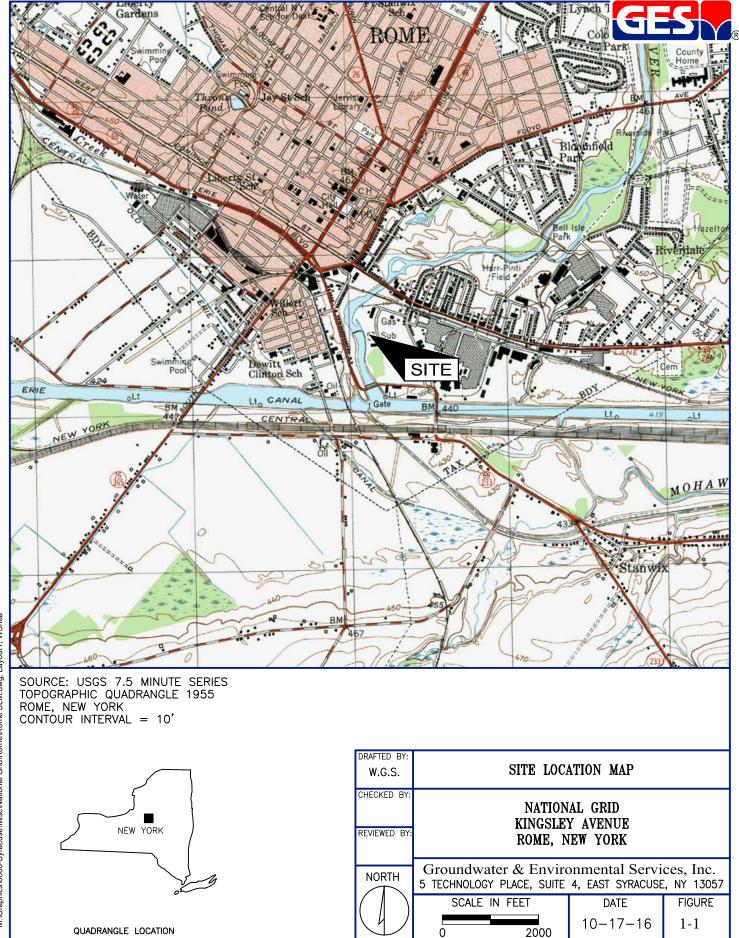
Table 2-4 GW Extraction System Discharge

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<0.0050	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<0.0050	ND<0.010	ND<0.005	ND<0.005									
Copper	1.3	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<0.0050	ND<0.0050	ND<0.005	ND<0.005									
Mercury	0.2	ND<0.0002	ND<0.00020	ND<0.0002	ND<0.0002										
Nickel	1.9	ND<0.01	ND<0.010	ND<0.040	ND<0.010	ND<0.010									
Silver	0.43	ND<0.003	ND<0.0060	ND<0.010	ND<0.006	ND<0.006									
Zinc	2.6	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	NS	NS	NS	NS									
CBOD5	250	ND<2.0	NS	NS	NS	NS									
pН	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

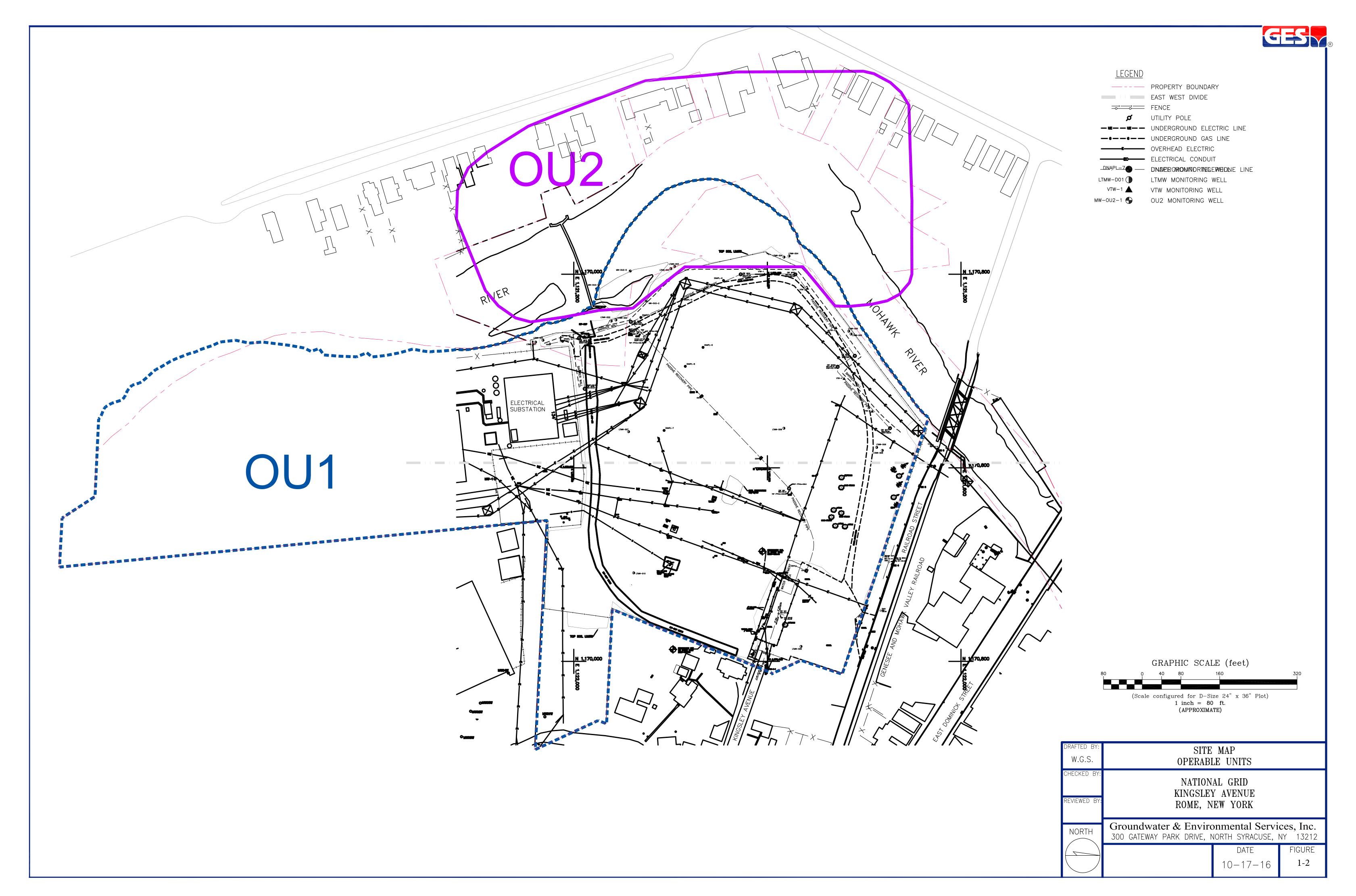
Results in mg/L. NS= Not Sampled NA = Not Analyzed

Figures

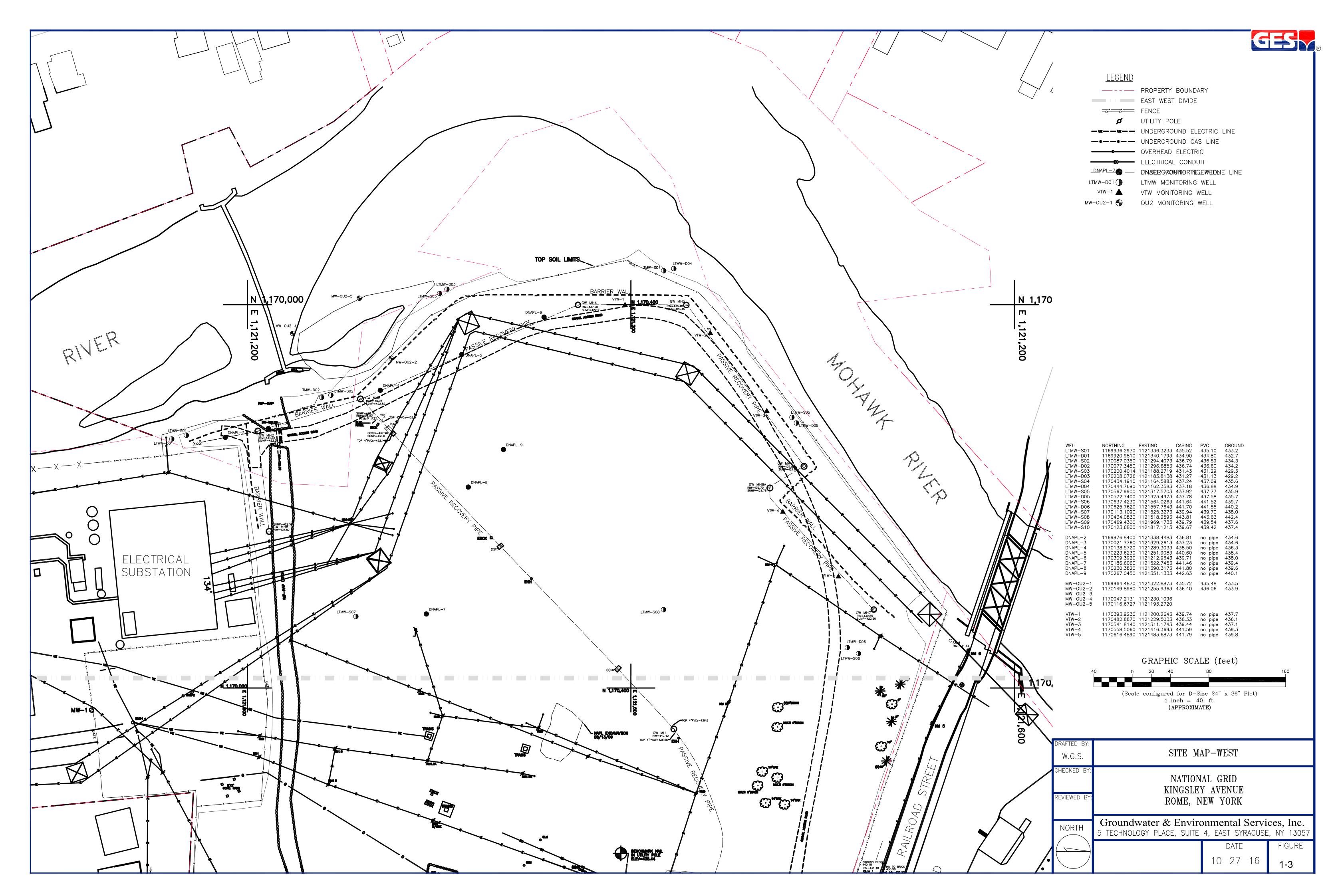




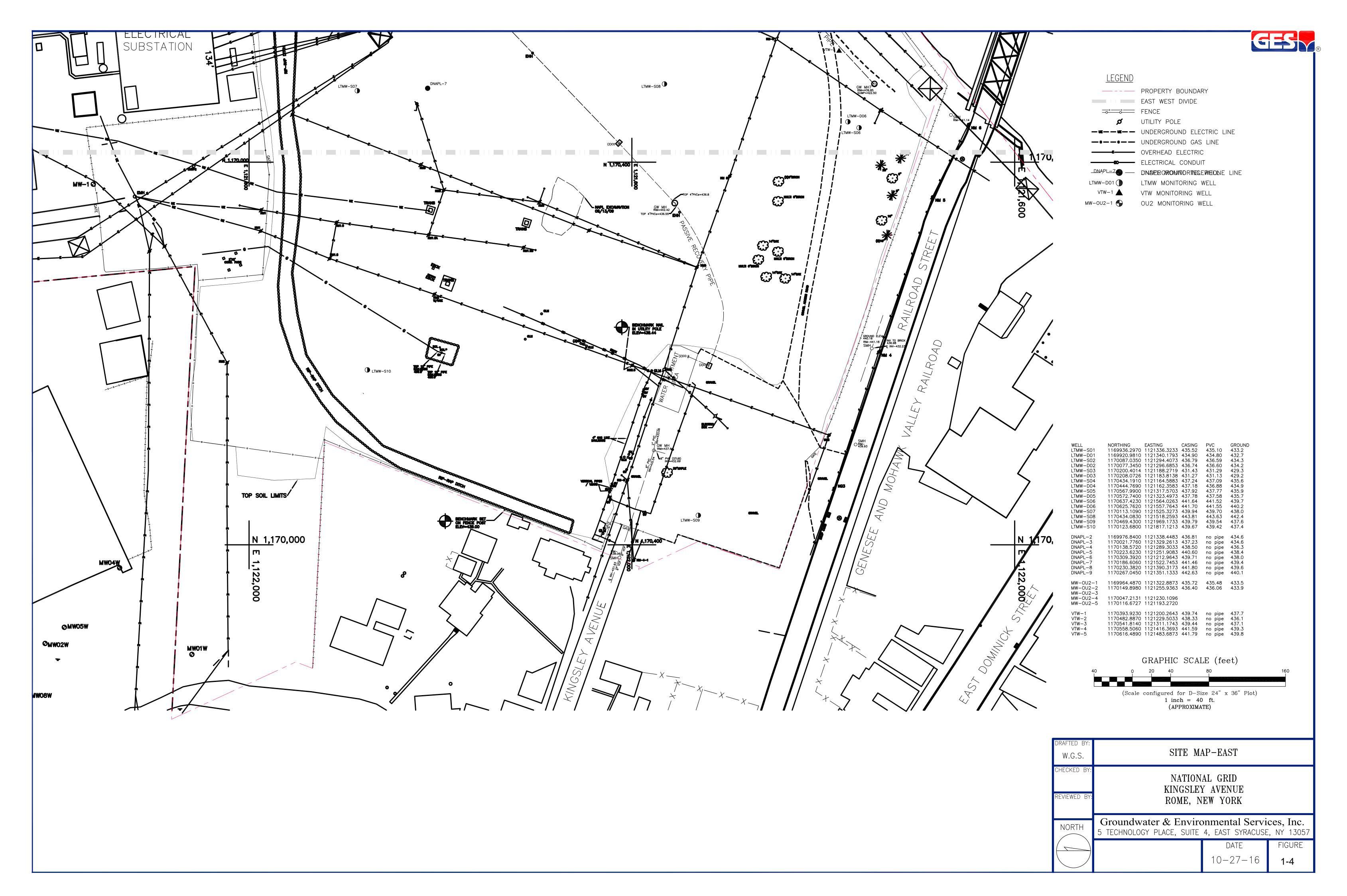
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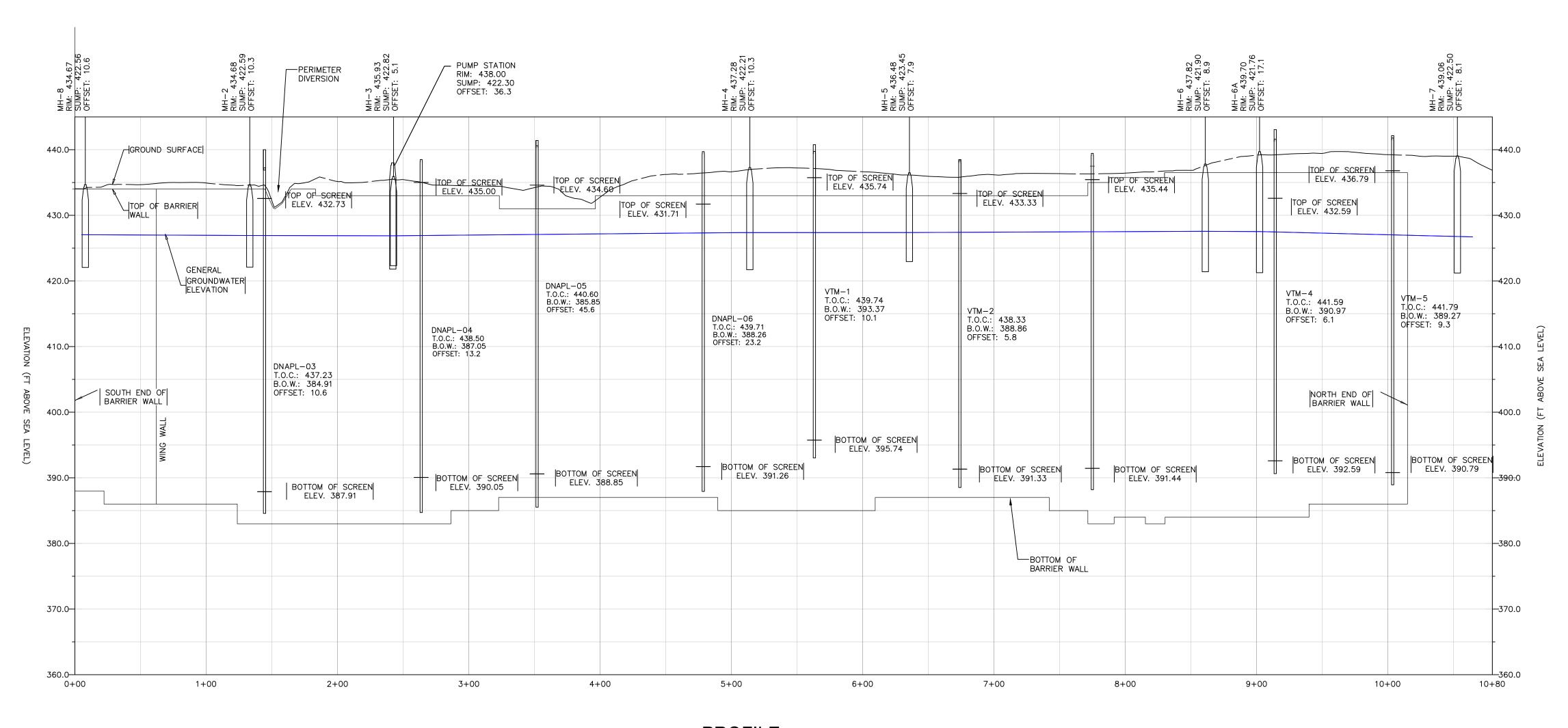


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PROFILE

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.	BARRIER WA	ALL PROFILE	
CHECKED BY:	KINGSLE	AL GRID Y AVENUE IEW YORK	
NORTH	Groundwater & Environment 300 GATEWAY PARK DRIVE, N		,
		DATE 10-17-16	FIGURE 2-1

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Appendix A Field Inspection Report



Date:	6/7/2017	Time:	15:00
Technician:	K. Leo	Weather:	Sunny 70

	Site	Contro	ols		
Fence Condition	GOOD	FA	ΙR	DAMAGED	COMMENTS
Kingsley Ave Gate	GOOD	FA	ΙR	DAMAGED	COMMENTS:
Padlock-NG/CDMSmith	OPERATIO	NAL	NON-C	OPERATIONAL	COMMENTS:
Railroad Ave Gate	GOOD	FA	ΙR	DAMAGED	COMMENTS:
Padlock-NG/CDMSmith	OPERATIO	NAL	NON-0	OPERATIONAL	COMMENTS:

Ve	getation (Sur	face Cover S	System)	
Condition of Grass	GOOD	FAIR	POOR	COMMENTS: Needs mowing
Site Trees	NONE	MINOR	SIGNIFICANT	COMMENTS: 4 dead
Surface Erosion	NONE	MINOR	SIGNIFICANT	COMMENTS:

	Ston	ed 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:

		Drainaç	ge Sys	tems		
Rip Rap Area	Culvert	UNOBSTRUC	CTED	ОВ	STRUCTED	
	Flow	NONE	LIT	TLE	SIGNIFICANT	COMMENTS:
	Outlet Channel	OPERATION	NAL	NON-0	PERATIONAL	COMMENTS:

	Misc	ellanec	ous		
Evidence of Trespassing	NO			YES	COMMENTS:
Litter	NONE	MIN	IOR	SIGNIFICANT	COMMENTS:

General Comments:

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

Appendix B Quarterly Gauging Data



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



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Section A	Section B		Section C													نٿ_	Page:	1 of 2	
Required Client Information:	Required Project Information:		Invoice Information:								-								·
Company: GES - Syracuse	Report To: Mark Boorady (GES) mboorady@gesonline.com		Attention: Accounts Payable via email at ges-invoices@gesonline.com	ible via emait	at ges-invoid	зеѕ@деѕол	line.com							REC	3ULAT(ORY A	REGULATORY AGENCY		
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East Syracuse, New York 13057			Address: 5 Technology Place, Suite 4, East Syracuse, NY 1305	lace, Suite 4,	East Syracus	se, NY 130	57				·	TSU	RCR	Ē.		OTHE			
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Section A	Section B	Section C	υ E													Page.	2	of 2	_
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Phone: Fax: None 800.220.3069, x4065	Project Name: National Grid - Rome Kingsley Pace Project Ave. Site, Rome, NY	ingsley Pace Pr		Manager, Rachel Christner	ner						LOCATION	NOL		0 L	L HO	sclv		OTHER	
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Section A	Section B		Section	tion C																92.60	+0+	- 1	_
Required Client Information:	Required Project Information:		Invoic	Invoice Information:	tion:															5		-	_
Company: GES - Syracuse	Report To: Mark Boorady (GES) mboorady@gesonline.com		Atten	tion: Acc	runts Payat	e via ema	Attention: Accounts Payable via email at ges-invoices@gesonline.com	oices@ges	online.co	E.							REG	ULAT	ORY.	REGULATORY AGENCY			
Address: 5 Technology Place, Suite 4	Сору То:		Com	pany Nam	e: Groundy	vater & En√	Company Name: Groundwater & Environmental Services, Inc.	Services, I	5.		-		T	F NPDES		GROI [©] D WATER	D WATE	ί̈́;	DRIN	DRINÍ 4G WATER	TER.		
East Syracuse, New York 13057			Address:	ess: 5 Tec	hnology Pla	ice, Suite 4	5 Technology Place, Suite 4, East Syracuse, NY 13057	cuse, NY 13	3057				T	T UST	_	RCR			OTHE				
Email To: mboorady@gesonline.com	Purchase Order No.:		Pace	Pace Quote Reference:	ference:								T		SITE	tu.	-	A A A	1	Z	W	Š	1
Phone: Fax: None 800.220.3069, x4065	Project Name: National Grid - Rome Kingsley Ave. Site, Rome, NY	စ္	Pace	Project M	Pace Project Manager: Rachel Christner	chel Christ	ner						T	LOCATION	NO		L	ا ج	r.			œ	
Requested Due Date/TAT: Standard	Project Number: 06-02882-134400-221-1106		Pace	Pace Profile #:									T	Filtered (Y/N)	î								_
Section D Required Client Information SAMPLE ID One Character per box.	1		4800:		COLLECTED	TED .		NC			Preservatives	sevi)	 	Requested Analysis:		***************************************			1000				T
(A-Z, 0-9/1, r) Samples IDs MUST BE UNIQUE			RAB C=	POSITE START	GRAB	8		LLECTIC	SA								ž		(6H 105 ,8				
		OO XIRTAM	9+9 = G+0					oo ta amet e.	#OF CONTAINE							100 100 1 10	TUEBIO ON CO	W QC 103 is in	100 200 200 100 W. A. A. 100 100 100 100 100 100 100 100 100 10				
# M3T1			r alamas	DATE	E E	DATE	TIME	J4MA2		P∂O°¹ Jubueseu∧eq	ICI INO ³	HOH FOSSO	tethanol		TEX (85.8)	OB (SHAD) SOA	one (2) solo (3) solo	The state of the s			۵.	Pace Project Number	5 h c
1 Effluent System 0617	em 0617	₩	9		3	717	35		3,	+2	ч—-	+	+		8 6		***	1			l		;
2 Trip Blank	ınk	×	9				35.27		3		6	\vdash	-		+		—	1	-	-	The state of the s	-	-
sEND OF RECORD	CORD	 					***************************************			F	,		-		2								1
	His Co.											<u> </u>	-		_	<u> </u>				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			7
2	PROPOSITION OF THE RESIDENCE AND THE PROPOSITION OF																						
9		1					***************************************				\dashv		-										
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6		-										+											
.01	The state of the s									-	-	-	_	***************************************		_	1		-				7
	And Code of profession and management of the code of t																	1					-
12	and the second of the second o																						-
Additional Comments:		RELIN	RELINOUISPIED BY		/ ALTE JATION		DATE	THME	ACCLETED BY / AFFILIATION	TED BY	AFFILIF	TION				DATE	TIME		SAMP	E CO	SAMPLE CONDITIONS	NS	1
SAMPLES WILL ARRIVE IN #	COOLERS.	1		leran- gelijijijamiiriseriseriseri			6/7/17	17:21	\											N/A	N/A	N/A	
																				N/A	N/A	N/A	1
Please send reports to: mboorady@gesonline.com,	nline.com,																			N/A	N/A	ΝΆ	ı —
Syracuselabs@gesonline.com, ges@equisonline.com	sonline.com		***************************************																	N/λ	N/Λ	N/A	
SPECIFIC EDD NAME:	:			PR SIG	AMPLER N PRINT Name (LEA SIGNATURE of SA	METERS OF THE AND THE SECOND S	SAMPLER NAME AND SIGNATURE FRINT Name (LEASER) SIGNATURE OF SAMPER.	#				ATE Sign	DATE Signed (MM: OP (27)	((C) (C)	t.				O° ni qmə	no beviece lce	Custody aled Cooler	Samples toetril	
NGKome-Jabnumber.28351.EQEDU.zip	<u>d</u>					A Salar	terración reposer de la contraction de la contra	AND CONTRACTOR CONTRACTOR	V.	- Warning West		1	9		- Salarana				4	э Н	:05	;	

E-File,(ALL.0020rev.3,31Mar05), 13Jun2005

National Grid Kingsley Ave	d enue, Rome, N	lew York						
Sampling Pe	ersonnel:	4			Date:	6/7/1	and and a second	
	: 06-02882-134	4400-221			Weather:	DUM	÷ .	******
Well Id.	LTMW-D02	Do.			Time In: 2		Time Out	:09:40
Well In	formation			· · · · · · · · · · · · · · · · · · ·				
		-	TOC	Other	Well Type		K-7	Stick-Up
Depth to Wa		(feet)	7.36		Well Locke		Yes	No
Depth to Bot	····	(feet)	40.29 32.33	NG	-	Point Marked:	Yes X Ot	No
Depth to Pro Length of Wa			32.93	Ny.	Well Mater Well Diam		E	her: her:
Volume of W		(feet) (gal)	5.20		Comments			ner:
Three Well V		(gal)	15.80		oom	,		
Purging I	Information	*						
Purging Meth			Designate Hi	✓	·		Conversion I	
Purging Metr Tubing/Bailer		Baile Teflor			ifos Pump	gal/ft. of	1" ID 2" ID	4" ID 6" ID
Sampling Me		Baile	 	<u>ky</u>	Ifos Pump	water	0.04 0.16	0.66 1.47
Average Pun		(ml/min)	ZOO		ilos i dinplI	ļ	on=3.785L=3785r	
Duration of P		(min)	30				***************************************	
Total Volume		(gal)		Did well go dry?	? Yes No			
	oriba U-52 Wate			s No D				
10/00/20 0/ 1/1	JANA U-UZ YYAKU	I Quality Motor	USeu! ICC					
Time	DTW	Temp	рН	ORP	Conductivity	Turbidity	DO	TDS
	(feet)	(°C)	(S.U.)	(mV)	(mS/cm)	(NTU)	(mg/L)	(g/L)
09:00	881	15.37	E-43	1-04	0.399	38	7.912	0.253
04:05	9.50	14.99	8.65	-117	0.78	3.4	7.85	0.753
09:10	10.25	14.93	Bully	-117	1387	3.0	0.95	6-247
09:15	10.70	13.04	9-106	-140	12.371	2.4		00245
09:20		31 15.50	3-44	-147	0.368	1.9	0.20	0239
27:25	11.84	15.81	8.65	- !!!	0.367	1.8	0.19	0.337
09:35	12.34	14.07	9.65	1-112	0.367	1.6	0.17	0235
					-			
					<i>€</i>			
Sampling Inf	formation:	, , , , , , , , , , , , , , , , , , ,	***************************************	***************************************	***************************************			
Quantity	Size Ma	aterial Preser		Compour	ids analyzed	Metho	.1	
Quantity 2			served	SVOC PA			ethod 8270	——
3		Glass HCl	serveu	VOC's & B		·····	ethod 8270	—
1		lastic NaOH	w ·	Total Cyar			ethod 335.4	
1		lastic HNO3		Total Met			ethod 200.7	
Sample ID:	LTMW-D02-06	617 Du	plicate?	Yes No X	1 Shir	nned. Droppoff	Syracuse Service	o Center
Sample Time:	09:30		-	Yes No	Ų.,,,		p by Syracuse C	—
				· · · · · · · · · · · · · · · · · · ·	¥			
Comments/No	y interest				<u> </u>	_aboratory:	PACE Ana	

	5130, 110,110, 110							
Sampling Pe	rsonnel:	***************************************			Date:	67		
Job Number:	: 06-02882-134	4400-221			Weather:	SUNNY		
Well Id.	LTMW-S01				Time In:	0880	Time Out	: 0940
Well In	formation		TOC	Other	Well Type	· Flus	shmount	Stick-Up
Depth to Wa	ter:	(feet)	7.2		Well Lock		Yes	No
Depth to Bot		(feet)	16.92			Point Marked:	Yes	No
Depth to Pro-	duct:	(feet)		NP	Well Mate		⊠ ss o t	her:
	ater Column:	(feet)	9,72		Well Diam		2" X Ot	her:
Volume of W		(gal)	9,88		Comments	s:		_
Three Well V	/olumes:	(gal)	29.64					
Purging Meth Tubing/Bailer Sampling Me Average Pun Duration of P Total Volume	r Material: ethod: mping Rate: Pumping:	(min) (gal)	Stainless S Peristalti 200 30MIN	St. Pol	Ifos Pump lyethylene Ifos Pump		Conversion I 1" ID 2" ID 0.04 0.16 on=3.785L=3785r	4" ID 6" ID 0.66 1.47
7ime	DTW (feet) 7.25 7.30	Temp (°C) 4.84 3.72	pH (S.U.) 7 - 52 7 - 27	ORP (mV) -135	Conductivity (mS/cm) 0.815 0.797	Turbidity (NTU) 4.2 54.8	DO (mg/L) 245 /.03	TDS (g/L) 0.515 0,510
0910	7,28	12.64	9.31	-130	0.796	3.2	0.72	0,509
0915	7.28	12.59	7.28	-128	0.793	4.8	068	0507

	(feet)	(°C)	(S.U.)	(mV)	(mS/cm)	(NTU)	(mg/L)	(g/L)
0900	725	14.84	7.52	-135	0.815	4.2	245	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	7.23	12.59	7.28	-128	0.793	4.8	068	0507
0910	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	50	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: Sample Time:	
Sample Time:	

Comments/Notes:

<u>0930</u>

Duplicate? MS/MSD?

