



July 31, 2018

Mr. Justin Starr
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
2018 2nd Quarter OM&M Report

Dear Mr. Starr:

Enclosed for your review is the 2018 2<sup>nd</sup> 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 filed the updated Declaration of Covenants and Restrictions with Oneida County on December 15, 2017. National Grid also submitted the final Site Management Plan to the NYSDEC on January 24, 2018.

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; and
- Monitoring and/or collection of light non-aqueous phase liquid and dense nonaqueous phase liquid at site wells.

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.

Mr. Justin Starr July 31, 2018 Page 2 of 2

Please note that National Grid is awaiting the Department's approval of the Final Engineering Report (FER) and Site Management Plan (SMP) for the subject site. If you have any questions regarding the reports 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: Carolyn Rooney - National Grid

Devin Shay - Groundwater & Environmental Services, Inc.

National Grid

# 2018 2<sup>nd</sup> Quarter Operations, Maintenance, and Monitoring Report



National Grid Rome Former MGP Site 233 Kingsley Avenue Rome, NY 13440

July 2018

Version 1





### 2018 2<sup>nd</sup> Quarter OM&M Report

National Grid Rome Former MGP Site 233 Kingsley Avenue Rome, NY 13440

Prepared for: National Grid 300 Erie Boulevard West, C-1 Syracuse, NY 13202

Prepared by:
Groundwater & Environmental Services, Inc.
5 Technology Place, Suite 4
East Syracuse, NY 13057
TEL: 800-220-3069
www.gesonline.com

GES Project: 0603000.134400.221

Date: July 31, 2018

Devin T. Shay, PG Program Manager / Principal Hydrogeologist



# **Table of Contents**

1	In	troduction	1
	1.1	Overview	1
	1.2	Site Description	1
	1.3	Site History	2
2	Ο	peration, Maintenance, and Monitoring Activities	5
	2.1	Quarterly Site Inspection	5
	2.2	Quarterly Static Water Level Measurements	5
	2.3	Quarterly Groundwater Monitoring Event	5
	2.4	Quarterly Light Non-Aqueous Phase Liquid and Dense Non-Aqueous Phase Liquid Monitoring/Collection Event	
	2.5	Quarterly Groundwater Extraction System Discharge Sampling Event	7
	2.6	Groundwater Extraction System Discharge Flow and Operation, Maintenance, an Monitoring	
	2.7	Vegetation Management and Snow Removal	8
3	C	onclusions, Recommendations, and Certifications	9
	3.1	Conclusions	9
	3.2	Recommendations	9
	3.3	Certifications1	0



## **Figures**

Figure 1 – Site Location Map

Figure 2 – Site Map

Figure 3 – Site Map – West

Figure 4 – Site Map – East

Figure 5 – Barrier Wall Profile

#### **Tables**

Table 1 – Groundwater Extraction System Discharge Flow

Table 2 – Site Monitoring Wells

Table 3 – Historical Groundwater Data

Table 4 – Groundwater Analytical Data

Table 5 – Discharge Analytical Data

## **Appendices**

Appendix A – Field Inspection Report

Appendix B - Quarterly Gauging Data

Appendix C - Well Sampling Field Data

Appendix D - Data Usability Summary Report and Analytical Data



# Acronyms

AWQS	Ambient Water Quality Standards	OM&M	Operation, Maintenance, and Monitoring
BTEX	Benzene, Toluene, Ethylbenzene, and Total Xylenes	OU	Operable Unit
DNAPL	Dense Non-Aqueous Phase Liquid	Pace	Pace Analytical Services, LLC
DUSR	Data Usability Summary Report	PAH	Polycyclic Aromatic Hydrocarbons
GES	Groundwater & Environmental Services,	POTW	Publically Owned Treatment Works
020	Inc.	QA/QC	Quality Assurance / Quality Control
gpm	Gallons per Minute	ROD	Record of Decision
IRM	Interim Remedial Measures	SMP	Site Management Plan
LNAPL	Light Non-Aqueous Phase Liquid	USEPA	United States Environmental Protection
MGP	Manufactured Gas Plant		Agency
NYSDEC	New York State Department of Environmental Conservation	WPCF	Water Pollution Control Facility



#### 1 Introduction

#### 1.1 Overview

Groundwater & Environmental Services, Inc. (GES) has prepared this 2018 2<sup>nd</sup> Quarter Operation, Maintenance, and Monitoring Report (OM&M) on behalf of National Grid. This report compiles the OM&M activities completed in the 2<sup>nd</sup> quarter of 2018 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. National Grid is currently awaiting the NYSDEC's approval of the Final Engineering Report (FER) and SMP.

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 2018.

#### 1.2 Site Description

The Site is located within the City of Rome, Oneida County, New York. Refer to **Figure 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 2,000 feet 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 generally ranges from 2 to 15 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 Operable Units (OU). 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 OUs: OU-1 and OU-2. NYSDEC 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 2** for a depiction of OU-1 and OU-2.

This report is focused on OU-1. The following provides a general chronology of key 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 (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 aguifers.
- Installation of five groundwater monitoring wells within the OU-2 area.
- An Environmental Easement has been placed on the property and is included with the latest Site Management Plan, currently under review by the NYSDEC.

**Figure 3** presents the monitoring well locations for the western portion of the Site. **Figure 4** presents 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.



### 2 Operation, Maintenance, and Monitoring Activities

#### 2.1 Quarterly Site Inspection

GES conducted the 2018 2<sup>nd</sup> quarter site inspection on June 7, 2018. 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 3** and **4** show the well locations. **Table 2** 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 7, 2018. **Table 3** 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 the upgradient groundwater monitoring wells were measured and found to be between 425 and 430 (Table 3) feet above sea level since start-up of the groundwater extraction system. Groundwater does not overtop the barrier wall. Figure 5 presents the groundwater levels compared to the barrier wall profile. Gauging data for all 34 wells and containment data for the 10 upgradient groundwater monitoring wells are presented in Appendix B.

#### 2.3 Quarterly Groundwater Monitoring Event

The 2018 2<sup>nd</sup> quarter groundwater monitoring event was conducted on June 7, 2018. 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 Matrix Spike sample, one Matrix Spike Duplicate sample, one field 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, benzo(a)anthracene, chrysene, cyanide, 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 4**. 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 of any compound for LTMW-D04, LTMW-D05, LTMW-S07, and LTMW-S09.

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 possible imprecision in the PAH analyses of LTMW-S10-0618 exemplified by RPD results being out of compliance, and possible low bias in LTMW-S05-0618 due to low surrogate recoveries. 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 in June for this quarter. The gauging data for these events are presented in **Appendix B**. This activity is conducted in conjunction with the collection of static water level measurements. A probe is lowered to the water level in the well and inspected for LNAPL. The probe is then lowered to the bottom of the well and inspected for DNAPL. If LNAPL or DNAPL is discovered in measurable quantities, product is removed from the well using a submersible pump. The removed product/water mixture is subsequently containerized in a properly labeled NYSDOT-approved 55-gallon drum for future offsite disposal.



DNAPL in measurable quantities was noted in three site wells: MW-OU2-1, MW-OU2-4, and DNAPL-03. Additionally, a small amount of DNAPL was detected in well MW-OU2-2.

As part of the NAPL monitoring/collection event, a total of 9.0 gallons of DNAPL were collected (3.0 gallons from MW-OU2-1, 4.0 gallons from MW-OU2-4, and 2.0 gallons from DNAPL-03) during this quarter.

Since the start of the NAPL monitoring/collection program, a total of 492 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, 2018, and analyzed by Pace for the permit-specified parameters. No detections above permit limits were noted. **Table 5** 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 laboratory result for pH is always considered estimated as the EPA recommended short hold time of 15 minutes can only be met by in-field measurements. Qualifications are detailed in Table 1 of Appendix D, which presents the Data Usability Summary Report (DUSR) including the validated laboratory data. The DUSR including the validated laboratory data is presented in **Appendix D**.

# 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 within the Site building and serves as the recording device for the City of Rome WPCF discharge fees. During the 2018 2<sup>nd</sup> quarter, approximately 3,281,784 gallons (average flow ~ 25.0 gpm) were discharged. Since the groundwater extraction system was installed, approximately 133 million gallons have been discharged. Below is a summary table for the groundwater extraction system discharge flow:



Table 1 – 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	13,695,010
2017	13,874,930
2018 1st Quarter	3,520,189
2018 2 <sup>nd</sup> Quarter	3,281,784
TOTAL	132,958,613

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

Snow removal and vegetation management activities were conducted during the second quarter 2018.



### 3 Conclusions, Recommendations, and Certifications

#### 3.1 Conclusions

Based on data collected from the 2018 2<sup>nd</sup> quarter OM&M activities, the following conclusions were made:

- The overall condition of the Site is good. Vegetation removal including routine mowing and weed spraying was conducted as needed during 2<sup>nd</sup> quarter 2018.
- Quarterly static water level measurements were collected at ten groundwater monitoring wells
  upgradient of the steel sheeting barrier within the gravel extraction trench. The static water
  levels of the upgradient wells (ranging between 425 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, benzo(a)anthracene, chrysene, cyanide, 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. Five of the 16 wells (LTMW-D01, LTMW-S01, LTMW-D03, LTMW-S04, 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 (9.0 gallons) was removed from three wells (MW-OU2-1, MW-OU2-4, and DNAPL-03). 492 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 an average flow rate of approximately 25.0 gpm, and a quarterly total of 3,281,784 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 133 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

Name: Gerald H. Cresap, P.E. Title: Director of Engineering

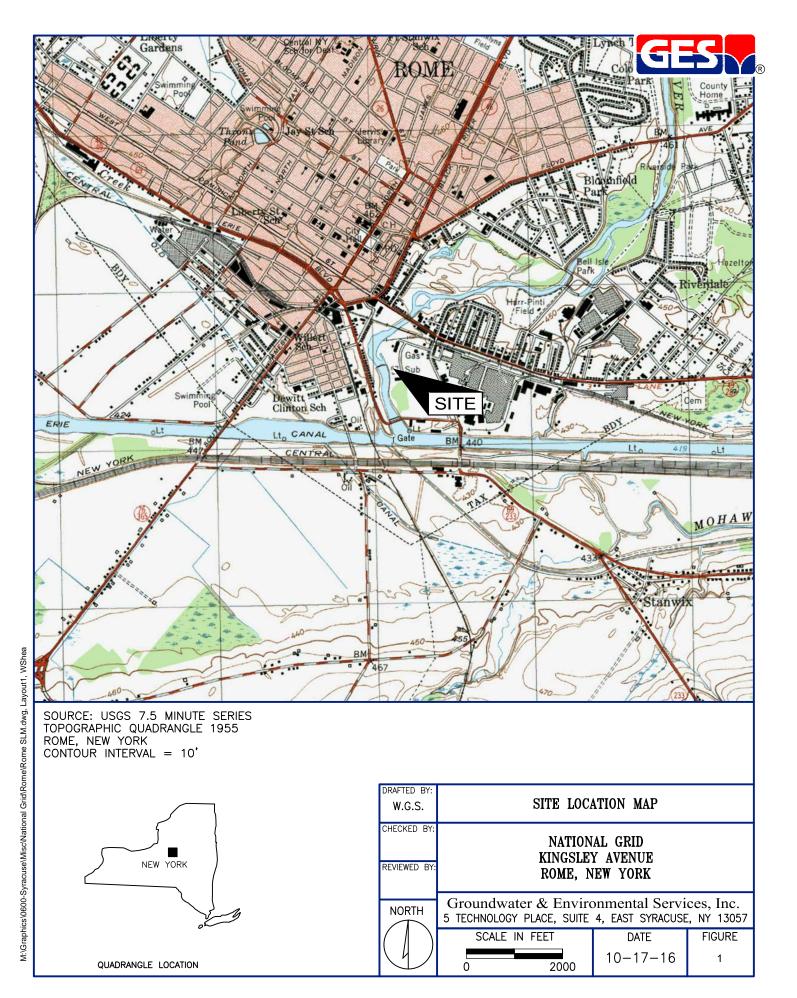
Company: Groundwater & Environmental Services, Inc.

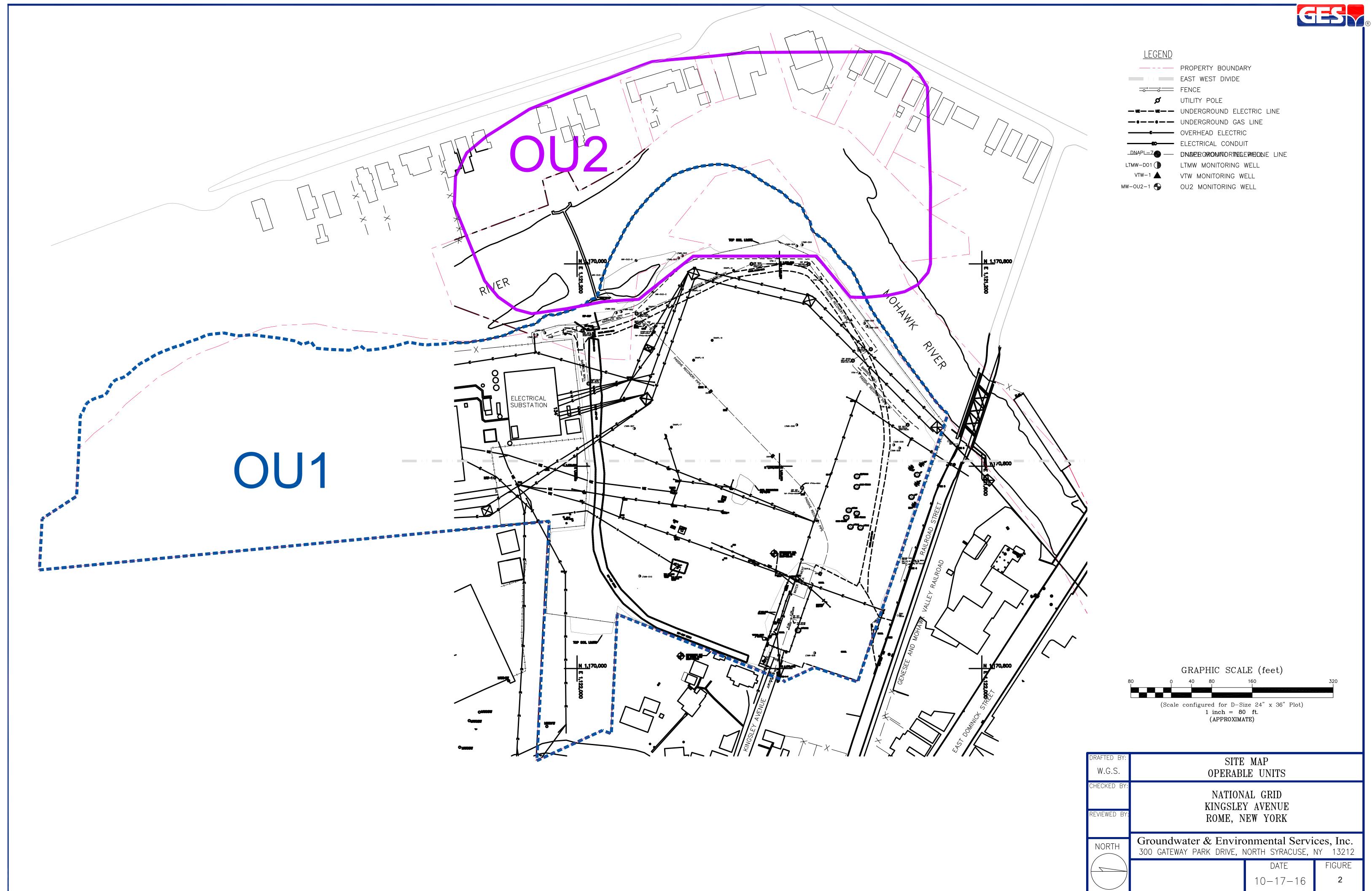
Date

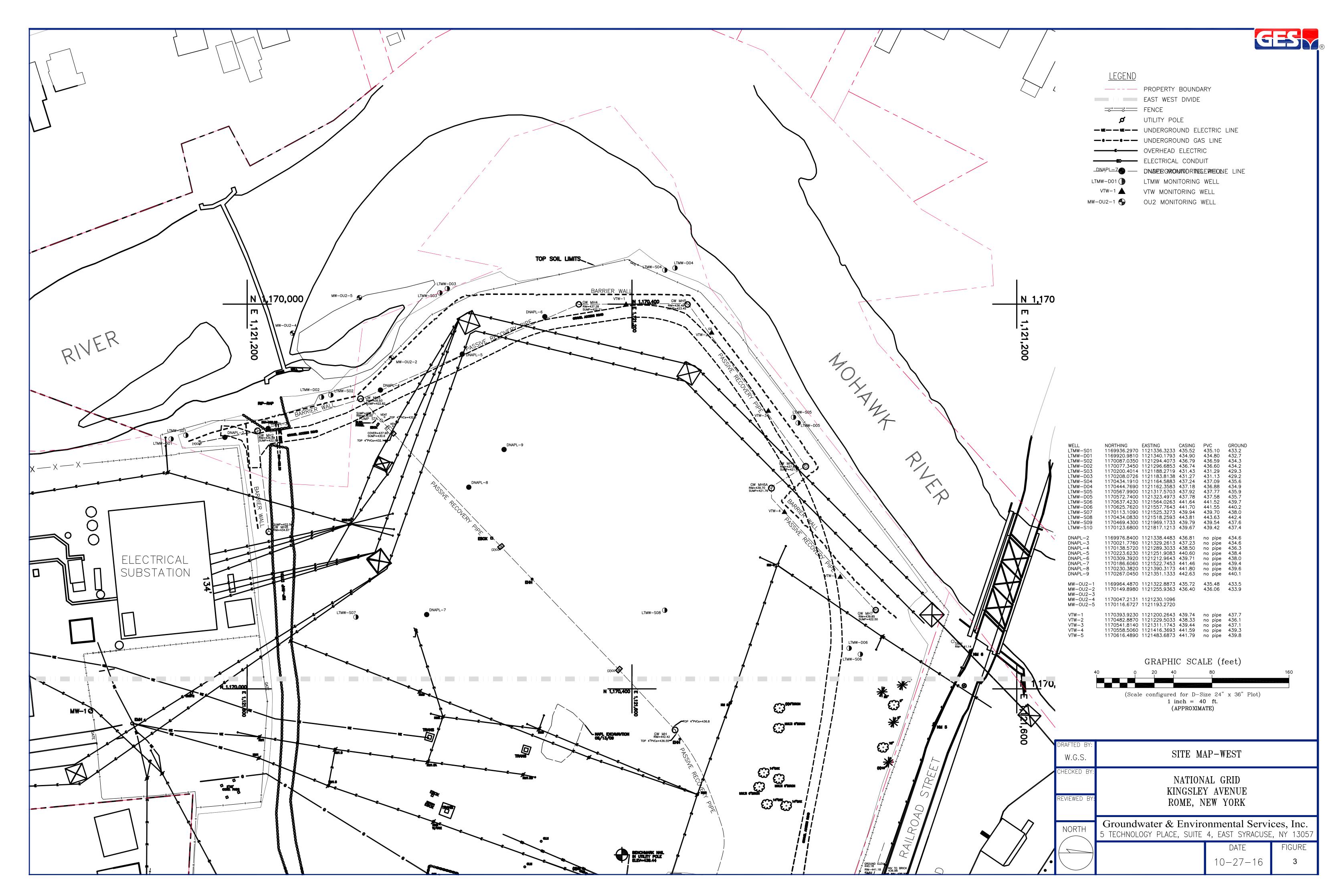
2018 2<sup>nd</sup> Quarter OM&M Report National Grid Rome Former MGP Site 233 Kingsley Avenue, Rome, NY 13440