Yes Yes

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



Laboratory:

Sampling Personnel:	Date: 6/7/17
Job Number: 06-02882-134400-221	Weather: 64°F, sunny
Well Id. LTMW-DOT DOZ	Time In: 1045 Time Out: 1140
Well Information TOC Other	Well Type: Flushmount Stick-Up
Depth to Water: (feet) 7.02	Well Locked: Yes No
Depth to Bottom: (feet) 46.84	Measuring Point Marked:Yes No
Depth to Product: (feet)	Well Material: PVC SS Other:
Length of Water Column: (feet) 37.82	Well Diameter: 1" 2" Other:
Volume of Water in Well: (gal) (a.0) Three Well Volumes: (gal) / 8	Comments:
Three Well Volumes: (gal) / 8	
Purging Information	
	Conversion Factors
	undfos Pump gal/ft. 1" ID 2" ID 4" ID 6" ID
	Polyethylene Of water 0.04 0.16 0.66 1.47
Average Pumping Rate: 250 (ml/min)	1 gallon=3.785L=3785mL=1337cu. feet
Duration of Pumping: 30 (min)	hermanica representation of the second of th
Total Volume Removed: (gal) Did well go di	ry? Yes No
YSI 6920 or Horiba U-52 Water Quality Meter Used? Yes No	
T Time I DTW I Tame I AU I ODD	
Time DTW Temp pH ORP	Conductivity Turbidity DO TDS
(feet) (°C) (S.U.) (mV)	(mS/cm) (NTU) (mg/L) (g/L)
(feet) (°C) (S.U.) (mV) 1050 12.01 12.49 7.26 -78	(mS/cm) (NTU) (mg/L) (g/L) (g/L) (3.427 34.1 3.17 0.289
(feet) (°C) (S.U.) (mV) 1050 12.01 12.49 7.26 -78 1055 10.58 12.88 4.01 -86	(mS/cm) (NTU) (mg/L) (g/L) 0.437 36.1 3.17 0.289 0.227 51.0 6.44 0.153
(feet) (°C) (S.U.) (mV) 1050 10.01 12.49 7.26 -78 1055 10.58 12.88 4.01 -86 1100 10.64 2.75 8.41 -54	(mS/cm) (NTU) (mg/L) (g/L) 6.437 36.1 3.17 0.289 6.227 51.0 6.44 0.153 0.131 45.4 5.80 0.086
(feet) (°C) (S.U.) (mV) 1050 12.01 12.49 7.26 -78 1055 10.58 12.88 4.01 -86 1100 10.69 2.75 8.41 -54 1107 10.75 12.87 8.46 -17 1110 10.75 12.87 8.707	(mS/cm) (NTU) (mg/L) (g/L) 8.427 36.1 3.17 0.289 0.227 51.0 6.44 8153 0.131 45.4 5.80 8.086 0.24 37.2 4.73 0081 0.44 36.1 4.59 0.081
(feet) (°C) (S.U.) (mV) 1050 12.01 12.49 7.26 -78 1055 10.58 12.88 4.01 -86 1100 10.69 12.75 8.41 -59 1107 10.75 12.87 8.70 -7 1115 10.80 12.88 8.10 -2	(mS/cm) (NTU) (mg/L) (g/L) 0.437 36.1 3.17 0.289 0.227 51.0 6.46 0.086 0.131 45.6 5.80 0.086 0.24 37.2 4.73 0.081 0.124 36.1 4.59 0.081 0.124 35.5 4.63 0.081
(feet) (°C) (S.U.) (mV) 1050 12.01 12.49 7.26 -78 1055 10.58 12.88 4.01 -86 1100 10.69 2.75 8.41 -54 1107 10.75 12.87 8.46 -17 1110 10.75 12.87 8.707	(mS/cm) (NTU) (mg/L) (g/L) 8.427 36.1 3.17 0.289 0.227 51.0 6.44 8153 0.131 45.4 5.80 8.086 0.24 37.2 4.73 0081 0.44 36.1 4.59 0.081
(feet) (°C) (S.U.) (mV) 1050 12.01 12.49 7.26 -78 1055 10.58 12.88 4.01 -86 1100 10.69 12.75 8.41 -59 1107 10.75 12.87 8.70 -7 1115 10.80 12.88 8.10 -2	(mS/cm) (NTU) (mg/L) (g/L) 0.437 36.1 3.17 0.289 0.227 51.0 6.44 0153 0.131 45.4 5.80 0.086 0.24 37.2 4.73 0081 0.24 36.1 4.59 0.081 0.124 35.5 4.63 0.081
(feet) (°C) (S.U.) (mV) 1050 12.01 12.49 7.26 -78 1055 10.58 12.88 4.01 -86 1100 10.69 2.75 8.41 -59 1107 10.75 0.84 8.66 -17 1110 10.75 12.87 8707 1115 10.80 12.88 870 -2	(mS/cm) (NTU) (mg/L) (g/L) 0.437 36.1 3.17 0.289 0.227 51.0 6.44 0153 0.131 45.4 5.80 0.086 0.24 37.2 4.73 0081 0.24 36.1 4.59 0.081 0.124 35.5 4.63 0.081
(feet) (°C) (S.U.) (mV) 1050 12.01 12.49 7.26 -78 1055 10.58 12.88 4.01 -86 1100 10.69 2.75 8.41 -59 1107 10.75 0.84 8.66 -17 1110 10.75 12.87 8707 1115 10.80 12.88 870 -2	(mS/cm) (NTU) (mg/L) (g/L) 0.437 36.1 3.17 0.289 0.227 51.0 6.44 0153 0.131 45.4 5.80 0.086 0.24 37.2 4.73 0081 0.24 36.1 4.59 0.081 0.124 35.5 4.63 0.081
(feet) (°C) (S.U.) (mV) 1050 12.01 12.49 7.26 -78 1055 10.58 12.88 4.01 -86 1100 10.69 2.75 8.41 -59 1107 10.75 0.84 8.66 -17 1110 10.75 12.87 8707 1115 10.80 12.88 870 -2	(mS/cm) (NTU) (mg/L) (g/L) 0.437 36.1 3.17 0.289 0.227 51.0 6.44 0153 0.131 45.4 5.80 0.086 0.24 37.2 4.73 0081 0.24 36.1 4.59 0.081 0.124 35.5 4.63 0.081
(feet) (°C) (S.U.) (mV) 1050 12.01 12.49 7.26 -78 1055 10.58 12.88 4.01 -86 1100 10.69 2.75 8.41 -59 1107 10.75 0.84 8.66 -17 1110 10.75 12.87 8707 1115 10.80 12.88 870 -2	(mS/cm) (NTU) (mg/L) (g/L) 0.437 36.1 3.17 0.289 0.227 51.0 6.44 0.153 0.131 45.4 5.80 0.086 0.24 37.2 4.73 0081 0.24 36.1 4.59 0.081 0.124 35.5 4.63 0.081
(feet) (°C) (S.U.) (mV) 1050 12.01 12.49 7.26 78 10.58 12.88 9.01 -86 11.00 10.69 12.75 8.41 -54 11.00 10.75 12.87 170 -7 1110 10.75 12.87 170 -7 1115 10.40 12.88 8.70 -2 1120 16.75 12.93 8.72 S	(mS/cm) (NTU) (mg/L) (g/L) 8.427 34.1 3.17 0.289 0.227 51.0 6.46 8.80 0.086 0.131 45.6 5.80 0.086 0.124 37.2 4.73 0081 0.124 35.5 4.63 0.081 0.125 32.0 4.45 0.081
(feet) (°C) (S.U.) (mV) 1050 12.01 12.49 7.24 7.24 7.86 10.55 10.58 12.88 9.01 -84 11.00 10.69 12.55 8.41 -54 11.00 10.75 12.87 17.00 -7 11.5 10.40 12.88 10 -2 11.20 10.75 12.97 17.00 -2 11.20 10.75 12.93 17.00 -2 11.20 10.75 12.93 17.00 12.88 10 -2 11.20 10.75 12.93 10.75 12.93 10.75 12.93 10.75 12.93 10.75 12.93 10.75 12.93 10.75 12.93 10.75 12.93 10.75 12.93 10.75 12.93 10.75 12.93 10.75 12.93 10.75 12.93 10.75 12.93 10.75 12.93 10.75 12.93 10.75 12.93 10.75 12.93 10.75 12.93 10.75 10	(mS/cm) (NTU) (mg/L) (g/L) 8.427 36.1 3.17 0.289 0.227 51.0 6.46 2.53 0.131 45.6 5.80 8.086 0.24 36.1 4.73 0.081 0.124 35.5 4.63 0.081 0.125 32.0 4.49 0.081
(feet) (°C) (S.U.) (mV) 1050 12.01 12.49 7.24	(mS/cm) (NTU) (mg/L) (g/L) 8.427 36.1 3.17 0.289 0.227 51.0 6.76 2.53 0.131 45.6 5.80 5.066 0.24 36.1 4.59 0.081 0.124 35.5 4.63 0.081 0.125 32.0 4.45 0.081 ands analyzed Method PAH's EPA Method 8270
(feet) (°C) (S.U.) (mV) 1050 12.01 12.49 7.24 7.24 7.88 10.55 10.58 12.88 10.01 -84 11.00 10.69 12.75 11.00 10.75 12.87 17.00 -7.00 11.00 10.75 12.88 10.00 -2.00 11.00 10.75 12.88 10.00 -2.00 11.00 10.75 12.93 8.72 5.72	(mS/cm) (NTU) (mg/L) (g/L) 6.427 36.1 3.17 0.289 0.227 51.0 6.46 8153 0.131 45.6 5.80 0.066 0.124 27.2 4.73 0.081 0.124 36.1 4.59 0.081 0.124 35.5 4.63 0.081 0.125 32.0 4.45 0.081 A135 32.0 4.45 0.081 PAH's EPA Method 8270 EPA Method 8260
Geet	(mS/cm) (NTU) (mg/L) (g/L) 8.427 36.1 3.17 0.289 0.227 51.0 6.76 0.53 0.131 45.6 5.80 0.086 0.24 37.2 4.73 0.081 0.124 35.5 4.63 0.081 0.124 35.5 4.63 0.081 0.125 32.0 4.45 0.081 PAH's EPA Method 8270 & BTEX EPA Method 8260 yanide EPA Method 335.4
Glass Glas	(mS/cm)
(feet) (°C) (S.U.) (mV) 1050 12.01 12.49 7.24	(mS/cm)
Glass Glas	(mS/cm)
(feet) (°C) (S.U.) (mV) 1050 12.01 12.49 7.24	(mS/cm) (NTU) (mg/L) (g/L) 7.437 36.1 3.17 0.289 0.227 51.0 6.76 0.53 0.131 45.6 5.80 0.086 0.24 36.1 7.59 0.081 0.124 35.5 4.63 0.081 0.125 32.0 4.49 0.081 DAH's EPA Method 8270 B BTEX EPA Method 8260 yanide EPA Method 335.4 letals EPA Method 200.7 Shipped: Drop-off Syracuse Service Center

	er Service and a graph of the Service of Control of Control		······		· · · · · · · · · · · · · · · · · · ·		***************************************	
Sampling Per	rsonnel: /	45	*****		Date:	6/7/17		
Job Number:	06-02882-13	4400-221			Weather:	62°F,	sunny	
Well Id.	LTMW-S02				Time In:	1000	Time Ou	t: 1045
Well Inf	formation	-	T 00	O41	Mall Time			~ v
Depth to Wat	ł o r·	/Foot\	70C 8.35	Other	Well Type Well Lock		shmount Yes	Stick-Up No
Depth to Wat		(feet)	17.98			eu. Point Marked:	Yes Yes	No No
Depth to Prod		(feet)	WP		Well Mate			ther:
Length of Wa		(feet)	9.63		Well Diam			
Volume of W		(gal)	1.54		Comment	s:		
Three Well V	olumes:	(gal)	4.6		A			
								- Water
Durging I	-farmation							
Purging ii	nformation						Conversion	Factors
Purging Meth	od.	Bailer	Peristaltic	Grund	fos Pump	gal/ft.		
Tubing/Bailer		Teflon			lyethylene	of	7 1	
Sampling Me		Bailer	···········		lfos Pump	water	0.04 0.16	0.66 1.47
	nping Rate: 🔏					1 gal	lon=3.785L=3785	mL=1337cu. feet
Duration of P		30 (min)			—	1		
Total Volume	Removed:	3 (gal)		id well go dry?	YesNo	\bowtie		
YSI 6920 or Ho	oriba U-52 Wate	er Quality Meter U	Jsed? Yes	No				
<u> </u>								
				· · · · · · · · · · · · · · · · · · ·			·- <u>-</u>	
Time	DTW	Temp	рН	ORP	Conductivity	Turbidity	DO	TDS
	(feet)	(°C)	(S.U.)	(mV)	(mS/cm)	(NTU)	(mg/L)	(g/L)
1005	(feet)	(°C)	(S.U.) 7.3 C	(mV) - & -	(mS/cm) 0497	(UTM) 24/	1	(g/L) (0.323
1005	(feet) 8.55 8.53	(°C) 10.3C 15.92	(S.U.) 7.3 Co •7.33	(mV) -85 -87	(mS/cm) 0497 0.502	(NTU) / A 3 / 8 7	(mg/L) 20.96 4.27	(g/L) 0.323 0.322
1005	(feet) 6.55 8.53 8.53	(°C) 10.3C 15.92 15.44	(S.U.) 7.36 ·7.33 7.29	(mV) -85 -87 -9/	(mS/cm) 0497 0.502	(NTU) /8-3 /8-7 /8-9	(mg/L) 20.96 4.27 0.78	(g/L) 0.323 0.322 0.322
1005 1010 1015 1020	(feet) 6.55 8.53 8.53 8.53 8.53	(°C) 10.3C 15.92 15.41 15.34	(S.U.) 7.3 Co •7.33	(mV) -85 -87 -9/ -75	(mS/cm) 0497 0.502 0.504 0.499	(NTU) / A 3 / 8 7	(mg/L) 20.96 427 0.78 0.38	(g/L) 0.323 0.322 0.322 0.324 0.324
1005 1010 1015 1020 1025	(feet) 6.55 8.53 8.53 8.53 8.53	(°C) 10.3C 15.92 15.44 15.34 14.20	(S.U.) 7.3 G ·7.33 7.29 7.29 7.29	(mV) -85 -87 -9/ -75 -86 -72	(mS/cm) 0497 0.502 0.504 0.499	(NTU) /83 /87 /89 /89 /19 36.5	(mg/L) 20.96 4.27 0.78 0.38 0.48	(g/L) 0.323 0.322 0.322 0.324 0.324
1005 1010 1015 1020	(feet) 7.55 8.53 8.53 7.53	(°C) 10.3C 15.92 15.41 15.34	(S.U.) 7.36 ·7.33 7.29	(mV) -85 -87 -9/ -75	(mS/cm) 0497 0.502 0.504 0.499	(NTU) /83 /87 /89 /88	(mg/L) 20.96 4.27 0.78	(g/L) 0.323 0.322 0.322 0.324
1005 1010 1015 1020 1025 1030	(feet) 6.55 8.53 8.53 8.53 8.53	(°C) 10.3C 15.92 15.44 15.34 14.20 12.46	(S.U.) 7.3 G ·7.33 7.29 7.29 7.29	(mV) -85 -87 -9/ -75 -86 -72	(mS/cm) 0497 0.502 0.504 0.499 0.498	(NTU) /83 /87 /89 /89 /19 36.5	(mg/L) 20.96 4.27 0.78 0.38 0.48	(g/L) 0.323 0.322 0.322 0.324 0.324
1005 1010 1015 1020 1025 1030	(feet) 6.55 8.53 8.53 8.53 8.53	(°C) 10.3C 15.92 15.44 15.34 14.20 12.46	(S.U.) 7.3 G ·7.33 7.29 7.29 7.29	(mV) -85 -87 -9/ -75 -86 -72	(mS/cm) 0497 0.502 0.504 0.499 0.498	(NTU) /83 /87 /89 /89 /19 36.5	(mg/L) 20.96 4.27 0.78 0.38 0.48	(g/L) 0.323 0.322 0.322 0.324 0.324
1005 1010 1015 1020 1025 1030	(feet) 6.55 8.53 8.53 8.53 8.53	(°C) 10.3C 15.92 15.44 15.34 14.20 12.46	(S.U.) 7.3 G ·7.33 7.29 7.29 7.29	(mV) -85 -87 -9/ -75 -86 -72	(mS/cm) 0497 0.502 0.504 0.499 0.498	(NTU) /83 /87 /89 /89 /19 36.5	(mg/L) 20.96 4.27 0.78 0.38 0.48	(g/L) 0.323 0.322 0.322 0.324 0.324
1005 1010 1015 1020 1025 1030	(feet) 6.55 8.53 8.53 8.53 8.53	(°C) 10.3C 15.92 15.44 15.34 14.20 12.46	(S.U.) 7.3 G ·7.33 7.29 7.29 7.29	(mV) -85 -87 -9/ -75 -86 -72	(mS/cm) 0497 0.502 0.504 0.499 0.498	(NTU) /83 /87 /89 /89 /19 36.5	(mg/L) 20.96 4.27 0.78 0.38 0.48	(g/L) 0.323 0.322 0.322 0.324 0.324
1005 1010 1015 1020 1025 1030 1035	(feet) 2.55 8.53 2.53 2.53 2.53 2.53	(°C) 10.3C 15.92 15.44 15.34 14.20 12.46	(S.U.) 7.3 G ·7.33 7.29 7.29 7.29	(mV) -85 -87 -9/ -75 -86 -72	(mS/cm) 0497 0.502 0.504 0.499 0.498	(NTU) /83 /87 /89 /89 /19 36.5	(mg/L) 20.96 4.27 0.78 0.38 0.48	(g/L) 0.323 0.322 0.322 0.324 0.324
1005 1010 1015 1020 1025 1030	(feet) 2.55 8.53 2.53 2.53 2.53 2.53	(°C) 10.3C 15.92 15.44 15.34 14.20 12.46	(S.U.) 7.3 G ·7.33 7.29 7.29 7.29	(mV) -85 -87 -9/ -75 -86 -72	(mS/cm) 0497 0.502 0.504 0.499 0.498	(NTU) /83 /87 /89 /89 /19 36.5	(mg/L) 20.96 4.27 0.78 0.38 0.48	(g/L) 0.323 0.322 0.322 0.324 0.324
1005 1010 1015 1020 1025 1030 1035	(feet) 6.55 8.53 8.53 8.51 8.53 6.53	(°C) 10.3C 15.92 15.44 15.34 14.20 12.46	(S.U.) 7.3 G 7.33 7.29 7.20 7.14 84.95 6.89	(mV) -85 -87 -9/ -75 -86 -72 -69	(mS/cm) 0497 0.502 0.504 0.499 0.498	(NTU) /83 /87 /89 /89 /19 36.5	(mg/L) 20.96 4.27 0.78 0.38 0.48 0.93	(g/L) 0.323 0.322 0.322 0.324 0.324
/005 /010 /015 /020 /025 /035 Sampling Inf	(feet) 2.55 8.53 8.53 8.53 8.53 6.53 6.53	(°C)	(S.U.) 7.3 G 7.33 7.29 7.20 7.14 84.95 6.89	(mV) -85 -87 -9/ -75 -86 -72 -69 Compour	(mS/cm) 0497 0.502 0.504 0.499 0.498 0.506 0.514 nds analyzed	(NTU) /83 /87 /89 /19 36.5 29.2 Methoder Met	(mg/L) 20.96 4.27 0.78 0.38 0.48 0.83 0.92 od	(g/L) 0.323 0.322 0.322 0.324 0.324
/005 /010 /015 /020 /035 /035 O35 O35	(feet) (7.55 (8.53	(°C) //S・タン /S・タン /S・34 イ・ムの /ス・ソム ス・ソスト ス・リスト ス・リスト Glass Unpre Glass HCI	(S.U.) 7.3 G 7.3 G 7.3 3 7.2 9 7.2 8 7.1 4 36.95 6.89	(mV) -85 -87 -9/ -75 -86 -72 -69 Compour SVOC PA	(mS/cm) 0497 0.502 0.504 0.499 0.506 0.514 desanalyzed H's	(NTU) / 8 3 / 8 7 / 8 9	(mg/L) 20.96 4.27 0.78 0.38 0.98 0.93 0.93 0.93 0.93 0.93 0.93 0.93	(g/L) 0.323 0.322 0.322 0.324 0.324
/005 /010 /015 /020 /025 /035 /035 O35 Quantity 2 3 1	(feet) (7.55 (8.53	(°C) //S.3C //S.92 //S.34 //S.34 //J.20 //J.4C //J.33 Jaterial Preser Glass Unpre	(S.U.) 7.3 G 7.3 G 7.3 3 7.2 9 7.2 8 7.1 4 36.95 6.89	(mV) -85 -87 -9/ -75 -86 -72 -69 Compour SVOC PA VOC's & E Total Cya	(mS/cm) 0.497 0.502 0.504 0.498 0.506 0.514 ods analyzed H's BTEX nide	(NTU) /83 /87 /89 /89 /89 /89 /89 /89 /89 /89 /89 /89	(mg/L) 20.96 4,27 0.78 0.38 0.48 0.92 0.92 ethod 8270 ethod 8260 ethod 335.4	(g/L) 0.323 0.322 0.322 0.324 0.324
1005 1010 1015 1020 1030 1035 1030 1035 Quantity 2 3	(feet) (7.55 (8.53	(°C) //S・タン /S・タン /S・34 イ・ムの /ス・ソム ス・ソスト ス・リスト ス・リスト Glass Unpre Glass HCI	(S.U.) 7.3 G 7.3 G 7.3 3 7.2 9 7.2 8 7.1 4 36.95 6.89	(mV) -85 -87 -9/ -75 -86 -72 -69 Compour SVOC PA	(mS/cm) 0.497 0.502 0.504 0.498 0.506 0.514 ods analyzed H's BTEX nide	(NTU) /83 /87 /89 /89 /89 /89 /89 /89 /89 /89 /89 /89	(mg/L) 20.96 4.27 0.78 0.38 0.98 0.93 0.93 0.93 0.93 0.93 0.93 0.93	(g/L) 0.323 0.322 0.324 0.324
/005 /010 /015 /020 /035 /035 O35 O35	(feet)	Ide.3Co Ide.3Co IS.92- IS.34 IV.LO IL.13 Identified Preserved Preserve	(S.U.) 7.3 Co 7.3 Co 7.3 Co 7.3 Co 7.2 P 7.2 P 7.1 P 8 Co.9 P 8 Co.9 P vative served	(mV) -85 -87 -9/ -75 -86 -72 -69 Compour SVOC PA VOC's & E Total Cya Total Met	(mS/cm) 0497 0.502 0.504 0.499 0.498 0.506 0.514 ands analyzed H's BTEX nide tals	(NTU) /83 /87 /89 /89 /19 36.5 29.2 Method EPA M EPA M EPA M	(mg/L) 20.96 4.27 0.78 0.38 0.48 0.98 0.98 0.98 0.98 0.98 0.98 0.98 0.9	(g/L) 0.323 0.322 0.322 0.324 0.324 0.324 0.324
/005	(feet) (7.55 (8.53	Ide.3Co /S.92 /S.34 /S.34 /Y.LO /L.YCo /	(S.U.) 7.3 Co 7.	Compour SVOC PA VOC's & E Total Cya Total Met	(mS/cm) 0497 0.502 0.504 0.499 0.498 0.506 0.514 ands analyzed H's BTEX nide tals	(NTU) /83 /87 /89 /89 /89 /89 /89 /89 /89	(mg/L) 20.96 4.27 0.78 0.38 0.48 0.48 0.92 0.92 0.92 0.92 0.92 0.92 0.92 0.93 0.93 0.93 0.93 0.93 0.93 0.93 0.93	(g/L) (3.2.2 (0.3.2.2 (0.3.2.2 (0.3.2.4 (0.3.4 (0.3.2.4 (0.3.4 (0.3.2.4 (0.3.4 (0.3.2.4 (0.3.
/005	(feet) 7.55 8.55 8.53 7.53 8.53 7.53 6.53	Ide.3Co /S.92 /S.34 /S.34 /Y.LO /L.YCo /	(S.U.) 7.3 Co 7.	(mV) -85 -87 -9/ -75 -86 -72 -69 Compour SVOC PA VOC's & E Total Cya Total Met	(mS/cm) 0497 0.502 0.504 0.499 0.498 0.506 0.514 ands analyzed H's BTEX nide tals	(NTU) /8-5 /8-7 /8-9 /8-9 /19 36-5 29-2 Method EPA M	ethod 8270 lethod 200.7	(g/L) (9/L) (0.323 (0.322 (0.324
/005	(feet) 7.55 8.55 8.53 7.53 8.53 7.53 6.53	Ide.3Co /S.92 /S.34 /S.34 /Y.LO /L.YCo /	(S.U.) 7.3 Co 7.	Compour SVOC PA VOC's & E Total Cya Total Met	(mS/cm) 0497 0.502 0.504 0.499 0.498 0.506 0.514 ands analyzed H's BTEX nide tals	(NTU) /83 /87 /89 /89 /89 /89 /89 /89 /89	(mg/L) 20.96 4.27 0.78 0.38 0.48 0.48 0.92 0.92 0.92 0.92 0.92 0.92 0.92 0.93 0.93 0.93 0.93 0.93 0.93 0.93 0.93	(g/L) (3.3.2.3 (3.3.2.4 (3.3.2

Tangacy Avorido, Aomo, Now						
Sampling Personnel:	-			0(7		
Job Number: 06-02882-13440	00-221		Weather:	CIEAR-	FUNCE	
Well Id. LTMW-D03			Time In:	000	Time Out:	1050
Well Information	тос	Other	Well Type:	Flus	hmount S	Stick-Up
Depth to Water:	(feet) 3-85		Well Locked		Yes	No
Depth to Bottom:	(feet) 40.73		Measuring Po		Yes	No
Depth to Product:	(feet) NP		Well Materia Well Diame		SS Oth	
Length of Water Column:	(feet) 36.88 (gal) 5.9		Comments:			ier.
Volume of Water in Well: Three Well Volumes:	(9)		Comments.			
Three well volumes.	(gal) [7.70	<u></u>				
Purging Information						
Purging Method: Tubing/Bailer Material: Sampling Method: Average Pumping Rate:	Teflon Stainles	s St. Po	dfos Pump olyethylene dfos Pump	gal/ft. of water	Conversion F 1" ID 2" ID 0.04 0.16 on=3.785L=3785m	4" ID 6" ID 0.66 1.47
Duration of Pumping:	(min) 30	•	1			
Total Volume Removed:	(gal) 6000	Did well go dry	? Yes No	\overline{A}		
YSI 6920 or Horiba U-52 Water Q		Yes No				
Time DTW	Temp pH	ORP	Conductivity	Turbidity	DO ((1)	TDS

Time	DTW	Temp	рН	ORP	Conductivity	Turbidity	DO	TDS
	(feet)	(°C)	(S.U.)	(mV)	(mS/cm)	(NTU)	(mg/L)	(g/L)
1005	3.85	17.85	7.66	-123	6.808	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	0.495	2.0	0.00	0.566
1025	6.30	15.27	7-50	-140	0,384	1.9	0.00	0.566
1030	6.39	15.26	7.50	-140	0.984	i18	0.00	0.566
1035	6.59	15.27	7.50	740	0-884	1.9	0.00	0.546

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:	10040

Duplicate? MS/MSD?

	 	_
Yes	No	\geq
Yes	No	$\tilde{\mathbf{x}}$

Shipped: Drop-off Syracuse Service Center

Pick-up by Syracuse Courier

Comments/Notes:

Laboratory:

National Grid			
Kingsley Avenue,	Rome,	New	York

Sampling Per	rsonnel:	K			Date: 💪	0/7/17	2	
Job Number:	: 06-02882-13	4400-221			Weather:	SUNIN	65	
Well Id.	LTMW-S03				Time In:	10:50	Time Out	: 1150
Well Inf	formation		TOC	Other	Well Type:	Flas	shmount	Stick-Up
Depth to Wat	ter:	(feet)	1.81	Other	Well Locke		Yes	No No
Depth to Botto		(feet)	13.70			oint Marked:	Yes	No
Depth to Proc		(feet)	WP		Well Mater	rial: PVC	F	her:
Length of Wa		(feet)	11-84		Well Diame		2" ∑ Ot	her:
Volume of Wa		(gal)	1.90		Comments	:		
Three Well Vo	olumes:	(gal)	5.70					
Purging Ir	nformation							
	N WY CLASS	•					Conversion I	Factors
Purging Metho	ıod:	Bailer	Peristaltic	Grund	fos Pump	gal/ft.	1" ID 2" ID	
Tubing/Bailer	^r Material:	Teflon	 	F	yethylene	of		
Sampling Met		Bailer	Peristaltic	Grund	fos Pump	water	0.04 0.16	0.66 1.47
Average Pum		(ml/min)	200			1 gallo	on=3.785L=3785r	nL=1337cu. feet
Duration of Pu		(min)	30.4		•	1		
Total Volume		(get)		id well go dry?	Yes No			
YSI 6920 or Ho	riba U-52 Wate	er Quality Meter U	Jsed? Yes	No				
Time	DTW	T _{emn}	nН	ORP	Conductivity	Turhidity	DO	TOS
Time	DTW (feet)	Temp (°C)	pH (S.U.)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	TDS (g/L)
Time /0:35			(S.U.)	1	(mS/cm)	Turbidity (NTU)	(mg/L)	(g/L)
	(feet)	(°C)		(mV)	1 1	(NTU)	ł	(g/L) 0-762
10:35	(feet) 1 - 9 Z	(°C) 19 6/ 18.37 17.28	(Ś.U.) 7. 2.6	(mV) -75 -56 -59	(mS/cm) 0 - 761	(NTU) 9-6	(mg/L) <i>>- / </i>	(g/L) 0.46Z
10:35 11:00 11:05 11:10	(feet) 1. 22 1.80	(°C) 19.6/ 18.37 17.28 16.99	(S.U.) 7.26 6.66	(mV) -75 -56 -59 -63	(mS/cm) 0-761 0-439 0-4-10 0-400	(NTU) 9.6 7.2 75.6 4.1	(mg/L) 2 - / (∠ 0 - 00 0 - 00	(g/L) 0.762 0.283 0.266 0.260
10:35 11:00 11:05	(feet) 1- 2乙 1-80 1-90	(°C) 19.6/ 18.37 17.28 16.99 16.90	(S.U.) 7.26 6.66 6.59 6.58 6.57	(mV) -75 -56 -59	(mS/cm) 0-761 0-439 0-410	(NTU) 9.6 7.2 \$5.6 4.1 5.0	(mg/L) ≥-/↓ 0.00 0.00	(g/L) 0.762 0.283 0.266
10:35 11:00 11:05 11:10 11:15	(feet) 1.22 1.80 1.90 1.80 1.80	(°C) 19.6/ 18.37 17.28 16.99	(S.U.) 7.26 6.66 6.59 6.58 6.57	(mV) -75 -56 -59 -63	(mS/cm) 0-761 0-439 0-410 0-400 0-337 0-325	(NTU) 9.6 7.2 \$5.6 4.1 5.0	(mg/L) 2 - / (∠ 0 - 00 0 - 00	(g/L) 0.762 0.283 0.266 0.260
10:35 11:00 11:05 11:10	(feet) 1.22 1.80 1.90 1.90	(°C) 19.6/ 18.37 17.28 16.99 16.90	(S.U.) 7.26 6.66 6.59 6.58	(mV) -75 -56 -59 -63	(mS/cm) 0.761 0.439 0.410 0.400 0.387	(NTU) 9.6 7.2 75.6 4.1	(mg/L) 2-/ (0.00 0.00 0.00	(g/L) 0.762 0.283 0.266 0.260
10:35 11:00 11:05 11:10 11:15	(feet) 1.22 1.80 1.90 1.80 1.80	(°C) 19.6/ 18.37 17.28 16.99 16.90	(S.U.) 7.26 6.66 6.59 6.58 6.57	(mV) -75 -56 -59 -63 -65	(mS/cm) 0-761 0-439 0-410 0-400 0-337 0-325	(NTU) 9.6 7.2 \$5.6 4.1 5.0	(mg/L) 2-/ (0.00 0.00 0.00	(g/L) 0.762 0.283 0.266 0.260 0.260 0.250
10:35 11:00 11:05 11:10 11:15	(feet) 1.22 1.80 1.90 1.80 1.80	(°C) 19.6/ 18.37 17.28 16.99 16.90	(S.U.) 7.26 6.66 6.59 6.58 6.57	(mV) -75 -56 -59 -63 -65	(mS/cm) 0-761 0-439 0-410 0-400 0-337 0-325	(NTU) 9.6 7.2 \$5.6 4.1 5.0	(mg/L) 2-/ (0.00 0.00 0.00	(g/L) 0.762 0.283 0.266 0.260 0.260 0.250
10:35 11:00 11:05 11:10 11:15	(feet) 1.22 1.80 1.90 1.80 1.80	(°C) 19.6/ 18.37 17.28 16.99 16.90	(S.U.) 7.26 6.66 6.59 6.58 6.57	(mV) -75 -56 -59 -63 -65	(mS/cm) 0-761 0-439 0-410 0-400 0-337 0-325	(NTU) 9.6 7.2 \$5.6 4.1 5.0	(mg/L) 2-/ (0.00 0.00 0.00	(g/L) 0.762 0.283 0.266 0.260 0.260 0.250
10:35 11:00 11:05 11:10 11:15 11:20 11:30	(feet) 1.22 1.80 1.90 1.80 1.80 1.90	(°C) 19.6/ 18.37 17.28 16.99 16.90	(S.U.) 7.26 6.66 6.59 6.58 6.57	(mV) -75 -56 -59 -63 -65	(mS/cm) 0-761 0-439 0-410 0-400 0-337 0-325	(NTU) 9.6 7.2 \$5.6 4.1 5.0	(mg/L) 2-/ (0.00 0.00 0.00	(g/L) 0.762 0.283 0.266 0.260 0.260 0.250
10:55 11:00 11:05 11:10 11:15 11:20 11:30	(feet) 1-22 1-80 1-80 (-80 1-86 1-90 ormation:	(°C) 19 6/ 18.37 17.28 16.99 16.95 17.10	(S.U.) 7.26 6.66 6.59 6.58 6.57 6.59	(mV) -75 -56 -59 -63 -63 -65	(mS/cm) 0.761 0.439 0.410 0.400 0.337 0.325 0.331	(NTU) 9.6 7.7 \$5.6 4.1 5.0 5.2 3.9	(mg/L) 2-16 0.00 0.00 0.00 0.00 0.00	(g/L) 0.762 0.283 0.266 0.260 0.260 0.250
10:35 11:00 11:10 11:10 11:20 11:30 Sampling Info	(feet) 1.22 1.80 1.80 1.80 1.80 1.80 ormation:	(°C) 19 6/ 18.37 17.23 16.99 16.95 17.10	(S.U.) 7.26 6.66 6.59 6.57 6.57 6.59	(mV) -75 -56 -59 -63 -65 -65	(mS/cm) 0-761 0-439 0-410 0-400 0.337 0-325 0-331	(NTU) 9.6, 7.2 7.5.6 4.1 5.0 5.2 3.9	(mg/L) 2-16 0.00 0.00 0.00 0.00 0.00	(g/L) 0.762 0.283 0.266 0.260 0.260 0.250
10:35 11:00 11:05 11:10 11:15 11:20 11:30 Sampling Info	(feet) 1-22 1-80 1-80 1-80 1-80 1-90 ormation:	(°C) 19 6/ 18.37 17.28 16.99 16.95 17.18 aterial Preserve	(S.U.) 7.26 6.66 6.59 6.57 6.57 6.59	(mV) -75 -56 -59 -63 -65 -65 -65 -66 Compound	(mS/cm) 0-761 0-439 0-410 0-337 0-325 0-331	(NTU) 9.6, 7.2 4.1 5.0 5.2 3.9	(mg/L) 2 - / () 0 - 0 0 0 - 0 0 0 - 0 0 0 - 0 0 0 - 0 0 dethod 8270	(g/L) 0.762 0.283 0.266 0.260 0.260 0.250
10:55 11:00 11:15 11:20 11:30 11:30 Quantity 2 3	(feet) 1-22 1-80 1-80 (-80 1-86 (-7) ormation: Size Ma 1 L G 40 mL G	(°C) 19 6/ 18.37 17-28 16.99 16.95 17-18 aterial Preserved	(S.U.) 7.26 6.66 6.59 6.57 6.57 6.59	(mV) -75 -56 -59 -63 -65 -65 -65 -65 -65 -65 -65 -65 -65 -65	(mS/cm) 0 761 0 439 0 410 0 400 0 337 0 325 0 335 0 37 0 37 0 37 0 37 0 37 0 37 0 37 0 37	(NTU) 9.6, 7.7 8.5.6 4.1 5.0 5.2 3.9 Method EPA Me	(mg/L) 2 - / () 0 - 0 0 0 - 0 0 0 - 0 0 0 - 0 0 dethod 8270 ethod 8260	(g/L) 0.762 0.283 0.266 0.260 0.260 0.250
10:55 11:00 11:15 11:20 11:30 11:30 Quantity 2 3 1	(feet) /- 22 /-80 /-8	(°C) 19 6/ 18.37 17-28 10.99 16.95 17-10 aterial Preserv Glass Unpresidass HCI lastic NaOH	(S.U.) 7.26 6.66 6.59 6.57 6.57 6.59	(mV) -75 -56 -59 -63 -65 -65 -65 -65 -65 -65 -65 -65 -65 -65	(mS/cm) 0 761 0 939 0 410 0 400 0 337 0 325 0 351	(NTU) 9.6 7.7 15.0 4.1 5.0 5.2 3.4 Method EPA Me	(mg/L) 2-/6 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	(g/L) 0.762 0.283 0.266 0.260 0.260 0.258
10:55 11:00 11:15 11:20 11:30 11:30 Quantity 2 3	(feet) /- 22 /-80 /-8	(°C) 19 6/ 18.37 17-28 16.99 16.95 17-18 aterial Preserved	(S.U.) 7.26 6.66 6.59 6.57 6.57 6.59	(mV) -75 -56 -59 -63 -65 -65 -65 -65 -65 -65 -65 -65 -65 -65	(mS/cm) 0 761 0 939 0 410 0 400 0 337 0 325 0 351	(NTU) 9.6 7.7 15.0 4.1 5.0 5.2 3.4 Method EPA Me	(mg/L) 2 - / () 0 - 0 0 0 - 0 0 0 - 0 0 0 - 0 0 dethod 8270 ethod 8260	(g/L) 0.762 0.283 0.266 0.260 0.260 0.260
10.55 11.00 11.15 11.20 11.30 11.30 Quantity 2 3 1 1	(feet) /- 2/2 /-80 /-	aterial Preserved Glass Unpreserved Glass HCI lastic NaOH	(S.U.) 7.26 6.66 6.59 6.58 6.57 6.59 6.59	Compound SVOC PAH VOC's & BT Total Cyan	(mS/cm) 0-761 0-439 0-410 0-400 0-337 0-325 0-331 ds analyzed d's TEX	(NTU) 9.6 7.2 4.1 5.0 5.2 3.4 Method EPA Me EPA Me EPA Me	(mg/L) 2 - / () 0 - 0 0 0 - 0 0 0 - 0 0 0 - 0 0 dethod 8270 ethod 8260 ethod 335.4 ethod 200.7	(g/L) 0.762 0.283 0.260 0.260 0.260 0.258 0.297
10.55 11.00 11.15 11.20 11.30 11.30 Quantity 2 3 1 1	(feet) /- 22 /-80 /-8	aterial Preserve Glass Unpress HCI lastic NaOH	(S.U.) 7.26 6.66 6.59 6.57 6.57 6.59 6.57 6.59	(mV) -75 -56 -59 -63 -65 -65 -65 -65 -65 -65 -65 -65 -65 -65	(mS/cm) 0-761 0-439 0-410 0-400 0-337 0-325 0-331 ds analyzed d's TEX	(NTU) 9.6 7.7 4.1 5.0 5.2 3.9 Method EPA Me EPA Me EPA Me EPA Me	(mg/L) 2-/6 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	(g/L) 0.762 0.283 0.260 0.260 0.260 0.250 0.257
10:55 11:00 11:15 11:20 11:3	(feet) /- 2 2	aterial Preserve Glass Unpress HCI lastic NaOH	(S.U.) 7.26 6.66 6.59 6.57 6.57 6.59 6.57 6.59	(mV) -75 -56 -59 -63 -65 -65 -65 -65 -65 -65 -65	(mS/cm) 0 761 0 939 0 410 0 400 0 337 0 325 0 335 0 335 TEX iide	(NTU) 9.6 7.7 4.1 5.0 5.2 3.9 Method EPA Me EPA Me EPA Me EPA Me	dethod 8270 ethod 335.4 ethod 200.7	(g/L)

National Grid Kingsley Avenue, Rome, New York	
Sampling Personnel:	Date: 6 7
Job Number: 06-02882-134400-221	Weather: CEAR - SON
Well Id. LTMW-D04	Time In: [150 Time Out: (2:30
, , , , , , , , , , , , , , , , , , ,	11110 III. 17.0 W. 17.110 Oct. 17.110
Well Information TOC	Other Well Type: Flushmount Stick-Up
Depth to Water: (feet) 8,43	Well Locked: Yes No
Depth to Bottom: (feet) 46.36	Measuring Point Marked: Yes No
Depth to Product: (feet)	Well Material: PVC SS Other:
Length of Water Column: (feet) 37-93	Well Diameter: 1" 2" Other:
Volume of Water in Well: (gal) 6.06 Three Well Volumes: (gal) /8.20	Comments:
Three Well Volumes: (gal) / 8 20	
Purging Information	
Tubing/Bailer Material: Teflon Stainle	Conversion Factors gal/ft. 1" ID 2" ID 4" ID 6" ID of water 0.04 0.16 0.66 1.47 1 gallon=3.785L=3785mL=1337cu. feet
Duration of Pumping: (min) 30	1 gallott=3.765E=3760fftE=13376d. Jeec
	L Did well go dry? Yes No
YSI 6920 or Horiba U-52 Water Quality Meter Used?	Yes No No
Time DTW Temp pH	ORP Conductivity Turbidity DO TDS
(feet) (°C) (S.U.)	(mV) (mS/cm) (NTU) (mg/L) (g/L) (g/L) (BB-1 1-59 G-278
11:50 9.18 19.51 7.34	
12:00 9.14 16:40 7.81	-76 0.464 57.8 0.00 0.303
12:05 0.49 16:09 7-79	
12:10 9.45 15.99 7.78	5 - 98 0.510 572 0.00 0.326
12:15 9:15 15.71 7.7	1 -191 0.515 47.2 0.00 0.330
12:20 9.45 15.70 7.76	0-179 8-514 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

Quantity	Size	Material	Preservative	Compounds analyzed	Method
2	1 L	Glass	Unpreserved	SVOC PAH's	EPA Method 8270
3	40 mL	Glass	HCI	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

Comments/Notes:

Duplicate? MS/MSD?

Yes	No	>
Yes	Nο	\sum

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

Laboratory:

Date:		4						
Well Information	Sampling Personnel:	W			Date: (6/2/17		
Well Information	Job Number: 06-0288	2-134400-221			Weather:	BUNIA	708	
TOC Other Other	Well Id. LTMW-S	04			Time In:	12:30	Time Out	t: /3:20
TOC Other Other						1		
Depth to Water:	Well Information			<u>.</u> .			r	
Depth to Bottom:	Darth to Motor:	/s> [Other	• •			
Depth to Product	11.2.						€>	⊢ –−1
Length of Water Column:		<u>``</u>			-			
Volume of Water in Well: (gal) 1, \(\sum 2 \)			7				<u> </u>	
Purging Information								
Purging Method:	Three Well Volumes:							
Purging Method:								
Purging Method:								
Purging Method: Peristalic Stainless St. Stainless St.	Purging Information	n						—
Tubing/Bailer Material: Teflon Stainless St. Polyethylene Sampling Method: Bailer Peristatic	Division Mathods	D - 1	—	abla		1.0		
Sampling Method: Bailor Peristatic Grundros Pump Water 0.04 0.16 0.66 1.47				<u> </u>	· k————————————————————————————————————		ו זטן צוט	4 10 0 10
Average Pumping Rate:	<u> </u>			· · · · · · · · · · · · · · · · · · ·		1	0.04 0.16	0.66 1.47
Duration of Pumping:	<u> </u>				ilos i dinp		<u> </u>	
Total Volume Removed:					,	Λ / / ''	<u> </u>	712 102 121
Time			1. rata MLD	id well go dry?	Yes No	AT .		
Time					L	7		
	1310320 01 110110a 0-32	Water Quality Meter C	/Seu / 165		***			
	∏ Time DTW	/ Temp	nH	ORP	Conductivity	Turbidity	I DO	TDS
	i.l	• •	· ·	i .	1		l .	1
12.56		4 4 4		197		aut 1		
Sampling Information:	12-45 7-5	8 16-34	6.06	282	0-262			77
12:55			605		0.283	L		
13:10 7-65 16-36 6-04 318 0.254 2.7 0-00 0.165 13:10 7-65 16-23 0-04 321 0.255 2.8 0.00 0.166			6.05		0255	7 1		0.166
Sampling Information:		- 1 / CA /		300			0-00	0.166
Sampling Information: Quantity Size Material Preservative Compounds analyzed Method				2/2		2 · T	0.00	0.663
QuantitySizeMaterialPreservativeCompounds analyzedMethod21 LGlassUnpreservedSVOC PAH'sEPA Method 8270340 mLGlassHCIVOC's & BTEXEPA Method 82601250 mLPlasticNaOHTotal CyanideEPA Method 335.41250 mLPlasticHNO3Total MetalsEPA Method 200.7 Sample ID: LTMW-S04-0617	15:10 1.6	5 10.23	6.04	321	0.200	27	0.00	10.166
QuantitySizeMaterialPreservativeCompounds analyzedMethod21 LGlassUnpreservedSVOC PAH'sEPA Method 8270340 mLGlassHCIVOC's & BTEXEPA Method 82601250 mLPlasticNaOHTotal CyanideEPA Method 335.41250 mLPlasticHNO3Total MetalsEPA Method 200.7 Sample ID: LTMW-S04-0617								
QuantitySizeMaterialPreservativeCompounds analyzedMethod21 LGlassUnpreservedSVOC PAH'sEPA Method 8270340 mLGlassHCIVOC's & BTEXEPA Method 82601250 mLPlasticNaOHTotal CyanideEPA Method 335.41250 mLPlasticHNO3Total MetalsEPA Method 200.7 Sample ID: LTMW-S04-0617			: r					
QuantitySizeMaterialPreservativeCompounds analyzedMethod21 LGlassUnpreservedSVOC PAH'sEPA Method 8270340 mLGlassHCIVOC's & BTEXEPA Method 82601250 mLPlasticNaOHTotal CyanideEPA Method 335.41250 mLPlasticHNO3Total MetalsEPA Method 200.7 Sample ID: LTMW-S04-0617								
QuantitySizeMaterialPreservativeCompounds analyzedMethod21 LGlassUnpreservedSVOC PAH'sEPA Method 8270340 mLGlassHCIVOC's & BTEXEPA Method 82601250 mLPlasticNaOHTotal CyanideEPA Method 335.41250 mLPlasticHNO3Total MetalsEPA Method 200.7 Sample ID: LTMW-S04-0617								
2 1 L Glass Unpreserved SVOC PAH's EPA Method 8270 3 40 mL Glass HCI 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 Duplicate? Yes No Shipped: Drop-off Syracuse Service Center Pick-up by Syracuse Courier Comments/Notes: Laboratory: PACE Analytical	Sampling Information:							
2 1 L Glass Unpreserved SVOC PAH's EPA Method 8270 3 40 mL Glass HCI 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 Duplicate? Yes No Shipped: Drop-off Syracuse Service Center Pick-up by Syracuse Courier Comments/Notes: Laboratory: PACE Analytical				***************************************				
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 Duplicate? Yes No Shipped: Drop-off Syracuse Service Center Sample Time: //3:/o MS/MSD? Yes No Laboratory: PACE Analytical								
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 Duplicate? Yes No Shipped: Drop-off Syracuse Service Center Pick-up by Syracuse Courier Sample Time: /3:/0 MS/MSD? Yes No Laboratory: PACE Analytical	f <u></u>		erved					
Sample ID: LTMW-S04-0617 Duplicate? Yes No Shipped: Drop-off Syracuse Service Center Pick-up by Syracuse Courier Sample Time: 1370 MS/MSD? Yes No Laboratory: PACE Analytical								
Sample ID: LTMW-S04-0617 Duplicate? Yes No Shipped: Drop-off Syracuse Service Center Pick-up by Syracuse Courier Comments/Notes: Laboratory: PACE Analytical			***************************************					
Sample Time: /3:/O MS/MSD? Yes No Pick-up by Syracuse Courier Laboratory: PACE Analytical	1 AUTHL	Plastic minus		TULdi Mici	ais	EFA IVI	ethou 200.7	
Sample Time: /3:/O MS/MSD? Yes No Pick-up by Syracuse Courier Laboratory: PACE Analytical	1							
Comments/Notes: Laboratory: PACE Analytical	Sample ID: ITMW-SI	14_0617 Dur	vlicate?		1 Sh	inned. Dron-off	Curacuea Senio	o Confor
					¥		-	}
	Sample Time: 13					Pick-u	p by Syracuse (Courier

Weather:		The second secon		· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·
Well Information	Sampling Personnel: A5	· · · · · · · · · · · · · · · · · · ·		0/7/17		
Well Information	Job Number: 06-02882-134400-221		Weather:	GYOF,	SUNNY	
Well Information	Well ld. LTMW-D05		Time In:		/	t: 1230
TCC						
Depth to Water		TOC - 0th-	M/all Toma	=	, <u>, , , , , , , , , , , , , , , , , , </u>	a
Depth to Bottom:	***************************************				K7	
Depth to Product					⊱ —}	⊢
Length of Water Column:	(!					
Purging Information	Length of Water Column: (feet) 38	.7/	Well Dian	neter: 1		-
Purging Information	· · · · · · · · · · · · · · · · · · ·		Comment	s:		
Conversion Factors Grundfos Pump Full Peristatic Stainless St. Peristatic Peristatic Stainless St. Stainless St. Peristatic Stainless St. Stainless St. Peristatic Peristatic Stainless St. Peristatic Peristatic Peristatic Stainless Stainless St. Peristatic Perista	Three Well Volumes: (gal)	8.5				
Conversion Factors Grundfos Pump Peristatic Stainless St. Stainless St. Peristatic Stainless St. Peristatic Stainless St. Stainless St. Peristatic Stainless St. Grundfos Pump Peristatic Stainless St. Grundfos Pump Peristatic Stainless St. Peristatic Stainless St. Grundfos Pump Peristatic Grundfos Pump Grundfos Pump Peristatic Grundfos Pump Grundfos Pump Grundfos Pum					······································	
Conversion Factors Gaundfos Pump Folyethylene Grundfos Pump Grundfos Pump Folyethylene Grundfos Pump Grundfos Pump Folyethylene Grundfos Pump Grundfos Pump Grundf	Purging Information			············		
Purging Method: Bailer Teffon Stainless St. Pointaltic Sampling Method: Bailer Teffon Stainless St. Pointaltic Polyethylene Soundfos Pump Polyethylene Soundfo	r drying mornation				Conversion	Factors
Tubing/Bailer Material: Teffon Stainloss St. Polyethylene Grundfos Pump Off O.04 O.16 O.66 1.47 Average Pumping Rate: 250 (m/min) 1 gallon=3.786L=3765mL=1337ou. feet Duration of Pumping: 30 (m/min) Total Volume Removed: 3 (gal) Did well go dry? Yes No VSI 6920 or Horiba U-52 Water Quality Meter Used? Yes No No No VSI 6920 or Horiba U-52 Water Quality Meter Used? Yes No No VSI 6920 or Horiba U-52 Water Quality Meter Used? Yes No No VSI 6920 or Horiba U-52 Water Quality Meter Used? Yes No No VSI 6920 or Horiba U-52 Water Quality Meter Used? Yes No VSI 6920 or Horiba U-52 Water Quality Meter Used? Yes No No VSI 6920 or Horiba U-52 Water Quality Meter Used? Yes No No VSI 6920 or Horiba U-52 Water Quality Meter Used? Yes No No No No No No No N	Purging Method: Bailer	Peristaltic X	Grundfos Pump	nal/ft	··········	
Sampling Method: Bailer Peristallic Grundfos Pump Mater 0.04 0.16 0.66 1.47			· 	1 -	1 1 1	1 10 10 10
Did volume Removed: 3 (gal) Did well go dry? Yes No No No No No No No No	Sampling Method: Bailer			I	0.04 0.16	0.66 1.47
Total Volume Removed:	Average Pumping Rate: 250 (ml/min)	<u> </u>	· · · · · · · · · · · · · · · · · · ·	1 gal	lon=3.785L=3785i	mL=1337cu. feet
Time			·			
Time	Total Volume Removed: 3 (gal)	Did well	go dry? Yes No	محر		
Time	YSI 6920 or Horiba U-52 Water Quality Meter Use	d? Yes ∑No				
	Time DTW Temp	рН О	RP Conductivity	Turbidity	DO	TDS
1/5					(mg/L)	(g/L)
1155	} }					
Sampling Information: Samp			3 0.340			
1.05 1.37 15.23 \$.60 3/ 0.339 9.44 1.11 0.220		$\alpha \sim 1 + 1$	1 01779			
Sampling Information: Quantity Size Material Preservative Compounds analyzed Method					1 1.73 3	
Sampling Information: Quantity Size Material Preservative Compounds analyzed Method	//	6.00 33			7.0 2	
Sampling Information: Quantity Size Material Preservative Compounds analyzed Method	//	8.60 .3	0.339		1.11	0.220
QuantitySizeMaterial PreservativeCompounds analyzedMethod21 LGlassUnpreservedSVOC PAH'sEPA Method 8270340 mLGlassHClVOC's & BTEXEPA Method 82601250 mLPlasticNaOHTotal CyanideEPA Method 335.41250 mLPlasticHNO3Total MetalsEPA Method 200.7 Sample ID: Sample ID: LTMW-D05-0617 Duplicate? Yes No	//	8.60 3	0.339		1.11	0.220
QuantitySizeMaterial PreservativeCompounds analyzedMethod21 LGlassUnpreservedSVOC PAH'sEPA Method 8270340 mLGlassHClVOC's & BTEXEPA Method 82601250 mLPlasticNaOHTotal CyanideEPA Method 335.41250 mLPlasticHNO3Total MetalsEPA Method 200.7 Sample ID: Sample ID: LTMW-D05-0617 Duplicate? Yes No	//	8.60 3	0.339		1.11	0.220
QuantitySizeMaterial PreservativeCompounds analyzedMethod21 LGlassUnpreservedSVOC PAH'sEPA Method 8270340 mLGlassHClVOC's & BTEXEPA Method 82601250 mLPlasticNaOHTotal CyanideEPA Method 335.41250 mLPlasticHNO3Total MetalsEPA Method 200.7 Sample ID: Sample ID: LTMW-D05-0617 Duplicate? Yes No	//	8.60 3	0.339		1.11	0.220
QuantitySizeMaterial PreservativeCompounds analyzedMethod21 LGlassUnpreservedSVOC PAH'sEPA Method 8270340 mLGlassHClVOC's & BTEXEPA Method 82601250 mLPlasticNaOHTotal CyanideEPA Method 335.41250 mLPlasticHNO3Total MetalsEPA Method 200.7 Sample ID: Sample ID: LTMW-D05-0617 Duplicate? Yes No	//	8.60 3	0.339		1.11	0.220
QuantitySizeMaterial PreservativeCompounds analyzedMethod21 LGlassUnpreservedSVOC PAH'sEPA Method 8270340 mLGlassHClVOC's & BTEXEPA Method 82601250 mLPlasticNaOHTotal CyanideEPA Method 335.41250 mLPlasticHNO3Total MetalsEPA Method 200.7 Sample ID: Sample ID: LTMW-D05-0617 Duplicate? Yes No	//	8.60 3	0.339		1.11	0.220
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 Duplicate? Yes No Shipped: Drop-off Syracuse Service Center Pick-up by Syracuse Courier	12.0 1.70 15.23 12.10 1.70 15.31 12.15 11.89 15.31	8.60 3	0.339		1.11	0.220
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 Duplicate? Yes No Shipped: Drop-off Syracuse Service Center Pick-up by Syracuse Courier	12.0 1.70 15.23 12.10 1.70 15.31 12.15 11.89 15.31	8.60 3	0.339		1.11	0.220
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 Duplicate? Yes No Shipped: Drop-off Syracuse Service Center Pick-up by Syracuse Courier	13.05 1.37 15.23 12.10 1.70 15.31 13.15 13.15 15.31 13.15 15.31	8.60 ·31 8.61 ·30 8.41 ·3	0.339 0.338 9 0.337	4.4 3.9 3.4	1.11	0.220
1 250 mL Plastic NaOH Total Cyanide EPA Method 335.4 1 250 mL Plastic HNO3 Total Metals EPA Method 200.7 Sample ID: Sample Time: MS/MSD? Yes No Shipped: Drop-off Syracuse Service Center Pick-up by Syracuse Courier	130 1.70 15.33 13.10 1.70 15.31 13.15	\$.60 3, \$.61 3, \$.41 3, \$.41 3,	0.339 0.338 7 0.337	4.4 3.9 3.4	1.11 1.19 1.20	0.220
1 250 mL Plastic HNO3 Total Metals EPA Method 200.7 Sample ID: LTMW-D05-0617 Duplicate? Yes No Shipped: Drop-off Syracuse Service Center Pick-up by Syracuse Courier	1305 1.37 15.33 12.10 1.70 15.31 12.15 12.89 1.50 1.70 1.	\$.40 \ 30 \ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	0.339 0.338 7 0.337 mpounds analyzed	Y.Y. 3.9 3. Y Metho	od ethod 8270	0.220
Sample ID: LTMW-D05-0617 Duplicate? Yes No Shipped: Drop-off Syracuse Service Center Pick-up by Syracuse Courier	1305 1.37 15.23 12.10 1.70 15.31 1.70 15.31 1.75 1.89 1.5.31 1.75 1.89 1.5.31 1.89	S.40 30 30 30 30 30 30 30	mpounds analyzed DC PAH's C's & BTEX	Methode EPA MEPA M	od ethod 8270 ethod 8260	0.220
Sample Time:	1305 1.37 15.23 12.10 1.70 15.31 1.70 15.31 1.70 15.31 1.70 15.31 1.70 1	S. 40 3 S. 40 3 S. 40 3 S. 40 3 S. 40 S. 4	mpounds analyzed DC PAH's C's & BTEX al Cyanide	Methode EPA MEPA MEPA MEPA MEPA MEPA MEPA MEPA	od ethod 8270 ethod 8260 ethod 335.4	0.220
Sample Time:	1305 1.37 15.23 12.10 1.70 15.31 1.70 15.31 1.70 15.31 1.70 15.31 1.70 1	S. 40 3 S. 40 3 S. 40 3 S. 40 3 S. 40 S. 4	mpounds analyzed DC PAH's C's & BTEX al Cyanide	Methode EPA MEPA MEPA MEPA MEPA MEPA MEPA MEPA	od ethod 8270 ethod 8260 ethod 335.4	0.220
CommentalNation	Nos 1.37 15.23 12.10 1.70 15.31 1.70 15.31 1.70 15.31 1.70 15.31 1.70 1.	S.40 3 S.40 3 S.40 3 S.40 3 S.40	mpounds analyzed DC PAH's C's & BTEX al Cyanide al Metals	Metho EPA M EPA M EPA M	od ethod 8270 ethod 8260 ethod 335.4 ethod 200.7	0.220 0.240 0.219
Comments/Notes: It I shoretone PACE Analytical I	Nos 1.37 15.23 12.10 1.70 15.31 1.70 15.31 1.70 15.31 1.70 15.31 1.70 1.	S. 40 3 3 5 6 4 3 5 6 6 6 6 6 6 6 6 6	mpounds analyzed DC PAH's C's & BTEX al Cyanide al Metals No Sh	Methor EPA M EPA M EPA M EPA M	od ethod 8270 ethod 8260 ethod 335.4 ethod 200.7	6.220 6.219
Comments/Notes: Laboratory: PACE Analytical Greensburg, PA	Nos 1.37 15.23 12.10 1.70 15.31 1.70 15.31 1.70 15.31 1.70 15.31 1.70 1.	S. 40 3 3 5 6 4 3 5 6 6 6 6 6 6 6 6 6	mpounds analyzed DC PAH's C's & BTEX al Cyanide al Metals No	Methor EPA M EPA M EPA M EPA M	ethod 8270 ethod 8260 ethod 335.4 ethod 200.7	6.220 6.219