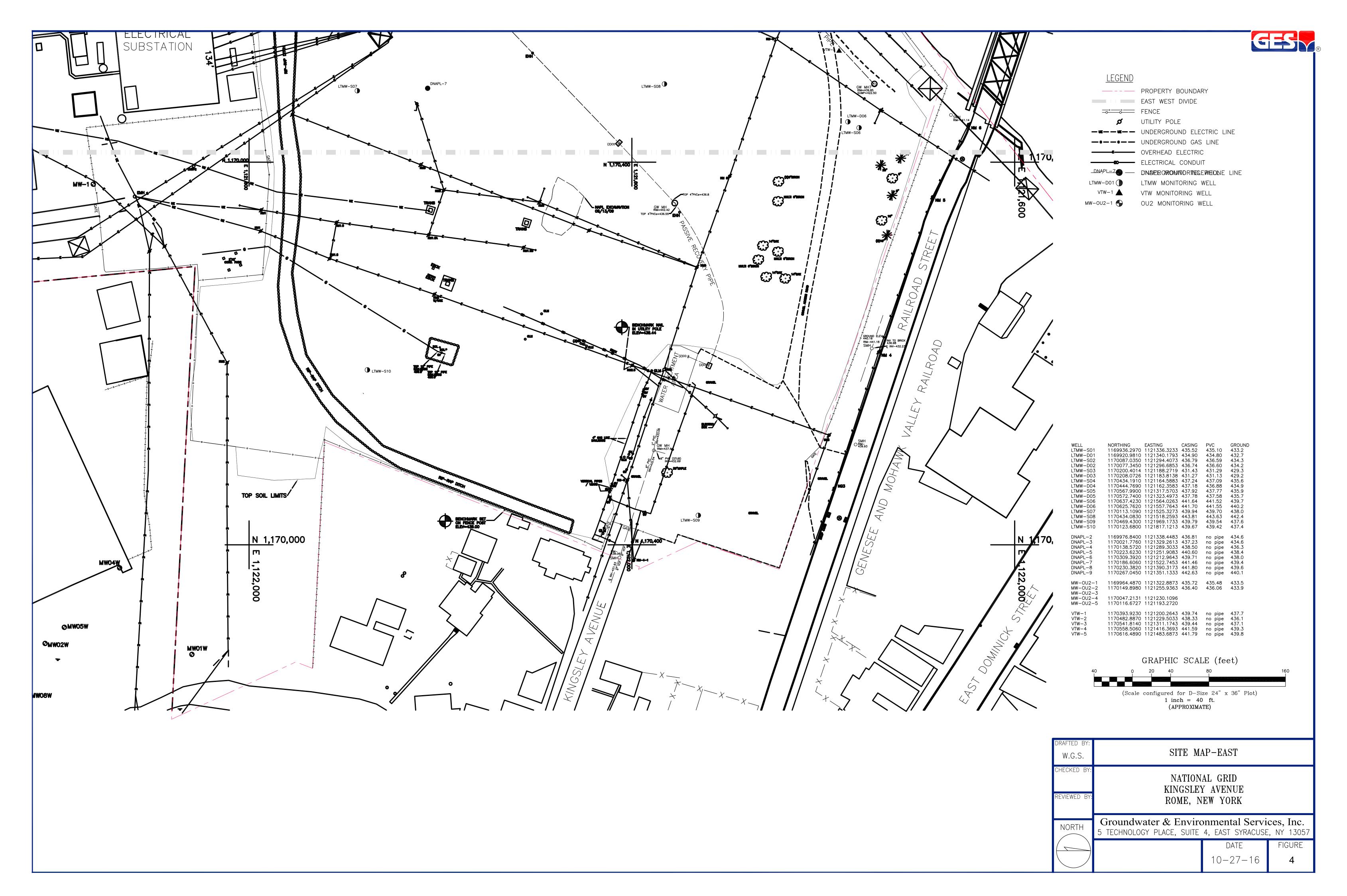
# **Figures**





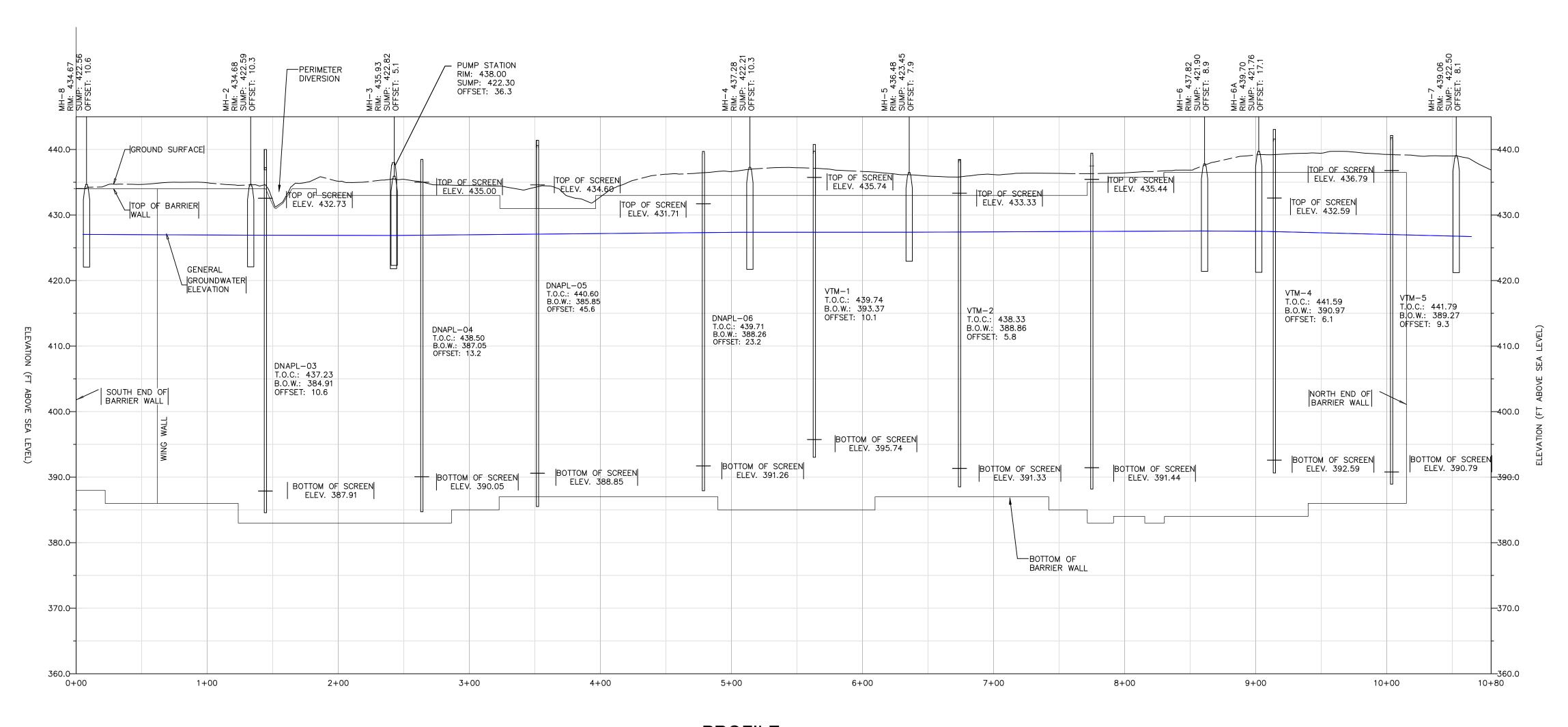


aphics/0600-Syracuse\Misc\National Grid\Rome\Rome SM.dwg, D-40-W, WShea



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





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: REVIEWED BY:	KINGSLE	AL GRID Y AVENUE IEW YORK	
NORTH	Groundwater & Environment 500 GATEWAY PARK DRIVE, N		,
		DATE 10-17-16	FIGURE <b>5</b>

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

2018 2<sup>nd</sup> Quarter OM&M Report National Grid Rome Former MGP Site 233 Kingsley Avenue, Rome, NY 13440



# **Tables**



Table 2 Site Monitoring Wells

Well ID	Northing	Easting	Elevation of Ground	Elevation Top of Outer 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 OUG 4	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-OU2-1															Quarterly Inspection; Quarterly Static Water Level
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	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)  Quarterly Inspection; Quarterly Static Water Level
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	Measurement (Surveyed in January 2014)  Quarterly Inspection; Quarterly Static Water Level
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	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
DIVAPL-03	1170021.7700	1121329.2013	434.0	437.23	INA	0	- 33	3.0	32.32	304.91	4.5	432.73	40.3	367.91	
DNAPL-04	1170138.5720	1121289.3033	436.3	438.50	NA	6	SS	3.0	51.45	387.05	3.5	435.00	47.5	390.05	Quarterly Inspection; Quarterly Static Water Level Measurement; DNAPL Monitoring/Collection
DNAPL-05	1170223.6230	1121251.9083	438.4	440.60	NA	6	SS	3.0	54.75	385.85	6.0	434.60	50.0	388.85	Quarterly Inspection; Quarterly Static Water Level Measurement; DNAPL Monitoring/Collection
DNAPL-06	1170309.3920	1121212.9643	438	439.71	NA	6	SS	3.0	51.45	388.26	8.0	431.71	48.0	391.26	Quarterly Inspection; Quarterly Static Water Level Measurement; DNAPL Monitoring/Collection
															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 Quarterly Inspection; Quarterly Static Water Level
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	Measurement  Quarterly Inspection; Quarterly Static Water Level
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	Measurement
VTM-3	1170541.8140	1121311.1743	437.1	439.44	NA	6	SS	NA	50.91	388.53	4.0	435.44	48.0	391.44	Quarterly Inspection; Quarterly Static Water Level Measurement
VTM-4	1170558.5060	1121416.3693	439.3	441.59	NA	6	SS	NA	50.62	390.97	9.0	432.59	49.0	392.59	Quarterly Inspection; Quarterly Static Water Level Measurement
VTM-5	1170616.4890	1121483.6873	439.8	441.79	NA	6	SS	NA	52.52	389.27	5.0	436.79	51.0	390.79	Quarterly Inspection; Quarterly Static Water Level Measurement
LTMW-D01	1169920.9810	1121340.1793	432.7	434.90	434.80	2	PVC	NA	46.84	387.96	34.0	400.80	44.0	390.80	Quarterly Inspection; Quarterly Static Water Level Measurement; Quarterly Sampling
						2									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 Quarterly Inspection; Quarterly Static Water Level
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	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
						2									Quarterly Inspection; Quarterly Static Water Level
LTMW-D06	1170625.7620	1121557.7643	440.2	441.70	441.55		PVC	NA	52.22	389.33	40.0	401.55	50.0	391.55	Measurement; Quarterly Sampling  Quarterly Inspection; Quarterly Static Water Level
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	Measurement; Quarterly Sampling Quarterly Inspection; Quarterly Static Water Level
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	Measurement; Quarterly Sampling  Quarterly Inspection; Quarterly Static Water Level
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	Measurement; Quarterly Sampling  Quarterly Inspection; Quarterly Static Water Level
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	Measurement; Quarterly Sampling  Quarterly Inspection; Quarterly Static Water Level
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	Measurement; Quarterly Sampling

- Notes:

  1) Shallow monitoring wells were sampled with a low flow peristaltic pump with battery pack.

  2) Deep monitoring wells were sampled with a low flow submersible pump with generator.

  3) Static water level measurements were 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 3

Historical Groundwater Data
Operable Unit 1 Wells

Well	LTM	W-D01	LTMV	W-S01	LTM\	N-D02	LTM	W-S02	LTM\	W-D03	LTM	W-S03	LTM	W-D04	LTM	W-S04
	TOC =	434.90	TOC =	435.52	TOC =	436.74	TOC =	436.79	TOC =	431.27	TOC =	431.43	TOC =	437.18	TOC =	437.24
Date	DTW	Water El.														
											İ			i		
06/07/18	8.55	426.35	8.70	426.82	10.35	426.39	10.32	426.47	5.14	426.13	4.11	427.32	9.78	427.40	9.48	427.76
03/22/18	8.22	426.68	9.41	426.11	10.21	426.53	9.98	426.81	5.65	425.62	3.60	427.83	9.35	427.83	9.05	428.19
12/06/17	8.17	426.73	8.16	427.36	10.07	426.67	9.61	427.18	4.76	426.51	3.30	428.13	9.35	427.83	8.35	428.89
09/01/17	8.75	426.15	8.74	426.78	10.64	426.10	10.31	426.48	5.23	426.04	4.15	427.28	9.99	427.19	9.50	427.74
06/23/17	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
03/08/17	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
12/15/16	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
09/19/16	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
06/07/16	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
03/07/16	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
12/03/15	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
09/16/15	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
06/03/15	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
04/08/15	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
12/01/14	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
09/10/14	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
06/12/14	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
03/25/14	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
12/12/13	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
09/23/13	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
06/10/13	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
03/27/13	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
12/03/12	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
09/12/12	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
06/18/12	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
03/19/12	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
12/05/11	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
09/26/11	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
06/13/11	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
03/28/11	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

TOC = Top of Inner Well Casing Elevation in Feet DTW = Depth to Water from Top of Casing in Feet



Table 3

Historical Groundwater Data
Operable Unit 1 Wells

Well	LTM	W-D05	LTMV	N-S05	LTM	N-D06	LTM\	W-S06	LTM\	N-S07	LTM	W-S08	LTM	W-S09	LTM	W-S10
	TOC =	437.78	TOC =	437.92	TOC =	441.70	TOC =	441.64	TOC =	439.70	TOC =	443.81	TOC =	439.79	TOC =	439.67
Date	DTW	Water El.														
06/07/18	9.47	428.31	9.64	428.28	12.42	429.28	13.26	428.38	11.06	428.64	15.70	428.11	10.10	429.69	10.64	429.03
03/22/18	8.95	428.83	8.80	429.12	12.10	429.60	12.92	428.72	10.40	429.30	15.30	428.51	9.50	430.29	10.15	429.52
12/06/17	9.02	428.76	9.16	428.76	12.00	429.70	12.25	429.39	10.67	429.03	15.10	428.71	9.58	430.21	10.10	429.57
09/01/17	9.51	428.27	9.60	428.32	12.62	429.08	13.50	428.14	12.60	427.10	15.78	428.03	10.38	429.41	10.96	428.71
06/23/17	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
03/08/17	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
12/15/16	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
09/19/16	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
06/07/16	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
03/07/16	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
12/02/15	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
09/16/15	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
06/03/15	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
04/08/15	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
12/01/14	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
09/10/14	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
06/12/14	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
03/25/14	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
12/12/13	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
09/23/13	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
06/10/13	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
03/27/13	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
12/03/12	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
09/12/12	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
06/18/12	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
03/19/12	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
12/05/11	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
09/26/11	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
06/13/11	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
03/28/11	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

TOC = Top of Inner Well Casing Elevation in Feet DTW = Depth to Water from Top of Casing in Feet



Table 3

Historical Groundwater Data
Operable Unit 2 Wells

Well	MW-	OU2-1	Well	MW-	OU2-2	Well	MW-	OU2-3	Well	MW-	OU2-4	Well	MW-	·OU2-5
	TOC =	435.72		TOC =	436.40		TOC =	432.96		TOC =	432.88		TOC =	433.46
Date	DTW	Water El.	Date	DTW	Water El.	Date	DTW	Water El.	Date	DTW	Water El.	Date	DTW	Water El.
											İ			
06/07/18	9.53	426.19	06/07/18	10.25	426.15	06/07/18	7.90	425.06	06/07/18	6.90	425.98	06/07/18	7.56	425.90
03/22/18	9.15	426.57	03/22/18	9.85	426.55	03/22/18	6.60	426.36	03/22/18	6.55	426.33	03/22/18	7.20	426.26
12/06/17	9.37	426.35	12/06/17	9.96	426.44	12/06/17	6.60	426.36	12/06/17	6.50	426.38	12/06/17	7.20	426.26
09/01/17	9.53	426.19	09/01/17	10.35	426.05	09/01/17	NM	-	09/01/17	6.98	425.90	09/01/17	7.73	425.73
06/23/17	9.35	426.37	06/23/17	10.02	426.38	06/23/17	7.10	425.86	06/23/17	6.70	426.18	06/23/17	7.15	426.31
03/08/17	8.68	427.04	03/08/17	5.94	430.46	03/08/17	5.93	427.03	03/08/17	5.94	426.94	03/08/17	6.62	426.84
12/15/16	8.91	426.81	12/15/16	9.80	426.60	12/15/16	6.42	426.54	12/15/16	6.35	426.53	12/15/16	7.02	426.44
09/19/16	9.58	426.14	09/19/16	10.52	425.88	09/19/16	7.29	425.67	09/19/16	7.15	425.73	09/19/16	7.84	425.62
06/07/16	9.45	426.27	06/07/16	10.28	426.12	06/07/16	6.95	426.01	06/07/16	6.87	426.01	06/07/16	7.57	425.89
03/07/16	8.45	427.27	03/07/16	9.28	427.12	03/07/16	5.91	427.05	03/07/16	5.82	427.06	03/07/16	6.49	426.97
12/02/15	9.30	426.42	12/02/15	10.19	426.21	12/02/15	6.85	426.11	12/02/15	6.77	426.11	12/02/15	7.44	426.02
09/16/15	9.66	426.06	09/16/15	10.47	425.93	09/16/15	7.15	425.81	09/16/15	7.05	425.83	09/16/15	7.74	425.72
06/03/15	9.34	426.38	06/03/15	9.73	426.67	06/03/15	6.41	426.55	06/03/15	6.34	426.54	06/03/15	6.95	426.51
04/08/15	8.63	427.09	04/08/15	9.29	427.11	04/08/15	6.14	426.82	04/08/15	5.96	426.92	04/08/15	6.98	426.48
12/01/14	9.32	426.40	12/01/14	9.84	426.56	12/01/14	6.49	426.47	12/01/14	6.41	426.47	12/01/14	7.08	426.38
09/10/14	9.49	426.23	09/10/14	9.89	426.51	09/10/14	7.02	425.94	09/10/14	6.95	425.93	09/10/14	7.63	425.83
06/12/14	9.58	426.14	06/12/14	10.33	426.07	06/12/14	6.99	425.97	06/12/14	6.94	425.94	06/12/14	7.63	425.83
03/25/14	9.12	426.60	03/25/14	10.22	426.18	03/25/14	6.75	426.21	03/25/14	6.85	426.03	03/25/14	7.24	426.22
12/12/13	8.47	427.25	12/12/13	9.35	427.05	12/12/13	5.92	427.04	12/12/13	5.84	427.04	12/12/13	6.51	426.95
09/23/13	9.52	426.20	09/23/13	10.32	426.08	09/23/13	7.08	425.88	09/23/13	6.98	425.90	09/23/13	7.63	425.83
06/10/13	8.46	427.26	06/10/13	9.32	427.08	06/10/13	5.78	427.18	06/10/13	5.68	427.20	06/10/13	5.35	428.11
03/27/13	9.30	426.42	03/27/13	10.11	426.29	03/27/13	6.78	426.18	03/27/13	6.95	425.93	03/27/13	7.42	426.04
12/03/12	9.49	426.23	12/03/12	10.33	426.07	12/03/12	7.02	425.94	12/03/12	6.93	425.95	12/03/12	7.70	425.76
09/12/12	9.75	425.97	09/12/12	10.63	425.77	09/12/12	7.32	425.64	09/12/12	7.25	425.63	09/12/12	8.02	425.44
06/18/12	9.51	426.21	06/18/12	10.36	426.04	06/18/12	7.05	425.91	06/18/12	6.95	425.93	06/18/12	7.69	425.77
03/19/12	8.88	426.84	03/19/12	9.79	426.61	03/19/12	6.46	426.50	03/19/12	6.32	426.56	03/19/12	7.13	426.33
12/05/11	9.10	426.62	12/05/11	9.84	426.56	12/05/11	6.72	426.24	12/05/11	6.73	426.15	12/05/11	7.50	425.96
09/26/11	9.31	426.41	09/26/11	10.11	426.29	09/26/11	6.64	426.32	09/26/11	6.68	426.20	09/26/11	7.35	426.11
06/13/11	9.29	426.43	06/13/11	10.07	426.33	06/13/11	6.71	426.25	06/13/11	7.87	425.01	06/13/11	7.33	426.13
03/29/11	8.64	427.08	03/29/11	9.43	426.97	03/29/11	6.04	426.92	03/29/11	5.93	426.95	03/29/11	6.68	426.78