<u>-</u>	. A			***	, <u>, , , , , , , , , , , , , , , , , , </u>		William Committee
Sampling Personne				W	2/7/17		
Job Number: 06-02			 	Weather:			
Well Id. LTMW	-S05			Time In:	ルラ0	Time Out:	
Well Information	on						
		TOC	Other	Well Type			Stick-Up
Depth to Water:	(feet)	7.67 16.83		Well Lock		Yes	No
Depth to Bottom: Depth to Product:	(feet) (feet)	10.03 NP		Well Mate	Point Marked:	Yes South	No her:
Length of Water Co		9.16		Well Dian		2" Oth	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Volume of Water in		1.4		Comment	s:		***************************************
Three Well Volumes	: (gal)	4.3					
Purging Informa	tion						
rurging intoffna	11011					Conversion F	Factors
Purging Method:	Baile	r Peristaltio	Grund	lfos Pump	gal/ft.	1" ID 2" ID	
Tubing/Bailer Materi	al: Teflor	n Stainless St	. Po	lyethylene	of		
Sampling Method:	Baile	r Peristaltic	Grund	fos Pump	water	 	•
Average Pumping R		<u>.</u>			1 gall	on=3.785L=3785n	nL=1337cu. feet
Duration of Pumping Total Volume Remo			id well go dry?	Yes No			
	(5.7)			resno			
YSI 6920 or Horiba U-	52 Water Quality Meter	Used? Yes	No No				
Time D	Temp	рН	ORP	Conductivity	Turbidity	DO	TDS
	et) (°C)	(S.U.)	(mV)	(mS/cm)	(NTU)	(mg/L)	(g/L)
	10 100	7.94	101	MACI	1 121 1		
	el 15.15			0.404	14.1	2.28	0.259
1240 7.0	27 14.62	7.20	199	0.467	19.3	3.21	0.303
1240 7.0	27 14.62 67 13.89	7.20	199	0.469		303	0.303
1240 7.6 1245 7.6 1250 7.6	07 14.42 47 13.89 47 13.62	7.20	199 236 250	0.467	19.3	303	0.303
1240 7.0 1245 7.0 1250 7.0 1255 7.0	27 14.62 47 13.89 47 13.62 47 13.71	7.20 7.08 7.03 7.01	199 236 250 259	8.467 6.470 6.470 6.472 6.478	19.3 9.3 4.3	3.21	0.303
1250 7.0 1250 7.0 1255 7.0	27 14.62 47 13.89 47 13.62 47 13.71	7.20	199 236 250 254	0.467	19.3	321	0.303
1240 7.0 1245 7.0 1250 7.0 1255 7.0 1300 7.0	27 14.62 47 13.89 47 13.62 47 13.71	7.20 7.08 7.05 7.01 7.00	199 236 250 259	8.467 6.470 6.470 6.472 6.478	19. M 9. C Vo	3.21	0.303
1240 7.0 1245 7.0 1250 7.0 1255 7.0 1300 7.0	27 14.62 47 13.89 47 13.62 47 13.71	7.20 7.08 7.05 7.01 7.00	199 236 250 259	8.467 6.470 6.470 6.472 6.478	19. M 9. C Vo	3.21	0.303
1240 7.0 1245 7.0 1250 7.0 1255 7.0 1300 7.0	27 14.62 47 13.89 47 13.62 47 13.71	7.20 7.08 7.05 7.01 7.00	199 236 250 259	8.467 6.470 6.470 6.472 6.478	19. M 9. C Vo	3.21	0.303 0.305 0.306 0.307
1240 7.0 1245 7.0 1250 7.0 1255 7.0 1300 7.0	27 14.62 47 13.89 47 13.62 47 13.71	7.20 7.08 7.05 7.01 7.00	199 236 250 259	8.467 6.470 6.470 6.472 6.478	19. M 9. C Vo	3.21	0.303 0.305 0.306 0.307
1240 7.0 1245 7.0 1250 7.0 1255 7.0 1300 7.0	27 14.62 47 13.89 47 13.62 47 13.61 47 13.81 47 13.78	7.20 7.08 7.05 7.01 7.00	199 236 250 259	8.467 6.470 6.470 6.472 6.478	19. M 9. C Vo	3.21	0.303
1240 7.0 1245 7.0 1250 7.0 1253 7.0 1300 7.0	97 14.62 47 13.89 47 13.62 47 13.71 47 13.78	7.20 7.08 7.05 7.00 7.00	199 230 250 254 259 267	8.467 6.470 6.470 6.472 6.478	19. M 9. C Vo	3.21 3.03 2.99 2.99 2.94 2.82	0.303
1240 7.6 1250 7.6 1250 7.6 1300 7.6 1305 7.6	27 14.62 47 13.89 47 13.62 47 13.71 47 13.78 27 13.78 201:	7.20 7.08 7.05 7.00 7.00	236 259 259 259 267 Compoun	8.467 0.470 0.472 0.478 0.489 ds analyzed	19.3 9.3 6.4 8.1 5.8 3.0 Metho	3.21 3.37 2.97 2.99 2.94 2.82	0.303
1240 7.6 1250 7.6 1250 7.6 1250 7.6 1300 7.6 1305 7.6 130	27 13.89 47 13.89 47 3.71 47 3.78 27 3.78 27 3.78 27 3.78 27 3.78 28 13.78	7.20 7.08 7.05 7.00 7.00 7-01	230 250 257 257 267 267 Compoun SVOC PAI VOC's & E	0.467 0.470 0.470 0.478 0.489 ds analyzed	Metho EPA M	3.21 3.97 2.99 2.94 2.82 dethod 8270 ethod 8260	0.303
1240 7.6 1250 7.6 1250 7.6 1250 7.6 1300 7.6 1300 7.6 1300 7.6 1300 7.6 1300 7.6 1300 7.6 1250 125	97 14.62 13.89 17 13.62 17 13.71 17 13.78 91 13.78 91 13.78 91 13.78 91 13.78 91 13.78 91 13.78	7.20 7.08 7.00 7.00 7.00 7-01	236 257 257 257 267 267 Compoun SVOC PA VOC's & E Total Cyal	0.467 0.470 0.470 0.478 0.489 0.489 ds analyzed H's TEX	Metho EPA M EPA M EPA M	3.21 3.97 2.99 2.94 2.82 dethod 8270 ethod 8260 ethod 335.4	0.303
1240 7.6 1250 7.6 1250 7.6 1250 7.6 1300 7.6 1305 7.6 130	97 14.62 13.89 17 13.62 17 13.71 17 13.78 91 13.78 91 13.78 91 13.78 91 13.78 91 13.78 91 13.78	7.20 7.08 7.00 7.00 7.00 7-01	230 250 257 257 267 267 Compoun SVOC PAI VOC's & E	0.467 0.470 0.470 0.478 0.489 0.489 ds analyzed H's TEX	Metho EPA M EPA M EPA M	3.21 3.97 2.99 2.94 2.82 dethod 8270 ethod 8260	0.303
1250 7.6 1250 7.6 1250 7.6 1250 7.6 1250 7.6 1250 7.6 1250 7.6 1250	m: Material Present Glass Unpresent L Glass HCI nL Plastic NaOH	7.20 7.08 7.05 7.00 7.00 7-01	Compoun SVOC PA VOC's & E Total Cyar	ds analyzed H's TEX nide als	Metho EPA M EPA M EPA M	2.97 2.99 2.99 2.94 2.82 ethod 8270 ethod 8260 ethod 335.4 ethod 200.7	0.303 0.303 0.306 6.307 0.310 0.317
1250 7.6 1250 7.6 1250 7.6 1250 7.6 1250 7.6 1250 7.6 1250	m: Material Preserved Plastic NaOH Plastic HNO3 Plastic NaOH Plastic NaOH Plastic HNO3 Plastic NaOH Plastic HNO3 Plastic NaOH Plastic N	7.20 7.08 7.00 7.00 7-01 rvative served	236 257 257 257 267 267 Compoun SVOC PA VOC's & E Total Cyal	ds analyzed H's TEX nide als	Metho EPA M EPA M EPA M EPA M	2.97 2.99 2.99 2.94 2.82 ethod 8270 ethod 8260 ethod 335.4 ethod 200.7	0.303 0.303 0.306 6.307 0.310 0.317
1250 7.6 1250 7.6 1250 7.6 1250 7.6 1250 7.6 1250 7.6 1250	mi: Material Preservation 13.84 13.84 13.78	7.20 7.08 7.00 7.00 7-01 7.00 7-01	Compound SVOC PAINT Total Met	ds analyzed H's TEX nide als	Metho EPA M EPA M EPA M EPA M	2.97 2.99 2.99 2.82 2.82 ethod 8270 ethod 8260 ethod 335.4 ethod 200.7	0.303 0.303 0.305 0.306 6.307 0.370 0.370 0.370

Tungoloy 710	ende, rome, r	tow ronk								
Sampling Pe	ersonnel: #	打			Date: 💪	[דולה]		**************************************		
Job Number: 06-02882-134400-221					Weather:	/ 8 -				
Well Id.	LTMW-D06			·····	Time In:	1340	Time Ou	t: 1430		
7707737					mio in.	1-10	Time Cu	11. 1. 1. 1. 1.		
Well Ir	nformation									
			TOC	Other	Well Type	: Flu	ushmount	Stick-Up		
Depth to Wa		(feet)	10.01		Well Lock		Yes	No		
Depth to Bo	*	(feet)	52.22			Point Marked:	Yes	No		
Depth to Pro		(feet)	NP		Well Mate		<u> </u>	ther:		
	/ater Column: Vater in Well:	(feet) (gal)	42.21		Well Diam Comments		" <u>2</u> " <u>0</u> 0	ther:		
Three Well \		(gal)	20.2		Oumneau	5.				

Purging	Information									
		***************************************		K21			Conversion			
Purging Met		Baile		F	dfos Pump	gal/ft	. 1" ID 2" ID	4" ID 6" ID		
Tubing/Baile Sampling Me		Teflor	\blacksquare		olyethylene	of	0.04 0.16	0.66 1.47		
:	etnod: mping Rate: 人	Baile	r Peristaltio	Grund	dfos Pump	wate	r 0.04 0.16 Ilon=3.785L=3785			
Duration of F		30 (min)				1 90	11011=3.703L-3700	ML=1337CU, leet		
Total Volume	············	3 (gal)		Did well go dry	? Yes No	Z				
YSI 6920 or H	loriba U-52 Wate			s No 🗌	1	L				
10,0020 0	Ottoba O OZ . T.S.	21 Secretary 171010.	Obeu: roc	<u> </u>		***				
Time	DTW	Temp	рН	ORP	Conductivity	Turbidity	T DO	TDS		
	(feet)	(°C)	(S.U.)	(mV)	(mS/cm)	(NTU)	(mg/L)	(g/L)		
1345	1155	23.49	8.28	159	0.348	22.3	3.66	0226		
1350	11.50	23.19	9.31	156	0.342	21.9	2.22	0.223		
13.55	11.51	21.51	8.34	150	0.332	19.6	0.75	0.216		
1405	11.52	21.85	8.33	139	0.329	15.0		0.214		
1410	1159	21.11	9,31	135	0.329	8.5	0.19	0.214		
1414	11.57	20.03	8.28	130	0.334	7.0	0.13	0.217		
		, (AL III)				<u> </u>				
				<u> </u>	1					
					11					
Sempling In	formation.			***************************************						
Sampling In	Tormation:									
Quantity	Size M	aterial Preser	vative	Compour	nds analyzed	Meth	nd			
2			served	SVOC PA	<u> </u>		lethod 8270			
3		Glass HCl		VOC's & E			1ethod 8260			
	250 5	Plastic NaOH		Total Cya	nide	EPA N	1ethod 335.4			
1										
1		Plastic HNO3		Total Met		EPA N	lethod 200.7			
1	250 mL P	Plastic HNO3		Total Met	tals					
1 Sample ID:	250 mL P	Plastic HNO3 1617 Du	plicate?	Total Met	tals Shi	pped: Drop-of	ff Syracuse Servic			
1	250 mL P	Plastic HNO3 1617 Du	plicate?	Total Met	tals Shi	pped: Drop-of				
1 Sample ID:	250 mL P	Plastic HNO3 1617 Du	plicate?	Total Met	sals Shi	pped: Drop-of	ff Syracuse Servic	Courier		

Sampling Pe	rsonnel:	45			Date:	6/5/17		
Job Number: 06-02882-134400-221				Weather:	Weather: 7/0F, Sunny			
Well Id.	LTMW-S06				Time In:	1430	Time Ou	ıt: 1526
Well In	formation	_	-					5 7
Depth to Wa	tar	(fact)	TOC 11. 42	Other	Well Type Well Lock		shmount	Stick-Up
Depth to Bot		(feet)	17.60			ed: Point Marked:	Yes Yes	No No
Depth to Pro		(feet)	NP		Well Mate		<u> </u>	other:
Length of Wa		(feet)	4.18		Well Dian		F	ther:
Volume of W		(gal)	1.0		Comment	s:	***************************************	
Three Well V	'olumes:	(gal)	3.0					
Purging I	nformation				· · · · · · · · · · · · · · · · · · ·			***************************************
, 5,5,15	11101111011011	met					Conversion	Factors
Purging Meth	nod:	Bailer	r Peristaltic	Grune	dfos Pump	gal/ft.	1" ID 2" ID	
Tubing/Bailer		Teflon	Stainless St.	F	lyethylene	of		
Sampling Me		Bailer	Peristaltic	Grund	ffos Pump	water		
***************************************	nping Rate: 🔏		w			1 gal	lon=3.785L=3785	imL=1337cu. feet
Duration of P Total Volume		30 (min) 3 (gal)		id well go dry'	? Yes No	rc.		
					YesINU			
YSI 6920 or Ho	oriba U-52 Wate	er Quality Meter U	Jsed? Yes	No No				
II Time	DTM/	T T	T	T ODD	10 10			
Time	DTW (feet)	Temp (°C)	pH (S.U.)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	TDS (g/L)
II I			I LO.U.I	1 (HIV)			(11)(1/1)	
1435								7.27
1440	11.45	17.90	7.84	1/25	0.453	67	0.16	0.391
1440	11.45 11.46 11.45	7.90			0.453		0.16	0.864
1440 1445 1450	11.45 11.46 11.45 11.44	17.90 13.31 12.95 12.94	7.84 7.11 6.93 6.91	69	0.653	13.0 15.3 13.2	0.16 0.28 0.27 0.10	0.864 0.864 0.952
1440 1445 1450 1455	//.45 //.46 //.45 //.44	17.90 13.31 12.95 12.94 12.96	7.84 7.11 6.93 6.91 6.90	69 -8 -15 -14 -14	0.653	R7 13.0 15.3	0.16 0.28 0.27 0.10 0.00	0.39/ 0.864 0.952 0.952
1446 1445 1450 1455 1500	11.45 11.46 11.45 11.44 11.46	17.90 13.31 12.95 12.94 12.96 12.94	7.84 7.11 6.93 6.91 6.90	69 -18 -14 -14 -13	0.653 81.36 1.47 1.49 1.49	F. 7 13.0 15.3 13.2 4.1 7.4	0.16 0.28 0.27 0.10 0.00	0.39/ 0.864 0.952 0.952 0.954
1440 1445 1450 1455	//.45 //.46 //.45 //.44	17.90 13.31 12.95 12.94 12.96	7.84 7.11 6.93 6.91 6.90	69 -8 -15 -14 -14	0.653	13.0 15.3 13.2	0.16 0.28 0.27 0.10 0.00	0.39/ 0.864 0.952 0.954
1446 1445 1450 1455 1500	11.45 11.46 11.45 11.44 11.46	17.90 13.31 12.95 12.94 12.96 12.94	7.84 7.11 6.93 6.91 6.90	69 -18 -14 -14 -13	0.653 81.36 1.47 1.49 1.49	F. 7 13.0 15.3 13.2 4.1 7.4	0.16 0.28 0.27 0.10 0.00	0.39/ 0.864 0.952 0.952 0.954
1446 1445 1456 1455	11.45 11.46 11.45 11.44 11.46	17.90 13.31 12.95 12.94 12.96 12.94	7.84 7.11 6.93 6.91 6.90	69 -18 -14 -14 -13	0.653 81.36 1.47 1.49 1.49	F. 7 13.0 15.3 13.2 4.1 7.4	0.16 0.28 0.27 0.10 0.00	0.39/ 0.864 0.952 0.952 0.954
1445 1450 1455 1500	11.45 11.46 11.45 11.44 11.46	17.90 13.31 12.95 12.94 12.96 12.94	7.84 7.11 6.93 6.91 6.90	69 -18 -14 -14 -13	0.653 81.36 1.47 1.49 1.49	F. 7 13.0 15.3 13.2 4.1 7.4	0.16 0.28 0.27 0.10 0.00	0.39/ 0.864 0.952 0.952 0.954
1445 1450 1455 1500 1505	.45 .46 .45 .44 .46 .46	17.90 13.31 12.95 12.94 12.96 12.94	7.84 7.11 6.93 6.91 6.90	69 -18 -14 -14 -13	0.653 81.36 1.47 1.49 1.49	F. 7 13.0 15.3 13.2 4.1 7.4	0.16 0.28 0.27 0.10 0.00	0.39/ 0.864 0.952 0.954 0.953
1446 1445 1456 1455	.45 .46 .45 .44 .46 .46	17.90 13.31 12.95 12.94 12.96 12.94	7.84 7.11 6.93 6.91 6.90	69 -18 -14 -14 -13	0.653 81.36 1.47 1.49 1.49	F. 7 13.0 15.3 13.2 4.1 7.4	0.16 0.28 0.27 0.10 0.00	0.39/ 0.864 0.952 0.954 0.953
1445 145 1450 1455 1500 1505	.45 .46 .46 .46 .46	17.90 13.31 12.95 12.94 12.94 12.99	7.84 7.11 6.93 6.90 6.90 6.89	69 -8 -15 -14 -14 -13 -12	0453 81.36 1.47 1.49 1.49 1.48	F. 7 13.0 15.3 13.2 4.1 7.4 1.60	0.16 0.28 0.27 0.10 0.00 0.00	0.39/ 0.864 0.952 0.954 0.953
1445 1450 1455 1500 1505 Sampling Info	//. 43 //. 46 //. 46 //. 46 //. 46 //. 46 //. 46	17.90 13.31 12.95 12.94 12.99 12.99	7.84 7.11 6.93 6.90 6.90 6.90	69 -8 -15 -14 -14 -13 -12	0.453 81.36 1.47 1.49 1.49 1.48	R. 7 13.0 15.3 13.2 4.1 2.4 1.6	0.16 0.28 0.27 0.10 0.00 0.00	0.39/ 0.864 0.952 0.954 0.953
1445 1450 1455 1500 1505 Sampling Info		17.90 13.31 12.95 12.90 12.90 12.99 12.99 12.99 12.99	7.84 7.11 6.93 6.90 6.90 6.90		0.453 8.36 1.47 1.49 1.48 1.48 ds analyzed H's	F. 7 13.0 /5.3 /3.2 4.1 7.4 1.60 Metho	0./6 0.28 0.27 0.10 0.00 0.00 0.00	0.39/ 0.864 0.952 0.954 0.953
1445 1450 1455 1500 1505 Sampling Info		17.90 13.95 12.95 12.99 12.99 12.99 12.99 12.99 12.99 12.99 12.99	7.84 7.11 6.93 6.90 6.90 6.90	- 8 - 15 - 14 - 14 - 13 - 12 - 12 - 12 - 12 - 12 - 12 - 12	0.453 1.47 1.49 1.49 1.48 1.48 Its	R. 7 13.0 /5.3 /3.2 4.1 7. Y 1. 6 Metho EPA M	0./6 0.28 0.27 0.10 0.00 0.00 0.00 ethod 8270 ethod 8260	0.39/ 0.864 0.952 0.954 0.953
1445 1450 1455 1500 1505 Sampling Info		17.90 13.31 12.95 12.90 12.90 12.99 12.99 12.99 12.99	7.84 7.11 6.93 6.90 6.90 6.90		ds analyzed H's TEX	Nethor EPA M EPA	0./6 0.28 0.27 0.10 0.00 0.00 0.00	0.39/ 0.864 0.952 0.954 0.953
1445 1445 1450 1500 1505 Sampling Info Quantity 2 3 1		17.90 13.36 12.95 12.96 12.99 12.99 12.99 12.99 Idass Unpresent Glass HCI	7.84 7.11 6.93 6.90 6.90 6.90	- 8 - 15 - 14 - 14 - 13 - 12 - 12 - 12 - 12 - 12 - 12 - 12 - 12	ds analyzed H's TEX	Nethor EPA M EPA	0./6 0.28 0.27 0.10 0.00 0.00 0.00 ethod 8270 ethod 8260 ethod 335.4	0.864 0.952 0.954 0.953
1445 1445 1450 1500 1505 1505 2 3 1 1 Sample ID:		aterial Preserval Andrews HCI lastic NaOH lastic HNO3	7.84 7.11 6.93 6.90 6.90 6.90 6.89	- 8 - 15 - 14 - 14 - 13 - 12 - 12 - 12 - 12 - 12 - 12 - 12 - 12	ds analyzed H's TEX nide als	Nethor EPA M EPA	d ethod 8270 ethod 200.7	0.39/ 0.864 0.952 0.954 0.953 0.953
1445 1450 1455 1500 1505 		aterial Preserval Andrews HCI lastic NaOH lastic HNO3	7.84 7.11 6.93 6.90 6.90 6.90 6.89	Compoun SVOC PAI VOC's & B Total Cyar	ds analyzed H's TEX nide als	Metho EPA M EPA M EPA M	d ethod 8270 ethod 200.7	0.39/ 0.864 0.952 0.954 0.953 0.953
1445 1445 1450 1500 1505 1505 200 1505 300 1000 10		aterial Preserval Andrews HCI lastic NaOH lastic HNO3	7.84 7.11 6.93 6.90 6.90 6.90 6.89	Compoun SVOC PAI VOC's & B Total Cyan Total Met	ds analyzed H's TEX nide als	Metho EPA M EPA M EPA M	d ethod 8270 ethod 335.4 ethod 200.7	0.39/ 0.864 0.952 0.954 0.954 0.953 0.953 0.953

Sampling Personnel: FC FD	Date: 6/7/17			
Job Number: 06-02882-134400-221	Weather: Sram 70			
Well Id. LTMW-S07	Time In: /3:30 Time Out: /4:20			
Well Information				
TOC Other	Well Type: Flushmount Stick-Up			
Depth to Water: (feet) 9.60	Well Locked: Yes No			
Depth to Bottom: (feet) 17.82	Measuring Point Marked:Yes No			
Depth to Product: (feet)	Well Material: PVC SS Other:			
Length of Water Column: (feet) & 2 Z	Well Diameter: 1" 2" Other:			
Volume of Water in Well: (gal) /-3	Comments:			
Three Well Volumes: (gal) 3,94	-10-27-			
Purging Information Purging Method: Bailer Peristaltic Grundfo	Conversion Factors os Pump			
	os Pump gal/ft. 1" ID 2" ID 4" ID 6" ID of			
	os Pump water 0.04 0.16 0.66 1.47			
Average Pumping Rate: (ml/min) 200	1 gallion=3.785L=3785mL=1337cu. feet			
Duration of Pumping: (min) 30				
Total Volume Removed: 6600 M Did well go dry?	Yes No			
YSI 6920 or Horiba U-52 Water Quality Meter Used? Yes No	·			
	Conductivity Turbidity DO TDS			
(feet) (°C) (S.U.) (mV)	(mS/cm) (NTU) (mg/L) (g/L)			
1/3:35 10.60 16.69 6.79 23				
13:40 10.50 14.48 6.87 -17				
13:40 10.50 14.48 6.87 -17	0656 14.1 0.00 0.426			
13:45 10:50 14.48 6.87 -17 13:45 10:55 12.71 6.62 -24 13:50 10:95 17.94 6.82 -24	0656 14.1 0.00 0.426 0.686 11.3 0.00 0.434 0675 10.3 0.00 0.835			
13:40 10.50 14.48 6.8+ -17 13:45 10.85 12.71 10.62 -24 13:50 10.95 17.90 6.82 -27 13:55 10.85 12.95 6.91 -27	0656 14.1 0.00 0.426 0.686 11.3 0.00 0.434 0675 10.3 0.00 0.435 0.677 4.1 0.00 0.433 0.682 3.3 0.00 0.435			
13:40 10.50 14.48 6.87 -17 13:45 10.85 12.71 6.62 -24 13:50 10.95 17.90 6.82 -27 13:55 10.95 12.45 6.81 -27 14:00 10.85 12.45 6.75 -23	0656 141 0.00 0.426 0.666 11.3 0.00 0.434 0675 10.3 0.00 0.435 0.677 4.1 0.00 0.433			
13:45 10.50 14.48 6.87 -17 13:45 10.85 12.71 6.62 -24 13:50 10.95 12.90 6.82 -27 13:55 10.55 12.65 6.91 -27 14:00 10.95 12.45 6.75 -23	0656 14.1 0.00 0.426 0.686 11.3 0.00 0.434 0.675 10.3 0.00 0.435 0.677 4.1 0.00 0.433 0.662 3.3 0.00 0.435			
13:45 10.50 14.48 6.87 -17 13:45 10.85 12.71 6.62 -24 13:50 10.95 12.90 6.82 -27 13:55 10.55 12.65 6.91 -27 14:00 10.95 12.45 6.75 -23	0656 14.1 0.00 0.426 0.686 11.3 0.00 0.434 0675 10.3 0.00 0.435 0.677 4.1 0.00 0.433 0.682 3.3 0.00 0.435			
13:45 10.50 14.48 6.87 -17 13:45 10.85 12.71 6.62 -24 13:50 10.95 12.90 6.82 -27 13:55 10.55 12.65 6.91 -27 14:00 10.95 12.45 6.75 -23	0656 14.1 0.00 0.426 0.686 11.3 0.00 0.434 0675 10.3 0.00 0.435 0.677 4.1 0.00 0.433 0.682 3.3 0.00 0.435			
13:40 10.50 14.48 6.87 -17 13:45 10.85 12.71 6.62 -24 13:50 10.95 12.94 6.82 -27 13:55 10.55 12.45 6.91 -27 14:00 10.95 12.45 6.75 -23	0656 14.1 0.00 0.426 0.686 11.3 0.00 0.434 0675 10.3 0.00 0.435 0.677 4.1 0.00 0.433 0.682 3.3 0.00 0.435			
13:40 10.50 14.48 6.87 -17 13:45 10.85 12.71 6.62 -24 13:50 10.95 12.94 6.82 -27 13:55 10.55 12.45 6.81 -27 14:00 10.85 12.45 6.75 -23	0656 14.1 0.00 0.426 0.686 11.3 0.00 0.434 0675 10.3 0.00 0.435 0.677 4.1 0.00 0.433 0.682 3.3 0.00 0.435			
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13:45	S analyzed Method S EPA Method 8270 EX EPA Method 335.4 S O O O O O O O O O O O O O O O O O O			
13:45	S			

Comments/Notes:

Laboratory:

Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date:	tangsicy / torac, from c, now for							
Weether: 06-02882-134400-221 Weether: 05-02882-134400-221 Weether: 05-02882-134400-221	Sampling Personnel:	Date:	6/7/14					
Well Information		Weathe	Weather: Salak 700					
Well Information		Time In						
TOC Other Other								
Depth to Water:								
Depth to Bottom:								
Depth to Product:			₹— ¥ —					
Purging Information								
Volume of Water in Well: (gal) 1			<u> </u>					
Purging Information								
Conversion Factors Fac	Three Well Volumes: (gal)	<u></u>						
Conversion Factors Fac		ş						
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Purging Method:	Purging information		Conversion Factors					
Tubing/Baller Material: Teflon Stainless St. Polyethylene Grundfos Pump Valer 0.04 0.16 0.66 1.47 Average Pumping Rate: (m/min) 7.02 1.47 1.28 1.47 1.29 1.297 1	Purging Method: Bailer Peristal	fic Grundfos Pump						
Sampling Method: Bailer Peristatic Grundfos Pump Water 0.04 0.16 0.66 1.47 Average Pumping Rate: (milmin) 7.20 Total Volume Removed: (milmin) 7.20 Yes No	<u> </u>		of					
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(feet) (°C) (S.U.) (mV) (mS/cm) (NTU) (mg/L) (g/L) (Y453) 13.94 15.29 13.35 13.10 17.10 15.10 17.50	YSI 6920 or Horiba U-52 Water Quality Meter Used?	:s No No						
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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 Duplicate? Yes No Shipped: Drop-off Syracuse Service Center Pick-up by Syracuse Courier Laboratory: PACE Analytical	Quantity Size Material Preservative Compounds analyzed Method							
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Comments/Notes: Laboratory: PACE Analytical		⊢	· · · · · · · · · · · · · · · · · · ·					
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Greensburg. PA			DAOE A					

Date: 4/1/7 Weether: 7/6 F, worthy cloudy Well kid. LTMW-S69 Time Out / 335 Well kid. LTMW-S69 Time Out / 335 Well kid. LTMW-S69 Time Out / 335 Time Out / 335 Time Out / 335 Well kid. LTMW-S69 Time Out / 335 Time Out / 335 Time Out / 335 Well kid. LTMW-S69 Time Out / 335 Time Out / 335 Well kid. Laboratory Well Type: Well Locked: Yes Well Type: Well Locked: Yes Well Type: Well Locked: Yes Well Material: Yes Well Material: Well Dameter: Comments: Well Dameter: Comments: Well Material: PVC SS Other: Well Material: Well Dameter: Comments: Time Well Volumes: (gai) 3, 9 Well Material: Well Dameter: Comments: Time Well Volumes: (gai) 3, 9 Well Well Well Dameter: Comments: Time Out / 335 Well Material: Time Out / 335 Well Well Cocked: Time Out / 335 Well Cocked:	Miligaley Ave	inde, Nome, N								
Well Information	Sampling Personnel: Date				Date:	6/7/17				
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Well Information						Time In		•	. /	
Depth to Water:	Wen id. Limin-303									
Depth to Water:	Well Int	Well Information								
Depth to Bottom:					Other	Well Ty	pe: Flus	shmount S	—	
Depth to Product			(feet)					K —>1	 	
Purging Information			······································							
Volume of Water in Well:								F		
Purging Information										
Purging Information						001111110				
Purging Method:	171100 11011 1	010111001	(94.7)							
Purging Method:										
Purging Method:	Purging I	nformation								
Tubing/Bailer Material: Bailer Ba			M.			_				
Sampling Method: Bailer Peristatitic Grundfos Pump			Bailer			\ \	1 ~	1" ID 2" ID	4" ID 6" ID	
Average Pumping Rate: \$50 (minim) 1 gallon=3.788L=3786mL=1337ou. feet		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					•	004 046	0.66 1.47	
Did volume Removed:				Peristaltic	Grund	fos Pump		<u> </u>		
Total Volume Removed:		***************************************					1 gan	ON=3.785L=3785III	L=1337cu.1eet	
Time				Di	d well an dry?	Yes	No 🔽			
Time	I					, ~~ [] .	·· [70]			
(feet)	YSI 6920 or Ho	oriba U-52 Wate	r Quality Meter Us	sed? Yes						
(feet)					000	I C di di - di	Tumbidite	I DO 1	TDS I	
1530 \$74 7.08 7.08 36 7.06 6.8 7.79 0.702 1535 \$7.72 5.08 7.33 94 0.652 7.5 8.70 0.420 1540 \$7.2 7.20 115 0.616 8.0 7.31 0.394 1545 \$7.2 7.24 7.25	lime		1 1				· 1	1 1		
1535 172 15.08 7.37 94 0.452 10.5 8.70 0.420 1540 172 1477 7.30 117 0.619 8.0 7.31 0.376 1545 1572 14.68 7.28 12.5 0.416 6.2 7.24 0.874 1550 15.72 15.07 7.45 12.5 0.416 6.2 7.24 0.874 1550 15.72 15.20 7.31 7.35 0.418 4.9 7.04 0.376 1555 15.72 15.20 7.31 7.38 0.418 4.9 7.04 0.376 1600 18.72 15.20 7.35 7.38 0.418 4.9 7.04 0.376 1600 1600 1600 1600 1600 1600 1600 1750 1600 1600 1600 1600 1600 1750 1600 1600 1600 1600 1600 1750 1600 1600 1600 1600 1600 1750 1600 1600 1600 1600 1600 1750 1600 1600 1600 1600 1600 1750 1600 1600 1600 1600 1600 1750 1600 1600 1600 1600 1600 1750 1600 1600 1600 1600 1600 1750 1600 1600 1600 1600 1600 1600 1750 1600 1600 1600 1600 1600 1600 1750 1600 1600 1600 1600 1600 1600 1750 1600 1600 1600 1600 1600 1600 1600 1750 1600 1600 1600 1600 1600 1600 1600 1600 1750 1600 1	1520	 			· · · · · · · · · · · · · · · · · · ·					
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		· · · · · · · · · · · · · · · · · · ·				0.616	6.2			
1585 8.72 15.20 7.31 735 0.6/8 9.7 7.09 0.396	1550			7.25						
Sampling Information: Quantity Size Material Preservative Compounds analyzed Method	1555	<u> </u>	15.20	7.31	/35	0.618	1 4: 2			
QuantitySizeMaterialPreservativeCompounds analyzedMethod41 LGlassUnpreservedSVOC PAH'sEPA Method 8270640 mLGlassHCIVOC's & BTEXEPA Method 82602250 mLPlasticNaOHTotal CyanideEPA Method 335.42250 mLPlasticHNO3Total MetalsEPA Method 200.7 Field Duplicate Sample Time Sample ID: LTMW-S09-0617 MS/MSD? Yes No Shipped: Drop-off Syracuse Service Center Pick-up by Syracuse Courier Laboratory: PACE Analytical	1600	8.72	15.20	7.33	138	0.018	1 9.7	7.01	0,376	
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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 Shipped: Drop-off Syracuse Service Center Pick-up by Syracuse Courier Comments/Notes: Laboratory: PACE Analytical		107133001017								
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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 Shipped: Drop-off Syracuse Service Center Pick-up by Syracuse Courier Comments/Notes: Laboratory: PACE Analytical	4	1 L	Glass Unpres	erved						
2 250 mL Plastic HNO3 Total Metals EPA Method 200.7 Field Duplicate Sample Time Sample ID: LTMW-S09-0617 Duplicate? Yes No Shipped: Drop-off Syracuse Service Center Pick-up by Syracuse Courier Comments/Notes: Laboratory: PACE Analytical	6	40 mL (
Field Duplicate Sample Time Sample ID: LTMW-S09-0617 Duplicate? Yes No Shipped: Drop-off Syracuse Service Center Pick-up by Syracuse Courier Comments/Notes: Laboratory: PACE Analytical				1.2.2						
Sample ID: LTMW-S09-0617 Duplicate? Yes No Shipped: Drop-off Syracuse Service Center Pick-up by Syracuse Courier Comments/Notes: Laboratory: PACE Analytical	2	250 mL F	iastic HNO3		rotal Met	als	EPA IV	ethod 200./		
Sample ID: LTMW-S09-0617 Duplicate? Yes No Shipped: Drop-off Syracuse Service Center Pick-up by Syracuse Courier Comments/Notes: Laboratory: PACE Analytical		minist Pro-Pro-	de Commis Ti							
Sample Time: //ood MS/MSD? Yes No Pick-up by Syracuse Courier Laboratory: PACE Analytical	Sample ID:	_			Vac Nio	1	Shinned: Dron-of	f Syracuse Service	e Center	
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				14100:	. ~~ <u> </u>	<u> </u>				
	Comments/N	otes:				**************************************	Laboratory:		·	

Sampling Personnel: KL PD	Date: 6/7// -						
Job Number: 06-02882-134400-221	Weather: 511My 70						
Well Id. LTMW-S10	Time In: 15 2/5 Time Out:						
Well Information							
Depth to Water: (feet) 7.11	Well Type: Flushmount Stick-Up						
Depth to Water: (feet) 9.11 Depth to Bottom: (feet) 17.18	Well Locked: Yes No No Measuring Point Marked: Yes No						
Depth to Product: (feet)	Measuring Point Marked: Yes No Well Material: PVC SS Other:						
Length of Water Column: (feet) タ. いつ	Well Diameter: 1" 2" Other:						
Volume of Water in Well: (gal) 1.29	Comments:						
Three Well Volumes: (gal) 5.87							
Purging Information							
	Conversion Factors						
Purging Method: Bailer Peristaltic Grundfor	gal/ft. 1" ID 2" ID 4" ID 6" ID						
	thylene						
Sampling Method: Bailer Peristaltic Grundfos Average Pumping Rate: (ml/min)							
Average Pumping Rate: (ml/min) (min) Duration of Pumping: (min)	1 gallon=3.785L=3785mL=1337cu. feet						
Total Volume Removed: (gal) Levov M Did well go dry?	Yes No						
YSI 6920 or Horiba U-52 Water Quality Meter Used? Yes No	_ 3						
Time DTW Temp pH ORP	Conductivity Turbidity DO TDS						
(feet) (°C) (S.U.) (mV)	(mS/cm) (NTU) (mg/L) (g/L)						
15.20 9.37 16.92 6.29 45	104 164 0.99 0.665						
15:30 9.48 13:79 (0.28) 17	1.10 57.7 0.00 0.702						
15:35 9.50 13:50 6:29 14	1.10 57.7 0.00 0.702 1.10 51.1 0.00 0.705						
13:40 9:50 13.37 6.29 11	1.11 36.8 0.00 0.711						
15:48 950 13.44 629 5 15:50 951 13.54 6.29 2	1.12 07.5 0.00 0.718						
15:30 9.51 13.54 6.09 2	1.13 263 0.00 0.721						
Sampling Information:							
Quantity Size Material Preservative Compounds analyzed Method							
Quantity Size infaterial Preservative Compounds	s analyzed Method						

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

9	40 mL	Glass HCl	VOC's & BTEX	EPA Method 8260
3	250 mL	Plastic NaO	f Total Cyanide	EPA Method 335.4
3	250 mL	Plastic HNO		EPA Method 200.7

Matrix Spike Sample Time 15:50 LTMW-S10-0617 Duplicate? Sample ID: MS/MSD? Sample Time:

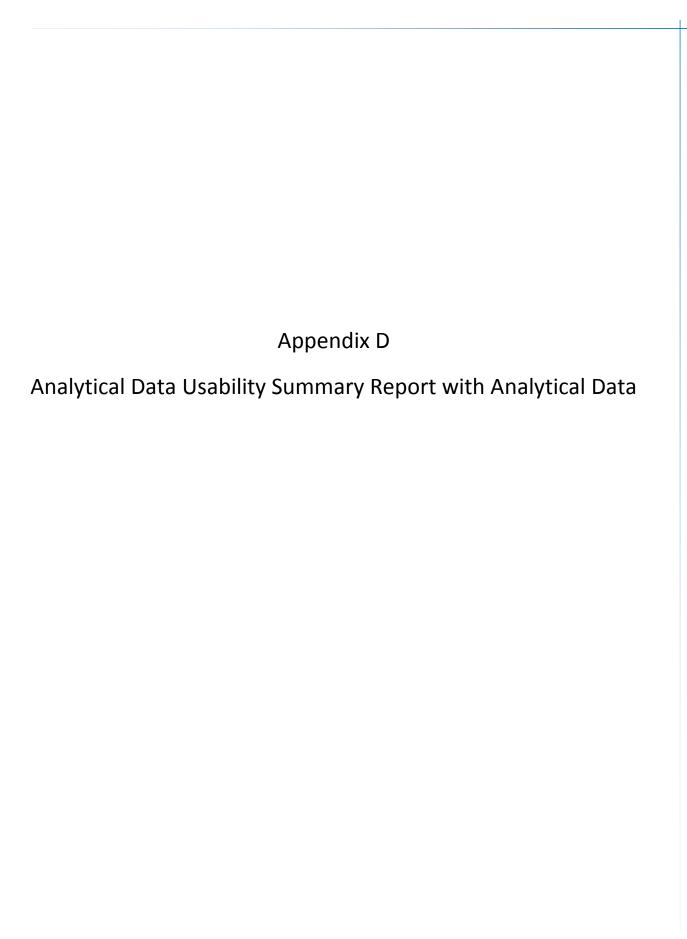
Yes No

Matrix Spike Duplicate Sample Time Shipped: Drop-off Syracuse Service Center

Pick-up by Syracuse Courier

Comments/Notes:

Laboratory:







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 Detects: J LTMW-S10-0617 Non-Detects LTMW-D05-0617 UJ LTMW-S02-0617 LTMW-S07-0617		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

Sjantwick

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

(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.

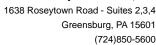
Ms. Cheryl Golden-Walts, Groundwater & Environmental

Services, Inc.

Chandler Swartzendruber, Groundwater & Environmental

Services, Inc.







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 lowa 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

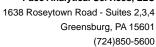
South Dakota Certification

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



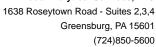


SAMPLE SUMMARY

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





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

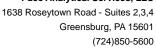


SAMPLE ANALYTE COUNT

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
0221123013	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
0221123014	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
0221123015	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
0221123017	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





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.

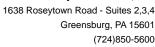
Matrix Spikes:

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:





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).

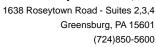
- LTMW-D05-0617 (Lab ID: 30221123009)
 - Terphenyl-d14 (S)
- LTMW-S02-0617 (Lab ID: 30221123004)
 - Terphenyl-d14 (S)
- LTMW-S07-0617 (Lab ID: 30221123013)
 - Terphenyl-d14 (S)

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.





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

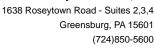
Additional Comments:

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





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:

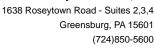
All internal standards were within QC limits with any exceptions noted below.

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 reanalysis).
 - 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)





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.

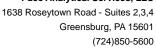
Laboratory Control Spike:

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:





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.



Project: National Grid - Rome Kingsley

Pace Project No.: 30221123

Date: 06/22/2017 05:02 PM

Sample: LTMW-D01-0617	Lab ID:	30221123001	Collected:	06/07/17	09:30	Received: 06/	09/17 10:05 N	latrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
- Taramotoro						Troparca	- Mary 200		
200.7 Metals, Total	Analytical	Method: EPA 2	00.7 Prepara	ation Metho	od: EPA	A 200.7			
Arsenic	ND	ug/L	5.0	3.0	1	06/14/17 08:38	06/15/17 09:5	7440-38-2	
_ead	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	
3270D MSSV PAH by SIM	Analytical	Method: EPA 8	270D by SIM	Preparati	on Met	hod: 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	5 56-55-3	
Benzo(a)pyrene	ND	ug/L	0.099	0.034	1	06/14/17 14:36	06/19/17 13:06	5 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	5 191-24-2	
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	
ndeno(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	
P-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		ū							
2-Fluorobiphenyl (S)	48	%	19-123		1	06/14/17 14:36	06/19/17 13:06	321-60-8	
erphenyl-d14 (S)	63	%	58-130		1	06/14/17 14:36	06/19/17 13:06	3 1718-51-0	
3260C MSV	Analytical	Method: EPA 8	260C						
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	7 108-88-3	
(ylene (Total)	201	ug/L	3.0	0.77	1		06/12/17 11:42	1330-20-7	
n&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	
,2-Dichloroethane-d4 (S)	127	%	77-126		1		06/12/17 11:42	17060-07-0	S2, S1
Dibromofluoromethane (S)	115	%	70-130		1		06/12/17 11:42	1868-53-7	
335.4 Cyanide, Total	Analytical	Method: EPA 3	35.4 Prepara	ation Metho	od: EPA	A 335.4			



Project: National Grid - Rome Kingsley

Pace Project No.: 30221123

Date: 06/22/2017 05:02 PM

Sample: LTMW-S01-0617	Lab ID: 3	0221123002	Collected	I: 06/07/17	09:30	Received: 06/	09/17 10:05 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical M	lethod: EPA 2	00.7 Prepa	ration Metho	od: EPA	A 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	
3270D MSSV PAH by SIM	Analytical M	lethod: EPA 8	270D by SI	M Preparati	on Met	hod: 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	
ndeno(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	
3260C MSV	Analytical M	lethod: EPA 8	260C						
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	
(ylene (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 M	lethod: EPA 3	35.4 Prepa	ration Metho	od: EPA	A 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	



Project: National Grid - Rome Kingsley

Pace Project No.: 30221123

Date: 06/22/2017 05:02 PM

Sample: LTMW-D02-0617	Lab ID: 3022	21123003	Collected	: 06/07/17	11:20	Received: 06/	09/17 10:05 Ma	atrix: Water	
		F	Report						
Parameters	Results U	nits	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
200.7 Metals, Total	Analytical Meth	od: EPA 200	0.7 Prepar	ation Metho	od: EPA	A 200.7			
Arsenic	ND u	g/L	5.0	3.0	1	06/14/17 08:38	06/15/17 10:08	7440-38-2	
_ead	ND u	g/L	5.0	2.5	1	06/14/17 08:38	06/15/17 10:08	7439-92-1	
Zinc		g/L	10.0	1.0	1	06/14/17 08:38	06/15/17 10:08	7440-66-6	
3270D MSSV PAH by SIM	Analytical Meth	od: EPA 827	70D by SIN	/ Preparati	on Met	hod: EPA 3510C			
Acenaphthene	ND u	g/L	0.098	0.026	1	06/14/17 14:36	06/19/17 13:41	83-32-9	
Acenaphthylene	ND u	g/L	0.098	0.033	1	06/14/17 14:36	06/19/17 13:41	208-96-8	
Anthracene	ND u	g/L	0.098	0.045	1	06/14/17 14:36	06/19/17 13:41	120-12-7	
Benzo(a)anthracene		g/L	0.098	0.047	1	06/14/17 14:36	06/19/17 13:41	56-55-3	
Benzo(a)pyrene		g/L	0.098	0.034	1	06/14/17 14:36			
Benzo(b)fluoranthene		g/L	0.098	0.035	1	06/14/17 14:36	06/19/17 13:41	205-99-2	
Benzo(g,h,i)perylene		g/L	0.098	0.038	1	06/14/17 14:36	06/19/17 13:41		
Benzo(k)fluoranthene		g/L	0.098	0.036	1	06/14/17 14:36	06/19/17 13:41		
Chrysene		g/L	0.098	0.035	1	06/14/17 14:36	06/19/17 13:41		
Dibenz(a,h)anthracene		g/L	0.098	0.031	1	06/14/17 14:36	06/19/17 13:41		
Fluoranthene		g/L	0.098	0.060	1	06/14/17 14:36	06/19/17 13:41		
luorene		g/L	0.098	0.025	1	06/14/17 14:36	06/19/17 13:41		
		-	0.098	0.023	1	06/14/17 14:36	06/19/17 13:41		
ndeno(1,2,3-cd)pyrene		g/L							
-Methylnaphthalene		g/L	0.098	0.056	1	06/14/17 14:36	06/19/17 13:41		
Naphthalene		g/L	0.098	0.060	1	06/14/17 14:36			
Phenanthrene		g/L	0.098	0.036	1	06/14/17 14:36	06/19/17 13:41		
Pyrene	ND u	g/L	0.098	0.055	1	06/14/17 14:36	06/19/17 13:41	129-00-0	
Surrogates	00	0.4	40.400			00/44/474400	00/40/47 40 44	004.00.0	
2-Fluorobiphenyl (S)		%	19-123		1	06/14/17 14:36	06/19/17 13:41		
erphenyl-d14 (S)	84	%	58-130		1	06/14/17 14:36	06/19/17 13:41	1718-51-0	
260C MSV	Analytical Meth	od: EPA 826	60C						
Benzene		g/L	1.0	0.18	1		06/12/17 12:57	71-43-2	
Ethylbenzene	ND u	g/L	1.0	0.20	1		06/12/17 12:57	100-41-4	
Toluene	ND u	g/L	1.0	0.11	1		06/12/17 12:57	108-88-3	
(ylene (Total)	ND u	g/L	3.0	0.77	1		06/12/17 12:57	1330-20-7	
n&p-Xylene		g/L	2.0	0.49	1		06/12/17 12:57	179601-23-1	
o-Xylene		g/L	1.0	0.28	1		06/12/17 12:57	95-47-6	
Surrogates		-							
oluene-d8 (S)	91	%	84-115		1		06/12/17 12:57	2037-26-5	
-Bromofluorobenzene (S)		%	81-119		1		06/12/17 12:57	460-00-4	
,2-Dichloroethane-d4 (S)		%	77-126		1		06/12/17 12:57		S3, S1
Dibromofluoromethane (S)		%	70-130		1		06/12/17 12:57		•
35.4 Cyanide, Total	Analytical Meth	od: EPA 335	5.4 Prepar	ation Metho	od: EPA	₹ 335.4			



Project: National Grid - Rome Kingsley

Pace Project No.: 30221123

Date: 06/22/2017 05:02 PM

Sample: LTMW-S02-0617	Lab ID: 302	221123004	Collected	l: 06/07/17	10:35	Received: 06/	09/17 10:05 M	atrix: Water	
			Report						
Parameters	Results U	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
00.7 Metals, Total	Analytical Met	thod: EPA 20	00.7 Prepa	ration Metho	od: EPA	A 200.7			
rsenic	ND	ug/L	5.0	3.0	1	06/14/17 08:38	06/15/17 10:12	7440-38-2	
.ead	ND	ug/L	5.0	2.5	1	06/14/17 08:38	06/15/17 10:12	7439-92-1	
linc		ug/L	10.0	1.0	1	06/14/17 08:38	06/15/17 10:12	7440-66-6	
270D MSSV PAH by SIM	Analytical Met	thod: EPA 82	270D by SIM	И Preparati	on Met	hod: 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		ug/L	0.10	0.048	1	06/14/17 14:36	06/19/17 13:58	56-55-3	
Benzo(a)pyrene		ug/L	0.10	0.034	1	06/14/17 14:36			
Benzo(b)fluoranthene		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		ug/L	0.10	0.038	1	06/14/17 14:36			
Benzo(k)fluoranthene		ug/L	0.10	0.036	1	06/14/17 14:36	06/19/17 13:58		
Chrysene		ug/L	0.10	0.036	1	06/14/17 14:36	06/19/17 13:58		
Dibenz(a,h)anthracene		ug/L	0.10	0.031	1	06/14/17 14:36	06/19/17 13:58		
Fluoranthene		ug/L	0.10	0.061	1	06/14/17 14:36	06/19/17 13:58		
luorene		ug/L	0.10	0.026	1	06/14/17 14:36	06/19/17 13:58		
ndeno(1,2,3-cd)pyrene		ug/L	0.10	0.035	1	06/14/17 14:36	06/19/17 13:58		
:-Methylnaphthalene		ug/L	0.10	0.057	1	06/14/17 14:36	06/19/17 13:58		
laphthalene		ug/L	0.10	0.061	1	06/14/17 14:36			
Phenanthrene		-	0.10	0.037	1	06/14/17 14:36	06/19/17 13:58		
		ug/L	0.10	0.057	1	06/14/17 14:36	06/19/17 13:58		
Pyrene Surrogates	ND	ug/L	0.10	0.036	'	06/14/17 14.36	06/19/17 13.36	129-00-0	
:-Fluorobiphenyl (S)	39	%	19-123		1	06/14/17 14:36	06/19/17 13:58	321-60-8	
Ferphenyl-d14 (S)	49	%	58-130		1	06/14/17 14:36	06/19/17 13:58		S1,SR
3260C MSV	Analytical Met	thod: EPA 82							
Benzene	ND	ug/L	1.0	0.18	1		06/12/17 13:23	71-43-2	
Ethylbenzene		ug/L	1.0	0.20	1		06/12/17 13:23		
oluene		ug/L	1.0	0.11	1		06/12/17 13:23		
(ylene (Total)		ug/L	3.0	0.77	1		06/12/17 13:23		
n&p-Xylene		ug/L	2.0	0.49	1		06/12/17 13:23		
nap Aylene p-Xylene		ug/L	1.0	0.43	1		06/12/17 13:23		
Surrogates	ND	~9/ L	1.0	0.20	•		55/12/11 15.25	30 41-0	
oluene-d8 (S)	91	%	84-115		1		06/12/17 13:23	2037-26-5	
-Bromofluorobenzene (S)	111	%	81-119		1		06/12/17 13:23		
,2-Dichloroethane-d4 (S)	125	%	77-126		1		06/12/17 13:23		
Dibromofluoromethane (S)	115	%	70-130		1		06/12/17 13:23		
335.4 Cyanide, Total	Analytical Met	thod: EPA 3	35.4 Prepa	ration Metho	od: EPA	\ 335.4			
-	0.073		•						



Project: National Grid - Rome Kingsley

Pace Project No.: 30221123

Date: 06/22/2017 05:02 PM

Sample: LTMW-D03-0617	Lab ID: 302	221123005	Collected	: 06/07/17	10:40	Received: 06/	09/17 10:05 M	atrix: Water	
			Report						
Parameters	Results I	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
00.7 Metals, Total	Analytical Met	thod: EPA 20	00.7 Prepar	ation Metho	od: EPA	A 200.7			
rsenic	ND	ug/L	5.0	3.0	1	06/14/17 08:38	06/15/17 10:16	7440-38-2	
.ead	ND	ug/L	5.0	2.5	1	06/14/17 08:38	06/15/17 10:16	7439-92-1	
linc		ug/L	10.0	1.0	1	06/14/17 08:38	06/15/17 10:16	7440-66-6	
270D MSSV PAH by SIM	Analytical Met	thod: EPA 82	270D by SIN	/ Preparation	on Met	hod: 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	
cenaphthylene	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		ug/L	0.10	0.035	1	06/14/17 14:36	06/20/17 20:42	50-32-8	
Benzo(b)fluoranthene		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		ug/L	0.10	0.039	1	06/14/17 14:36	06/20/17 20:42	191-24-2	
Benzo(k)fluoranthene		ug/L	0.10	0.038	1	06/14/17 14:36	06/20/17 20:42	207-08-9	
Chrysene		ug/L	0.10	0.037	1	06/14/17 14:36	06/20/17 20:42		
Dibenz(a,h)anthracene		ug/L	0.10	0.032	1	06/14/17 14:36			
Tuoranthene		ug/L	0.10	0.063	1	06/14/17 14:36	06/20/17 20:42		
luorene		ug/L	0.10	0.027	1	06/14/17 14:36			
ndeno(1,2,3-cd)pyrene		ug/L	0.10	0.036	1	06/14/17 14:36	06/20/17 20:42		
-Methylnaphthalene		ug/L	0.10	0.059	1		06/20/17 20:42		
laphthalene		ug/L	0.10	0.063	1	06/14/17 14:36			
Phenanthrene		ug/L	0.10	0.038	1	06/14/17 14:36	06/20/17 20:42		
Pyrene		ug/L ug/L	0.10	0.058	1	06/14/17 14:36	06/20/17 20:42		
Surrogates	2.0	ug/L	0.10	0.056	'	00/14/17 14.30	00/20/17 20.42	129-00-0	
:-Fluorobiphenyl (S)	51	%	19-123		1	06/14/17 14:36	06/20/17 20:42	321-60-8	
erphenyl-d14 (S)	65	%	58-130		1	06/14/17 14:36	06/20/17 20:42		
260C MSV	Analytical Met	thod: EPA 82	260C						
Benzene	8.5	ug/L	1.0	0.18	1		06/12/17 13:48	71-43-2	
thylbenzene		ug/L	1.0	0.20	1		06/12/17 13:48	100-41-4	
oluene		ug/L	1.0	0.11	1		06/12/17 13:48		
(ylene (Total)		ug/L	3.0	0.77	1		06/12/17 13:48		
n&p-Xylene		ug/L	2.0	0.49	1		06/12/17 13:48		
-Xylene		ug/L	1.0	0.48	1		06/12/17 13:48		
Surrogates		g- -		3.20	•		25, .2, 11 10.40	0	
oluene-d8 (S)	92	%	84-115		1		06/12/17 13:48	2037-26-5	
-Bromofluorobenzene (S)	111	%	81-119		1		06/12/17 13:48		
,2-Dichloroethane-d4 (S)	132	%	77-126		1		06/12/17 13:48		ST
Dibromofluoromethane (S)	116	%	70-130		1		06/12/17 13:48		J.
35.4 Cyanide, Total	Analytical Met	thod: EPA 33	35.4 Prepar	ation Metho	od: EPA	A 335.4			
Cyanide	0.076	mg/L	0.010			06/14/17 14:27			



Project: National Grid - Rome Kingsley

Pace Project No.: 30221123

Date: 06/22/2017 05:02 PM

Sample: LTMW-S03-0617	Lab ID:	30221123006	Collected:	06/07/17	11:40	Received: 06/	09/17 10:05 N	latrix: Water	
_			Report						_
Parameters —	Results	Units	Limit —	MDL	DF	Prepared	Analyzed	CAS No.	Qua
00.7 Metals, Total	Analytical	Method: EPA 2	00.7 Prepara	ation Metho	od: 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	
ead	ND	ug/L	5.0	2.5	1	06/14/17 08:38	06/15/17 10:20	7439-92-1	
linc	4250	ug/L	10.0	1.0	1	06/14/17 08:38	06/15/17 10:20	7440-66-6	
2270D MSSV PAH by SIM	Analytical	Method: EPA 8	270D by SIM	Preparati	on Met	hod: EPA 3510C			
Acenaphthene	ND	ug/L	0.099	0.027	1	06/14/17 14:36	06/19/17 14:3	83-32-9	
cenaphthylene	ND	ug/L	0.099	0.033	1	06/14/17 14:36	06/19/17 14:33	3 208-96-8	
Anthracene	ND	ug/L	0.099	0.045	1	06/14/17 14:36	06/19/17 14:33	3 120-12-7	
Benzo(a)anthracene	ND	ug/L	0.099	0.048	1	06/14/17 14:36	06/19/17 14:33	3 56-55-3	
Benzo(a)pyrene	ND	ug/L	0.099	0.034	1	06/14/17 14:36	06/19/17 14:33	3 50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.099	0.035	1	06/14/17 14:36	06/19/17 14:33	3 205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.099	0.038	1	06/14/17 14:36	06/19/17 14:33	3 191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.099	0.036	1	06/14/17 14:36	06/19/17 14:33	3 207-08-9	
Chrysene	ND	ug/L	0.099	0.035	1	06/14/17 14:36	06/19/17 14:33	3 218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.099	0.031	1	06/14/17 14:36	06/19/17 14:33	3 53-70-3	
luoranthene	ND	ug/L	0.099	0.061	1	06/14/17 14:36	06/19/17 14:33	3 206-44-0	
luorene	ND	ug/L	0.099	0.026	1	06/14/17 14:36	06/19/17 14:33	86-73-7	
ndeno(1,2,3-cd)pyrene	ND	ug/L	0.099	0.034	1	06/14/17 14:36	06/19/17 14:33		
2-Methylnaphthalene	ND	ug/L	0.099	0.057	1	06/14/17 14:36	06/19/17 14:33	3 91-57-6	
laphthalene	ND	ug/L	0.099	0.061	1	06/14/17 14:36	06/19/17 14:3		
Phenanthrene	ND	ug/L	0.099	0.037	1	06/14/17 14:36	06/19/17 14:33	8 85-01-8	
Pyrene	ND	ug/L	0.099	0.056	1	06/14/17 14:36	06/19/17 14:33		
Surrogates		J							
2-Fluorobiphenyl (S)	44	%	19-123		1	06/14/17 14:36	06/19/17 14:33	321-60-8	
erphenyl-d14 (S)	59	%	58-130		1	06/14/17 14:36	06/19/17 14:33	3 1718-51-0	
260C MSV	Analytical	Method: EPA 8	260C						
Benzene	ND	ug/L	1.0	0.18	1		06/12/17 14:13	3 71-43-2	
Ethylbenzene	ND	ug/L	1.0	0.20	1		06/12/17 14:13	3 100-41-4	
Toluene	ND	ug/L	1.0	0.11	1		06/12/17 14:13		
(ylene (Total)	ND	ug/L	3.0	0.77	1		06/12/17 14:13	3 1330-20-7	
n&p-Xylene	ND	ug/L	2.0	0.49	1		06/12/17 14:13	3 179601-23-1	
-Xylene	ND	ug/L	1.0	0.28	1		06/12/17 14:13	3 95-47-6	
Surrogates		Č							
Toluene-d8 (S)	90	%	84-115		1		06/12/17 14:13	3 2037-26-5	
-Bromofluorobenzene (S)	105	%	81-119		1		06/12/17 14:13	3 460-00-4	
1,2-Dichloroethane-d4 (S)	130	%	77-126		1		06/12/17 14:13	3 17060-07-0	S3, S1
Dibromofluoromethane (S)	117	%	70-130		1		06/12/17 14:13	1868-53-7	
335.4 Cyanide, Total	Analytical	Method: EPA 3	35.4 Prepara	ation Metho	od: EPA	A 335.4			
Cyanide	ND	mg/L	0.010	0.0020	1	06/14/17 14:27	06/15/17 18:5	57-12-5	