TOC = Top of Inner Well Casing Elevation in Feet
DTW = Depth to Water from Top of Casing in Feet



Table 3

Historical Groundwater Data
DNAPL Wells

Well	DNA	PL-02	Well	DNA	PL-03	Well	DNA	PL-04	Well	DNA	PL-05
	TOC =	436.81		TOC =	437.23		TOC =	438.50		TOC =	440.60
Date	DTW	Water El.	Date	DTW	Water El.	Date	DTW	Water El.	Date	DTW	Water El.
		İ									
06/07/18	9.70	427.11	06/07/18	10.00	427.23	06/07/18	11.26	427.24	06/07/18	13.34	427.26
03/22/18	9.35	427.46	03/22/18	9.60	427.63	03/22/18	10.90	427.60	03/22/18	12.99	427.61
12/06/17	9.00	427.81	12/06/17	9.31	427.92	12/06/17	10.59	427.91	12/06/17	12.65	427.95
09/01/17	9.75	427.06	09/01/17	10.00	427.23	09/01/17	11.36	427.14	09/01/17	13.44	427.16
06/23/17	9.30	427.51	06/23/17	9.56	427.67	06/23/17	10.90	427.60	06/23/17	13.00	427.60
03/08/17	8.92	427.89	03/08/17	9.19	428.04	03/08/17	10.51	427.99	03/08/17	12.57	428.03
12/15/16	8.33	428.48	12/15/16	8.60	428.63	12/15/16	9.89	428.61	12/15/16	11.98	428.62
09/19/16	9.56	427.25	09/19/16	9.88	427.35	09/19/16	11.20	427.30	09/19/16	13.27	427.33
06/07/16	9.41	427.40	06/07/16	9.73	427.50	06/07/16	11.05	427.45	06/07/16	13.12	427.48
03/07/16	8.45	428.36	03/07/16	8.73	428.50	03/07/16	10.05	428.45	03/07/16	12.10	428.50
12/02/15	9.41	427.40	12/02/15	9.71	427.52	12/02/15	11.01	427.49	12/02/15	13.09	427.51
09/16/15	9.91	426.90	09/16/15	10.21	427.02	09/16/15	11.51	426.99	09/16/15	13.58	427.02
06/03/15	8.33	428.48	06/03/15	8.84	428.39	06/03/15	10.15	428.35	06/03/15	12.24	428.36
04/08/15	8.39	428.42	04/08/15	8.68	428.55	04/08/15	9.96	428.54	04/08/15	12.07	428.53
12/01/14	9.16	427.65	12/01/14	9.45	427.78	12/01/14	10.75	427.75	12/01/14	12.81	427.79
09/10/14	9.25	427.56	09/10/14	9.55	427.68	09/10/14	10.62	427.88	09/10/14	12.70	427.90
06/12/14	9.90	426.91	06/12/14	10.20	427.03	06/12/14	11.41	427.09	06/12/14	13.56	427.04
03/25/14	9.52	427.29	03/25/14	9.81	427.42	03/25/14	11.15	427.35	03/25/14	13.21	427.39
12/12/13	8.71	428.10	12/12/13	9.03	428.20	12/12/13	10.35	428.15	12/12/13	12.41	428.19
09/23/13	9.92	426.89	09/23/13	10.25	426.98	09/23/13	11.56	426.94	09/23/13	13.61	426.99
06/10/13	8.27	428.54	06/10/13	8.62	428.61	06/10/13	9.91	428.59	06/10/13	11.98	428.62
03/27/13	9.51	427.30	03/27/13	9.81	427.42	03/27/13	11.15	427.35	03/27/13	13.21	427.39
12/03/12	9.19	427.62	12/03/12	10.10	427.13	12/03/12	11.45	427.05	12/03/12	13.48	427.12
09/12/12	10.14	426.67	09/12/12	10.48	426.75	09/12/12	11.81	426.69	09/12/12	13.84	426.76
06/18/12	9.46	427.35	06/18/12	9.80	427.43	06/18/12	11.15	427.35	06/18/12	13.24	427.36
03/19/12	9.02	427.79	03/19/12	9.35	427.88	03/19/12	10.69	427.81	03/19/12	12.74	427.86
12/05/11	9.46	427.35	12/05/11	9.79	427.44	12/05/11	11.13	427.37	12/05/11	13.30	427.30
09/26/11	9.36	427.45	09/26/11	9.70	427.53	09/26/11	11.09	427.41	09/26/11	13.08	427.52
06/13/11	9.18	427.63	06/13/11	9.54	427.69	06/13/11	10.84	427.66	06/13/11	12.89	427.71
03/29/11	8.41	428.40	03/29/11	8.72	428.51	03/29/11	10.05	428.45	03/29/11	12.11	428.49

TOC = Top of Inner Well Casing Elevation in Feet
DTW = Depth to Water from Top of Casing in Feet



Table 3

Historical Groundwater Data
DNAPL Wells

Well	DNA	PL-06	Well	DNA	PL-07	Well	DNA	PL-08	Well	DNA	PL-09
	TOC =	439.71		TOC =	441.46		TOC =	441.80		TOC =	442.63
Date	DTW	Water El.	Date	DTW	Water El.	Date	DTW	Water El.	Date	DTW	Water El.
				1							
06/07/18	12.33	427.38	06/07/18	13.18	428.28	06/07/18	13.61	428.19	06/07/18	14.50	428.13
03/22/18	12.00	427.71	03/22/18	12.67	428.79	03/22/18	13.16	428.64	03/22/18	14.06	428.57
12/06/17	11.74	427.97	12/06/17	12.55	428.91	12/06/17	13.00	428.80	12/06/17	13.91	428.72
09/01/17	12.40	427.31	09/01/17	13.40	428.06	09/01/17	13.80	428.00	09/01/17	14.69	427.94
06/23/17	11.97	427.74	06/23/17	12.70	428.76	06/23/17	13.15	428.65	06/23/17	14.07	428.56
03/08/17	11.57	428.14	03/08/17	12.37	429.09	03/08/17	12.75	429.05	03/08/17	13.65	428.98
12/15/16	11.05	428.66	12/15/16	10.80	430.66	12/15/16	12.24	429.56	12/15/16	13.15	429.48
09/19/16	12.31	427.40	09/19/16	13.22	428.24	09/19/16	13.64	428.16	09/19/16	14.55	428.08
06/07/16	12.15	427.56	06/07/16	12.98	428.48	06/07/16	13.44	428.36	06/07/16	14.32	428.31
03/07/16	11.17	428.54	03/07/16	11.91	429.55	03/07/16	12.36	429.44	03/07/16	13.25	429.38
12/02/15	12.21	427.50	12/02/15	13.03	428.43	12/02/15	13.49	428.31	12/02/15	14.39	428.24
09/16/15	12.69	427.02	09/16/15	13.32	428.14	09/16/15	13.78	428.02	09/16/15	14.67	427.96
06/03/15	11.36	428.35	06/03/15	11.88	429.58	06/03/15	12.37	429.43	06/03/15	13.29	429.34
04/08/15	11.19	428.52	04/08/15	11.71	429.75	04/08/15	12.19	429.61	04/08/15	13.12	429.51
12/01/14	11.92	427.79	12/01/14	12.55	428.91	12/01/14	12.98	428.82	12/01/14	13.88	428.75
09/10/14	11.76	427.95	09/10/14	12.91	428.55	09/10/14	13.35	428.45	09/10/14	14.29	428.34
06/12/14	12.61	427.10	06/12/14	13.12	428.34	06/12/14	13.60	428.20	06/12/14	14.57	428.06
03/25/14	12.25	427.46	03/25/14	13.01	428.45	03/25/14	13.44	428.36	03/25/14	14.21	428.42
12/12/13	11.51	428.20	12/12/13	12.19	429.27	12/12/13	12.63	429.17	12/12/13	13.51	429.12
09/23/13	12.71	427.00	09/23/13	13.26	428.20	09/23/13	13.75	428.05	09/23/13	13.91	428.72
06/10/13	11.07	428.64	06/10/13	11.85	429.61	06/10/13	12.28	429.52	06/10/13	13.16	429.47
03/27/13	12.31	427.40	03/27/13	12.80	428.66	03/27/13	13.26	428.54	03/27/13	14.20	428.43
12/03/12	12.61	427.10	12/03/12	13.75	427.71	12/03/12	13.71	428.09	12/03/12	14.65	427.98
09/12/12	12.91	426.80	09/12/12	13.76	427.70	09/12/12	14.21	427.59	09/12/12	15.11	427.52
06/18/12	12.28	427.43	06/18/12	13.11	428.35	06/18/12	13.56	428.24	06/18/12	14.47	428.16
03/19/12	11.84	427.87	03/19/12	12.61	428.85	03/19/12	13.95	427.85	03/19/12	13.05	429.58
12/05/11	12.28	427.43	12/05/11	12.88	428.58	12/05/11	13.36	428.44	12/05/11	14.28	428.35
09/26/11	10.18	429.53	09/26/11	12.86	428.60	09/26/11	13.35	428.45	09/26/11	14.25	428.38
06/13/11	11.94	427.77	06/13/11	12.84	428.62	06/13/11	13.27	428.53	06/13/11	14.14	428.49
03/29/11	11.12	428.59	03/29/11	12.25	429.21	03/29/11	12.66	429.14	03/29/11	13.75	428.88

TOC = Top of Inner Well Casing Elevation in Feet
DTW = Depth to Water from Top of Casing in Feet



Table 3
Historical Groundwater Data
Trench Wells

Well	VT	M-1	Well	VT	M-2	Well	VT	M-3	Well	VT	M-4	Well	VT	M-5
	TOC =	439.74		TOC =	438.33		TOC =	439.44		TOC =	441.59		TOC =	441.79
Date	DTW	Water El.	Date	DTW	Water El.	Date	DTW	Water El.	Date	DTW	Water El.	Date	DTW	Water El.
06/07/18	12.14	427.60	03/22/18	10.46	427.87	03/22/18	11.62	427.82	03/22/18	13.61	427.98	03/22/18	13.75	428.04
03/22/18	11.86	427.88	03/22/18	10.41	427.92	03/22/18	11.36	428.08	03/22/18	13.31	428.28	03/22/18	13.45	428.34
12/06/17	11.65	428.09	12/06/17	10.07	428.26	12/06/17	11.22	428.22	12/06/17	13.17	428.42	12/06/17	13.32	428.47
09/01/17	12.10	427.64	09/01/17	10.40	427.93	09/01/17	10.55	428.89	09/01/17	13.60	427.99	09/01/17	13.77	428.02
06/23/17	11.80	427.94	06/23/17	10.10	428.23	06/23/17	11.21	428.23	06/23/17	13.15	428.44	06/23/17	13.29	428.50
03/08/17	11.24	428.50	03/08/17	9.52	428.81	03/08/17	10.65	428.79	03/08/17	12.58	429.01	03/08/17	12.76	429.03
12/15/16	10.99	428.75	12/15/16	9.33	429.00	12/15/16	10.49	428.95	12/15/16	12.49	429.10	12/15/16	12.54	429.25
09/19/16	12.23	427.51	09/19/16	10.56	427.77	09/19/16	11.71	427.73	09/19/16	13.65	427.94	09/19/16	13.82	427.97
06/07/16	11.98	427.76	06/07/16	10.29	428.04	06/07/16	11.43	428.01	06/07/16	13.44	428.15	06/07/16	13.61	428.18
03/07/16	10.98	428.76	03/07/16	9.25	429.08	03/07/16	10.36	429.08	03/07/16	12.32	429.27	03/07/16	12.49	429.30
12/02/15	12.12	427.62	12/02/15	10.53	427.80	12/02/15	11.68	427.76	12/02/15	13.58	428.01	12/02/15	13.74	428.05
09/16/15	12.55	427.19	09/16/15	10.75	427.58	09/16/15	11.85	427.59	09/16/15	13.73	427.86	09/16/15	14.67	427.12
06/03/15	11.21	428.53	06/03/15	9.55	428.78	06/03/15	10.72	428.72	06/03/15	12.68	428.91	06/03/15	12.86	428.93
04/08/15	11.06	428.68	04/08/15	9.49	428.84	04/08/15	11.65	427.79	04/08/15	12.65	428.94	04/08/15	12.81	428.98
12/01/14	11.55	428.19	12/01/14	9.79	428.54	12/01/14	10.92	428.52	12/01/14	12.91	428.68	12/01/14	13.09	428.70
09/10/14	11.62	428.12	09/10/14	9.91	428.42	09/10/14	11.10	428.34	09/10/14	13.14	428.45	09/10/14	13.31	428.48
06/12/14	11.94	427.80	06/12/14	10.28	428.05	06/12/14	11.45	427.99	06/12/14	13.48	428.11	06/12/14	13.63	428.16
03/25/14	11.69	428.05	03/25/14	10.01	428.32	03/25/14	11.17	428.27	03/25/14	13.32	428.27	03/25/14	13.35	428.44
12/12/13	10.91	428.83	12/12/13	9.31	429.02	12/12/13	10.46	428.98	12/12/13	12.51	429.08	12/12/13	12.56	429.23
09/23/13	12.19	427.55	09/23/13	10.63	427.70	09/23/13	11.79	427.65	09/23/13	15.75	425.84	09/23/13	13.91	427.88
06/10/13	10.45	429.29	06/10/13	8.75	429.58	06/10/13	9.98	429.46	06/10/13	12.08	429.51	06/10/13	13.16	428.63
03/27/13	11.83	427.91	03/27/13	10.82	427.51	03/27/13	11.48	427.96	03/27/13	13.51	428.08	03/27/13	13.69	428.10
12/03/12	12.31	427.43	12/03/12	10.82	427.51	12/03/12	11.98	427.46	12/03/12	13.84	427.75	12/03/12	14.06	427.73
06/18/12	12.01	427.73	06/18/12	10.46	427.87	06/18/12	11.66	427.78	06/18/12	13.70	427.89	06/18/12	13.89	427.90
03/19/12	11.49	428.25	03/19/12	9.91	428.42	03/19/12	11.11	428.33	03/19/12	13.16	428.43	03/19/12	13.33	428.46
12/05/11	12.01	427.73	12/05/11	10.48	427.85	12/05/11	11.62	427.82	12/05/11	13.61	427.98	12/05/11	13.81	427.98
09/26/11	11.95	427.79	09/26/11	10.41	427.92	09/26/11	11.61	427.83	09/26/11	13.66	427.93	09/26/11	13.82	427.97
06/13/11	11.74	428.00	06/13/11	10.15	428.18	06/13/11	11.32	428.12	06/13/11	13.39	428.20	06/13/11	13.59	428.20
03/29/11	11.02	428.72	03/29/11	9.48	428.85	03/29/11	10.65	428.79	03/29/11	12.81	428.78	03/29/11	12.97	428.82

TOC = Top of Inner Well Casing Elevation in Feet
DTW = Depth to Water from Top of Casing in Feet



Table 4

# Groundwater Analytical Data LTMW-D01

Parameter	EPA - Maximum Allowable (µg/L)	NYSDEC AWQS (μg/L)	Reporting Level (µg/L)	03/25/14	06/11/14	09/09/14	12/04/14	04/08/15	06/03/15	09/16/15	12/03/15	03/04/16	06/09/16	09/21/16	12/07/16	03/08/17	06/07/17	09/21/17	12/06/17	03/21/18	06/07/18
Benzene	5	1	1	4,700	5,700	2,800	1,100	540	5,100	1,700	1,500	4,800	1,700	5,310	8,990	5,800	5,290	2,470	4,250	5,460	3,440
Toluene	1,000	5	1	1,000	1,500	580	240	300	1,300	430	340	1,100	340	1,090	2,080	1,320	1,470	809	1,230	1,140	992
Ethylbenzene	700	5	1	53	110	ND	7.8	26	84	53	54	82	ND	167	241	145	137	179	177	95.0	119
Xylene (total)	10,000	5	2	ND	170	ND	46	68	160	ND	ND	170	ND	176	254	206	201	157	187	135	155
Acenaphthene	N/A	20	4.9	ND	0.59	0.43	0.19	0.10	0.19	0.35	0.18	0.19									
Acenaphthylene	N/A	NA	4.9	ND	5.0	6.2	0.31	0.11	0.36	7.1	3.1	1.1									
Anthracene	N/A	NA	4.9	ND																	
Benzo(a)anthracene	N/A	0.002	4.9	ND																	
Benzo(a)pyrene	N/A	ND	4.9	ND																	
Benzo(b)fluoranthene	N/A	0.002	4.9	ND																	
Benzo(g,h,i)perylene	0.2	NA	4.9	ND																	
Benzo(k)fluoranthene	N/A	0.002	4.9	ND																	
Chrysene	N/A	0.002	4.9	ND																	
Cyanide	N/A	200	10	ND	13	ND	ND	14	11	ND	ND	ND	10	ND							
Dibenzo(a,h)anthracene	N/A	50	4.9	ND																	
Fluoranthene	N/A	50	4.9	ND																	
Fluorene	N/A	0.002	4.9	ND	0.51	0.35	0.15	ND	ND	0.41	0.17	0.14									
Indeno(1,2,3-cd)pyrene	N/A	50	4.9	ND																	
Naphthalene	N/A	10	4.9	ND	97.1	229	ND	ND	ND	7.2	94.6	0.44									
Phenanthrene	N/A	50	4.9	ND	107	ND	ND														
Pyrene	N/A	50	4.9	ND																	
Arsenic	N/A	25	10	ND	6.9	ND	6.8														
Lead	N/A	25	5	ND																	
Zinc	N/A	2,000	10	ND																	

EPA = Environmental Protection Agency

NYSDEC = New York State Department of Environmental Conservation

AWQS = Ambient Water Quality Standards

= Micrograms per Liter

μg/L ND H J Not detected above laboratory reporting limits
 Quantitated using peak height rather than peak area
 Estimated Concentration Value
 values indicate exceedance of the NYSDEC AWQS

Bolded



Table 4

# Groundwater Analytical Data LTMW-S01

Parameter	EPA - Maximum Allowable (µg/L)	NYSDEC AWQS (µg/L)	Reporting Level (µg/L)	03/25/14	06/11/14	09/09/14	12/04/14	04/08/15	06/03/15	09/16/15	12/03/15	03/04/16	06/09/16	09/21/16	12/07/16	03/08/17	06/07/17	09/21/17	12/06/17	03/21/18	06/07/18
Benzene	5	1	1	ND	ND	ND	3,600	ND													
Toluene	1,000	5	1	ND	ND	ND	470	ND													
Ethylbenzene	700	5	1	ND	1.2	ND	ND	ND	ND	ND	ND										
Xylene (total)	10,000	5	2	ND																	
Acenaphthene	N/A	20	4.9	99	83	56 H J	94	70	68	72	79 E	76	120	125	91.2	69.4	56.4	105	75.1	56.5	68.1
Acenaphthylene	N/A	NA	4.9	ND	5.1	ND	ND	ND	4.7	ND	ND	ND	ND	4.1	3	3.2	2.5	3.6	2.7	2.2	3.3
Anthracene	N/A	NA	4.9	ND	0.44	0.38	0.52	0.28	0.40	0.34	0.27	0.37									
Benzo(a)anthracene	N/A	0.002	4.9	ND																	
Benzo(a)pyrene	N/A	ND	4.9	ND																	
Benzo(b)fluoranthene	N/A	0.002	4.9	ND																	
Benzo(g,h,i)perylene	0.2	NA	4.9	ND																	
Benzo(k)fluoranthene	N/A	0.002	4.9	ND																	
Chrysene	N/A	0.002	4.9	ND																	
Cyanide	N/A	200	10	19	28	22	ND	23	16	23	20	20	21	ND	13	55	18	12	15	11	17
Dibenzo(a,h)anthracene	N/A	50	4.9	ND																	
Fluoranthene	N/A	50	4.9	ND	5.4	ND	4.9	4	3.6	2.8	4.8	3.5	2.4	3.7							
Fluorene	N/A	0.002	4.9	ND	27	20 H J	28	18	26	25	23	21	28	34.1	27.6	19.9	12.6	28.5	19.2	15.4	18.1
Indeno(1,2,3-cd)pyrene	N/A	50	4.9	ND																	
Naphthalene	N/A	10	4.9	ND	0.2	0.38	0.4	0.15	0.24	0.31	ND	0.23									
Phenanthrene	N/A	50	4.9	ND	25	7.7 H J	10	ND	9.4	ND	ND	ND	ND	0.25	0.74	1.7	ND	0.14	0.20	0.26	0.13
Pyrene	N/A	50	4.9	ND	5.3	ND	5.0	4.2	3.6	2.7	4.9	3.7	2.5	3.8							
Arsenic	N/A	25	10	ND																	
Lead	N/A	25	5	ND	ND	ND	ND	ND	8.9	ND											
Zinc	N/A	2,000	10	ND	ND	ND	ND	ND	28	ND											

EPA = Environmental Protection Agency

NYSDEC = New York State Department of Environmental Conservation AWQS

= Ambient Water Quality Standards

μg/L ND H J Micrograms per Liter
 Not detected above laboratory reporting limits
 Quantitated using peak height rather than peak area
 Estimated Concentration Value

= values indicate exceedance of the NYSDEC AWQS Bolded



Table 4

# Groundwater Analytical Data LTMW-D02

Parameter	EPA - Maximum Allowable (µg/L)	NYSDEC AWQS (µg/L)	Reporting Level (µg/L)	03/25/14	06/11/14	09/09/14	12/04/14	04/08/15	06/03/15	09/16/15	12/03/15	03/04/16	06/09/16	09/20/16	12/07/16	03/08/17	06/07/17	09/21/17	12/06/17	03/21/18	06/07/18
Benzene	5	1	1	ND																	
Toluene	1,000	5	1	ND																	
Ethylbenzene	700	5	1	ND																	
Xylene (total)	10,000	5	2	ND																	
Acenaphthene	N/A	20	4.9	7	7.4	3.8 H J	7.4	5.8	ND	ND	ND	ND	ND	3.3	2.2	1.6	ND	2.0	0.97	1.2	1.0
Acenaphthylene	N/A	NA	4.9	ND	0.8	0.43	0.39	ND	0.48	0.22	0.29	0.31									
Anthracene	N/A	NA	4.9	ND																	
Benzo(a)anthracene	N/A	0.002	4.9	ND																	
Benzo(a)pyrene	N/A	ND	4.9	ND																	
Benzo(b)fluoranthene	N/A	0.002	4.9	ND																	
Benzo(g,h,i)perylene	0.2	NA	4.9	ND																	
Benzo(k)fluoranthene	N/A	0.002	4.9	ND																	
Chrysene	N/A	0.002	4.9	ND																	
Cyanide	N/A	200	10	ND	100	110	ND	130	110	16	ND	93	85	ND	150	200	ND	160	160	160	150
Dibenzo(a,h)anthracene	N/A	50	4.9	ND																	
Fluoranthene	N/A	50	4.9	ND																	
Fluorene	N/A	0.002	4.9	ND																	
Indeno(1,2,3-cd)pyrene	N/A	50	4.9	ND																	
Naphthalene	N/A	10	4.9	ND	0.16	ND															
Phenanthrene	N/A	50	4.9	ND																	
Pyrene	N/A	50	4.9	ND																	
Arsenic	N/A	25	10	ND																	
Lead	N/A	25	5	11	ND	ND	ND	ND	6	ND											
Zinc	N/A	2,000	10	83	ND	ND	0.021	ND	22	110	11	13	61	ND							

EPA = Environmental Protection Agency

NYSDEC = New York State Department of Environmental Conservation AWQS

= Ambient Water Quality Standards

μg/L ND H J Micrograms per Liter
 Not detected above laboratory reporting limits
 Quantitated using peak height rather than peak area
 Estimated Concentration Value

= values indicate exceedance of the NYSDEC AWQS Bolded



Table 4

# Groundwater Analytical Data LTMW-S02

Parameter	EPA - Maximum Allowable (µg/L)	NYSDEC AWQS (µg/L)	Reporting Level (µg/L)	03/25/14	06/11/14	09/09/14	12/04/14	04/08/15	06/03/15	09/16/15	12/03/15	03/04/16	06/09/16	09/20/16	12/07/16	03/08/17	06/07/17	09/21/17	12/06/17	03/21/18	06/07/18
Benzene	5	1	1	ND																	
Toluene	1,000	5	1	ND																	
Ethylbenzene	700	5	1	ND																	
Xylene (total)	10,000	5	2	ND																	
Acenaphthene	N/A	20	4.9	ND	0.13																
Acenaphthylene	N/A	NA	4.9	ND																	
Anthracene	N/A	NA	4.9	ND																	
Benzo(a)anthracene	N/A	0.002	4.9	ND																	
Benzo(a)pyrene	N/A	ND	4.9	ND																	
Benzo(b)fluoranthene	N/A	0.002	4.9	ND																	
Benzo(g,h,i)perylene	0.2	NA	4.9	ND																	
Benzo(k)fluoranthene	N/A	0.002	4.9	ND																	
Chrysene	N/A	0.002	4.9	ND																	
Cyanide	N/A	200	10	130	140	160	ND	81	35	190	120	130	150	ND	130	75	73	110	90	60	59
Dibenzo(a,h)anthracene	N/A	50	4.9	ND																	
Fluoranthene	N/A	50	4.9	ND																	
Fluorene	N/A	0.002	4.9	ND																	
Indeno(1,2,3-cd)pyrene	N/A	50	4.9	ND																	
Naphthalene	N/A	10	4.9	ND	0.15	ND															
Phenanthrene	N/A	50	4.9	ND																	
Pyrene	N/A	50	4.9	ND																	
Arsenic	N/A	25	10	ND	15	15	5.1	ND	7.7	ND	ND	7.6	ND	7.1							
Lead	N/A	25	5	ND																	
Zinc	N/A	2,000	10	ND																	

EPA = Environmental Protection Agency

NYSDEC = New York State Department of Environmental Conservation AWQS

= Ambient Water Quality Standards

μg/L ND H J Micrograms per Liter
 Not detected above laboratory reporting limits
 Quantitated using peak height rather than peak area
 Estimated Concentration Value

= values indicate exceedance of the NYSDEC AWQS Bolded



Table 4 Groundwater Analytical Data LTMW-D03

Parameter	EPA - Maximum Allowable (µg/L)	NYSDEC AWQS (µg/L)	Reporting Level (µg/L)	03/25/14	06/11/14	09/10/14	12/04/14	04/08/15	06/03/15	09/16/15	12/03/15	03/04/16	06/09/16	09/20/16	12/07/16	03/08/17	06/07/17	09/21/17	12/06/17	03/21/18	06/07/18
Benzene	5	1	1	16	15	11	12	6.7	9.3	9.3	10	8.9	20	15.9	27.1	10.2	8.5	8.9	9.5	4.7	6.4
Toluene	1,000	5	1	4.4	5.3	ND	4.2	2	3.4	2.2	ND	ND	20	13.9	55	5.9	1.9	1.9	5.4	ND	1.2
Ethylbenzene	700	5	1	120	170	150	190	73	100	87	76	86	58	69.6	23.9	63.7	44	49.0	40.2	26.0	34.1
Xylene (total)	10,000	5	2	25	42	28	41	15	22	16	16	14	42	30.1	25.7	13.5	5.6	7.5	8.4	4.0	4.4
Acenaphthene	N/A	20	4.9	ND	11	4.9 H J	14	10	14	16	12	11	ND	411.9	ND	10.7	3.70	10.2	5.9	5.8	8.3
Acenaphthylene	N/A	NA	4.9	ND	7.3	ND	5.9	ND	ND	ND	ND	ND	ND	34.7	10.6	3.1	2.5	2.2	1.5	1.3	2.0
Anthracene	N/A	NA	4.9	ND	ND	ND	5.7	ND	5.6	5.4	ND	ND	ND	5.2	ND	5.6	0.3	3.7	2.4	2.2	2.8
Benzo(a)anthracene	N/A	0.002	4.9	ND	0.43	ND	0.42	ND	0.40	0.26	0.30	0.34									
Benzo(a)pyrene	N/A	ND	4.9	ND																	
Benzo(b)fluoranthene	N/A	0.002	4.9	ND																	
Benzo(g,h,i)perylene	0.2	NA	4.9	ND																	
Benzo(k)fluoranthene	N/A	0.002	4.9	ND																	
Chrysene	N/A	0.002	4.9	ND	0.21	ND	0.25	ND	0.24	0.18	0.17	0.19									
Cyanide	N/A	200	10	76	76	ND	44	64	67	78	71	75	93	77	79	84	76	66	78	64	66
Dibenzo(a,h)anthracene	N/A	50	4.9	ND																	
Fluoranthene	N/A	50	4.9	ND	5.7	ND	7.1	ND	6.7	6.6	5.6	6.2	ND	6.2	ND	6.1	2.9	5.9	3.7	4.1	4.7
Fluorene	N/A	0.002	4.9	ND	11	4.3 H J	12	6.8	11	10	9.3	7.8	ND	11.5	ND	7.1	13.2	6.2	3.7	3.6	5.1
Indeno(1,2,3-cd)pyrene	N/A	50	4.9	ND	9.4	ND	ND	ND	ND	ND	ND										
Naphthalene	N/A	10	4.9	230	100	74 H J	150	14	47	29	24	13	81	556	284	32.2	0.15	10.0	16.5	3.9	3.7
Phenanthrene	N/A	50	4.9	ND	27	9.6 H J	31	17	28	30	25	27	25	29.5	1.5	30.3	0.11	24.1	15.2	16.3	18.1
Pyrene	N/A	50	4.9	ND	ND	ND	9.8	6	8.9	8.6	7.2	8.3	8.3	8.3	1.2	7.6	2.8	7.6	4.8	5.5	6.0
Arsenic	N/A	25	10	ND																	
Lead	N/A	25	5	ND																	
Zinc	N/A	2,000	10	ND	ND	ND	0.01	ND													

EPA = Environmental Protection Agency

NYSDEC = New York State Department of Environmental Conservation AWQS

= Ambient Water Quality Standards

 Annuerin Water Quality Standards
 Micrograms per Liter
 Not detected above laboratory reporting limits
 Quantitated using peak height rather than peak area
 Estimated Concentration Value
 values indicate exceedance of the NYSDEC AWQS μg/L ND H J

Bolded



Table 4

Parameter	EPA - Maximum Allowable (µg/L)	NYSDEC AWQS (μg/L)	Reporting Level (µg/L)	03/25/14	06/11/14	09/10/14	12/04/14	04/08/15	06/03/15	09/16/15	12/03/15	03/04/16	06/09/16	09/20/16	12/07/16	03/08/17	06/07/17	09/21/17	12/06/17	03/21/18	06/07/18
Benzene	5	1	1	ND																	
Toluene	1,000	5	1	ND																	
Ethylbenzene	700	5	1	ND	ND	ND	1.3	ND													
Xylene (total)	10,000	5	2	ND																	
Acenaphthene	N/A	20	4.9	ND																	
Acenaphthylene	N/A	NA	4.9	ND																	
Anthracene	N/A	NA	4.9	ND																	
Benzo(a)anthracene	N/A	0.002	4.9	ND																	
Benzo(a)pyrene	N/A	ND	4.9	ND																	
Benzo(b)fluoranthene	N/A	0.002	4.9	ND																	
Benzo(g,h,i)perylene	0.2	NA	4.9	ND																	
Benzo(k)fluoranthene	N/A	0.002	4.9	ND																	
Chrysene	N/A	0.002	4.9	ND																	
Cyanide	N/A	200	10	ND	ND	72 J	ND	ND	ND	ND	ND	ND	11	ND							
Dibenzo(a,h)anthracene	N/A	50	4.9	ND																	
Fluoranthene	N/A	50	4.9	ND																	
Fluorene	N/A	0.002	4.9	ND	0.15	ND	ND	ND	ND	ND											
Indeno(1,2,3-cd)pyrene	N/A	50	4.9	ND																	
Naphthalene	N/A	10	4.9	ND	0.16	0.17	ND	ND	ND	ND	ND	ND									
Phenanthrene	N/A	50	4.9	ND	0.11	ND	ND	ND	ND	ND											
Pyrene	N/A	50	4.9	ND																	
Arsenic	N/A	25	10	ND	7.3																
Lead	N/A	25	5	10	7.9	11	ND	15	30	5.9	5.9	ND									
Zinc	N/A	2,000	10	7,500	5,800	5,600	4,600	5,600	7,300	5,500	4,400	4,600	4,300	4,300	4,600	5,330	4,250	3,740	3,620	4,070	3,660

EPA = Environmental Protection Agency

NYSDEC = New York State Department of Environmental Conservation AWQS

= Ambient Water Quality Standards

μg/L ND H J Micrograms per Liter
 Not detected above laboratory reporting limits
 Quantitated using peak height rather than peak area
 Estimated Concentration Value



Table 4

Parameter	EPA - Maximum Allowable (µg/L)	NYSDEC AWQS (µg/L)	Reporting Level (µg/L)	03/25/14	06/11/14	09/10/14	12/04/14	04/08/15	06/03/15	09/16/15	12/03/15	03/04/16	06/09/16	09/20/16	12/07/16	03/08/17	06/07/17	09/21/17	12/06/17	03/21/18	06/07/18
Benzene	5	1	1	ND																	
Toluene	1,000	5	1	ND																	
Ethylbenzene	700	5	1	ND																	
Xylene (total)	10,000	5	2	ND																	
Acenaphthene	N/A	20	4.9	ND																	
Acenaphthylene	N/A	NA	4.9	ND																	
Anthracene	N/A	NA	4.9	ND																	
Benzo(a)anthracene	N/A	0.002	4.9	ND																	
Benzo(a)pyrene	N/A	ND	4.9	ND																	
Benzo(b)fluoranthene	N/A	0.002	4.9	ND																	
Benzo(g,h,i)perylene	0.2	NA	4.9	ND																	
Benzo(k)fluoranthene	N/A	0.002	4.9	ND																	
Chrysene	N/A	0.002	4.9	ND																	
Cyanide	N/A	200	10	ND	15	12	ND	13	15	14	11.5	10	ND	10	ND						
Dibenzo(a,h)anthracene	N/A	50	4.9	ND																	
Fluoranthene	N/A	50	4.9	ND																	
Fluorene	N/A	0.002	4.9	ND																	
Indeno(1,2,3-cd)pyrene	N/A	50	4.9	ND																	
Naphthalene	N/A	10	4.9	ND																	
Phenanthrene	N/A	50	4.9	ND																	
Pyrene	N/A	50	4.9	ND																	
Arsenic	N/A	25	10	ND	35.3	ND	ND	ND	ND												
Lead	N/A	25	5	ND																	
Zinc	N/A	2,000	10	ND	ND	ND	0.013	ND	ND	ND	490	490	ND								

EPA = Environmental Protection Agency

NYSDEC = New York State Department of Environmental Conservation AWQS

= Ambient Water Quality Standards

μg/L ND H J Micrograms per Liter
 Not detected above laboratory reporting limits
 Quantitated using peak height rather than peak area
 Estimated Concentration Value



Table 4

Parameter	EPA - Maximum Allowable (µg/L)	NYSDEC AWQS (μg/L)	Reporting Level (µg/L)	03/25/14	06/11/14	09/10/14	12/04/14	04/08/15	06/03/15	09/16/15	12/03/15	03/04/16	06/09/16	09/20/16	12/07/16	03/08/17	06/07/17	09/21/17	12/06/17	03/21/18	06/07/18
Benzene	5	1	1	ND																	
Toluene	1,000	5	1	ND																	
Ethylbenzene	700	5	1	ND																	
Xylene (total)	10,000	5	2	ND																	
Acenaphthene	N/A	20	4.9	ND																	
Acenaphthylene	N/A	NA	4.9	ND																	
Anthracene	N/A	NA	4.9	ND																	
Benzo(a)anthracene	N/A	0.002	4.9	ND																	
Benzo(a)pyrene	N/A	ND	4.9	ND																	
Benzo(b)fluoranthene	N/A	0.002	4.9	ND																	
Benzo(g,h,i)perylene	0.2	NA	4.9	ND																	
Benzo(k)fluoranthene	N/A	0.002	4.9	ND																	
Chrysene	N/A	0.002	4.9	ND																	
Cyanide	N/A	200	10	300	350	580	680	870	400	800	170	450	600	59	2,000	900	1,200	200	1,300	400	230
Dibenzo(a,h)anthracene	N/A	50	4.9	ND																	
Fluoranthene	N/A	50	4.9	ND																	
Fluorene	N/A	0.002	4.9	ND																	
Indeno(1,2,3-cd)pyrene	N/A	50	4.9	ND																	
Naphthalene	N/A	10	4.9	ND																	
Phenanthrene	N/A	50	4.9	ND																	
Pyrene	N/A	50	4.9	ND																	
Arsenic	N/A	25	10	ND																	
Lead	N/A	25	5	ND																	
Zinc	N/A	2,000	10	560	310	330	120	180	610	140	ND	510	340	23	618	358	108	128	472	472	267

EPA = Environmental Protection Agency

NYSDEC = New York State Department of Environmental Conservation AWQS

= Ambient Water Quality Standards

μg/L ND H J Micrograms per Liter
 Not detected above laboratory reporting limits
 Quantitated using peak height rather than peak area
 Estimated Concentration Value



Table 4

Parameter	EPA - Maximum Allowable (µq/L)	NYSDEC AWQS (µg/L)	Reporting Level (μg/L)	03/25/14	06/11/14	09/10/14	12/04/14	04/08/15	06/03/15	09/16/15	12/03/15	03/04/16	06/09/16	09/19/16	12/07/16	03/08/17	06/07/17	09/21/17	12/06/17	03/21/18	06/07/18
Benzene	5	1	1	ND																	
Toluene	1,000	5	1	ND																	
Ethylbenzene	700	5	1	ND																	
Xylene (total)	10,000	5	2	ND																	
Acenaphthene	N/A	20	4.9	ND																	
Acenaphthylene	N/A	NA	4.9	ND		ND															
Anthracene	N/A	NA	4.9	ND																	
Benzo(a)anthracene	N/A	0.002	4.9	ND																	
Benzo(a)pyrene	N/A	ND	4.9	ND																	
Benzo(b)fluoranthene	N/A	0.002	4.9	ND																	
Benzo(g,h,i)perylene	0.2	NA	4.9	ND																	
Benzo(k)fluoranthene	N/A	0.002	4.9	ND																	
Chrysene	N/A	0.002	4.9	ND																	
Cyanide	N/A	200	10	140	ND	13	ND														
Dibenzo(a,h)anthracene	N/A	50	4.9	ND																	
Fluoranthene	N/A	50	4.9	ND																	
Fluorene	N/A	0.002	4.9	ND																	
Indeno(1,2,3-cd)pyrene	N/A	50	4.9	ND																	
Naphthalene	N/A	10	4.9	ND																	
Phenanthrene	N/A	50	4.9	ND																	
Pyrene	N/A	50	4.9	ND																	
Arsenic	N/A	25	10	ND																	
Lead	N/A	25	5	ND																	
Zinc	N/A	2,000	10	39	ND	ND	0.013	ND													

EPA = Environmental Protection Agency

NYSDEC = New York State Department of Environmental Conservation AWQS

= Ambient Water Quality Standards

μg/L ND H J Micrograms per Liter
 Not detected above laboratory reporting limits
 Quantitated using peak height rather than peak area
 Estimated Concentration Value