Project: National Grid - Rome Kingsley

Pace Project No.: 30221123

Date: 06/22/2017 05:02 PM

Sample: LTMW-D04-0617	Lab ID: 302	21123007	Collected	d: 06/07/17	12:20	Received: 06/	09/17 10:05 Ma	atrix: Water	
			Report						
Parameters	Results L	Inits	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Meth	nod: EPA 2	00.7 Prepa	ration Meth	od: EP/	A 200.7			
Arsenic	35.3 u	ıg/L	5.0	3.0	1	06/14/17 08:38	06/15/17 10:23	7440-38-2	
Lead	ND u	ıg/L	5.0	2.5	1	06/14/17 08:38	06/15/17 10:23	7439-92-1	
Zinc	ND u	ıg/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 Meth	nod: EPA 8	270D by SI	M Preparat	ion Met	hod: EPA 3510C			
Acenaphthene	ND u	ıg/L	0.099	0.027	1	06/14/17 14:36	06/19/17 14:51	83-32-9	
Acenaphthylene	ND u	ıg/L	0.099	0.033	1	06/14/17 14:36	06/19/17 14:51	208-96-8	
Anthracene	ND u	ıg/L	0.099	0.045	1	06/14/17 14:36	06/19/17 14:51	120-12-7	
Benzo(a)anthracene	ND u	ıg/L	0.099	0.048	1	06/14/17 14:36	06/19/17 14:51	56-55-3	
Benzo(a)pyrene		ıg/L	0.099	0.034	1	06/14/17 14:36	06/19/17 14:51	50-32-8	
Benzo(b)fluoranthene	ND u	ıg/L	0.099	0.035	1	06/14/17 14:36	06/19/17 14:51	205-99-2	
Benzo(g,h,i)perylene		ıg/L	0.099	0.038	1	06/14/17 14:36	06/19/17 14:51	191-24-2	
Benzo(k)fluoranthene	ND u	ıg/L	0.099	0.036	1	06/14/17 14:36	06/19/17 14:51	207-08-9	
Chrysene		ıg/L	0.099	0.035	1	06/14/17 14:36	06/19/17 14:51	218-01-9	
Dibenz(a,h)anthracene		ıg/L	0.099	0.031	1	06/14/17 14:36	06/19/17 14:51	53-70-3	
Fluoranthene		ıg/L	0.099	0.060	1	06/14/17 14:36	06/19/17 14:51		
Fluorene		ıg/L	0.099	0.026	1	06/14/17 14:36			
ndeno(1,2,3-cd)pyrene		ıg/L	0.099	0.034	1	06/14/17 14:36	06/19/17 14:51		
2-Methylnaphthalene		ıg/L	0.099	0.057	1	06/14/17 14:36	06/19/17 14:51		
Naphthalene		ıg/L	0.099	0.060	1	06/14/17 14:36	06/19/17 14:51		
Phenanthrene		ıg/L	0.099	0.037	1	06/14/17 14:36	06/19/17 14:51		
Pyrene		ıg/L	0.099	0.056	1	06/14/17 14:36	06/19/17 14:51		
Surrogates	ND C	·9/ -	0.000	0.000	•	00/14/17 14.00	00/10/17 14.01	120 00 0	
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		
3260C MSV	Analytical Meth	nod: EPA 8	260C						
Benzene	ND u	ıg/L	1.0	0.18	1		06/12/17 14:39	71-43-2	
Ethylbenzene		ıg/L	1.0	0.20	1		06/12/17 14:39		
Toluene		ıg/L	1.0	0.11	1		06/12/17 14:39		
Xylene (Total)		ıg/L	3.0	0.77	1		06/12/17 14:39		
m&p-Xylene		ıg/L	2.0	0.49	1		06/12/17 14:39		
o-Xylene		ig/∟ ig/L	1.0	0.49	1		06/12/17 14:39		
Surrogates	IND (·9/ -	1.0	0.20	'		00/12/11 14.39	JJ 41 -U	
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		
1,2-Dichloroethane-d4 (S)	130	%	77-126		1		06/12/17 14:39		S3,ST
Dibromofluoromethane (S)	112	%	70-120		1		06/12/17 14:39		55,51
` ,					-		00/12/11 14.39	1000-00-1	
335.4 Cyanide, Total	Analytical Meth		35.4 Prepa	ration Meth	od: EP/	A 335.4			
Cyanide	ND n	ng/L	0.010	0.0020	1	06/14/17 14:27	06/15/17 18:51	57-12-5	



Project: National Grid - Rome Kingsley

Pace Project No.: 30221123

Date: 06/22/2017 05:02 PM

Sample: LTMW-S04-0617	Lab ID:	30221123008	Collected:	06/07/17	13:10	Received: 06/	09/17 10:05 N	latrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzad	CAS No.	Qua
Falaneters	- Results -				<u>DF</u>	Frepareu	Analyzed	CAS NO.	- Qua
200.7 Metals, Total	Analytical	Method: EPA 2	00.7 Prepara	ation Meth	od: EPA	200.7			
Arsenic	ND	ug/L	5.0	3.0	1	06/14/17 08:38	06/15/17 10:2	7 7440-38-2	
_ead	ND	ug/L	5.0	2.5	1	06/14/17 08:38	06/15/17 10:2	7 7439-92-1	
Zinc	108	ug/L	10.0	1.0	1	06/14/17 08:38	06/15/17 10:2	7 7440-66-6	
3270D MSSV PAH by SIM	Analytical	Method: EPA 8	270D by SIM	Preparati	on Met	hod: EPA 3510C			
Acenaphthene	ND	ug/L	0.10	0.027	1	06/14/17 14:36	06/19/17 17:29	9 83-32-9	
Acenaphthylene	ND	ug/L	0.10	0.034	1	06/14/17 14:36	06/19/17 17:29	9 208-96-8	
Anthracene	ND	ug/L	0.10	0.046	1	06/14/17 14:36	06/19/17 17:29	9 120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	0.049	1	06/14/17 14:36	06/19/17 17:29	9 56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	0.035	1	06/14/17 14:36	06/19/17 17:29	9 50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	0.036	1	06/14/17 14:36	06/19/17 17:29	9 205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	0.039	1	06/14/17 14:36	06/19/17 17:29		
Benzo(k)fluoranthene	ND	ug/L	0.10	0.037	1	06/14/17 14:36	06/19/17 17:29	9 207-08-9	
Chrysene	ND	ug/L	0.10	0.036	1	06/14/17 14:36	06/19/17 17:29	9 218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	0.032	1	06/14/17 14:36	06/19/17 17:29	9 53-70-3	
luoranthene	ND	ug/L	0.10	0.062	1	06/14/17 14:36	06/19/17 17:2	9 206-44-0	
luorene	ND	ug/L	0.10	0.026	1	06/14/17 14:36	06/19/17 17:2	9 86-73-7	
ndeno(1,2,3-cd)pyrene	ND	ug/L	0.10	0.035	1	06/14/17 14:36	06/19/17 17:29	9 193-39-5	
2-Methylnaphthalene	ND	ug/L	0.10	0.058	1	06/14/17 14:36	06/19/17 17:29		
Naphthalene	ND	ug/L	0.10	0.062	1	06/14/17 14:36	06/19/17 17:2		
Phenanthrene	ND	ug/L	0.10	0.037	1	06/14/17 14:36	06/19/17 17:29		
Pyrene	ND	ug/L	0.10	0.057	1	06/14/17 14:36	06/19/17 17:29		
Surrogates		9-							
2-Fluorobiphenyl (S)	35	%	19-123		1	06/14/17 14:36	06/19/17 17:29	9 321-60-8	
Ferphenyl-d14 (S)	61	%	58-130		1	06/14/17 14:36	06/19/17 17:29	9 1718-51-0	
3260C MSV	Analytical	Method: EPA 8	260C						
Benzene	ND	ug/L	1.0	0.18	1		06/12/17 15:0	4 71-43-2	
Ethylbenzene	ND	ug/L	1.0	0.20	1		06/12/17 15:04		
Toluene	ND	ug/L	1.0	0.11	1		06/12/17 15:0		
(ylene (Total)	ND	ug/L	3.0	0.77	1		06/12/17 15:0		
m&p-Xylene	ND	ug/L	2.0	0.49	1			4 179601-23-1	
o-Xylene	ND	ug/L	1.0	0.28	1		06/12/17 15:0		
Surrogates	.,5	~ _ _	1.0	5.20	•		25, 12, 17 15.0		
Toluene-d8 (S)	90	%	84-115		1		06/12/17 15:0	4 2037-26-5	
1-Bromofluorobenzene (S)	107	%	81-119		1		06/12/17 15:0	4 460-00-4	
1,2-Dichloroethane-d4 (S)	129	%	77-126		1		06/12/17 15:0		S3,ST
Dibromofluoromethane (S)	116	%	70-130		1		06/12/17 15:0		,
335.4 Cyanide, Total	Analytical	Method: EPA 3	35.4 Prepara	ation Meth	od: EPA	335.4			



Project: National Grid - Rome Kingsley

Pace Project No.: 30221123

Date: 06/22/2017 05:02 PM

Sample: LTMW-D05-0617	Lab ID:	30221123009	Collected	: 06/07/17	12:15	Received: 06/	/09/17 10:05 M	atrix: Water	
			Report						
Parameters	Results -	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
200.7 Metals, Total	Analytical	Method: EPA 2	00.7 Prepar	ation Metho	od: EPA	A 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 8	270D by SIN	/ Preparation	on Met	thod: 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	
ndeno(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
3260C MSV	Analytical	Method: EPA 8	260C						
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 3	35.4 Prepar	ation Metho	od: EPA	A 335.4			
Cyanide	ND	mg/L	0.010	0.0020	1	06/14/17 14:27	06/15/17 18:53	57-12-5	



Project: National Grid - Rome Kingsley

Pace Project No.: 30221123

Date: 06/22/2017 05:02 PM

Sample: LTMW-S05-0617	Lab ID:	30221123010	Collected:	06/07/17	13:05	Received: 06/	09/17 10:05 M	latrix: Water	
Damanatana	Danilla	11.20	Report	MDI	DE	Danasas	A b	040 N	0
Parameters	Results	Units -	Limit	MDL _	DF_	Prepared	Analyzed	CAS No.	Qua
200.7 Metals, Total	Analytical	Method: EPA 2	00.7 Prepara	ation Metho	od: EPA	A 200.7			
Arsenic	ND	ug/L	5.0	3.0	1	06/14/17 08:38	06/15/17 10:34	7440-38-2	
∟ead	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	
3270D MSSV PAH by SIM	Analytical	Method: EPA 8	270D by SIM	Preparati	on Met	hod: 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	7 56-55-3	
Benzo(a)pyrene	ND	ug/L	0.099	0.034	1	06/14/17 14:36	06/20/17 21:17	7 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		
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		
luorene	ND	ug/L	0.099	0.026	1	06/14/17 14:36	06/20/17 21:17		
ndeno(1,2,3-cd)pyrene	ND	ug/L	0.099	0.034	1	06/14/17 14:36	06/20/17 21:17		
2-Methylnaphthalene	ND	ug/L	0.099	0.057	1	06/14/17 14:36	06/20/17 21:17		
Naphthalene	ND	ug/L	0.099	0.061	1	06/14/17 14:36	06/20/17 21:17		
Phenanthrene	ND	ug/L	0.099	0.037	1	06/14/17 14:36	06/20/17 21:17		
Pyrene	ND	ug/L	0.099	0.056	1	06/14/17 14:36	06/20/17 21:17		
Surrogates		3-							
2-Fluorobiphenyl (S)	31	%	19-123		1	06/14/17 14:36	06/20/17 21:17	321-60-8	
Ferphenyl-d14 (S)	58	%	58-130		1	06/14/17 14:36	06/20/17 21:17	7 1718-51-0	
3260C MSV	Analytical	Method: EPA 8	260C						
Benzene	ND	ug/L	1.0	0.18	1		06/12/17 15:55	5 71-43-2	
Ethylbenzene	ND	ug/L	1.0	0.20	1		06/12/17 15:55	5 100-41-4	
Toluene	ND	ug/L	1.0	0.11	1		06/12/17 15:55		
(ylene (Total)	ND	ug/L	3.0	0.77	1		06/12/17 15:55		
n&p-Xylene	ND	ug/L	2.0	0.49	1			179601-23-1	
o-Xylene	ND	ug/L	1.0	0.28	1		06/12/17 15:55		
Surrogates		~g/ =		0.20	•		00, 12, 11 10100		
Toluene-d8 (S)	91	%	84-115		1		06/12/17 15:55	2037-26-5	
1-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		S3,ST
Dibromofluoromethane (S)	119	%	70-130		1		06/12/17 15:55		•
335.4 Cyanide, Total	Analytical	Method: EPA 3	35.4 Prepara	ation Metho	od: EPA	335.4			
Cyanide	0.57	mg/L	0.10	0.020	10	06/14/17 14:27			



Project: National Grid - Rome Kingsley

Pace Project No.: 30221123

Date: 06/22/2017 05:02 PM

Sample: LTMW-D06-0617	Lab ID: 3022	21123011	Collected	I: 06/07/17	14:15	Received: 06/	09/17 10:05 Ma	atrix: Water	
			Report						
Parameters	Results U	nits	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Meth	od: EPA 2	00.7 Prepa	ration Meth	od: EPA	A 200.7			
Arsenic	8.1 u	g/L	5.0	3.0	1	06/14/17 08:38	06/15/17 10:55	7440-38-2	
_ead	ND u	g/L	5.0	2.5	1	06/14/17 08:38	06/15/17 10:55	7439-92-1	
Zinc	ND u	g/L	10.0	1.0	1	06/14/17 08:38	06/15/17 10:55	7440-66-6	
3270D MSSV PAH by SIM	Analytical Meth	od: EPA 8	270D by SIN	M Preparati	ion Met	hod: EPA 3510C			
Acenaphthene	ND u	g/L	0.098	0.026	1	06/14/17 14:36	06/19/17 16:01	83-32-9	
Acenaphthylene	ND u	g/L	0.098	0.033	1	06/14/17 14:36	06/19/17 16:01	208-96-8	
Anthracene	ND u	g/L	0.098	0.045	1	06/14/17 14:36	06/19/17 16:01	120-12-7	
Benzo(a)anthracene	ND u	g/L	0.098	0.047	1	06/14/17 14:36	06/19/17 16:01	56-55-3	
Benzo(a)pyrene	ND u	g/L	0.098	0.034	1	06/14/17 14:36	06/19/17 16:01	50-32-8	
Benzo(b)fluoranthene	ND u	g/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 u	g/L	0.098	0.038	1	06/14/17 14:36	06/19/17 16:01	191-24-2	
Benzo(k)fluoranthene	ND u	g/L	0.098	0.036	1	06/14/17 14:36	06/19/17 16:01	207-08-9	
Chrysene	ND u	g/L	0.098	0.035	1	06/14/17 14:36	06/19/17 16:01	218-01-9	
Dibenz(a,h)anthracene	ND u	g/L	0.098	0.031	1	06/14/17 14:36	06/19/17 16:01	53-70-3	
luoranthene	ND u	g/L	0.098	0.060	1	06/14/17 14:36	06/19/17 16:01	206-44-0	
luorene	ND u	g/L	0.098	0.025	1	06/14/17 14:36	06/19/17 16:01	86-73-7	
ndeno(1,2,3-cd)pyrene		g/L	0.098	0.034	1	06/14/17 14:36	06/19/17 16:01	193-39-5	
2-Methylnaphthalene		g/L	0.098	0.056	1	06/14/17 14:36	06/19/17 16:01	91-57-6	
Naphthalene		g/L	0.098	0.060	1	06/14/17 14:36	06/19/17 16:01	91-20-3	
Phenanthrene		g/L	0.098	0.036	1	06/14/17 14:36	06/19/17 16:01	85-01-8	
Pyrene		g/L	0.098	0.055	1	06/14/17 14:36	06/19/17 16:01		
Surrogates		J							
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	
3260C MSV	Analytical Meth	od: EPA 8	260C						
Benzene	ND u	g/L	1.0	0.18	1		06/12/17 16:21	71-43-2	
Ethylbenzene	ND u	g/L	1.0	0.20	1		06/12/17 16:21	100-41-4	
Toluene	ND u	g/L	1.0	0.11	1		06/12/17 16:21	108-88-3	
(Ylene (Total)	ND u	g/L	3.0	0.77	1		06/12/17 16:21	1330-20-7	
n&p-Xylene	ND u	g/L	2.0	0.49	1		06/12/17 16:21	179601-23-1	
o-Xylene		g/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	
1-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		
335.4 Cyanide, Total	Analytical Meth	od: EPA 3	35.4 Prepa	ration Meth	od: EPA	A 335.4			
Cyanide	ND m	ng/L	0.010	0.0020	1	06/14/17 14:27	06/15/17 18:55	57-12-5	



Project: National Grid - Rome Kingsley

Pace Project No.: 30221123

Date: 06/22/2017 05:02 PM

Sample: LTMW-S06-0617	Lab ID: 3022	I123012 Collecte	ed: 06/07/17 15:0	5 Received: 06	/09/17 10:05 N	latrix: Water	
		Report					
Parameters	Results Ur	its Limit	MDL DF	Prepared	Analyzed	CAS No.	Qua
200.7 Metals, Total	Analytical Metho	d: EPA 200.7 Prep	aration Method: E	PA 200.7			
Arsenic	ND ug	/L 5.0	3.0 1	06/14/17 08:38	06/15/17 10:59	7440-38-2	
₋ead	ND ug	/L 5.0	2.5 1	06/14/17 08:38	06/15/17 10:59	7439-92-1	
Zinc	ND ug		1.0 1	06/14/17 08:38	06/15/17 10:59	7440-66-6	
3270D MSSV PAH by SIM	Analytical Metho	d: EPA 8270D by S	IM Preparation N	lethod: EPA 35100	;		
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		0.047 1	06/14/17 14:36	06/19/17 16:19	56-55-3	
Benzo(a)pyrene	ND ug		0.034 1	06/14/17 14:36	06/19/17 16:19	50-32-8	
Benzo(b)fluoranthene	ND ug		0.035 1	06/14/17 14:36	06/19/17 16:19	205-99-2	
Benzo(g,h,i)perylene	ND ug		0.038 1	06/14/17 14:36	06/19/17 16:19	191-24-2	
Benzo(k)fluoranthene	ND ug		0.036 1	06/14/17 14:36		207-08-9	
Chrysene	ND ug		0.035 1	06/14/17 14:36			
Dibenz(a,h)anthracene	ND ug		0.031 1	06/14/17 14:36			
luoranthene	ND ug		0.060 1	06/14/17 14:36			
luorene	ND ug		0.025 1	06/14/17 14:36			
ndeno(1,2,3-cd)pyrene	ND ug		0.034 1	06/14/17 14:36			
:-Methylnaphthalene	ND ug		0.056 1	06/14/17 14:36			
Naphthalene	ND ug		0.060 1	06/14/17 14:36			
Phenanthrene	ND ug		0.036 1	06/14/17 14:36			
Pyrene	ND ug		0.055 1	06/14/17 14:36			
Surrogates	ND ug	/L 0.090	0.055	00/14/17 14.30	00/19/17 10.13	129-00-0	
2-Fluorobiphenyl (S)	38 %	6 19-123	1	06/14/17 14:36	06/19/17 16:19	321-60-8	
Terphenyl-d14 (S)	61 %		1	06/14/17 14:36			
3260C MSV	Analytical Metho	od: EPA 8260C					
Benzene	ND ug	/L 1.0	0.18 1		06/12/17 16:46	71-43-2	
Ethylbenzene	ND ug		0.20 1		06/12/17 16:46		
oluene	ND ug		0.11 1		06/12/17 16:46		
(ylene (Total)	ND ug		0.77 1		06/12/17 16:46		
n&p-Xylene	ND ug		0.49 1		06/12/17 16:46		
nap Aylene p-Xylene	ND ug		0.28 1		06/12/17 16:46		
Surrogates	ive ug	,_ 1.0	0.20		30/12/17 10.40	, 50 41-0	
oluene-d8 (S)	90 %	6 84-115	1		06/12/17 16:46	2037-26-5	
-Bromofluorobenzene (S)	107 %		1		06/12/17 16:46		
,2-Dichloroethane-d4 (S)	140 %		1		06/12/17 16:46		S3, S1
Dibromofluoromethane (S)	123 %		1		06/12/17 16:46		55,51
335.4 Cyanide, Total	Analytical Metho	d: EPA 335.4 Prep	aration Method: E	PA 335.4			
Cyanide	0.079 mg	ı/L 0.010	0.0020 1	06/14/17 14:27			



Project: National Grid - Rome Kingsley

Pace Project No.: 30221123

Date: 06/22/2017 05:02 PM

Sample: LTMW-S07-0617	Lab ID:	30221123013	Collected:	06/07/17	14:05	Received: 06/	09/17 10:05 I	Matrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
200.7 Metals, Total	Analytical	Method: EPA 2	00.7 Prepara	ation Metho	od: EPA	A 200.7			
Arsenic	ND	ug/L	5.0	3.0	1	06/14/17 08:38	06/15/17 11:0	2 7440-38-2	
Lead	ND	ug/L	5.0	2.5	1	06/14/17 08:38	06/15/17 11:0	2 7439-92-1	
Zinc	ND	ug/L	10.0	1.0	1	06/14/17 08:38	06/15/17 11:0	2 7440-66-6	
3270D MSSV PAH by SIM	Analytical	Method: EPA 8	270D by SIM	l Preparati	on Met	hod: EPA 3510C			
Acenaphthene	ND	ug/L	0.10	0.027	1	06/14/17 14:36	06/19/17 16:3	6 83-32-9	
Acenaphthylene	ND	ug/L	0.10	0.034	1	06/14/17 14:36	06/19/17 16:3	6 208-96-8	
Anthracene	ND	ug/L	0.10	0.046	1	06/14/17 14:36	06/19/17 16:3	6 120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	0.048	1	06/14/17 14:36	06/19/17 16:3	6 56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	0.034	1	06/14/17 14:36	06/19/17 16:3	6 50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	0.035	1	06/14/17 14:36	06/19/17 16:3	6 205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	0.038	1	06/14/17 14:36	06/19/17 16:3	6 191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	0.036	1	06/14/17 14:36	06/19/17 16:3	6 207-08-9	
Chrysene	ND	ug/L	0.10	0.036	1	06/14/17 14:36	06/19/17 16:3	6 218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	0.031	1	06/14/17 14:36	06/19/17 16:3	6 53-70-3	
Fluoranthene	ND	ug/L	0.10	0.061	1	06/14/17 14:36	06/19/17 16:3	6 206-44-0	
Fluorene	ND	ug/L	0.10	0.026	1	06/14/17 14:36	06/19/17 16:3	6 86-73-7	
ndeno(1,2,3-cd)pyrene	ND	ug/L	0.10	0.035	1	06/14/17 14:36	06/19/17 16:3	6 193-39-5	
2-Methylnaphthalene	ND	ug/L	0.10	0.057	1	06/14/17 14:36	06/19/17 16:3	6 91-57-6	
Naphthalene	ND	ug/L	0.10	0.061	1	06/14/17 14:36	06/19/17 16:3	6 91-20-3	
Phenanthrene	ND	ug/L	0.10	0.037	1	06/14/17 14:36	06/19/17 16:3		
Pyrene	ND	ug/L	0.10	0.056	1	06/14/17 14:36	06/19/17 16:3		
Surrogates		3							
2-Fluorobiphenyl (S)	38	%	19-123		1	06/14/17 14:36	06/19/17 16:3	6 321-60-8	
Terphenyl-d14 (S)	46	%	58-130		1	06/14/17 14:36	06/19/17 16:3	6 1718-51-0	S1,SR
3260C MSV	Analytical	Method: EPA 8	260C						
Benzene	ND	ug/L	1.0	0.18	1		06/12/17 17:1	1 71-43-2	
Ethylbenzene	ND	ug/L	1.0	0.20	1		06/12/17 17:1	1 100-41-4	
Toluene	ND	ug/L	1.0	0.11	1		06/12/17 17:1	1 108-88-3	
Xylene (Total)	ND	ug/L	3.0	0.77	1		06/12/17 17:1	1 1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.49	1		06/12/17 17:1	1 179601-23-1	
o-Xylene	ND	ug/L	1.0	0.28	1		06/12/17 17:1	1 95-47-6	
Surrogates		Ü							
Toluene-d8 (S)	88	%	84-115		1		06/12/17 17:1	1 2037-26-5	
4-Bromofluorobenzene (S)	106	%	81-119		1		06/12/17 17:1	1 460-00-4	
1,2-Dichloroethane-d4 (S)	139	%	77-126		1		06/12/17 17:1	1 17060-07-0	S3,ST
Dibromofluoromethane (S)	120	%	70-130		1			1 1868-53-7	
335.4 Cyanide, Total	Analytical	Method: EPA 3	35.4 Prepara	ation Metho	od: EPA	A 335.4			



Project: National Grid - Rome Kingsley

Pace Project No.: 30221123

Date: 06/22/2017 05:02 PM

			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
200.7 Metals, Total	Analytical M	ethod: EPA 20	00.7 Prepa	ration Metho	od: EPA	A 200.7			
Arsenic	ND	ug/L	5.0	3.0	1	06/14/17 08:38	06/15/17 11:06	7440-38-2	
_ead	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	
3270D MSSV PAH by SIM	Analytical M	ethod: EPA 82	270D by SIN	M Preparati	on Met	hod: 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			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		1c
Benzo(k)fluoranthene	ND	ug/L	0.10	0.038	1	06/14/17 14:36	06/19/17 16:54		1c
Chrysene	ND	ug/L	0.10	0.037	1	06/14/17 14:36	06/19/17 16:54		1c
Dibenz(a,h)anthracene	ND	ug/L	0.10	0.033	1	06/14/17 14:36	06/19/17 16:54		1c
Fluoranthene	ND	ug/L	0.10	0.064	1	06/14/17 14:36	06/19/17 16:54		1c
luorene	ND	ug/L	0.10	0.027	1	06/14/17 14:36	06/19/17 16:54		1c
ndeno(1,2,3-cd)pyrene	ND	ug/L	0.10	0.036	1	06/14/17 14:36	06/19/17 16:54		1c
P-Methylnaphthalene	ND	ug/L	0.10	0.060	1	06/14/17 14:36	06/19/17 16:54		1c
Naphthalene	ND	ug/L	0.10	0.064	1	06/14/17 14:36			1c
Phenanthrene	ND	ug/L ug/L	0.10	0.039	1	06/14/17 14:36	06/19/17 16:54		1c
Pyrene	ND	ug/L ug/L	0.10	0.059	1	06/14/17 14:36	06/19/17 16:54		1c
Surrogates	ND	ug/L	0.10	0.039	'	00/14/17 14.30	00/19/17 10.54	129-00-0	10
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		
3260C MSV	Analytical M	ethod: EPA 82							
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		
Toluene	ND	ug/L	1.0	0.11	1		06/12/17 17:37		
(ylene (Total)	ND	ug/L	3.0	0.77	1		06/12/17 17:37		
n&p-Xylene	ND	ug/L	2.0	0.49	1		06/12/17 17:37		
nap Aylene p-Xylene	ND	ug/L	1.0	0.43	1		06/12/17 17:37		
Surrogates	IND	ug/L	1.0	0.20	'		00/12/11 11.31	JJ-41-0	
Foluene-d8 (S)	88	%	84-115		1		06/12/17 17:37	2037-26-5	
-Bromofluorobenzene (S)	107	%	81-119		1		06/12/17 17:37		
,2-Dichloroethane-d4 (S)	137	%	77-126		1		06/12/17 17:37		S3,ST
Dibromofluoromethane (S)	116	%	70-120		1		06/12/17 17:37		55,51
335.4 Cyanide, Total		ethod: EPA 3		ration Metho		\ 335.4			
Cyanide	0.016	mg/L	0.010	0.0020	1		06/15/17 18:58	F7.40.5	



Project: National Grid - Rome Kingsley

Pace Project No.: 30221123

Date: 06/22/2017 05:02 PM

Sample: LTMW-S09-0617	Lab ID: 3022	21123015	Collected	1: 06/07/17	16:00	Received: 06/	09/17 10:05 M	atrix: Water	
			Report						
Parameters	Results U	nits	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Meth	nod: EPA 20	0.7 Prepar	ration Metho	od: EPA	A 200.7			
Arsenic	ND u	ıg/L	5.0	3.0	1	06/14/17 08:38	06/15/17 11:10	7440-38-2	
Lead	ND u	ıg/L	5.0	2.5	1	06/14/17 08:38	06/15/17 11:10	7439-92-1	
Zinc	24.4 u	ıg/L	10.0	1.0	1	06/14/17 08:38	06/15/17 11:10	7440-66-6	
3270D MSSV PAH by SIM	Analytical Meth	nod: EPA 82	70D by SIN	// Preparation	on Met	hod: EPA 3510C			
Acenaphthene	ND u	ıg/L	0.099	0.027	1	06/14/17 14:36	06/19/17 17:11	83-32-9	
Acenaphthylene	ND u	ıg/L	0.099	0.033	1	06/14/17 14:36	06/19/17 17:11	208-96-8	
Anthracene	ND u	ıg/L	0.099	0.045	1	06/14/17 14:36	06/19/17 17:11	120-12-7	
Benzo(a)anthracene	ND u	ig/L	0.099	0.048	1	06/14/17 14:36	06/19/17 17:11	56-55-3	
Benzo(a)pyrene	ND u	ig/L	0.099	0.034	1	06/14/17 14:36	06/19/17 17:11	50-32-8	
Benzo(b)fluoranthene	ND u	ig/L	0.099	0.035	1	06/14/17 14:36	06/19/17 17:11	205-99-2	
Benzo(g,h,i)perylene		ig/L	0.099	0.038	1	06/14/17 14:36	06/19/17 17:11	191-24-2	
Benzo(k)fluoranthene	ND u	ig/L	0.099	0.036	1	06/14/17 14:36	06/19/17 17:11	207-08-9	
Chrysene		ıg/L	0.099	0.035	1	06/14/17 14:36	06/19/17 17:11	218-01-9	
Dibenz(a,h)anthracene		ig/L	0.099	0.031	1	06/14/17 14:36	06/19/17 17:11	53-70-3	
Fluoranthene		ıg/L	0.099	0.061	1	06/14/17 14:36	06/19/17 17:11	206-44-0	
luorene		ig/L	0.099	0.026	1	06/14/17 14:36	06/19/17 17:11	86-73-7	
ndeno(1,2,3-cd)pyrene		ig/L	0.099	0.034	1	06/14/17 14:36	06/19/17 17:11	193-39-5	
2-Methylnaphthalene		ig/L	0.099	0.057	1	06/14/17 14:36	06/19/17 17:11	91-57-6	
Naphthalene		ig/L	0.099	0.061	1	06/14/17 14:36	06/19/17 17:11	91-20-3	
Phenanthrene		ig/L	0.099	0.037	1	06/14/17 14:36	06/19/17 17:11		
Pyrene		ig/L	0.099	0.056	1	06/14/17 14:36	06/19/17 17:11		
Surrogates		J							
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	
3260C MSV	Analytical Meth	nod: EPA 82	60C						
Benzene	ND u	ıg/L	1.0	0.18	1		06/12/17 18:02	71-43-2	
Ethylbenzene	ND u	ıg/L	1.0	0.20	1		06/12/17 18:02	100-41-4	
Toluene		ig/L	1.0	0.11	1		06/12/17 18:02	108-88-3	
Kylene (Total)		ıg/L	3.0	0.77	1		06/12/17 18:02	1330-20-7	
n&p-Xylene	ND u	ıg/L	2.0	0.49	1		06/12/17 18:02	179601-23-1	
o-Xylene	ND u	ig/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	
1-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	
	A Martin - Martin	EDA 22	C 4 D		۰. ED/	225 4			
335.4 Cyanide, Total	Analytical Meth	100: EPA 33	5.4 Prepar	ration ivietno	u. EFF	1 335.4			



Project: National Grid - Rome Kingsley

Pace Project No.: 30221123

Date: 06/22/2017 05:02 PM

Sample: LTMW-S10-0617	Lab ID:	30221123016	Collected:	06/07/17	15:50	Received: 06/	/09/17 10:05 N	fatrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Droporod	Analyzad	CAS No.	Qua
Farameters —					<u>Dr</u>	Prepared	Analyzed	CAS NO.	- Qua
200.7 Metals, Total	Analytical	Method: EPA 2	00.7 Prepara	ation Meth	od: EPA	A 200.7			
Arsenic	ND	ug/L	5.0	3.0	1	06/14/17 08:38	06/15/17 09:3	7440-38-2	
Lead	ND	ug/L	5.0	2.5	1	06/14/17 08:38	06/15/17 09:3	7439-92-1	
Zinc	ND	ug/L	10.0	1.0	1	06/14/17 08:38	06/15/17 09:3	7440-66-6	
8270D MSSV PAH by SIM	Analytical	Method: EPA 8	270D by SIM	Preparati	ion Met	hod: EPA 3510C			
Acenaphthene	4.3	ug/L	0.11	0.028	1	06/14/17 14:36	06/19/17 15:0	83-32-9	MH
Acenaphthylene	0.23	ug/L	0.11	0.035	1	06/14/17 14:36	06/19/17 15:0	3 208-96-8	
Anthracene	ND	ug/L	0.11	0.048	1	06/14/17 14:36	06/19/17 15:0	3 120-12-7	ML
Benzo(a)anthracene	ND	ug/L	0.11	0.051	1	06/14/17 14:36	06/19/17 15:0	3 56-55-3	ML,R1
Benzo(a)pyrene	ND	ug/L	0.11	0.036	1	06/14/17 14:36	06/19/17 15:0	3 50-32-8	R1
Benzo(b)fluoranthene	ND	ug/L	0.11	0.037	1	06/14/17 14:36	06/19/17 15:0	3 205-99-2	R1
Benzo(g,h,i)perylene	ND	ug/L	0.11	0.040	1	06/14/17 14:36	06/19/17 15:0	3 191-24-2	R1
Benzo(k)fluoranthene	ND	ug/L	0.11	0.038	1	06/14/17 14:36	06/19/17 15:0	3 207-08-9	ML,R1
Chrysene	ND	ug/L	0.11	0.038	1	06/14/17 14:36	06/19/17 15:0	3 218-01-9	ML,R1
Dibenz(a,h)anthracene	ND	ug/L	0.11	0.033	1	06/14/17 14:36	06/19/17 15:0	3 53-70-3	ML,R1
Fluoranthene	0.62	ug/L	0.11	0.065	1	06/14/17 14:36	06/19/17 15:0	3 206-44-0	R1
Fluorene	0.35	ug/L	0.11	0.027	1	06/14/17 14:36	06/19/17 15:0	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 15:0	3 193-39-5	ML,R1
2-Methylnaphthalene	ND	ug/L	0.11	0.060	1	06/14/17 14:36	06/19/17 15:0	3 91-57-6	ML
Naphthalene	0.17	ug/L	0.11	0.064	1	06/14/17 14:36	06/19/17 15:0	3 91-20-3	ML
Phenanthrene	0.22	ug/L	0.11	0.039	1	06/14/17 14:36	06/19/17 15:0	85-01-8	ML
Pyrene	0.71	ug/L	0.11	0.059	1	06/14/17 14:36	06/19/17 15:0	3 129-00-0	R1
Surrogates		· ·							
2-Fluorobiphenyl (S)	26	%	19-123		1	06/14/17 14:36	06/19/17 15:0	321-60-8	
Terphenyl-d14 (S)	35	%	58-130		1	06/14/17 14:36	06/19/17 15:0	3 1718-51-0	SR
8260C MSV	Analytical	Method: EPA 8	260C						
Benzene	ND	ug/L	1.0	0.18	1		06/12/17 18:2	7 71-43-2	
Ethylbenzene	ND	ug/L	1.0	0.20	1		06/12/17 18:2	7 100-41-4	
Toluene	ND	ug/L	1.0	0.11	1		06/12/17 18:2		
Xylene (Total)	ND	ug/L	3.0	0.77	1		06/12/17 18:2	7 1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.49	1		06/12/17 18:2	7 179601-23-1	
o-Xylene	ND	ug/L	1.0	0.28	1		06/12/17 18:2	7 95-47-6	
Surrogates		· ·							
Toluene-d8 (S)	91	%	84-115		1		06/12/17 18:2	7 2037-26-5	
4-Bromofluorobenzene (S)	102	%	81-119		1		06/12/17 18:2	7 460-00-4	
1,2-Dichloroethane-d4 (S)	140	%	77-126		1		06/12/17 18:2	7 17060-07-0	S3,ST
Dibromofluoromethane (S)	120	%	70-130		1		06/12/17 18:2	7 1868-53-7	
335.4 Cyanide, Total	Analytical	Method: EPA 3	35.4 Prepara	ation Meth	od: EPA	A 335.4			
Cyanide	ND	mg/L	0.010	0.0020	1	06/14/17 14:27	06/15/17 10:0	0 57 10 5	

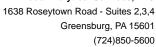


Project: National Grid - Rome Kingsley

Pace Project No.: 30221123

Date: 06/22/2017 05:02 PM

Sample: Field Duplicate-0617	Lab ID:	30221123017	Collected:	06/07/17	00:01	Received: 06/	09/17 10:05 N	latrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL _	DF	Prepared	Analyzed	CAS No.	Qua
200.7 Metals, Total	Analytical	Method: EPA 2	00.7 Prepara	ation Metho	d: EP/	A 200.7			
Arsenic	ND	ug/L	5.0	3.0	1	06/14/17 08:38	06/15/17 11:14	7440-38-2	
_ead	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	
3270D MSSV PAH by SIM	Analytical	Method: EPA 8	270D by SIM	1 Preparation	on Met	hod: 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	
luorene	ND	ug/L	0.097	0.025	1	06/14/17 14:36	06/19/17 18:21	86-73-7	
ndeno(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		
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		
Surrogates		Ü							
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	
3260C MSV	Analytical	Method: EPA 8	260C						
Benzene	ND	ug/L	1.0	0.18	1		06/12/17 19:43	3 71-43-2	
Ethylbenzene	ND	ug/L	1.0	0.20	1		06/12/17 19:43	3 100-41-4	
Toluene	ND	ug/L	1.0	0.11	1		06/12/17 19:43	3 108-88-3	
Xylene (Total)	ND	ug/L	3.0	0.77	1		06/12/17 19:43	3 1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.49	1		06/12/17 19:43	3 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	3 2037-26-5	
4-Bromofluorobenzene (S)	109	%	81-119		1		06/12/17 19:43	3 460-00-4	
,2-Dichloroethane-d4 (S)	142	%	77-126		1		06/12/17 19:43	3 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 3	35.4 Prepara	ation Metho	d: EP/	A 335.4			
Cyanide	ND	mg/L	0.010	0.0020	1	06/14/17 14:27	06/15/17 19:02	2 57-12-5	





Project: National Grid - Rome Kingsley

Pace Project No.: 30221123

Date: 06/22/2017 05:02 PM

Sample: Trip Blank	Lab ID:	30221123018	Collecte	d: 06/07/17	00:01	Received: 06/09/17 10:05 Matrix: Water			
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV	Analytical	Method: EPA 8	3260C						
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	



QUALITY CONTROL DATA

Project: National Grid - Rome Kingsley

Pace Project No.: 30221123

Date: 06/22/2017 05:02 PM

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					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% 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						
		30221123010	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Arsenic	ug/L	ND 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 S	PIKE DUPLICA	TE: 12891	24		1289125							
	30	0221123016	MS Spike	MSD Spike	MS	MSD	MS	MSD	% Rec		Max RPD	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	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 .	ua/l	ND	500	500	500	504	100	101	70-130	1	20	

SAMPLE DUPLICATE: 1289121						
		30221123010	Dup		Max	
Parameter	Units	Result	Result	RPD	RPD	Qualifiers
Arsenic	ug/L	ND	ND		20	
Lead	ug/L	ND	ND		20	
Zinc	ug/L	ND	3J		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.



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QUALITY CONTROL DATA

Project: National Grid - Rome Kingsley

Pace Project No.: 30221123

Date: 06/22/2017 05:02 PM

SAMPLE DUPLICATE: 1289123

SAMPLE DUPLICATE. 1209123		30221123016	Dup		Max	
Parameter	Units	Result	Result	RPD	RPD	Qualifiers
Arsenic	ug/L		ND		20)
Lead	ug/L	ND	ND		20)
Zinc	ug/L	ND	ND		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.



QUALITY CONTROL DATA

Project: National Grid - Rome Kingsley

Pace Project No.: 30221123

Date: 06/22/2017 05:02 PM

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: \quad 30221123001,\ 30221123002,\ 30221123003,\ 30221123004,\ 30221123005,\ 30221123006,\ 302211230070,\ 30221123007,\$

30221123008, 30221123009, 30221123010, 30221123011, 30221123012, 30221123013, 30221123014,

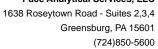
30221123015, 30221123016, 30221123017, 30221123018

		Blank	Reporting			
Parameter	Units	Result	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					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
Benzene	ug/L		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 S	PIKE DUPLICA	ATE: 128790	07		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 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	

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.





QUALITY CONTROL DATA

Project: National Grid - Rome Kingsley

Pace Project No.: 30221123

Date: 06/22/2017 05:02 PM

MATRIX SPIKE & MATRIX SPI	KE DUPLIC	ATE: 12879	07		1287908							
	;	30221123016	MS Spike	MSD Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	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			

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.



Project: National Grid - Rome Kingsley

Pace Project No.: 30221123

Date: 06/22/2017 05:02 PM

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

		Blank	Reporting			
Parameter	Units	Result	Limit	MDL	Analyzed	Qualifiers
2-Methylnaphthalene	ug/L	ND 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					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
2-Methylnaphthalene	ug/L		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	

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.



Project: National Grid - Rome Kingsley

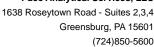
Pace Project No.: 30221123

Date: 06/22/2017 05:02 PM

LABORATORY CONTROL SAMPLE:	1288964					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
Indeno(1,2,3-cd)pyrene	ug/L		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 S	PIKE DUPLICA	TE: 12889	65		1288966							
			MS	MSD								
	3	0221123016	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	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	1
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	1
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.





Project: National Grid - Rome Kingsley

Pace Project No.: 30221123

Cyanide

Date: 06/22/2017 05:02 PM

QC Batch: 261865 EPA 335.4 Analysis Method:

QC Batch Method: EPA 335.4 Analysis Description: 335.4 Cyanide, Total

ND

mg/L

.1

30221123001, 30221123002, 30221123003, 30221123004, 30221123005, 30221123006, 30221123007, Associated Lab Samples:

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 Reporting Blank Parameter Result Limit MDL Qualifiers Units Analyzed Cyanide ND 0.010 0.0020 06/15/17 18:38 mg/L LABORATORY CONTROL SAMPLE: 1289331 LCS LCS Spike % Rec Parameter Units Conc. Result % Rec Limits Qualifiers Cyanide mg/L .2 0.20 101 90-110 MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1289332 1289333 MS MSD MSD MS MSD 30221243001 Spike Spike MS % Rec Max Parameter Units Result Conc. Conc. Result Result % Rec % Rec Limits RPD RPD Qual 0.084 0.18 101 90-110 20 Cyanide mg/L .1 .1 0.19 103 MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1289334 1289335 MS MSD 30221123016 MS MS MSD Spike Spike MSD % Rec Max Parameter Units % Rec Limits RPD RPD Result Conc. Conc. Result Result % Rec Qual

.1

0.10

0.10

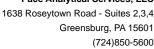
96

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.





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

10

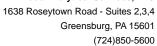
PASI-PA Pace Analytical Services - Greensburg

ANALYTE QUALIFIERS

Date: 06/22/2017 05:02 PM

10	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.

Emulsions were present during the extraction of this sample. Appropriate mechanical means were employed to break up





QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: National Grid - Rome Kingsley

Pace Project No.: 30221123

Date: 06/22/2017 05:02 PM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytic 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
0221123004	LTMW-S02-0617	EPA 200.7	261815	EPA 200.7	261892
0221123005	LTMW-D03-0617	EPA 200.7	261815	EPA 200.7	261892
0221123006	LTMW-S03-0617	EPA 200.7	261815	EPA 200.7	261892
0221123007	LTMW-D04-0617	EPA 200.7	261815	EPA 200.7	261892
0221123008	LTMW-S04-0617	EPA 200.7	261815	EPA 200.7	261892
0221123009	LTMW-D05-0617	EPA 200.7	261815	EPA 200.7	261892
0221123010	LTMW-S05-0617	EPA 200.7	261815	EPA 200.7	261892
0221123011	LTMW-D06-0617	EPA 200.7	261815	EPA 200.7	261892
0221123011	LTMW-S06-0617	EPA 200.7	261815	EPA 200.7	261892
0221123012	LTMW-S03-0617	EPA 200.7	261815	EPA 200.7	261892
0221123013	LTMW-S07-0017	EPA 200.7	261815	EPA 200.7	261892
0221123014 0221123015	LTMW-S09-0617	EPA 200.7 EPA 200.7	261815	EPA 200.7 EPA 200.7	261892
	LTMW-309-0017 LTMW-S10-0617				
0221123016 0221123017		EPA 200.7	261815 261815	EPA 200.7 EPA 200.7	261892
0221123017	Field Duplicate-0617	EPA 200.7	261815	EPA 200.7	261892
0221123001	LTMW-D01-0617	EPA 3510C	261784	EPA 8270D by SIM	262248
0221123002	LTMW-S01-0617	EPA 3510C	261784	EPA 8270D by SIM	262248
0221123003	LTMW-D02-0617	EPA 3510C	261784	EPA 8270D by SIM	262248
0221123004	LTMW-S02-0617	EPA 3510C	261784	EPA 8270D by SIM	262248
0221123005	LTMW-D03-0617	EPA 3510C	261784	EPA 8270D by SIM	262248
0221123006	LTMW-S03-0617	EPA 3510C	261784	EPA 8270D by SIM	262248
0221123007	LTMW-D04-0617	EPA 3510C	261784	EPA 8270D by SIM	262248
0221123008	LTMW-S04-0617	EPA 3510C	261784	EPA 8270D by SIM	262248
0221123009	LTMW-D05-0617	EPA 3510C	261784	EPA 8270D by SIM	262248
0221123010	LTMW-S05-0617	EPA 3510C	261784	EPA 8270D by SIM	262248
0221123011	LTMW-D06-0617	EPA 3510C	261784	EPA 8270D by SIM	262248
0221123012	LTMW-S06-0617	EPA 3510C	261784	EPA 8270D by SIM	262248
0221123013	LTMW-S07-0617	EPA 3510C	261784	EPA 8270D by SIM	262248
0221123014	LTMW-S08-0617	EPA 3510C	261784	EPA 8270D by SIM	262248
0221123015	LTMW-S09-0617	EPA 3510C	261784	EPA 8270D by SIM	262248
0221123016	LTMW-S10-0617	EPA 3510C	261784	EPA 8270D by SIM	262248
0221123017	Field Duplicate-0617	EPA 3510C	261784	EPA 8270D by SIM	262248
0221123001	LTMW-D01-0617	EPA 8260C	261514		
0221123002	LTMW-S01-0617	EPA 8260C	261514		
0221123003	LTMW-D02-0617	EPA 8260C	261514		
0221123004	LTMW-S02-0617	EPA 8260C	261514		
0221123004	LTMW-002-0017	EPA 8260C	261514		
0221123006	LTMW-S03-0617	EPA 8260C	261514		
0221123007	LTMW-303-0017 LTMW-D04-0617	EPA 8260C	261514		
0221123007	LTMW-504-0617				
		EPA 8260C	261514		
0221123009	LTMW-D05-0617	EPA 8260C	261514		
0221123010	LTMW-S05-0617	EPA 8260C	261514		
0221123011	LTMW-D06-0617	EPA 8260C	261514		
0221123012	LTMW-S06-0617	EPA 8260C	261514		
0221123013	LTMW-S07-0617	EPA 8260C	261514		
0221123014	LTMW-S08-0617	EPA 8260C	261514		



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: National Grid - Rome Kingsley

Pace Project No.: 30221123

Date: 06/22/2017 05:02 PM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytica 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

WO#:30221123

Pace Analytical "

USTODY / Analytical Request Document

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

Pace Project Number Cab LD MI 900 SAMPLE CONDITIONS 1 of 2 00 00 00 00 S OTHER h 00 <u>.</u> N/J DRIN JG WATER W Z REGULATORY AGENCY Sc OTHE A P P GROF D WATER A SEEN IBIOT SOURCE <u>__</u> (FSEO) PROJ. PRIMERO (OBSER) XEJUR 1111 RCRA DATE **~** SITE N 0 2 7 7 e 'n ю ო ო n ო ო LOCATION "ittered (Y/N) NPDES Requested 5 Analysis: lethanol 49⁵2⁵0³ Fryday ACCEPTED BY / AFFILIATION HOP က m ო n e ო m -^EONI †OS^z N npreserved N N N 2 N hvoice Information: Attention: Accounts Payable via email at ges-invoices@gesonline.com #OF CONTAINERS Address: 5 Technology Place, Suite 4. East Syracuse, NY 13057 Company Name: Groundwater & Environmental Services, Inc. TIME SAMPLE TEMP AT COLLECTION No. DATE ΠMI Pace Project Manager: Rachel Christner DATE COLLECTED RELINQUISHED BY / AFFILIATION Pace Quote Reference: ME Pace Profile #: Section C DATE Ø ഗ O Q Ø Q Ø ပ Ø ပ ₩ WH ഗ Ø+€ВАВ С=СОМР 34YT 3J4MAS W ۶ Ž Ϋ́ ž ¥ ¥ ¥ ¥ ¥ ¥ Project Name: National Grid - Rome Kingsley Ave. Sile. Rome. NY Project Number: 06-02882-134400-221-1106 BOOD XIRTAM 30221123 Report To: Mark Boorady (GES) mboorady@gesonline.com Required Project Information: COOLERS. urchase Order No.: Section B Copy To: LTMW-D02-0617 LTMW-D03-0617 LTMW-S03-0617 LTMW-D04-0617 LTMW-S04-0617 LTMW-D05-0617 LTMW-S05-0617 LTMW-D06-0617 LTMW-S06-0617 LTMW-S01-0617 LTMW-S02-0617 LTMW-D01-0617 Section D Required Client Information One Character per box. (A-Z, 0-9 / .-) Samples IDs MUST BE UNIQUE SAMPLE ID Requested Due Date/TAT: Standard Address: 5 Technology Place, Suite 4 Email To: mboorady@gesonline.com SAMPLES WILL ARRIVE IN Fax: None East Syracuse, New York 13057 Required Client Information: Company: GES - Syracuse Additional Comments: 800.220.3069, x4065 ILEW #

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

Samples Intact

Chalody

Received on fce

O° ni qmeT

DATE Signed (IMM / DDJ YY)

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Please send reports to: mboorady@gesonline.com.

SAMPLER NAME AND SIGNATURE

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タガク

CHAIN-OF-CUSTODY / Analytical Request Document

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

Face Analytical

3 Pace Project Number Lab I.D. Collect MS/MSD Samples Š Q 00 OTHER S 2 of 2 Z O Õ Ξ DRIN NG WATER REGULATORY AGENCY 3 Z Page: OTF SC GA TILT F F GRO! ID WATER I... 1 300 100158 (BANG) \$0018 2 RCR. -<u>elikanen</u> SITE (1) 2 Section . LOCATION ന iltered (Y/N) NPDES 6 TSU " Rednested Analysis: C) lethanel €O<u>s</u>Ss6l HOst IOI CONH †OS^zF bevreserqui Attention: Accounts Payable via email at ges-invoices@gesonline.com #OF СОИТАІИЕRS Address: 5 Technology Place, Suite 4, East Syracuse, NY 13057 Company Name: Groundwater & Environmental Services, Inc. SAMPLE TEMP AT COLLECTION Q. 3 TIME Pace Project Manager: Rachel Christner DATE COLLECTED Pace Quote Reference: TIME Invoice Information: Dace Profile #: COMPOSITE START Section C DATE Project Name: National Grid - Rome Kingsley Ave. Site, Rome, NY Project Number: 06-02882-134400-221-1106 먑 SAMPLE TYPE O G Ø ပ O G+GRAB C=COMP ₹ ₩ ¥ W ¥ ¥ MATRIX CODE Report To: Mark Boorady (GES) mboorady@gesonline.com Required Project Information: 200<u>6</u> Purchase Order No. Valid Matrix Codes
MATRIX
DRINKNG PLATER
WATER
PRODUCT
SOULDOUGS Section B Copy To: --END OF RECORD---Field Duplicate-0617 LTMW-S08-0617 LTMW-S09-0617 LTMW-S10-0617 LTMW-S07-0617 Trip Blank Required Client Information One Character per box. (A-Z, 0-9 / ,-) Samples IDs MUST BE UNIQUE SAMPLE ID 4ddress: 5 Technology Place, Suite 4 Requested Due Date/TAT: Standard Email To: mboorady@gesonline.com Fax: None East Syracuse, New York 13057 Required Client Information: Company: GES - Syracuse Section D 800.220.3069, x4065 Section A # WB11

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

Samples Intact

Sealed Cool

Custody

100

Received on

O° ni qm∋T

DATE Signed (MM/DD/YYY)

SAMPLER NAME AND SIGNATURE

15/12 118

3746

Fried

COOLERS.

SAMPLES WILL ARRIVE IN

Additional Comments:

N/A N/Å N/A

N/A N/X

N/X N/A N/**å** N/A

2. 2.

100

19/11/11

4/8/12

SAMPLE CONDITIONS

TIME

DATE

ACCEPTED BY / AFFILIATION

TIME

DATE

RELINOUISHED BY / AFFILIATION

SPECIFIC EDD NAME:

NORome-labnumber.28351.EQEDD.zip of 42

Syracuselabs@gesonline.com, ges@equisonline.com

Please send reports to: mboorady@gesonline.com,

Sample Condition Upon Receipt Pittsburgh

KEH

Face Analytical	Client Name:	<u>Ge</u>	S - '	<u> </u>	acusk	Project # <u>30 2 2 1 1 2</u>			
Courier: Fed Ex Tracking #: 793	UPS	ent 🗀] Com	merci	al Pace Other				
Custody Seal on Cooler	r/Box Present: 🛮 yes		no	Sea	als intact: 🎾 yes	no			
Thermometer Used	ia.	_		. 100		•			
Cooler Temperature	Observed Temp	3.3	8 c	Cor	rection Factor: O-C) °C Final Temp: 1-3, 3.8°C 4.4, 3.8, 1.			
Temp should be above freez	ing to 6°C	9,3	- . 8 . 1	ì. Í		4.01, 3.8,1.			
	,	1 120		() Z		Date and Initials of person examining contents: ACH LO 19/11			
Comments:		Yes	No	N/A	4				
Chain of Custody Present	t:				1.				
Chain of Custody Filled O	out:				2.				
Chain of Custody Relinqu	ished:		<u></u>	J	3.				
Sampler Name & Signatu	re on COC;	STORM		ļ	4.				
Sample Labels match CO			1		5.				
-Includes date/time/ID	Matrix: W	+		<u></u>					
Samples Arrived within Ho	old Time:		<u> </u>		6.				
Short Hold Time Analysi	s (<72hr remaining):				7.				
Rush Turn Around Time	Requested:				8.				
Sufficient Volume:					9.				
Correct Containers Used:					10.				
-Pace Containers Used	i:	Market of the same							
Containers Intact:					11.				
Orthophosphate field filtere	eď			1	12.				
Organic Samples check	ed for dechlorination:	1			13.	·			
Filtered volume received for	or Dissolved tests	-		Commonweal of the last of the	14.				
All containers have been ched	cked for preservation.				15.				
All containers needing preserv compliance with EPA recomm									
exceptions: (VOA) coliform	TOC OAG Phenolics				tnitial when completed	Date/time of preservation			
C)	,, , , , , , , , , , , , , , , , , , , ,				Lot # of added	I			
			/ 0^		preservative				
Headspace in VOA Vials (>6mm):				16.				
Trip Blank Present:		/			17.				
Trip Blank Custody Seals F Rad Aqueous Samples So	resent				Initial when				
Rau Aqueous Samples So	creened > 0.5 mrem/m			600	completed:	Date:			
Client Notification/ Resolu	ution:								
Person Contacted:				Date/1	Гime:	Contacted By:			
Comments/ Resolution:									
									
□ A check in this bo	x indicates that addit	ional i	inforn	natio	n has been stored ir	n 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.

(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

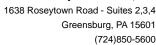
CC: GES Reports - Syracuse, Groundwater & Environmental Services, Inc.

Ms. Cheryl Golden-Walts, Groundwater & Environmental Services, Inc.

Chandler Swartzendruber, Groundwater & Environmental

Services, Inc.







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

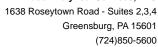
South Dakota Certification

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



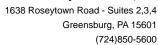


SAMPLE SUMMARY

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



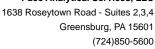


SAMPLE ANALYTE COUNT

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





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.

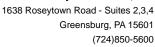
Matrix Spikes:

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:





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.

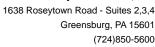
Matrix Spikes:

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:





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:

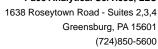
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

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





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

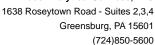
QC Batch: 261784

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:





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.

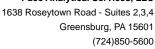
Laboratory Control Spike:

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:





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:

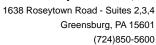
All laboratory control spike compounds were within QC limits with any exceptions noted below.

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.