Table 4

Parameter	EPA - Maximum Allowable (µg/L)	NYSDEC AWQS (μg/L)	Reporting Level (µg/L)	03/25/14	06/11/14	09/10/14	12/04/14	04/08/15	06/03/15	09/16/15	12/03/15	03/04/16	06/09/16	09/19/16	12/07/16	03/08/17	06/07/17	09/21/17	12/06/17	03/21/18	06/07/18
Benzene	5	1	1	ND	5,800	ND	ND	ND	ND	ND											
Toluene	1,000	5	1	ND	1,320	ND	ND	ND	ND	ND											
Ethylbenzene	700	5	1	ND	145	ND	ND	ND	ND	ND											
Xylene (total)	10,000	5	2	ND	206	ND	ND	ND	ND	ND											
Acenaphthene	N/A	20	4.9	ND	0.19	ND	ND	ND	ND	ND											
Acenaphthylene	N/A	NA	4.9	ND	0.31	ND	ND	ND	ND	ND											
Anthracene	N/A	NA	4.9	ND																	
Benzo(a)anthracene	N/A	0.002	4.9	ND																	
Benzo(a)pyrene	N/A	ND	4.9	ND																	
Benzo(b)fluoranthene	N/A	0.002	4.9	ND																	
Benzo(g,h,i)perylene	0.2	NA	4.9	ND																	
Benzo(k)fluoranthene	N/A	0.002	4.9	ND																	
Chrysene	N/A	0.002	4.9	ND																	
Cyanide	N/A	200	10	ND	260	150	94	140	190	220	160	450	250	16	830	510	570	270	380	430	120
Dibenzo(a,h)anthracene	N/A	50	4.9	ND																	
Fluoranthene	N/A	50	4.9	ND																	
Fluorene	N/A	0.002	4.9	ND	0.15	ND	ND	ND	ND	ND											
Indeno(1,2,3-cd)pyrene	N/A	50	4.9	ND																	
Naphthalene	N/A	10	4.9	ND																	
Phenanthrene	N/A	50	4.9	ND																	
Pyrene	N/A	50	4.9	ND																	
Arsenic	N/A	25	10	ND																	
Lead	N/A	25	5	ND	ND	ND	ND	11	ND	5.4	ND	ND	ND	ND	ND						
Zinc	N/A	2,000	10	ND	ND	11	13	75	ND	27	ND	ND	19	23	ND	27.5	ND	ND	ND	ND	ND

EPA = Environmental Protection Agency

NYSDEC = New York State Department of Environmental Conservation AWQS

= Ambient Water Quality Standards

 Annuerin Water Quality Standards
 Micrograms per Liter
 Not detected above laboratory reporting limits
 Quantitated using peak height rather than peak area
 Estimated Concentration Value
 values indicate exceedance of the NYSDEC AWQS μg/L ND H J

Bolded



Table 4

Parameter	EPA - Maximum Allowable (µg/L)	NYSDEC AWQS (µg/L)	Reporting Level (µg/L)	03/25/14	06/11/14	09/08/14	12/04/14	04/08/15	06/03/15	09/16/15	12/03/15	03/04/16	06/09/16	09/19/16	12/07/16	03/08/17	06/07/17	09/21/17	12/06/17	03/21/18	06/07/18
Benzene	5	1	1	ND																	
Toluene	1,000	5	1	ND																	
Ethylbenzene	700	5	1	ND																	
Xylene (total)	10,000	5	2	ND																	
Acenaphthene	N/A	20	4.9	ND																	
Acenaphthylene	N/A	NA	4.9	ND																	
Anthracene	N/A	NA	4.9	ND																	
Benzo(a)anthracene	N/A	0.002	4.9	ND																	
Benzo(a)pyrene	N/A	ND	4.9	ND																	
Benzo(b)fluoranthene	N/A	0.002	4.9	ND																	
Benzo(g,h,i)perylene	0.2	NA	4.9	ND																	
Benzo(k)fluoranthene	N/A	0.002	4.9	ND																	
Chrysene	N/A	0.002	4.9	ND																	
Cyanide	N/A	200	10	ND	92	ND	ND	ND	ND	ND	ND										
Dibenzo(a,h)anthracene	N/A	50	4.9	ND																	
Fluoranthene	N/A	50	4.9	ND																	
Fluorene	N/A	0.002	4.9	ND																	
Indeno(1,2,3-cd)pyrene	N/A	50	4.9	ND																	
Naphthalene	N/A	10	4.9	ND																	
Phenanthrene	N/A	50	4.9	ND																	
Pyrene	N/A	50	4.9	ND	8.1	ND	ND	ND	ND	ND											
Arsenic	N/A	25	10	ND	0.64	ND	ND	8.1	8.5	8.0	6.0	12.0									
Lead	N/A	25	5	ND																	
Zinc	N/A	2,000	10	ND	ND	ND	0.015	ND													

EPA = Environmental Protection Agency

NYSDEC = New York State Department of Environmental Conservation AWQS

= Ambient Water Quality Standards

μg/L ND H J Micrograms per Liter
 Not detected above laboratory reporting limits
 Quantitated using peak height rather than peak area
 Estimated Concentration Value



Table 4

Parameter	EPA - Maximum Allowable (µg/L)	NYSDEC AWQS (μg/L)	Reporting Level (µg/L)	03/25/14	06/11/14	09/08/14	12/04/14	04/08/15	06/03/15	09/16/15	12/03/15	03/04/16	06/09/16	09/19/16	12/07/16	03/08/17	06/07/17	09/21/17	12/06/17	03/21/18	06/07/18
Benzene	5	1	1	ND																	
Toluene	1,000	5	1	ND																	
Ethylbenzene	700	5	1	ND																	
Xylene (total)	10,000	5	2	ND																	
Acenaphthene	N/A	20	4.9	ND																	
Acenaphthylene	N/A	NA	4.9	ND																	
Anthracene	N/A	NA	4.9	ND																	
Benzo(a)anthracene	N/A	0.002	4.9	ND																	
Benzo(a)pyrene	N/A	ND	4.9	ND																	
Benzo(b)fluoranthene	N/A	0.002	4.9	ND																	
Benzo(g,h,i)perylene	0.2	NA	4.9	ND																	
Benzo(k)fluoranthene	N/A	0.002	4.9	ND																	
Chrysene	N/A	0.002	4.9	ND																	
Cyanide	N/A	200	10	71	110	66	17	100	ND	32	19	32	66	31	ND	190	79	14	18	64	55
Dibenzo(a,h)anthracene	N/A	50	4.9	ND																	
Fluoranthene	N/A	50	4.9	ND																	
Fluorene	N/A	0.002	4.9	ND																	
Indeno(1,2,3-cd)pyrene	N/A	50	4.9	ND																	
Naphthalene	N/A	10	4.9	ND																	
Phenanthrene	N/A	50	4.9	ND																	
Pyrene	N/A	50	4.9	ND																	
Arsenic	N/A	25	10	ND	9	ND	ND	ND	ND	ND	ND										
Lead	N/A	25	5	ND																	
Zinc	N/A	2,000	10	ND	ND	ND	0.01	0.01	ND	ND	ND	18	ND								

EPA = Environmental Protection Agency

NYSDEC = New York State Department of Environmental Conservation AWQS

= Ambient Water Quality Standards

μg/L ND H J

Micrograms per Liter
 Not detected above laboratory reporting limits
 Quantitated using peak height rather than peak area
 Estimated Concentration Value



Table 4

Parameter	EPA - Maximum Allowable (µg/L)	NYSDEC AWQS (μg/L)	Reporting Level (µg/L)	03/25/14	06/11/14	09/08/14	12/04/14	04/08/15	06/03/15	09/16/15	12/03/15	03/04/16	06/09/16	09/21/16	12/07/16	03/08/17	06/07/17	09/21/17	12/06/17	03/21/18	06/07/18
Benzene	5	1	1	ND																	
Toluene	1,000	5	1	ND																	
Ethylbenzene	700	5	1	ND																	
Xylene (total)	10,000	5	2	ND																	
Acenaphthene	N/A	20	4.9	ND																	
Acenaphthylene	N/A	NA	4.9	ND																	
Anthracene	N/A	NA	4.9	ND																	
Benzo(a)anthracene	N/A	0.002	4.9	ND																	
Benzo(a)pyrene	N/A	ND	4.9	ND																	
Benzo(b)fluoranthene	N/A	0.002	4.9	ND																	
Benzo(g,h,i)perylene	0.2	NA	4.9	ND																	
Benzo(k)fluoranthene	N/A	0.002	4.9	ND																	
Chrysene	N/A	0.002	4.9	ND																	
Cyanide	N/A	200	10	ND																	
Dibenzo(a,h)anthracene	N/A	50	4.9	ND																	
Fluoranthene	N/A	50	4.9	ND																	
Fluorene	N/A	0.002	4.9	ND																	
Indeno(1,2,3-cd)pyrene	N/A	50	4.9	ND																	
Naphthalene	N/A	10	4.9	ND																	
Phenanthrene	N/A	50	4.9	ND																	
Pyrene	N/A	50	4.9	ND																	
Arsenic	N/A	25	10	ND																	
Lead	N/A	25	5	ND																	
Zinc	N/A	2,000	10	ND																	

EPA = Environmental Protection Agency

NYSDEC = New York State Department of Environmental Conservation

AWQS = Ambient Water Quality Standards

 Annuerin Water Quality Standards
 Micrograms per Liter
 Not detected above laboratory reporting limits
 Quantitated using peak height rather than peak area
 Estimated Concentration Value
 values indicate exceedance of the NYSDEC AWQS μg/L ND H J

Bolded



Table 4

Parameter	EPA - Maximum Allowable (µg/L)	NYSDEC AWQS (μg/L)	Reporting Level (µg/L)	03/25/14	06/11/14	09/08/14	12/04/14	04/08/15	06/03/15	09/16/15	12/03/15	03/04/16	06/09/16	09/19/16	12/07/16	03/08/17	06/07/17	09/21/17	12/06/17	03/21/18	06/07/18
Benzene	5	1	1	ND	ND	ND	ND	2.4	ND												
Toluene	1,000	5	1	ND																	
Ethylbenzene	700	5	1	ND																	
Xylene (total)	10,000	5	2	ND																	
Acenaphthene	N/A	20	4.9	ND																	
Acenaphthylene	N/A	NA	4.9	ND																	
Anthracene	N/A	NA	4.9	ND																	
Benzo(a)anthracene	N/A	0.002	4.9	ND																	
Benzo(a)pyrene	N/A	ND	4.9	ND																	
Benzo(b)fluoranthene	N/A	0.002	4.9	ND																	
Benzo(g,h,i)perylene	0.2	NA	4.9	ND																	
Benzo(k)fluoranthene	N/A	0.002	4.9	ND																	
Chrysene	N/A	0.002	4.9	ND																	
Cyanide	N/A	200	10	ND	130	110	170	560	120	100	100	280	120	120	140	240	16	140	16	200	150
Dibenzo(a,h)anthracene	N/A	50	4.9	ND																	
Fluoranthene	N/A	50	4.9	ND																	
Fluorene	N/A	0.002	4.9	ND																	
Indeno(1,2,3-cd)pyrene	N/A	50	4.9	ND																	
Naphthalene	N/A	10	4.9	ND	0.12	ND	ND	ND	ND	ND	ND										
Phenanthrene	N/A	50	4.9	ND																	
Pyrene	N/A	50	4.9	ND																	
Arsenic	N/A	25	10	ND																	
Lead	N/A	25	5	ND																	
Zinc	N/A	2,000	10	ND																	

EPA = Environmental Protection Agency

NYSDEC = New York State Department of Environmental Conservation AWQS

= Ambient Water Quality Standards

μg/L ND H J Micrograms per Liter
 Not detected above laboratory reporting limits
 Quantitated using peak height rather than peak area
 Estimated Concentration Value



#### Table 4

## Groundwater Analytical Data LTMW-S09

Parameter	EPA - Maximum Allowable (µg/L)	NYSDEC AWQS (μg/L)	Reporting Level (µg/L)	03/25/14	06/11/14	09/08/14	12/04/14	04/08/15	06/03/15	09/16/15	12/03/15	03/04/16	06/09/16	09/19/16	12/07/16	03/08/17	06/07/17	09/21/17	12/06/17	03/21/18	06/07/18
Benzene	5	1	1	ND																	
Toluene	1,000	5	1	ND																	
Ethylbenzene	700	5	1	ND																	
Xylene (total)	10,000	5	2	ND																	
Acenaphthene	N/A	20	4.9	ND																	
Acenaphthylene	N/A	NA	4.9	ND																	
Anthracene	N/A	NA	4.9	ND																	
Benzo(a)anthracene	N/A	0.002	4.9	ND																	
Benzo(a)pyrene	N/A	ND	4.9	ND																	
Benzo(b)fluoranthene	N/A	0.002	4.9	ND																	
Benzo(g,h,i)perylene	0.2	NA	4.9	ND																	
Benzo(k)fluoranthene	N/A	0.002	4.9	ND																	
Chrysene	N/A	0.002	4.9	ND																	
Cyanide	N/A	200	10	ND																	
Dibenzo(a,h)anthracene	N/A	50	4.9	ND																	
Fluoranthene	N/A	50	4.9	ND																	
Fluorene	N/A	0.002	4.9	ND																	
Indeno(1,2,3-cd)pyrene	N/A	50	4.9	ND																	
Naphthalene	N/A	10	4.9	ND																	
Phenanthrene	N/A	50	4.9	ND																	
Pyrene	N/A	50	4.9	ND																	
Arsenic	N/A	25	10	ND																	
Lead	N/A	25	5	ND	ND	ND	11	ND	ND	5.4	ND										
Zinc	N/A	2,000	10	ND	ND	ND	66	22	17	45	ND	ND	10	13	23.2	97.6	24.4	ND	15.3	ND	ND

EPA = Environmental Protection Agency

NYSDEC = New York State Department of Environmental Conservation AWQS

= Ambient Water Quality Standards

 Annuerin Water Quality Standards
 Micrograms per Liter
 Not detected above laboratory reporting limits
 Quantitated using peak height rather than peak area
 Estimated Concentration Value
 values indicate exceedance of the NYSDEC AWQS μg/L ND H J

Bolded



Table 4

Parameter	EPA - Maximum Allowable (µg/L)	NYSDEC AWQS (µg/L)	Reporting Level (µg/L)	03/25/14	06/11/14	09/08/14	12/04/14	04/08/15	06/03/15	09/16/15	12/03/15	03/04/16	06/09/16	09/21/16	12/07/16	03/08/17	06/07/17	09/21/17	12/06/17	03/21/18	06/07/18
Benzene	5	1	1	ND																	
Toluene	1,000	5	1	ND																	
Ethylbenzene	700	5	1	ND	1.6	ND															
Xylene (total)	10,000	5	2	ND																	
Acenaphthene	N/A	20	4.9	30	43	15 H	26	21	17	36	29	6.3	6.3	23	17.4	3.1	4.30	11.0	6.8	2.3	9.7
Acenaphthylene	N/A	NA	4.9	ND	0.9	0.96	0.2	0.23	0.73	0.54	0.20	0.51									
Anthracene	N/A	NA	4.9	ND	0.17	0.12	0.12	ND	0.11	ND	ND	ND									
Benzo(a)anthracene	N/A	0.002	4.9	ND																	
Benzo(a)pyrene	N/A	ND	4.9	ND																	
Benzo(b)fluoranthene	N/A	0.002	4.9	ND																	
Benzo(g,h,i)perylene	0.2	NA	4.9	ND																	
Benzo(k)fluoranthene	N/A	0.002	4.9	ND																	
Chrysene	N/A	0.002	4.9	ND																	
Cyanide	N/A	200	10	ND																	
Dibenzo(a,h)anthracene	N/A	50	4.9	ND																	
Fluoranthene	N/A	50	4.9	ND	2.1	1.5	0.5	0.62	2.0	1.4	0.71	1.3									
Fluorene	N/A	0.002	4.9	ND	1.5	1.1	0.17	0.35	1.1	0.73	0.25	0.71									
Indeno(1,2,3-cd)pyrene	N/A	50	4.9	ND																	
Naphthalene	N/A	10	4.9	5.1	60	ND	0.2	0.17	ND	ND	0.20	9.1									
Phenanthrene	N/A	50	4.9	ND	1.4	0.94	ND	0.22	0.73	0.43	0.12	0.32									
Pyrene	N/A	50	4.9	ND	2.6	1.9	0.45	0.71	2.4	1.7	0.90	1.7									
Arsenic	N/A	25	10	ND																	
Lead	N/A	25	5	ND																	
Zinc	N/A	2,000	10	ND	ND	ND	0.011	0.011	ND												

EPA = Environmental Protection Agency

NYSDEC = New York State Department of Environmental Conservation AWQS

= Ambient Water Quality Standards

 Annuerin Water Quality Standards
 Micrograms per Liter
 Not detected above laboratory reporting limits
 Quantitated using peak height rather than peak area
 Estimated Concentration Value
 values indicate exceedance of the NYSDEC AWQS μg/L ND H J

Bolded



#### Table 5

#### Discharge Analytical Data

Groundwater Extraction System Effluent Concentrations

Parameter	City of Rome WPCF Permit Max Daily Limit (mg/L)	03/30/15	06/03/15	09/14/15	12/03/15	03/07/16	06/06/16	09/12/16	01/05/17	03/09/17	06/07/17	09/21/17	12/06/17	03/27/18	06/07/18
Benzene	0.13	0.045	0.053	0.04	0.044	0.037	0.063	0.043	0.0393	0.0536	0.0611	0.0360	0.0200	0.0274	0.0315
Ethylbenzene	1.59	0.0021	0.0049	0.0042	0.003	0.0021	0.0049	0.0042	0.0025	0.0045	0.0050	0.0052	0.0019	0.0024	0.0040
Toluene	1.35	0.010	0.0085	0.0013	0.0011	0.0038	0.0087	0.0021	0.0019	0.0028	0.0095	ND (<0.001)	0.0017	0.0025	0.0025
Xylene	1.35	ND (<0.001)	0.0034	ND (<0.001)	ND (<0.001)	ND (<0.001)	0.0011	ND (<0.001)	ND (<0.001)	ND (<0.0030)	0.0034	ND (<0.0030)	ND (<0.0030)	ND (<0.0030)	ND (<0.0030)
Total BTEX	2.87	0.057	0.070	0.05	0.048	0.043	0.078	0.049	0.0437	0.0609	0.0790	0.0412	0.0236	0.0323	0.0379
Arsenic	0.1	ND (<0.010)	ND (<0.0050)	ND (<0.010)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)					
Cadmium	0.11	ND (<0.001)	ND (<0.001)	0.0017	ND (<0.001)	ND (<0.001)	ND (<0.001)	ND (<0.0030)	ND (<0.0025)	ND (<0.0030)					
Chromium	2.77	ND (<0.0040)	ND (<0.0040)	ND (<0.0040)	ND (<0.0040)	ND (<0.0040)	ND (<0.0040)	ND (<0.0050)	ND (<0.010)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)
Copper	1.3	ND (<0.010)	ND (<0.0050)	ND (<0.025)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)					
Cyanide	1.2	0.081	0.074	0.075	0.075	0.11	0.11	0.062	ND (<0.010)	0.090	0.084	0.056	0.074	0.069	0.070
Lead	1.1	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)
Mercury	0.2	ND (<0.00020)	ND (<0.00020)	ND (<0.00020)	ND (<0.00020)	ND (<0.00020)	ND (<0.00020)	ND (<0.00020)	ND (<0.00020)	ND (<0.00020)	ND (<0.00020)	ND (<0.00020)	ND (<0.00020)	ND (<0.00020)	ND (<0.00020)
Nickel	1.9	ND (<0.010)	ND (<0.04)	ND (<0.010)											
Silver	0.43	ND (<0.0030)	ND (<0.0030)	ND (<0.0030)	ND (<0.0030)	ND (<0.0030)	ND (<0.0030)	ND (<0.0060)	ND (<0.010)	ND (<0.0060)	ND (<0.0060)	ND (<0.0060)	ND (<0.0060)	ND (<0.0060)	ND (<0.0060)
Zinc	2.6	ND (<0.010)	ND (<0.010)	ND (<0.010)	0.018	0.018	0.018	ND (<0.010)	0.0241	ND (<0.010)					
Oil & Grease	100	ND (<5.0)	NS												
CBOD5	250	ND (<2.0)	NS												
рН	5.5 - 11.5 su	7.01	7.08	6.88	6.98	7.06	6.91	6.8	6.8	6.7	6.9	6.8	6.8	6.8	6.7