ANALYTICAL RESULTS

Project: National Grid - Rome Kingsley

Pace Project No.: 30221243

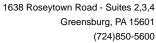
Date: 06/20/2017 04:54 PM

Sample: Effluent System 0617 Lab ID: 30221243001Collected: 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: EP	A 200.7 Prepa	aration Meth	od: EF	PA 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		06/14/17 11:52		
Silver	ND	mg/L	0.0060	0.00067	1	06/13/17 08:16			
Zinc	ND	mg/L	0.010	0.0010	1	06/13/17 08:16		_	
245.1 Mercury	Analytical	_	A 245.1 Prepa	aration Meth	od: EF	PA 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: EP	A 8270D by S	IM Preparat	tion Me	ethod: 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		
Anthracene	0.41	ug/L	0.097	0.044	1	06/14/17 14:36			
Benzo(a)anthracene	ND	ug/L	0.097	0.047	1	06/14/17 14:36			
Benzo(a)pyrene	ND	ug/L	0.097	0.033	1	06/14/17 14:36			
Benzo(b)fluoranthene	ND ND	ug/L	0.097	0.033	1	06/14/17 14:36			
	ND ND		0.097	0.034	1	06/14/17 14:36			
Benzo(g,h,i)perylene		ug/L				06/14/17 14:36			
Benzo(k)fluoranthene	ND	ug/L	0.097	0.035	1				
Chrysene	ND	ug/L	0.097	0.035	1		06/19/17 12:49		
Dibenz(a,h)anthracene	ND	ug/L	0.097	0.030	1	06/14/17 14:36			
Fluoranthene	0.85	ug/L	0.097	0.060	1	06/14/17 14:36			
Fluorene	4.7	ug/L	0.097	0.025	1	06/14/17 14:36			
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.097	0.034	1	06/14/17 14:36			
Naphthalene	4.4	ug/L	0.097	0.059	1	06/14/17 14:36			
Phenanthrene	4.9	ug/L	0.097	0.036	1	06/14/17 14:36	06/19/17 12:49		
Pyrene	1.0	ug/L	0.097	0.055	1	06/14/17 14:36	06/19/17 12:49	129-00-0	
Surrogates	0.5	0.4	10.100			00/44/474400	00/40/47 40 40	004 00 0	
2-Fluorobiphenyl (S)	65 82	%	19-123		1 1	06/14/17 14:36	06/19/17 12:49		
Terphenyl-d14 (S)		%	58-130		'	06/14/17 14:36	06/19/17 12:49	1710-51-0	
8260C MSV	·	Method: EP							
1,1,1-Trichloroethane	ND	ug/L	1.0	0.22	1		06/13/17 14:36		
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		
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		06/13/17 14:36		
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	





ANALYTICAL RESULTS

Project: National Grid - Rome Kingsley

Pace Project No.: 30221243

Date: 06/20/2017 04:54 PM

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 8	3260C						
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		
Methylene Chloride	ND	ug/L	1.0	0.59	1		06/13/17 14:36		
Styrene	ND	ug/L	1.0	0.18	1		06/13/17 14:36		
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		
Trichloroethene	ND	ug/L	1.0	0.50	1		06/13/17 14:36		
Vinyl chloride	ND	ug/L	1.0	0.21	1		06/13/17 14:36		
Xylene (Total)	3.4	ug/L	3.0	1.1	1		06/13/17 14:36		
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.48	1		06/13/17 14:36		
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.37	1		06/13/17 14:36		
m&p-Xylene	2.2	ug/L	2.0	0.70	1		06/13/17 14:36		
o-Xylene	1.2	ug/L	1.0	0.37	1		06/13/17 14:36		
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.32	1		06/13/17 14:36		
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.74	1		06/13/17 14:36		
Surrogates	ND	ug/L	1.0	0.7 -	•		00/10/17 14:00	10001 02 0	
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		
Dibromofluoromethane (S)	91	%	70-130		1		06/13/17 14:36		
335.4 Cyanide, Total	Analytical	Method: EPA 3	335.4 Prepa	aration Meth	od: EP	A 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	
335.4 Cyanide, Total Cyanide							06/15/17 18:41	57-12-5	
Sample: Trip Blank	Lab ID:	30221243002	Collecte	d: 06/07/1	7 16:30	Received: 06	/10/17 10:00 Ma	atrix: Water	
Comments: • Sample collection to	ime on container	s does not mat	ch COC; clie Report	ent was not	fied. C	Client confirmed 10	6:30 as correct co	llection time.	
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV	Analytical	Method: EPA 8	3260C						
1,1,1-Trichloroethane	ND	ug/L	1.0	0.22	1		06/13/17 14:08	71-55-6	



ANALYTICAL RESULTS

Project: National Grid - Rome Kingsley

Pace Project No.: 30221243

Date: 06/20/2017 04:54 PM

Collected: 06/07/17 16:30 Sample: Trip Blank Lab ID: 30221243002 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. Report **Parameters** Results Units Limit MDL DF Prepared Analyzed CAS No. Qual 8260C MSV Analytical Method: EPA 8260C ND 1,1,2,2-Tetrachloroethane ug/L 1.0 0.19 06/13/17 14:08 79-34-5 1 1,1,2-Trichloroethane ND ug/L 1.0 0.45 1 06/13/17 14:08 79-00-5 ND ug/L 1,1-Dichloroethane 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 06/13/17 14:08 78-87-5 1 10.0 5.5 06/13/17 14:08 78-93-3 2-Butanone (MEK) ND ug/L 1 ΙH 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 06/13/17 14:08 108-10-1 1 ND 10.0 3.8 06/13/17 14:08 67-64-1 Acetone ug/L 1 Benzene ND ug/L 1.0 0.35 06/13/17 14:08 71-43-2 1 Bromodichloromethane ND ug/L 1.0 0.43 06/13/17 14:08 75-27-4 1 ug/L 06/13/17 14:08 75-25-2 **Bromoform** ND 1.0 0.40 1 Bromomethane ND ug/L 1.0 0.90 1 06/13/17 14:08 74-83-9 ΙH 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 0.19 06/13/17 14:08 108-90-7 ug/L 1.0 1 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 06/13/17 14:08 124-48-1 1 Ethylbenzene ND ug/L 0.21 06/13/17 14:08 100-41-4 1.0 1 06/13/17 14:08 75-09-2 ND 0.59 Methylene Chloride ug/L 1.0 1 ND 06/13/17 14:08 100-42-5 Styrene ug/L 1.0 0.18 1 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 ND ug/L 0.37 06/13/17 14:08 95-47-6 o-Xylene 1.0 1 ND trans-1,2-Dichloroethene ug/L 1.0 0.32 06/13/17 14:08 156-60-5 1 06/13/17 14:08 10061-02-6 trans-1,3-Dichloropropene ND ug/L 1.0 0.74 1 Surrogates 4-Bromofluorobenzene (S) 101 % 81-119 06/13/17 14:08 460-00-4 1 1,2-Dichloroethane-d4 (S) 84 % 77-126 1 06/13/17 14:08 17060-07-0 Toluene-d8 (S) 102 84-115 06/13/17 14:08 2037-26-5 % 1 Dibromofluoromethane (S) 91 % 70-130 06/13/17 14:08 1868-53-7



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

1289325

1289327

mg/L

Associated Lab Samples: 30221243001

LABORATORY CONTROL SAMPLE:

MATRIX SPIKE SAMPLE:

Mercury

Date: 06/20/2017 04:54 PM

 Parameter
 Units
 Blank Result
 Reporting Limit
 MDL
 Analyzed
 Qualifiers

 Mercury
 mg/L
 ND
 0.00020
 0.000017
 06/14/17 23:54

ParameterUnitsConc.Result% RecLimitsQualifiersMercurymg/L.0010.001010485-115

Spike

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

LCS

LCS

% Rec

20

MATRIX SPIKE SAMPLE: 1289329 30221410001 Spike MS MS % Rec Parameter Units Result Conc. Result % Rec Limits Qualifiers ND Mercury mg/L .0025 0.0024 97 70-130

SAMPLE DUPLICATE: 1289326 30221145001 Dup Max Parameter Units Result Result **RPD RPD** Qualifiers ND ND 20 Mercury mg/L

 SAMPLE DUPLICATE: 1289328

 30221410001 Dup Max

 Parameter
 Units
 Result
 RPD
 RPD
 Qualifiers

ND

ND

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.



Project: National Grid - Rome Kingsley

Pace Project No.: 30221243

Date: 06/20/2017 04:54 PM

QC Batch: 261632 Analysis Method: EPA 200.7

QC Batch 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	ma/L	ND	0.010	0.0010	06/14/17 11:04	

LABORATORY CONTROL SAMPLE:	1288437	Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% 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 S	SPIKE DUPLICA	ATE: 12884	39		1288440							
	3	0220966001	MS Spike	MSD Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	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	

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.



Project: National Grid - Rome Kingsley

Pace Project No.: 30221243

Date: 06/20/2017 04:54 PM

MATRIX SPIKE SAMPLE:	1288442						
		30221028001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Arsenic	mg/L	8.4 ug/L		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	

		30220966001	Dup		Max	
Parameter	Units	Result	Result	RPD	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						
Danasatas	11.9.	30221028001	Dup	DDD	Max	0 110
Parameter	Units	Result	Result	RPD	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	

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.



Project: National Grid - Rome Kingsley

Pace Project No.: 30221243

Date: 06/20/2017 04:54 PM

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 Result Limit MDL Analyzed Qualifiers	Associated Lab Gamples.	30221243001, 30221243002	Dlook	Donortina			
1,1,1-Trichloroethane	Doromotor	Lloito	Blank	Reporting	MDI	Analyzad	Ovalifiara
1,1,2,2-Tickloroethane ug/L ND 1.0 0.45 06/13/17 13:40 1,1,2-Tickloroethane ug/L ND 1.0 0.45 06/13/17 13:40 1,1-Dichloroethane ug/L ND 1.0 0.20 06/13/17 13:40 1,1-Dichloroethane ug/L ND 1.0 0.20 06/13/17 13:40 1,2-Dichloropropane ug/L ND 1.0 0.62 06/13/17 13:40 1,2-Butanone (MEK) ug/L ND 10.0 5.5 06/13/17 13:40 2-Butanone (MEK) ug/L ND 10.0 1.7 06/13/17 13:40 4-Methyl-2-pentanone (MIBK) ug/L ND 1.0 0.43 06/13/17 13:40 Benzene ug/L ND 1.0 0.	Parameter		Result		MDL	Analyzeu	Quaillers
1,1.2-Trichloroethane	1,1,1-Trichloroethane	ug/L	ND	1.0	0.22	06/13/17 13:40	
1,1-Dichloroethane ug/L ND 1,0 0.34 06/13/17 13:40 1,1-Dichloroethane ug/L ND 1.0 0.20 06/13/17 13:40 1,2-Dichloropropane ug/L ND 1.0 0.62 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 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 4-Methyl-2-pentanone (MIBK) ug/L ND 10.0 3.8 06/13/17 13:40 Bromomethane ug/L ND 1.0 0	1,1,2,2-Tetrachloroethane				0.19	06/13/17 13:40	
1,1-Dichloroethane 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-Dichloroethane 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 2-Hexanone ug/L ND 10.0 1.7 06/13/17 13:40 4-Methyl-2-pentanone (MIBK) ug/L ND 10.0 3.8 06/13/17 13:40 Acetone ug/L ND 10.0 3.8 06/13/17 13:40 Benzene ug/L ND 1.0 0.43 06/13/17 13:40 Bromodichloromethane ug/L ND 1.0 0.43 06/13/17 13:40 Bromodorm ug/L ND 1.0 0.43 06/13/17 13:40 Bromodichloromethane ug/L ND 1.0 0.25 06/13/17 13:40 Bromodichloromethane ug/L ND 1.0 0.25 06/13/17 13:40 <t< td=""><td>1,1,2-Trichloroethane</td><td></td><td></td><td>1.0</td><td>0.45</td><td>06/13/17 13:40</td><td></td></t<>	1,1,2-Trichloroethane			1.0	0.45	06/13/17 13:40	
1,2-Dichloroerhane 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 1.5 06/13/17 13:40 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 4-Methyl-2-pentanone (MIBK) ug/L ND 10.0 3.8 06/13/17 13:40 4-Methyl-2-pentanone (MIBK) ug/L ND 10.0 0.35 06/13/17 13:40 Benzene ug/L ND 1.0 0.35 06/13/17 13:40 Benzene ug/L ND 1.0 0.43 06/13/17 13:40 Bromodichloromethane ug/L ND 1.0 0.40 06/13/17 13:40 Carbon disulfide ug/L ND 1.0 0.25 06/13/17 13:40 IH Carbon disulfide ug/L ND 1.0 0.1	1,1-Dichloroethane	ug/L	ND	1.0	0.34	06/13/17 13:40	
1,2-Dichloropropane ug/L ND 1,0 0.62 06/13/17 13:40 H 2-Butanone (MEK) ug/L ND 10.0 5.5 06/13/17 13:40 H 2-Hexanone ug/L ND 10.0 1.7 06/13/17 13:40 4-Methyl-2-pentanone (MIBK) ug/L ND 10.0 3.8 06/13/17 13:40 Acetone ug/L ND 10.0 3.8 06/13/17 13:40 Benzene ug/L ND 1.0 0.43 06/13/17 13:40 Bromodichloromethane ug/L ND 1.0 0.40 06/13/17 13:40 Bromoform ug/L ND 1.0 0.40 06/13/17 13:40 Bromoform ug/L ND 1.0 0.40 06/13/17 13:40 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 Chlorobetane ug/L ND 1.0 0.33 06/13/17 13:40 </td <td>1,1-Dichloroethene</td> <td>ug/L</td> <td>ND</td> <td>1.0</td> <td>0.20</td> <td>06/13/17 13:40</td> <td></td>	1,1-Dichloroethene	ug/L	ND	1.0	0.20	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 Bromoformethane ug/L ND 1.0 0.90 06/13/17 13:40 Bromoformethane ug/L ND 1.0 0.92 06/13/17 13:40 Carbon disulfide ug/L ND 1.0 0.22 06/13/17 13:40 Carbon tetrachloride ug/L ND 1.0 0.19 06/13/17 13:40 Chlorobertane ug/L ND 1.0 0.23 06/13/17 13:40	1,2-Dichloroethane	ug/L	ND	1.0	0.36	06/13/17 13:40	
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 0.43 06/13/17 13:40 Bromodichloromethane ug/L ND 1.0 0.43 06/13/17 13:40 Bromodichloromethane ug/L ND 1.0 0.40 06/13/17 13:40 Bromomethane ug/L ND 1.0 0.25 06/13/17 13:40 Bromomethane ug/L ND 1.0 0.25 06/13/17 13:40 Carbon disulfide ug/L ND 1.0 0.25 06/13/17 13:40 Carbon distrachloride ug/L ND 1.0 0.25 06/13/17 13:40 Chlorobenzene ug/L ND 1.0 0.2 06/13/17 13:40 Chlorobenzene ug/L ND 1.0 0.3 06/13/17 13:40 <td< td=""><td>1,2-Dichloropropane</td><td>ug/L</td><td>ND</td><td>1.0</td><td>0.62</td><td>06/13/17 13:40</td><td></td></td<>	1,2-Dichloropropane	ug/L	ND	1.0	0.62	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 10.0 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 Bromofitane ug/L ND 1.0 0.25 06/13/17 13:40 Bromofitalifide ug/L ND 1.0 0.25 06/13/17 13:40 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 0.42 06/13/17 13:40 Chloroform ug/L ND 1.0 0.43 06/13/17 13:40 Chloromethane ug/L ND 1.0 0.33 06/13/17 13:40 cis-1	2-Butanone (MEK)	ug/L	ND	10.0	5.5	06/13/17 13:40	IH
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 Carbon disulfide ug/L ND 1.0 0.25 06/13/17 13:40 Carbon detrachloride ug/L ND 1.0 0.25 06/13/17 13:40 Chlorobenzene ug/L ND 1.0 0.19 06/13/17 13:40 Chlorobenzene ug/L ND 1.0 0.19 06/13/17 13:40 Chlorobenzene ug/L ND 1.0 0.42 06/13/17 13:40 Chlorobenzene ug/L ND 1.0 0.33 06/13/17 13:40 Chlorobenzene ug/L ND 1.0 0.33 06/13/17 13:40 Chloromethane	2-Hexanone	ug/L	ND	10.0	1.7	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 0.49 06/13/17 13:40 Bromomethane ug/L ND 1.0 0.90 06/13/17 13:40 Carbon disulfide ug/L ND 1.0 0.25 06/13/17 13:40 Carbon tetrachloride ug/L ND 1.0 0.19 06/13/17 13:40 Chlorobenzene ug/L ND 1.0 0.19 06/13/17 13:40 Chloroform ug/L ND 1.0 0.42 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 0.32 06/13/17 13:40 cis-1,3-Dichloropropene ug/L ND 1.0 0.37 06/13/17 13:40 Ethylbenzene ug/L ND 1.0 0.35 06/13/17 13:40 <t< td=""><td>4-Methyl-2-pentanone (MIBh</td><td>() ug/L</td><td>ND</td><td>10.0</td><td>1.7</td><td>06/13/17 13:40</td><td></td></t<>	4-Methyl-2-pentanone (MIBh	() ug/L	ND	10.0	1.7	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 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 Chloromethane 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 Chloromethane ug/L ND 1.0 0.32 06/13/17 13:40 Chloromethane ug/L ND 1.0 0.32 06/13/17 13:40 Cis-1,3-Dichloropropene ug/L ND 1.0 0.35 06/13/17 13:40 <t< td=""><td>Acetone</td><td>ug/L</td><td>ND</td><td>10.0</td><td>3.8</td><td>06/13/17 13:40</td><td></td></t<>	Acetone	ug/L	ND	10.0	3.8	06/13/17 13:40	
Bromoform ug/L ND 1.0 0.40 06/13/17 13:40 IH 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 Chloromethane ug/L ND 1.0 0.32 06/13/17 13:40 Chloropropene ug/L ND 1.0 0.32 06/13/17 13:40 Cis-1,3-Dichloropropene ug/L ND 1.0 0.35 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 Methylene Chloride ug/L ND 1.0 0.59 06/13	Benzene	ug/L			0.35	06/13/17 13:40	
Bromomethane ug/L ND 1.0 0.90 06/13/17 13:40 H 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 Carbon tetrachloride ug/L ND 1.0 0.19 06/13/17 13:40 Chlorobenzene ug/L ND 1.0 0.19 06/13/17 13:40 Chloroform ug/L ND 1.0 0.33 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 Chloromethane ug/L ND 1.0 0.32 06/13/17 13:40 Cis-1,2-Dichloroethene ug/L ND 1.0 0.35 06/13/17 13:40 Cis-1,3-Dichloropropene ug/L ND 1.0 0.35 06/13/17 13:40 Cis-1,3-Dichloropropene ug/L ND 1.0 0.35 06/13/17 13:40 Cis-1,3-Dichloromethane ug/L ND 1.0 0.35 06/13/17 13:40 Cis-1,3-Dichloromethane ug/L ND 1.0 0.35 06/13/17 13:40 Cis-1,3-Dichloromethane ug/L ND 1.0 0.35 06/13/17 13:40 Cis-1,3-Dichloropropene ug/L ND 1.0 0.35 06/13/17 13:40 Cis-1,3-Dichloropropene ug/L ND 1.0 0.59 06/13/17 13:40 Cis-1,3-Dichloropropene ug/L ND 1.0 0.37 06/13/17 13:40 Cis-1,3-Dichloropropene ug/L ND 1.0 0.37 06/13/17 13:40 Cis-1,3-Dichloropropene ug/L ND 1.0 0.33 06/13/17 13:40 Cis-1,3-Dichloropropene ug/L ND 1.0 0.33 06/13/17 13:40 Cis-1,3-Dichloropropene ug/L ND 1.0 0.33 06/13/17 13:40 Cis-1,3-Dichloropropene ug/L ND 1.0 0.32 06/13/17 13:40 Cis-1,3-Dichloropropene ug/L ND 1.0 0.32 06/13/17 13:40 Cis-1,3-Dichloropropene ug/L ND 1.0 0.32 06/13/17 13:40 Cis-1,3-Dichloropropene ug/L ND 1.0 0.50 06/13/17 13:40 Cis-1,3-Dichloropethane-d4 (S) 6/1 06/13/17 13:40 Cis-1,3-Dichloropethane-d4	Bromodichloromethane	ug/L	ND	1.0	0.43	06/13/17 13:40	
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 Chloromethane ug/L ND 1.0 0.33 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 0.48 06/13/17 13:40 Dibromochloromethane ug/L ND 1.0 0.37 06/13/17 13:40 Ethylbenzene 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 Methylene Chloride ug/L ND 1.0 0.59 06/13/17 13:40 Styrene ug/L ND 1.0 0.37 06/13/17 13:40	Bromoform	ug/L	ND	1.0	0.40	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 Chlorofethane 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-Dichloropthene ug/L ND 1.0 0.37 06/13/17 13:40 cis-1,3-Dichloropropene ug/L ND 1.0 0.35 06/13/17 13:40 Ethylbenzene 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 Methylene Chloride ug/L ND 1.0 0.59 06/13/17 13:40 Styrene ug/L ND 1.0 0.37 06/13/17 13:40 Tetrachloroethene ug/L ND 1.0 0.3 06/13/17 13:40	Bromomethane	ug/L	ND	1.0	0.90	06/13/17 13:40	IH
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-Dichloropthene ug/L ND 1.0 0.32 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 Ethylbenzene ug/L ND 1.0 0.21 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 0.59 06/13/17 13:40 Styrene ug/L ND 1.0 0.33 06/13/17 13:40 Total	Carbon disulfide	ug/L	ND	1.0	0.25	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 Ethylbenzene ug/L ND 1.0 0.21 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 0.33 06/13/17 13:40 Tetrachloroethene ug/L ND 1.0 0.29 06/13/17 13:40 T	Carbon tetrachloride	ug/L	ND	1.0	0.32	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 Ethylbenzene ug/L ND 1.0 0.21 06/13/17 13:40 m&p-Xylene ug/L ND 1.0 0.59 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 Toluene ug/L ND 1.0 0.29 06/13/17 13:40 TolaL BTEX <td>Chlorobenzene</td> <td>ug/L</td> <td>ND</td> <td>1.0</td> <td>0.19</td> <td>06/13/17 13:40</td> <td></td>	Chlorobenzene	ug/L	ND	1.0	0.19	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 1.0 0.59 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 0.37 06/13/17 13:40 Styrene ug/L ND 1.0 0.18 06/13/17 13:40 Toluene ug/L ND 1.0 0.29 06/13/17 13:40 TOTAL BTEX ug/L ND 1.0 0.32 06/13/17 13:40 trans-1,2-Dichloro	Chloroethane		ND	1.0	0.42	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 0.59 06/13/17 13:40 Styrene ug/L ND 1.0 0.37 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 1.0 0.32 06/13/17 13:40 trans-1,2-Dichloroethene ug/L ND 1.0 0.74 06/13/17 13:40 <	Chloroform	ug/L	ND	1.0	0.33	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 Styrene ug/L ND 1.0 0.33 06/13/17 13:40 Tetrachloroethene ug/L ND 1.0 0.33 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 0.50 06/13/17 13:40	Chloromethane	ug/L	ND	1.0	0.32	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 Toluene ug/L ND 1.0 0.29 06/13/17 13:40 ToTAL BTEX ug/L ND 1.0 0.29 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 0.50 06/13/17 13:40 Vinyl chlo	cis-1,2-Dichloroethene		ND	1.0	0.48	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 1.0 0.32 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 Vinyl chloride ug/L ND 1.0 0.50 06/13/17 13:40 Vinyl chloride ug/L ND 3.0 1.1 06/13/17 13:40 Xylene (To	cis-1,3-Dichloropropene	ug/L	ND	1.0	0.37	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 1.0 0.29 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 Vinyl chloride 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 4-Bromof	Dibromochloromethane	ug/L	ND	1.0	0.35	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 Viylene (Total) ug/L ND 3.0 1.1 06/13/17 13:40 4-Bromofluorobenzene (S) % 103 81-119 06/13/17 13:40 Dibromofluorom	Ethylbenzene	ug/L	ND	1.0	0.21	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 Villene (Total) ug/L ND 3.0 1.1 06/13/17 13:40 4-Bromofluorobenzene (S) % 83 77-126 06/13/17 13:40 Dibromofluoromethane (S) % 90 70-130 06/13/17 13:40	. ,		ND	2.0	0.70	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	Methylene Chloride	ug/L	ND	1.0	0.59	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	o-Xylene	ug/L	ND	1.0	0.37	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	Styrene	ug/L	ND	1.0	0.18	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	Tetrachloroethene	ug/L	ND	1.0	0.33	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	ug/L	ND	1.0	0.29	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	TOTAL BTEX		ND	6.0	1.9	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	trans-1,2-Dichloroethene	ug/L		1.0	0.32	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	trans-1,3-Dichloropropene	ug/L	ND	1.0	0.74	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	Trichloroethene	ug/L	ND	1.0	0.50	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	Vinyl chloride		ND	1.0	0.21	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	Xylene (Total)	ug/L	ND	3.0	1.1	06/13/17 13:40	
Dibromofluoromethane (S) % 90 70-130 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	
Toluene-d8 (S) % 101 84-115 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	

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.



Project: National Grid - Rome Kingsley

Pace Project No.: 30221243

Date: 06/20/2017 04:54 PM

LABORATORY CONTROL SAMPLE:	1288725	0-11	1.00	1.00	0/ D	
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
						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 I	H
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 l	Н
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)	%	00	02.0	78	73-116 77-126	
4-Bromofluorobenzene (S)	%			103	81-119	
Dibromofluoromethane (S)	% %			93	70-130	
` '	%			104	84-115	
Toluene-d8 (S)	70			104	04-115	

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.



Project: National Grid - Rome Kingsley

Pace Project No.: 30221243

Date: 06/20/2017 04:54 PM

MATRIX SPIKE & MATRIX SPI	IKE DUPLIC	CATE: 12888	63		1288864							
			MS	MSD								
		30221243001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qua
,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	
I,1-Dichloroethane	ug/L	ND	20	20	18.7	18.6	93	93	55-133	0	30	
I,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	ΙH
2-Hexanone	ug/L	ND	20	20	18.7	20.4	93	102	43-135	9	30	
1-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	
3romoform Stromoform S	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	ΙH
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		
rans-1,2-Dichloroethene	ug/L	ND	20	20	16.8	17.8	84	89	52-136	6	30	
rans-1,3-Dichloropropene	ug/L	ND	20	20	18.0	17.9	90	89	54-118	1	30	
Frichloroethene	ug/L	ND	20	20	19.0	18.7	95	94	50-127	1	30	
/inyl chloride	ug/L	ND	20	20	23.3	23.6	117	118	54-149	1	30	
Kylene (Total)	ug/L	3.4	60	60	62.4	62.4	98	98	68-123	0	30	
,2-Dichloroethane-d4 (S)	%						83	85	77-126			
I-Bromofluorobenzene (S)	%						103	105	81-119			
Dibromofluoromethane (S)	%						93	92	70-130			
Toluene-d8 (S)	%						103	102	84-115			

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Project: National Grid - Rome Kingsley

Pace Project No.: 30221243

Date: 06/20/2017 04:54 PM

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: 30221243001

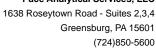
METHOD BLANK: 1288963 Matrix: Water

Associated Lab Samples: 30221243001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Acenaphthene	ug/L	ND 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					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
Acenaphthene	ug/L		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	
ndeno(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	

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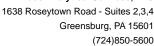
Project: National Grid - Rome Kingsley

Pace Project No.: 30221243

Date: 06/20/2017 04:54 PM

MATRIX SPIKE & MATRIX SI	PIKE DUPLICA	TE: 12889	MS MS	MSD	1288966							
	3	0221123016	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qua
Acenaphthene	ug/L	4.3	2.1	2.1	6.7	7.0	117	135	48-104	5	20	МН
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, R
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,R
Chrysene	ug/L	ND	2.1	2.1	1.3	1.0	62	48	62-115	25	20	ML, R
Dibenz(a,h)anthracene	ug/L	ND	2.1	2.1	1.4	1.1	66	52	55-124	24	20	ML, R
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,R
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

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Project: National Grid - Rome Kingsley

Pace Project No.: 30221243

QC Batch: 261865

QC Batch Method: EPA 335.4 Analysis Method:

EPA 335.4

Analysis Description:

335.4 Cyanide, Total

MDL

101

0.0020

Associated Lab Samples: 30221243001

METHOD BLANK: 1289330

Cyanide

Cyanide

Cyanide

Cyanide

Matrix: Water

Associated Lab Samples:

30221243001

Blank

.2

Reporting

Parameter

Units mg/L

mg/L

30221243001

30221123016

Result

Result

Units

mg/L

Units

mg/L

1289331

Result ND Limit

0.010

Analyzed 06/15/17 18:38 Qualifiers

LABORATORY CONTROL SAMPLE:

Parameter

Parameter

Parameter

Date: 06/20/2017 04:54 PM

Spike Units Conc.

LCS Result

LCS % Rec % Rec Limits

90-110

Qualifiers

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:

1289332

MS

Spike

Conc.

MS

Spike

Conc.

.1

.1

1289333

MS

Result

0.18

0.20

MS

% Rec

101

Max RPD RPD Qual

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:

0.084

MSD

Spike

Conc.

1289335

103

MSD

% Rec

90-110

20

1289334

.1

MS MSD Result

MSD

% Rec Limits

% Rec

Limits

Max RPD

RPD

Qual

ND

MSD

Spike Conc. .1

Result 0.10 0.10

MSD

Result

0.19

% Rec

MS

% Rec 96

96

90-110

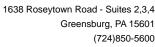
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REPORT OF LABORATORY ANALYSIS

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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

Date: 06/20/2017 04:54 PM

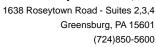
IH This analyte exceeded secondary source verification criteria high for the initial calibration. The reported results should be considered an estimated value.

MH Matrix spike recovery and/or matrix spike duplicate recovery was above laboratory control limits. Result may be biased

ML Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased

R1 RPD value was outside control limits.

SR Surrogate recovery was below laboratory control limits. Results may be biased low.





QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: National Grid - Rome Kingsley

Pace Project No.: 30221243

Date: 06/20/2017 04:54 PM

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 30221243002	Effluent System 0617 Trip Blank	EPA 8260C EPA 8260C	261727 261727		
30221243001	Effluent System 0617	EPA 335.4	261865	EPA 335.4	262052

CHAIN-OF-CUSTODY / Analytical Request Document

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

Pace Analytical"

Pace Project Number Š SAMPLE CONDITIONS OTHER 1 of , Σ N/A DRIN JG WATER REGULATORY AGENCY L M g N/A SC OTHE F A P TIME GRO(D WATER L # DATE RCRA Contract of the second SITE WO#:30221243 n LOCATION NPDES iltered (Y/N) Rednested UST Analysis: E Chancer oueuje ゆりくろしし [€]O[₹]S[₹]E ACCEPTED BY / AFFILIATION 190H IO! EONE [†]20° у форматрия Attention: Accounts Payable via email at ges-invoices@gesonline.com #OF CONTAINERS Address: 5 Technology Place, Suite 4, East Syracuse, NY 13057 Company Name: Groundwater & Environmental Services, Inc. TIME SAMPLE TEMP AT COLLECTION DATE TIME Pace Project Manager: Rachel Christner DATE COLLECTED RELINQUISHED BY / AFFILIATION Pace Quote Reference: E ME Pace Profile #: Section C DATE Ø ወ SANT BURMAS C+GKYB C=COWL ۲ WT MATRIX CODE Project Name: National Grid - Rome Kingsley Ave. Site, Rome. NY Report To: Mark Boorady (GES) mboorady@gesonline.com Required Project Information: COOLERS. Purchase Order No. Section B Valid Matrix Gr MATRIX pression watte watte watte watte weter collidate were all ---END OF RECORD---Copy To: Effluent System 0617 Trip Blank Section D Required Client Information One Character per box. (A-Z, 0-9 / .-) Samples IDs MUST BE UNIQUE SAMPLE ID Requested Due Date/TAT: Standard Address: 5 Technology Place, Suite 4 Email To: mboorady@gesonline.com Fax: None East Syracuse, New York 13057 Section A Required Client Information: Company: GES - Syracuse Additional Comments: 800.220.3069, x4065 1 2 8 4 8 9 7 8 8 6 10 11 12 # M3TI

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

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DATE Signed (MM// DD/LT)

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SAMPLER NAME AND SIGNATURE

Sgracuselabs@gesonline.com, ges@equisonline.com & o

NGRome-labnumber.28351.EQEDD.zip

SPECIFIC EDD NAME:

Please send reports to: mboorady@gesonline.com.

SAMPLES WILL ARRIVE IN

No. of Lot

IGNATURE of SAMPLER

NĄ

Sample Condition Upon Receipt Pittsburgh Client Name: GES Project # 30 2 2 1 2 4 3 . Pace Analytical Courier: Fed Ex UPS USPS Client Commercial Pace Other ______

Tracking #: 17934702080\ Seals intact: yes no Custody Seal on Cooler/Box Present: 🖊 yes 🔲 no Type of Ice: (Wet) Blue None Thermometer Used °C Correction Factor: +0.0°C Final Temp:4. Observed Temp Cooler Temperature Temp should be above freezing to 6°C Date and Initials of person examining FHOHO WAL N/A No Yes Comments: Chain of Custody Present: Chain of Custody Filled Out: Chain of Custody Relinquished: Sampler Name & Signature on COC: 5. Time on bottles is 1630. Sample Labels match COC: Matrix: -Includes date/time/ID Samples Arrived within Hold Time: Short Hold Time Analysis (<72hr remaining): Rush Turn Around Time Requested: Sufficient Volume: 10. Correct Containers Used: -Pace Containers Used: 11. Containers Intact: 12. Orthophosphate field filtered 13. Organic Samples checked for dechlorination: 14. Filtered volume received for Dissolved tests All containers have been checked for preservation. 15. All containers needing preservation are found to be in compliance with EPA recommendation. Date/time of Initial when preservation exceptions: (VOÁ,) coliform, TOC, O&G, Phenolics completed Lot # of added preservative Headspace in VOA Vials (>6mm): 16. 17. Trip Blank Present: Trip Blank Custody Seals Present Initial when Rad Aqueous Samples Screened > 0.5 mrem/hr Date: completed:

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.