Results in mg/L.

mg/L = Milligrams per Liter
WPCF = Water Pollution Control Facility

NS = Not Sampled NA = Not Analyzed



# **Appendix A – Field Inspection Report**

## FIELD INSPECTION REPORT

Former MGP Site Kingsley Avenue Rome, New York

Date:	6/7/2018	Time:	8:00
Technician:	KL	Weather:	Sunny 52°

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

	Vegetati	on (Surface (	Cover Systen	1)
Condition of Grass	GOOD	FAIR	POOR	COMMENTS:
Site Trees	NONE	MINOR	SIGNIFICANT	COMMENTS:
Surface Erosion	NONE	MINOR	SIGNIFICANT	COMMENTS:

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

	Drainage Systems									
Rip Rap Area	Culvert	UNOBSTRUC	CTED	ОВ	STRUCTED					
	Flow	NONE	LIT	TLE	SIGNIFICANT	COMMENTS:				
	Outlet Channel	OPERATIO	NAL	NON-C	PERATIONAL	COMMENTS:				

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

#### **General Comments:**

2018 2<sup>nd</sup> Quarter OM&M Report National Grid Rome Former MGP Site 233 Kingsley Avenue, Rome, NY 13440



# Appendix B – Quarterly Gauging and Containment Data

Well ID	Sample ?	Well Size	DTW	DTP	DTB	Comments
MW-OU2-1	No	4"	9.53	42.85	45.81	Removed 3 gallons of DNAPL
MW-OU2-2	No	4"	10.25	47.20	47.53	
MW-OU2-3	No	4"	7.90	NP	34.18	
MW-OU2-4	No	4"	6.90	34.80	39.55	Removed 4 gallons of DNAPL
MW-OU2-5	No	4"	7.56	NP	36.01	
DNAPL-02	No	6"	9.70	NP	50.40	
DNAPL-03	No	6"	10.00	49.20	52.32	Removed 2 gallons of DNAPL
DNAPL-04	No	6"	11.26	NP	51.45	
DNAPL-05	No	6"	13.34	NP	54.75	
DNAPL-06	No	6"	12.33	NP	54.45	
DNAPL-07	No	6"	13.18	NP	53.60	
DNAPL-08	No	6"	13.61	NP	58.01	
DNAPL-09	No	6"	14.50	NP	57.58	
VTM-1	No	6"	12.14	NP	46.37	
VTM-2	No	6"	10.46	NP	49.47	
VTM-3	No	6"	11.62	NP	50.91	
VTM-4	No	6"	13.61	NP	50.62	
VTM-5	No	6"	13.75	NP	52.52	
LTMW-D01	Yes	2"	8.55	NP	46.84	
LTMW-S01	Yes	2"	8.70	NP	16.96	
LTMW-D02	Yes	2"	10.35	NP	40.29	
LTMW-S02	Yes	2"	10.32	NP	17.98	
LTMW-D03	Yes	2"	5.14	NP	40.73	
LTMW-S03	Yes	2"	4.11	NP	13.70	
LTMW-D04	Yes	2"	9.78	NP	46.36	
LTMW-S04	Yes	2"	9.48	NP	17.26	
LTMW-D05	Yes	2"	9.47	NP	46.53	
LTMW-S05	Yes	2"	9.64	NP	16.83	
LTMW-D06	Yes	2"	12.42	NP	52.22	
LTMW-S06	Yes	2"	13.26	NP	17.60	
LTMW-S07	Yes	2"	11.06	NP	17.82	
LTMW-S08	Yes	2"	15.70	NP	17.39	
LTMW-S09	Yes	2"	10.10	NP	16.92	
LTMW-S10	Yes	2"	10.64	NP	17.18	

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



# **Appendix C – Well Sampling Field Data**

Well ID	Sample ?	Well Size	DTW	DTP	DTB	Comments
MW-OU2-1	No	4"	9,53	42.85	45.81	30g removed
MW-OU2-2	No	4"	10.25	47-20	47.53	NO PUR GE
MW-OU2-3	No	4"	7.90		34.18	
MW-OU2-4	No	10.90-	4.65	34-80	39.55	4 (ALG REMOVA)
MW-OU2-5	No	4"	7.56		36.01	100
		1 138 189 241				
DNAPL-02	No	6"	9.70		50.40	
DNAPL-03	No	6"	10.00	49,2	52.32	Product removed 2
DNAPL-04	No	6"	11.26		51.45	
DNAPL-05	No	6"	13.34		54.75	
DNAPL-06	No	6"	12,33		51.45	
DNAPL-07	No	6"	13.18		53.60	
DNAPL-08	No	6"	13.61		58.01	
DNAPL-09	No	6"	14.50		57.58	
VTM-1	No	6"	12.14		46.37	
VTM-2	No	6"	10.46		49.47	
VTM-3	No	6"	11.62		50.91	
VTM-4	No	6"	13.61		50.62	
VTM-5	No	6"	13,75		52.52	
0						
LTMW-D01	Yes	2"	9.35		46.84	
LTMW-S01	Yes	2"	8.70		16.92	
LTMW-D02	Yes	2"	10.35		40.29	
LTMW-S02	Yes	2"	10.32		17.98	
LTMW-D03	Yes	2"	5.14		40.73	
LTMW-S03	Yes	2"	4.11		13.70	
LTMW-D04	Yes	2"	9.78		46.36	
LTMW-S04	Yes	2"	9.49		17.26	
LTMW-D05	Yes	2"	947		46.53	***
LTMW-S05	Yes	2"	964		16.83	
LTMW-D06	Yes	2"	12.42		52.22	
LTMW-S06	Yes	2"	13.24		17.60	
LTMW-S07	Yes	2"	11.00		17.82	
LTMW-S08	Yes	2"	15.70		17.39	
LTMW-S09	Yes	2"	10.10		16.92	Dup
LTMW-S10	Yes	2"	10.64		17.18	MS/MSD

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

Kingsley Avenue, Rome, Ne	W TOIK						
Sampling Personnel:	20			Date:	6/7/18		
Job Number: 06-03000-13	34400-221			Weather		01	
Well Id. LTMW-D01				Time In:	0310	Time Out	: 0450
Well Information	·						
Donath to Materi	<i>""</i> "	TOC	Other	Well Typ		shmount	Stick-Up
Depth to Water:  Depth to Bottom:	(feet)	8.55 46.84		Well Loc	g Point Marked:	Yes Yes	No No
Depth to Product:	(feet)	NP		Well Mat			her:
Length of Water Column:	(feet)	38.29		Well Dia	meter: 1"	2" Ot	her:
Volume of Water in Well:	(gal)	6		Commer	nts:		
Three Well Volumes:	(gal)	िष्ठ				1.5000	
				**************************************			
Purging Information							10 Maria
- unging intermediati	•					Conversion I	Factors
Purging Method:	Bailer	Peristalti	ic Grund	fos Pump	gal/ft.	1" ID 2" ID	4" ID 6" ID
Tubing/Bailer Material:	Teflon			yethylene	of		0.00 4.47
Sampling Method:	Bailer		ic Grund	fos Pump	water	0.04 0.16	
Average Pumping Rate:  Duration of Pumping:	(ml/min) (min)	30			1 gail	on=3.785L=3785r	nL=1337cu. feet
Total Volume Removed:	(gal)		Did well go dry?	Yes	10		
Horiba U-52 Water Quality N			s No				
Tioriba o oz vrator dadity i	notor ocoa.						
Time DTW	Temp	рН	ORP	Conductivity	/ Turbidity	DO	TDS
Time DTW (feet)	Temp (°C)	рН	(mV)	Conductivity (mS/cm)	(NTU)	DO (mg/L)	(g/L)
(feet)	(°C)	9.69	(mV)	(mS/cm)	(NTU) 2.2	(mg/L)	(g/L) 0,235
0915 10.65 0920 12.20	(°C) 10.35 10.79	9.69	(mV) -120 -143	(mS/cm) 0.361 0.347	(NTU) 2.2 3.0	(mg/L)	(g/L) 0,235 0,225
0915 10-65 0920 12-20 0925 14-18	(°C) 10.35 10.79 (0,91	9.69	(mV) -120 -143 -160	(mS/cm) 01361 01347 0340	(NTU) 2.2 3.0 2.1	(mg/L)  O O  O O	(g/L) 0,235 0,225 0,221
(feet)  0815 10-65  0820 1220  0825 1418  0830 1548	(°C) 10.35 10.79	9.69 9.67 9.70 9.68	(mV) -120 -143	(mS/cm) 0.361 0.347 0.340 0.336	(NTU) 2.2 3.0 2.1 2.7	(mg/L)	(g/L) 0,235 0,225
(feet)  0815 10.65  0810 12.20  0825 14.18  0830 15.48  0835 17.20  0840 18.40	(°C) 10.35 10.79 10.91 11.70 11.50 11.49	9.69 9.67 9.70 9.68	(mV) -120 -143 -160 -171 -180 -183	(mS/cm) 0.361 0.347 0.340 0.336 0.334 0.334	(NTU) 2.2 3.0 2.1 2.7 2.7 2.0 2.2	(mg/L)  O O  O O	(g/L) 0,235 0,225 0,221 0,219 0,217 0:217
(feet)  0915 10-65  0910 12-20  9325 14-18  0830 15-48  0835 17-20	(°C) 10.35 10.79 10.91 11.70 11.50	9.69 9.67 9.70 9.68 9.70	(mV) -120 -143 -160 -171 -180	(mS/cm) 0.361 0.347 0.340 0.336	(NTU) 2.2 3.0 2.1 2.7 2.7	(mg/L)  O O  O O  O O	(g/L) 0,235 0,225 0,221 0,217
(feet)  0815 10.65  0810 12.20  0825 14.18  0830 15.48  0835 17.20  0840 18.40	(°C) 10.35 10.79 10.91 11.70 11.50 11.49	9.69 9.67 9.70 9.68 9.70 9.69	(mV) -120 -143 -160 -171 -180 -183	(mS/cm) 0.361 0.347 0.340 0.336 0.334 0.334	(NTU) 2.2 3.0 2.1 2.7 2.7 2.0 2.2	(mg/L)  O O  O O  O O  O O	(g/L) 0,235 0,225 0,221 0,219 0,217 0:217
(feet)  0815 10.65  0810 12.20  0825 14.18  0830 15.48  0835 17.20  0840 18.40	(°C) 10.35 10.79 10.91 11.70 11.50 11.49	9.69 9.67 9.70 9.68 9.70 9.69	(mV) -120 -143 -160 -171 -180 -183	(mS/cm) 0.361 0.347 0.340 0.336 0.334 0.334	(NTU) 2.2 3.0 2.1 2.7 2.7 2.0 2.2	(mg/L)  O O  O O  O O  O O	(g/L) 0,235 0,225 0,221 0,219 0,217 0:217
(feet)  0815 10.65  0810 12.20  0825 14.18  0830 15.48  0835 17.20  0840 18.40	(°C) 10.35 10.79 10.91 11.70 11.50 11.49	9.69 9.67 9.70 9.68 9.70 9.69	(mV) -120 -143 -160 -171 -180 -183	(mS/cm) 0.361 0.347 0.340 0.336 0.334 0.334	(NTU) 2.2 3.0 2.1 2.7 2.7 2.0 2.2	(mg/L)  O O  O O  O O  O O	(g/L) 0,235 0,225 0,221 0,219 0,217 0:217
(feet)  0815 10.65  0810 12.20  0825 14.18  0830 15.48  0835 17.20  0840 18.40	(°C) 10.35 10.79 10.91 11.70 11.50 11.49	9.69 9.67 9.70 9.68 9.70 9.69	(mV) -120 -143 -160 -171 -180 -183	(mS/cm) 0.361 0.347 0.340 0.336 0.334 0.334	(NTU) 2.2 3.0 2.1 2.7 2.7 2.0 2.2	(mg/L)  O O  O O  O O  O O	(g/L) 0,235 0,225 0,221 0,219 0,217 0:217
(feet)  0815 10.65  0810 12.20  0825 14.18  0830 15.48  0835 17.20  0840 18.40	(°C) 10.35 10.79 10.91 11.70 11.50 11.49	9.69 9.67 9.70 9.68 9.70 9.69	(mV) -120 -143 -160 -171 -180 -183	(mS/cm) 0.361 0.347 0.340 0.336 0.334 0.334	(NTU) 2.2 3.0 2.1 2.7 2.7 2.0 2.2	(mg/L)  O O  O O  O O  O O	(g/L) 0,235 0,225 0,221 0,219 0,217 0:217
(feet)  0815 10-65  0820 12-20  0825 14-18  0830 15-48  0835 17-20  0840 18-40  0845 18-46	(°C) 10.35 10.79 10.91 11.70 11.50 11.49	9.69 9.67 9.70 9.68 9.70 9.69	(mV) -120 -143 -160 -171 -180 -183	(mS/cm) 0.361 0.347 0.340 0.336 0.334 0.334	(NTU) 2:12 3:0 2:1 2:17 2:17 2:14	(mg/L)  O O O  O O  O O  O O  O O	(g/L) 0,235 0,225 0,221 0,219 0,217 0,217 0,217
(feet)  0915 10-65  0920 12-20  0925 14-18  0830 15-48  0835 17-20  0940 18-40  0945 18-46  Sampling Information:  EPA SW-846 Method 8270	(°C) 10.35 10.79 10.91 11.70 11.50 11.49 11.54	9.69 9.67 9.70 9.70 9.70 9.70	(mV) -120 -143 -160 -171 -180 -183	(mS/cm) 0.361 0.347 0.340 0.336 0.334 0.334	(NTU) 2:2 3:0 2:1 2:7 2:7 2:7 2:14	(mg/L)  O O O O O O O O O O O O O O O O O O O	(g/L) 0,235 0,225 0,221 0,219 0,217 0,217 0,217
(feet)  0815 10-65  0820 12-20  0825 14-18  0830 15-48  0835 17-20  0840 18-40  0845 18-45  Sampling Information:  EPA SW-846 Method 8270  EPA SW-846 Method 8260	(°C) 10.35 10.79 10.91 11.70 11.50 11.49 11.54	9.69 9.64 9.70 9.68 9.70 9.70	(mV) -120 -143 -160 -171 -180 -183	(mS/cm) 0.361 0.347 0.340 0.336 0.334 0.334	(NTU) 2.12 3.0 2.1 2.7 2.7 2.7 2.7 2.14  2-1 liter amber 3-40 ml vials	(mg/L)  OOO  OOO  OOO  OOO  OOO  OOO  OOO	(g/L) 0,235 0,225 0,221 0,219 0,217 0,217 0,217 0,217
(feet)  0915 10-65  0920 12-20  0925 14-18  0830 15-48  0845 17-20  0940 18-40  0845 18-46  EPA SW-846 Method 8270  EPA SW-846 Method 8260  EPA Method 335.4	(°C) 10.35 10.79 10.91 11.70 11.50 11.49 11.54	9.69 9.63 9.70 9.70 9.70 9.70	(mV) -120 -143 -160 -171 -180 -183	(mS/cm) 0.361 0.347 0.340 0.336 0.334 0.334	(NTU) 2.12 3.0 2.17 2.17 2.17 2.19 2.14  2-1 liter ambe 3-40 ml vials 1-250 ml plas	(mg/L)  O O O O O O O O O O O O O O O O O O O	(g/L) 0,235 0,225 0,221 0,219 0,217 0,217 0,217 0,216
(feet)  0815 10-65  0820 12-20  0825 14-18  0830 15-48  0835 17-20  0840 18-40  0845 18-45  Sampling Information:  EPA SW-846 Method 8270  EPA SW-846 Method 8260	(°C) 10.35 10.79 10.91 11.70 11.49 11.54 SVOC P	9.69 9.63 9.70 9.70 9.70 9.70	(mV) -120 -143 -160 -171 -180 -183	(mS/cm) 0.361 0.347 0.340 0.336 0.334 0.334	(NTU) 2.12 3.0 2.1 2.7 2.7 2.7 2.7 2.14  2-1 liter amber 3-40 ml vials	(mg/L)  O O O O O O O O O O O O O O O O O O O	(g/L) 0,235 0,225 0,221 0,217 0,217 0,217 0,217 No No No
(feet)   0915   10-65   0920   12-70	(°C) 10.35 10.79 10.91 11.70 11.50 11.49 11.54  SVOC P VOC's E Cyanic Metal	9.69 9.63 9.70 9.70 9.70 9.70	(mV) -120 -143 -160 -171 -180 -184	(mS/cm) 0:361 0:347 0:340 0:336 0:334 0:334	(NTU) 2.7 3.0 2.1 2.7 2.7 2.7 2.7 2.7 2.7 2.7 2.7 2.7 2.7	ers Yes tic Yes ace Courier Pick	(g/L) 0,235 0,225 0,221 0,217 0,217 0,217 0,217 0,217 0,217 0,217 0,217 0,217
(feet)   0915   10-65   0920   12-70	(°C) 10.35 10.79 10.91 11.70 11.50 11.49 11.54  SVOC P VOC's E Cyanic Metal	9.69 9.63 9.70 9.70 9.70 9.70	(mV) -120 -143 -160 -171 -180 -183 -184	(mS/cm) 0:361 0:347 0:340 0:336 0:334 0:334	(NTU) 2.7 3.0 2.1 2.7 2.7 2.7 2.7 2.7 2.7 2.7 2.7 2.7 2.7	(mg/L)  OOO  OOO  OOO  OOO  OOO  OOO  OOO	(g/L) 0,235 0,225 0,221 0,217 0,217 0,217 0,217 0,217 0,217 0,217 0,217 0,217
(feet)   0915   10-65   0920   12-70	(°C) 10.35 10.79 10.91 11.70 11.50 11.49 11.54  SVOC P VOC's E Cyanic Metal	9.69 9.63 9.70 9.70 9.70 9.70	(mV) -120 -143 -160 -171 -180 -184	(mS/cm) 0:361 0:347 0:340 0:336 0:334 0:334	(NTU) 2.7 3.0 2.1 2.7 2.7 2.7 2.7 2.7 2.7 2.7 2.7 2.7 2.7	ers Yes tic Yes ace Courier Pick	(g/L) 0,235 0,225 0,221 0,217

Kingsley Avenue, Rome	,						
Sampling Personnel:	K			Date: (	17/18	N-44-11	
	0-134400-221			Weather:	51241	Sol	
Well Id. LTMW-S0				Time In:	0:20	Time Out	1920V
	22					Time Gai	$U \cap U$
Well Information							
		TOC	Other	Well Type		ushmount	Stick-Up
Depth to Water:  Depth to Bottom:	(feet)	9-70 16.92		Well Lock		Yes	No
Depth to Product:	(feet)	WP		Well Mate	Point Marked: rial: PV0	Yes X	No ther:
Length of Water Column		8.22		Well Diam			ther:
Volume of Water in Wel		1.31		Comments	3:		
Three Well Volumes:	(gal)	3.94					
Purging Information							
Targing information						Conversion	Factors
Purging Method:	Baile	Peristaltic	Grund	fos Pump	gal/ft.	411.15	
Tubing/Bailer Material:	Teflor	Stainless St	. Pol	yethylene	of		
Sampling Method:	Baile		Grund	fos Pump	water		
Average Pumping Rate:	(ml/min)	200 30			1 ga	llon=3.785L=3785	mL=1337cu. feet
Duration of Pumping: Total Volume Removed:	(min) (gal)		oid well go dry?	Yes No			
-				Les			
Horiba U-52 Water Qual	ity Meter Used?	Yes	No No				
Timb DTW	Tomp	I 5U	I OPP	Conductivity	Turbidity	I po	T TDS II
Time DTW	Temp (°C)	рН	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/l )	TDS (g/L)
Time DTW (feet)	(°C)		(mV)	(mS/cm)	(NTU)	(mg/L)	TDS (g/L)
9:20 8:77 8:25 8:79	(°C) (0.96 10.91	pH 7-02 6-95			100 Carrier Communication (1997)	100 100 100	
(feet) 9:20 9:77 9:20 9:77 9:30 9:79	(°C) 10.96 10.69	7-02	(mV) -137 -113	(mS/cm) 0-905 0-899 0-896	(NTU) 50.2 46.0	(mg/L) / 3-7ご	(g/L) 0529
9:20 8:77 8:25 8:79	(°C) 10.96 10.601 10.601	7.02	(mV) -137 -113	(mS/cm) 0-905 0-899 0-896 0-897	(NTU) 50.2 46.0	(mg/L) 13-70 6-21 0-00 0-00	(g/L) 0579 0.575
(feet) 9:20 9:77 9:20 9:79 9:30 9:79 9:35 9:79 0:40 9:79	(°C) 10.96 10.67 10.65 10.65	7-02	(mV) -134 -113 -111 -116	(mS/cm) 0-905 0-899 0-896	(NTU) 50.2 46.0	(mg/L) 13.70 6.21 0.00 0.00 0.00	(g/L) 0579 0.575
(feet) 9:20 9:77 9:27 9:70 9:30 9:79	(°C) 10.96 10.69 10.69 10.63 10.63	7.02	(mV) -134 -113 -111 -116 -113 -116	(mS/cm) 0-905 0-899 0-899 0-897 0-897 0-899	(NTU) 50.2 46.0	(mg/L) 13-70 6-21 0-00 0-00 0-00 0-00	(g/L) 0579 0.575
(feet) 9:20 9:77 6:25 9:79 6:35 9:79 0:10 9:79 9:15 6:79	(°C) 10.96 10.67 10.65 10.65	7.02	(mV) -134 -113 -111 -116	(mS/cm) 0-905 0-899 0-896 0-897	(NTU) 50.2 46.0	(mg/L) 13.70 6.21 0.00 0.00 0.00	(g/L) 0579 0.575
(feet) 9:20 9:77 6:25 9:79 6:35 9:79 0:10 9:79 9:15 6:79	(°C) 10.96 10.69 10.69 10.63 10.63	7.02	(mV) -134 -113 -111 -116 -113 -116	(mS/cm) 0-905 0-899 0-899 0-897 0-897 0-899	(NTU) 50.2 46.0	(mg/L) 13-70 6-21 0-00 0-00 0-00 0-00	(g/L) 0579 0.575
(feet) 9:20 9:77 6:25 9:79 6:35 9:79 6:35 8:79 0:10 9:79	(°C) 10.96 10.69 10.69 10.63 10.63	7.02	(mV) -134 -113 -111 -116 -113 -116	(mS/cm) 0-905 0-899 0-899 0-897 0-897 0-899	(NTU) 50.2 46.0	(mg/L) 13-70 6-21 0-00 0-00 0-00 0-00	(g/L) 0579 0.575
(feet) 9:20 9:77 6:25 9:79 6:35 9:79 0:10 9:79 9:15 6:79	(°C) 10.96 10.69 10.69 10.63 10.63	7.02	(mV) -134 -113 -111 -116 -113 -116	(mS/cm) 0-905 0-899 0-899 0-897 0-897 0-899	(NTU) 50.2 46.0	(mg/L) 13-70 6-21 0-00 0-00 0-00 0-00	(g/L) 0579 0.575
(feet) 9:20 9:77 9:24 9:77 9:25 9:79 9:35 9:79 9:35 9:79 9:45 6:79 9:50 9:79	(°C) 10.96 10.69 10.69 10.63 10.63	7.02	(mV) -134 -113 -111 -116 -113 -116	(mS/cm) 0-905 0-899 0-899 0-897 0-897 0-899	(NTU) 50.2 46.0	(mg/L) 13-70 6-21 0-00 0-00 0-00 0-00	(g/L) 0579 0.575
(feet) 9:20 9:77 6:25 9:79 6:35 9:79 0:10 9:79 9:15 6:79	(°C) 10.96 10.69 10.69 10.63 10.63	7.02	(mV) -134 -113 -111 -116 -113 -116	(mS/cm) 0-905 0-899 0-899 0-897 0-897 0-899	(NTU) 50.2 46.0	(mg/L) 13-70 6-21 0-00 0-00 0-00 0-00	(g/L) 0579 0.575
(feet) 9:20 9:77 9:24 9:77 9:25 9:79 9:35 9:79 9:35 9:79 9:45 6:79 9:50 9:79	(°C) (0.96 10.65 10.65 10.65 10.65 10.65	7.02 6.95 7.01 7.09 7.11 7.13	(mV) -134 -113 -111 -116 -113 -116	(mS/cm) 0-905 0-899 0-899 0-897 0-897 0-899	(NTU) 50.2 46.0 7.3 7.3 4.9 4.2	(mg/L) 13.70 6.21 0.00 0.00 0.00 0.00 0.00	(g/L) 0.529 0.575 0.575 0.575 0.575
(feet)  9:20 9:77 9:27 9:27 9:35 9:79 9:35 9:79 9:50 9:79	(°C) (0.96 10.21 10.67 10.63 10.63 10.63	7.02 6.95 7.01 7.09 7.11 7.13	(mV) -134 -113 -111 -116 -113 -116	(mS/cm) 0-905 0-899 0-899 0-897 0-897 0-899	(NTU) 50.2 46.0	(mg/L) 13-70 6-21 0-00 0-00 0-00 0-00 0-00	(g/L) 0579 0.575 0.575 0.575 0.575
(feet)  9:20 9:77 9:27 9:39 9:39 9:39 9:39 9:39 9:39 9:39 9:3	(°C) (0.96 10.20 10.65 10.65 10.65 10.65	7.02 6.95 7.01 7.09 7.11 7.13	(mV) -134 -113 -111 -116 -113 -116	(mS/cm) 0-905 0-899 0-899 0-897 0-897 0-899	(NTU) 50.2 46.0 13.0 9.3 7.3 4.9 61.2	(mg/L) 13-70 6-21 0-00 0-00 0-00 0-00 0-00 0-00 0-00 0	(g/L) 0529 0.575 0.575 0.575 0.575 0.575
(feet) 9:20 9:77 8:27 9:79 8:35 8:79 9:35 8:79	(°C) (0.96 10.67 10.63 10.63 10.63 10.63 10.63 VOCS 270 SVOC F Cyanic Meta	7.02 (0.95 7.01 7.09 7.11 7.13 PAH's BTEX de	(mV) -134 -113 -111 -116 -113 -116	(mS/cm) 0-905 0-899 0-899 0-897 0-897 0-899	(NTU) 50.2 46.0 13.0 9.3 7.3 4.9 4.2	(mg/L)  13-70  6-21  0-00  0-00  0-00  0-00  0-00  8-00  9-0	(g/L) 0529 0.575 0.575 0.575 0.575 0.575
(feet)  9:20 9:77 9:27 9:39 9:79 9:35 9:79 9:35 9:79 9:35 9:79 9:35 9:79 9:35 9:79 9:35 8:79 9:79 9:79 9:79 9:79 9:79 9:79 9:79	(°C) (°C)	7.02 1.95 7.01 7.09 7.06 7.11 7.13 PAH's BTEX de ls	(mV) -134 -113 -111 -116 -116 -116	(mS/cm) 0-905 0-899 0-899 0-899 0-899 0-899	(NTU) 50-2 46-0 13-0 9-3 7-3 4-9 67-2 2-1 liter amb 3-40 ml vial 1-250 ml plas 1-250 ml plas	ers Yes stic Yes	(g/L) 0529 0575 0575 0575 0575 0575 0575 0575 0575
Sampling Information:  EPA SW-846 Method 8 EPA Method 335.4 EPA Method 200.7  Sample ID: LTMW-S	(°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C)	7.02 (0.95 7.01 7.09 7.06 7.11 7.13 PAH's BTEX de ls	(mV) -134 -113 -111 -116 -113 -116	(mS/cm) 0-905 0-899 0-899 0-899 0-899 0-899	(NTU)  50-2  46-0  73-0  7-3  4-9  4-9  4-9  4-2  2-1 liter amborates and a second	ers Yes stic Yes ace Courier Pick	(g/L) 0529 0575 0575 0575 0575 0575 0575
Sampling Information:  EPA SW-846 Method 8 EPA Method 335.4 EPA Method 200.7  Sample ID: LTMW-S	(°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C)	7.02 (0.95 7.01 7.09 7.06 7.11 7.13 PAH's BTEX de ls	(mV) -137 -113 -111 -116 -116 -117	(mS/cm) 0-905 0-899 0-899 0-899 0-899 0-899	(NTU)  50-2  46-0  73-0  7-3  4-9  4-9  4-9  4-2  2-1 liter amborates and a second	ers Yes stic Yes	(g/L) 0529 0575 0575 0575 0575 0575 0575 0575

Sampling Pe	rsonnel:	PO			Date:	617/13		
Job Number:	06-03000-13	34400-221			Weath	er: 550_ So	N	
Well Id.	LTMW-D02				Time I	n: 0855	Time Out	: 6945
Well In	formation							
			TOC	Other	Well T		shmount	Stick-Up
Depth to Wat		(feet)	10.35		Well L		Yes	No
Depth to Bott		(feet)	40.29			ring Point Marked: laterial: PVC	Yes X Ot	No her:
Length of Wa		(feet)	29,94			iameter: 1"		her:
Volume of W		(gal)	4,7		Comm			
Three Well V	olumes:	(gal)	14.37		P		17.74	x 10 x
	awe				A service of the serv		4	
Purging I	nformation	•						
Purging Meth	od:	Baile	r Peristaltic	. Carran	fos Pump	1	Conversion I	4" ID 6" ID
Tubing/Bailer		Teflor			yethylene	gal/ft.	1 10 2 10	4 10 0 10
Sampling Me		Baile	$\vdash$		fos Pump	water	0.04 0.16	0.66 1.47
Average Pum	-	(ml/min)				1 gall	on=3.785L=3785r	nL=1337cu. feet
Duration of P		(min)				. —		
Total Volume	Removed:	(gal)		id well go dry?	Yes	No		
Horiba U-52 \	Water Quality N	Neter Used?	Yes	No _				
			4					
Time	DTW	Temp	рН	ORP	Conductiv	200	DO	TDS
	(feet)	(°C)		(mV)	(mS/cm	) (NTU)	(mg/L)	(g/L)
0905	(feet)	(°C)	8.68	(mV)	(mS/cm	) (NTU) 7 10.0	(mg/L)	(g/L) 0.404
0905	(feet)	(°C) 13.44 12.54	8.68	(mV) -106 -90	(mS/cm 0-62 0-186	) (NTU) 7 10.0 1 5.7	(mg/L) 11.01 9.28	(g/L) 0.404 0.423
0905	(feet)	(°C) 13 44 12:54 12:17	8.68	(mV) -106 -90 -90	(mS/cm 0-62 0-66 0-66	(NTU) 7 10.0 1 5.7 6 6.0	(mg/L) 11.01 9.28 7.88	(g/L) 0.404 0.423 0.425
0905	(feet) 11.21 12.10 12.90 13.20	(°C) 13.44 12.54	8.63 8.63 8.63	(mV) -106 -90	(mS/cm 0.62 0.66 0.66 0.66	) (NTU) 7 10.0 1 5.7 6 6.0 5 4.7	(mg/L) 11.01 9.28 7.88 7.18	(g/L) 0.404 0.423 0.425 0.426
0905 0910 0915 0920 0925	(feet) 11.21 12.10 12.10 12.90 13.20 13.30 13.40	(°C) 13.44 12.54 12.17 12.21 12.14 12.16	8.68	(mV) -106 -90 -90 -90 -91 -90	(mS/cm 0-62- 0-166 0-166 0-166	) (NTU) 7 10.0 1 5.7 5 4.0 6 5.5	(mg/L) 11.01 9.28 7.88	(g/L) 0.404 0.423 0.425
0905 0910 0915 0920	(feet) 11.2.10 12.10 12.90 13.20 13.30	(°C) 13.44 12.54 12.17 12.17 12.11	8.63 8.53 8.53 8.55	(mV) -106 -90 -90 -91 -91	(mS/cm 0.62 0.66 0.66 0.66	(NTU) 7 10.0 1 5.7 5 6.0 5 4.7 6 5.5 0 5.8	(mg/L) 11.01 9.28 7.88 7.18 6.67	(g/L) 0.404 0.423 0.425 0.426 0.428
0905 0910 0915 0920 0925	(feet) 11.21 12.10 12.10 12.90 13.20 13.30 13.40	(°C) 13.44 12.54 12.17 12.21 12.14 12.16	8.63 8.53 8.53	(mV) -106 -90 -90 -90 -91 -90	(mS/cm 0.62 0.66 0.66 0.66 0.66 0.66	(NTU) 7 10.0 1 5.7 5 6.0 5 4.7 6 5.5 0 5.8	(mg/L) 11.01 9.28 7.88 7.18 6.62 6.02	(g/L) 0.404 0.423 0.425 0.426 0.428 0.429
0905 0910 0915 0920 0925	(feet) 11.21 12.10 12.10 12.90 13.20 13.30 13.40	(°C) 13.44 12.54 12.17 12.21 12.14 12.16	8.63 8.53 8.53	(mV) -106 -90 -90 -90 -91 -90	(mS/cm 0.62 0.66 0.66 0.66 0.66 0.66	(NTU) 7 10.0 1 5.7 5 6.0 5 4.7 6 5.5 0 5.8	(mg/L) 11.01 9.28 7.88 7.18 6.62 6.02	(g/L) 0.404 0.423 0.425 0.426 0.428 0.429
0905 0910 0915 0920 0925	(feet) 11.21 12.10 12.10 12.90 13.20 13.30 13.40	(°C) 13.44 12.54 12.17 12.21 12.14 12.16	8.63 8.53 8.53	(mV) -106 -90 -90 -90 -91 -90	(mS/cm 0.62 0.66 0.66 0.66 0.66 0.66	(NTU) 7 10.0 1 5.7 5 6.0 5 4.7 6 5.5 0 5.8	(mg/L) 11.01 9.28 7.88 7.18 6.62 6.02	(g/L) 0.404 0.423 0.425 0.426 0.428 0.429
0905 0910 0915 0920 0925	(feet) 11.21 12.10 12.10 12.90 13.20 13.30 13.40	(°C) 13.44 12.54 12.17 12.21 12.14 12.16	8.63 8.53 8.53	(mV) -106 -90 -90 -90 -91 -90	(mS/cm 0.62 0.66 0.66 0.66 0.66 0.66	(NTU) 7 10.0 1 5.7 5 6.0 5 4.7 6 5.5 0 5.8	(mg/L) 11.01 9.28 7.88 7.18 6.62 6.02	(g/L) 0.404 0.423 0.425 0.426 0.428 0.429
0905 0910 0915 0920 0925 0930 0935	(feet) 11.21 12.10 12.90 13.20 13.30 13.40 13.47	(°C) 13.44 12.54 12.17 12.21 12.14 12.16	8.63 8.53 8.53	(mV) -106 -90 -90 -90 -91 -90	(mS/cm 0.62 0.66 0.66 0.66 0.66 0.66	(NTU) 7 10.0 1 5.7 5 6.0 5 4.7 6 5.5 0 5.8	(mg/L) 11.01 9.28 7.88 7.18 6.62 6.02	(g/L) 0.404 0.423 0.425 0.426 0.428 0.429
0905 0910 0915 0920 0925	(feet) 11.21 12.10 12.90 13.20 13.30 13.40 13.47	(°C) 13.44 12.54 12.17 12.21 12.14 12.16	8.63 8.53 8.53	(mV) -106 -90 -90 -90 -91 -90	(mS/cm 0.62 0.66 0.66 0.66 0.66 0.66	(NTU) 7 10.0 1 5.7 5 6.0 5 4.7 6 5.5 0 5.8	(mg/L) 11.01 9.28 7.88 7.18 6.62 6.02	(g/L) 0.404 0.423 0.425 0.426 0.428 0.429
0905 0910 0915 0920 0935 0935	(feet) 11.21 12.10 12.90 13.20 13.30 13.40 13.47	(°C) 13.44 12.54 12.17 12.21 12.14 12.16	8.63 8.63 8.63 8.55 8.55	(mV) -106 -90 -90 -90 -91 -90	(mS/cm 0.62 0.66 0.66 0.66 0.66 0.66	(NTU) 7 10.0 1 5.7 5 6.0 5 4.7 6 5.5 0 5.8	(mg/L) 11.01 9.28 7.88 7.18 6.62 6.02 6.00	(g/L) 0.404 0.423 0.425 0.426 0.428 0.427 0.427
0905 0910 0915 0920 0930 0935 Sampling Inf	(feet) 11.21 12.10 12.10 13.20 13.30 13.40 13.45	(°C) 13.44 12.17 12.17 12.14 12.16 12.18	8.63 8.53 8.53 8.53 8.53	(mV) -106 -90 -90 -90 -91 -90	(mS/cm 0.62 0.66 0.66 0.66 0.66 0.66	) (NTU) 7 10.0 1 5.7 5 4.0 5 4.7 6 5.5 0 5.8 8 6.0	(mg/L) 11.01 9.28 7.88 7.18 6.62 6.00	(g/L) 0.404 0.423 0.425 0.426 0.428 0.427 0.427
0905 0910 0915 0920 0925 0930 0935 Sampling Int	(feet)   1/21    2/10    2/90    3/20    3/30    3/40    3/40    3/40    46 Method 8270	(°C) 13.44 12.17 12.17 12.14 12.16 12.18	8.63 8.53 8.53 8.53 8.53 8.53 8.53 8.53	(mV) -106 -90 -90 -90 -91 -90	(mS/cm 0.62 0.66 0.66 0.66 0.66 0.66	) (NTU) 7 10.0 1 5.7 6 4.7 6 5.5 6 5.8 6 6.0	(mg/L) 11.01 9.72 7.38 7.18 6.67 6.00 ers Yes	(g/L) 0.404 0.423 0.425 0.426 0.428 0.429 0.427
0905 0910 0915 0920 0935 0935 Sampling Int EPA SW-8 EPA SW-8	(feet) 11.71 12.10 12.90 13.20 13.30 13.40 13.45  formation: 46 Method 8270 46 Method 8260	(°C) 13.44 12.154 12.17 12.14 12.16 12.18 svoc 19 voc's 10	8.63 8.53 8.53 8.53 8.53 8.53 8.53	(mV) -106 -90 -90 -90 -91 -90	(mS/cm 0.62 0.66 0.66 0.66 0.66 0.66	(NTU)  7 10.0  1 5.7  6 4.0  5 17  6 5.5  6 5.8  8 6.0  2-1 liter ambertal and a second and a se	(mg/L) 11.01 9.28 7.88 7.18 6.62 6.00 6.00	(g/L) 0.404 0.423 0.425 0.426 0.425 0.427 0.427
0905 0910 0915 0920 0930 0935 0935 EPA SW-84 EPA M	(feet) 11.71 12.10 12.90 13.20 13.30 13.40 13.45  formation: 46 Method 8270 46 Method 8260 lethod 335.4 lethod 200.7	(°C) 13.44 12.54 12.17 12.11 12.16 12.18  SVOC F VOC'S I Cyani Meta	8.53 8.53 8.53 8.53 8.53 8.53 8.53 8.53	(mV) -106 -90 -90 -91 -90 -98	(mS/cm 0.62 0.66 0.66 0.66 0.66 0.66	2 - 1 liter amber 3 - 40 ml vial 1 - 250 ml plas	(mg/L)  11.01  9.28  7.38  7.18  6.62  6.00  ers Yes stic Yes stic Yes	(g/L) 0.404 0.423 0.425 0.425 0.425 0.427 0.427 0.427
Sampling Inf  EPA SW-8- EPA M  EPA M  Sample ID:	(feet) 11.7.1 12.10 12.90 13.20 13.30 13.40 13.45  formation:  46 Method 8270 46 Method 8260 lethod 335.4 lethod 200.7  LTMW-D02-	(°C)  3 44  12   54  12   14  12   14  12   16  12   18  SVOC F VOC'S I Cyani Meta	PAH's BTEX ide als	(mV) -106 -90 -90 -91 -90 -98	(mS/cm 0.62 0.66 0.66 0.66 0.66 0.66	2 - 1 liter amber 3 - 40 ml vial 1 - 250 ml plas Shipped:	ers Yes stic Yes ace Courier Pick	(g/L) 0.404 0.423 0.425 0.425 0.427 0.427 0.427
0905 0910 0915 0920 0930 0935 0935 EPA SW-84 EPA M	(feet) 11.71 12.10 12.90 13.20 13.30 13.40 13.45  formation: 46 Method 8270 46 Method 8260 lethod 335.4 lethod 200.7	(°C)  3 44  12   54  12   14  12   14  12   16  12   18  SVOC F VOC'S I Cyani Meta	PAH's BTEX ide als	(mV) -106 -90 -90 -91 -90 -98	(mS/cm 0.62 0.66 0.66 0.66 0.66 0.66	2 - 1 liter amber 3 - 40 ml vial 1 - 250 ml plass  Shipped: Prop-ori	ers Yes stic Yes ace Courier Picket Albany Service	(g/L) 0.404 0.423 0.425 0.425 0.429 0.429 0.427 0.427 0.427
Sampling Inf  EPA SW-8- EPA M  EPA M  Sample ID:	(feet) 11.7.1 12.10 12.90 13.20 13.30 13.40 13.45  formation:  46 Method 8270 46 Method 8260 lethod 335.4 lethod 200.7  LTMW-D02-	(°C)  3 44  12   54  12   14  12   14  12   16  12   18  SVOC F VOC'S I Cyani Meta	PAH's BTEX ide als	(mV) -106 -90 -90 -91 -90 -98	(mS/cm 0.62 0.66 0.66 0.66 0.66 0.66	2 - 1 liter amber 3 - 40 ml vial 1 - 250 ml plas Shipped:	ers Yes stic Yes ace Courier Pick	(g/L) 0.404 0.423 0.425 0.425 0.425 0.427 0.427 0.427 0.427 alytical

National Grid
Kingsley Avenue Rome New York

						,		
Sampling Per	rsonnel: K	_			Date:	17/18	7	1
Job Number:	06-03000-13	34400-221			Weather:	Sary	1 5.	2
Well Id.	LTMW-S02			_	Time In:	09:00	Time Out	:09.55
Well Inf	formation							
		•	TOC	Other	Well Type:	: Flu	shmount	Stick-Up
Depth to Wat		(feet)	10.32		Well Locke		Yes	No
Depth to Bott		(feet)	17.98			Point Marked:	Yes	No
Depth to Proc Length of Wa		(feet)	7/16		Well Mater			her:
Volume of Wa		(feet)	7.60		Comments			ner:
Three Well Vo		(gal)	3.67		Comments	,		
		(6 / ]						
Purging I	nformation	<u></u>					Conversion I	Factors
Purging Meth	od:	Baile	r Peristaltio	Grund	fos Pump		1" ID 2" ID	4" ID 6" ID
Tubing/Bailer		Teflor			yethylene	gal/ft.		1 1 1 1 1
Sampling Met		Baile	r Peristaltic		fos Pump	water	0.04 0.16	0.66 1.47
Average Pum	ping Rate:	(ml/min)	700			1 gall	on=3.785L=3785r	nL=1337cu. feet
Duration of Po		(min)	30					
Total Volume	Removed:	(gal)		id well go dry?	Yes Nb	7		
Horiba U-52 V	Vater Quality N	Meter Used?	Yes	No				
			4					
Time	DTW	Temp	рН	ORP	Conductivity	Turbidity	DO	TDS
69:08	(feet)	(°C)	6.90	(mV)	(mS/cm)	(NTU)	(mg/L)	(g/L) 0-500
01.09	P			- //	<del></del>	1/2		
109:10	10.32	10.40	1 1 00	1-21	0.271	3-773	04/0	16116
09:10	10.32	12.40	7.01	-71	0.771	370	0.46	0.462
09:10	-	13.10	7.01	- 61	0,720	275	0.44	0,462
7	10.45	13:20	7.00		0,709			
7	10.38	13:10	7.01	-61 -71 -78 -30	0,709	275 180 63.8	0.00	0.462
7	10.45	13.10	7.00	- 61 - 71 - 78	0,709	275 180 63.8	0.00	6,462
7	10.38	13.10	7.08	-61 -71 -78 -30	0,709	275 180 63.8	0.00	0.462
7	10.38	13.10	7.08	-61 -71 -78 -30	0,709	275 180 63.8	0.00	0.462
7	10.38	13.10	7.08	-61 -71 -78 -30	0,709	275 180 63.8	0.00	0.462
7	10.38	13.10	7.08	-61 -71 -78 -30	0,709	275 180 63.8	0.00	0.462
7	10,38	13.10	7.08	-61 -71 -78 -30	0,709	275 180 63.8	0.00	0.462
09:20 09:30 09:30 09:30	10,38 10,45 10,45 10,45 10,45	13.10	7.01 7.08 7.13 7.13 7.13	-61 -71 -78 -30	0,709	275 180 63.8 65	0.00	0.462 6.457 0.453 0.448 0.445
9 20 09 25 09 30 09 30 Sampling Inf	10,38 10,45 10,45 10,45 10,45 f0,45	13:10 11:69 11:65 11:65	7.01 7.08 7.13 7.13 7.13	-61 -71 -78 -30	0,709	275 180 63.8 68 65	0.44 0.00 0.00 0.00	0.462 6.457 0.453 0.448 0.445
9 20 09 25 09 30 09 30 09 30 EPA SW-84 EPA SW-84	10,38 10,45 10,45 10,45 10,45 10,45 60,45 10,45 10,45 10,45 10,45	11.69 11.69 11.65 11.65 VOC'S E	7.01 7.08 7.13 7.13 7.13	-61 -71 -78 -30	0,709	2-1 liter ambe 3-40 ml vials	0.44 0.00 0.00 0.00 0.00	0.462 6.457 0.453 0.448 0.445
Sampling Inf  EPA SW-84  EPA SW-84  EPA M	10,38 10,45 10,45 10,45 10,45 10,45 6 Method 8270 46 Method 8260 ethod 335.4	11.6% 11.6% 11.65 11.65 VOC's E	7.01 7.08 7.13 7.13 7.13 7.13 de	-61 -71 -78 -30	0,709	2-1 liter ambe 3-40 ml vial: 1-250 ml plas	o. O O O O O O O O O O O O O O O O O O O	0.462 6.457 0.453 0.448 0.445
Sampling Inf  EPA SW-84  EPA SW-84  EPA M	10,38 10,45 10,45 10,45 10,45 10,45 60,45 10,45 10,45 10,45 10,45	11.69 11.69 11.65 11.65 VOC'S E	7.01 7.08 7.13 7.13 7.13 7.13 de	-61 -71 -78 -30	0,709	2-1 liter ambe 3-40 ml vials	o. O O O O O O O O O O O O O O O O O O O	0.462 6.457 0.453 0.448 0.445
Sampling Inf  EPA SW-84  EPA SW-84  EPA M	10,38 10,45	SVOC F VOC's E Cyani Meta	PAH's BTEX de lls	-61 -71 -78 -30	0,700	2-1 liter ambe 3-40 ml vial: 1-250 ml plas 1-250 ml plas	o. O O O O O O O O O O O O O O O O O O O	0.462 6.457 0.453 0.448 0.445
Sampling Inf  EPA SW-84  EPA SW-84  EPA M  EPA M	10.38 10.45 10.45 10.45 10.45 10.45 10.45 10.45 10.45 10.45 10.45 10.45 10.45 10.45 10.45	SVOC F VOC's E Cyani Meta	7.01 7.08 7.13 7.13 7.13 7.13 de ls	- 19 - 71 - 30 - 30	0,700	2-1 liter ambe 3-40 ml vials 1-250 ml plas 1-250 ml plas	ers Yes stic Yes tic Yes	0,462 6,457 0,448 0,448 0,445
Sampling Inf  EPA SW-84  EPA M  EPA M  Sample ID:	10,38 10,45	SVOC F VOC's E Cyani Meta	PAH's BTEX de lls	- 6   - 7   - 7   - 30	0,700 0,714 0,709 0.699 0.695	2-1 liter ambe 3-40 ml vials 1-250 ml plas 1-250 ml plas	ers Yes tic Yes ace Courier Pick	No No No No Center

Sampling Personnel:	Date: 6/7/18
Job Number: 06-03000-134400-221	Weather: Swy
Well Id. LTMW-D03	Time In: (0:2) Time Out: (1:10)
Well Information TOC Other	Well Type: Flushmount Stick-Up
Depth to Water: (feet) 5 14	Well Locked: Yes No
Depth to Bottom: (feet) 40.73	Measuring Point Marked: Yes No
Depth to Product: (feet)	Well Diameter: 1" Other:
Length of Water Column: (feet) 35.59  Volume of Water in Well: (gal) 5.49	Well Diameter: 1" 2" Other:
Three Well Volumes: (gal) 17.05	Comments.
Purging Information	Conversion Factors
	gal/ft. 1" ID 2" ID 4" ID 6" ID
Tubing/Bailer Material: Teflon Stainless St. Polye	ethylene of
Sampling Method:  Bailer Peristaltic Grundfo	
Average Pumping Rate: (ml/min) 3000 Duration of Pumping: (min) 30	1 gallon=3.785L=3785mL=1337cu. feet
Total Volume Removed: (gal) Did well go dry?	Yes No
Horiba U-52 Water Quality Meter Used?	
Tioriba 0-02 Water Quality Weter 0000.	
	Conductivity Turbidity DO TDS
(feet) (°C) (mV)	( O ( )   (A)TID   ( ( ) )   ( ( ) )
	(mS/cm) (NTU) (mg/L) (g/L)
10:25 6.94 12.20 9.01 -218	0.414 156 6.00 0.276
10:35 6.94 12:20 9.01 -248	0.414 156 0.00 0.276
10:25 6.94 12:20 9.01 -218 10:36 9.07 11.72 10.00 -248 10:36 9.12 11.75 7.87 -137	0.414 156 6.00 0.276 0.361 144 0.00 6.234 0.548 112 0.00 0.356 6.726 122 0.00 0.477
10:25 6.94 12:20 9.01 -218 10:38 9.07 11.72 10.00 -248 10:35 9.12 11.75 7.67 -137	0.414 156 0.00 0.276 0.361 144 0.00 0.238 0.548 112 0.00 0.356 0.726 122 0.00 0.477 0.600 158 0.00 0.561
10:25 6.94 12:20 9.01 -218 10:38 9.07 11.72 10.00 -248 10:38 9.12 11.75 7.87 -137 10:48 9.73 11.69 7.80 -123 10:48 9.95 11.67 7.79 -121 10:58 9.90 11.67 7.79 -121	0.414 156 6.00 0.276 0.361 144 0.00 6.234 0.548 112 0.00 0.356 6.724 122 0.00 0.356 0.990 158 0.00 0.561 0.866 16 6 0.00 0.566
10:25 694 12:00 9:01 -218 10:38 9:07 11:72 10:00 -248 10:38 9:12 11:75 7:27 -137 10:48 9:73 11:69 7:30 -123	0.414 156 0.00 0.276 0.361 144 0.00 0.238 0.548 112 0.00 0.356 0.726 122 0.00 0.477 0.600 158 0.00 0.561
10:25 6.94 12:20 9.01 -218 10:38 9.07 11.72 10.00 -248 10:38 9.12 11.75 7.87 -137 10:48 9.73 11.69 7.80 -123 10:48 9.95 11.67 7.79 -121 10:58 9.90 11.67 7.79 -121	0.414 156 6.00 0.276 0.361 144 0.00 6.234 0.548 112 0.00 0.356 6.724 122 0.00 0.356 0.990 158 0.00 0.561 0.866 16 6 0.00 0.566
10:25 6.94 12:20 9.01 -218 10:38 9.07 11.72 10.00 -248 10:38 9.12 11.75 7.87 -137 10:48 9.73 11.69 7.80 -123 10:48 9.95 11.67 7.79 -121 10:58 9.90 11.67 7.79 -121	0.414 156 6.00 0.276 0.361 144 0.00 6.238 0.548 112 0.00 0.356 6.724 122 0.00 0.356 0.990 158 0.00 0.561 0.866 16 6 0.00 0.566
10:25 6.94 12:20 9.01 -218 10:38 9.07 11.72 10.00 -248 10:38 9.12 11.75 7.87 -137 10:48 9.73 11.69 7.80 -123 10:48 9.95 11.67 7.79 -121 10:58 9.90 11.67 7.79 -121	0.414 156 6.00 0.276 0.361 144 0.00 6.238 0.548 112 0.00 0.356 6.724 122 0.00 0.356 0.990 158 0.00 0.561 0.866 16 6 0.00 0.566
10:25 6.94 12:20 9.01 -218 10:38 9.07 11.72 10.00 -248 10:38 9.12 11.75 7.87 -137 10:48 9.73 11.69 7.80 -123 10:48 9.95 11.67 7.79 -121 10:58 9.90 11.67 7.79 -121	0.414 156 6.00 0.276 0.361 144 0.00 6.238 0.548 112 0.00 0.356 6.724 122 0.00 0.356 0.990 158 0.00 0.561 0.866 16 6 0.00 0.566
Sampling Information:	0.414 154 6.00 0.276 0.361 144 0.00 0.238 0.548 112 0.00 0.356 0.724 122 0.00 0.356 0.600 15.8 0.00 0.561 0.866 16.6 0.00 0.566 0.891 16-9 0.00 0.567
10:25	0.414 154 6.00 0.276 0.361 144 0.00 0.231 0.548 112 0.00 0.356 0.724 122 0.00 0.356 0.600 15.8 0.00 0.566 0.891 16-9 0.00 0.566 0.891 16-9 0.00 0.563
Sampling Information:    Sampling Information:   EPA SW-846 Method 8270   SVOC PAH's   EPA SW-846 Method 8260   SVOC PAH's   EPA SW-846 Method 8260   VOC's BTEX	0.914 154 6.00 0.276 0.361 199 0.00 0.239 0.578 112 0.00 0.356 0.724 122 0.00 0.366 0.891 16-9 0.00 0.566 0.891 16-9 0.00 0.566 0.891 16-9 0.00 0.563
Sampling Information:    Sampling Information:   SVOC PAH's EPA SW-846 Method 8260   SVOC PAH's EPA SW-846 Method 8260   VOC's BTEX   STOC	2-1 liter ambers 3-40 ml vials  0.914
Sampling Information:    Sampling Information:   SVOC PAH's   EPA SW-846 Method 8260   VOC's BTEX   EPA Method 200.7   Metals   SVOC PAH's   EPA Method 200.7   Metals   SVOC PAH's   SVO	2-1 liter ambers Yes No No 1-250 ml plastic Yes No Yes No 1-250 ml plastic Yes No Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes
Sampling Information:    Sampling Information:   SVOC PAH's   EPA SW-846 Method 8260   VOC's BTEX   EPA Method 200.7   Metals   SVOC PAH's   EPA Method 200.7   Metals   SVOC PAH's   SVO	2-1 liter ambers Yes No No 1-250 ml plastic Yes No Yes No 1-250 ml plastic Yes No Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes
Sampling Information:    Sampling Information:   Sampling Information:   Sampling Information:   Sampling Information:   Sampling Information:   Sampling Information:   Sampling Information:   Syoc Pah's   Syoc	2 - 1 liter ambers Yes No No 1 - 250 ml plastic Yes No No Shipped: Pace Courier Pickup

Sampling Personnel:	Date: 6/7/18
Job Number: 06-03000-134400-221	Weather: Sury 62
Well Id. LTMW-S03	Time In: //// Time Out: B-Co
Well Information TOC Other	Well Type: Flushmount Stick-Up
Depth to Water: (feet) 4.11	Well Locked: Yes No
Depth to Bottom: (feet) 13.70	Measuring Point Marked: Yes No
Depth to Product: (feet)  Length of Water Column: (feet)	Well Material: PVC SS Other:
Volume of Water in Well: (gal) 1.53	Well Diameter: 1" 2" Other:
Three Well Volumes: (gal) 4.60	Comments.
Purging Information	
	Conversion Factors
Purging Method: Bailer Peristaltic Grundfos	gai/it.
Tubing/Bailer Material: Teflon Stainless St. Polyeth	
Sampling Method:  Bailer Peristaltic Grundfos  Average Pumping Rate: (ml/min)	
Duration of Pumping: (min) 30	1 gallon=3.785L=3785mL=1337cu. feet
Total Volume Removed: (gal) 7 Did well go dry?	Yes No
Horiba U-52 Water Quality Meter Used?	
Took Talling Motor Cook.	
Time DTW Temp pH ORP C	Conductivity Turbidity DO TDS
Time         DTW         Temp         pH         ORP         C           (feet)         (°C)         (mV)	(mS/cm) (NTU) (mg/L) (g/L)
Time DTW Temp pH ORP C (feet) (°C) (mV)	(mS/cm) (NTU) (mg/L) (g/L) (9/L)
Time DTW Temp pH ORP C (feet) (°C) (mV)	(mS/cm) (NTU) (mg/L) (g/L) 0-902 49-6-00 0-321 0-506 30-9 0-00 0-324
Time DTW Temp pH ORP C (feet) (°C) (mV)  11.15 1.17 13.07 6.95 -65 1.17 13.49 6.95 -72 6.11.25 1.17 13.49 6.96 -74 6.	(mS/cm) (NTU) (mg/L) (g/L) 0-902 49 6 0-00 0-324 0-503 13.6 0.00 0-324
Time DTW Temp pH ORP CO (feet) (°C) (mV)  11-15 7-17 13-07 6-95 -65 6  11-20 4-12 13-49 6-95 -72 6  11-30 4-12 13-50 6-96 -75 0  11-35 4-12 13-76 6-99 -76 0	(mS/cm) (NTU) (mg/L) (g/L) 0-907 49.6 (0-0) (1.321 0-506 30.9 0-00 0-324 0-503 13.6 0.00 0-322 0-502 15.5 0.00 0-321
Time DTW Temp pH ORP C (feet) (°C) (mV)  11:15 7:17 13:07 6:95 -65 1  11:25 4:12 13:49 6:96 -74 6  11:30 4:12 13:50 6:98 -75 C	(mS/cm) (NTU) (mg/L) (g/L) 0.502 49.6 0.00 0.321 0.503 13.6 0.00 0.322 0.502 15.5 0.00 0.321
Time DTW Temp pH ORP C (feet) (°C) (mV)  11.15 1.17 13.07 6.95 -65 1.11 13.19 6.96 -74 6.11 13.35 6.98 -75 C 11.35 4.12 13.76 6.99 -76 C	(mS/cm) (NTU) (mg/L) (g/L)  0-902 49 6 0-00 11-32 1  1-503 13-6 0-00 0-324  1-503 15-5 0-00 0-32 1  1-503 14-0 0-00 0-32 5
Time DTW Temp pH ORP C (feet) (°C) (mV)  11.15 1.17 13.07 6.95 -65 1.11 13.19 6.96 -74 6.11 13.35 6.98 -75 C 11.35 4.12 13.76 6.99 -76 C	(mS/cm) (NTU) (mg/L) (g/L)  0-902 49 6 0-00 1321  0-506 30.9 0-00 0-324  0-503 13.6 0.00 0-324  0-502 15.5 0.00 0-325  0-499 14.0 0.00 0-325
Time DTW Temp pH ORP CO (feet) (°C) (mV)  11-15 7-17 13-07 6-95 -65 12  11-25 4-12 13-49 6-95 -72 6  11-30 4-12 13-50 6-98 -75 6  11-35 4-12 13-76 6-99 -76 6  11-40 4-12 13-76 7-00 -77	(mS/cm) (NTU) (mg/L) (g/L)  0-502
Time DTW Temp pH ORP CO (feet) (°C) (mV)  11-15 7-17 13-07 6-95 -65 12  11-25 4-12 13-49 6-95 -72 6  11-30 4-12 13-50 6-98 -75 6  11-35 4-12 13-76 6-99 -76 6  11-40 4-12 13-76 7-00 -77	(mS/cm) (NTU) (mg/L) (g/L)  0-502
Time DTW Temp pH ORP CO (feet) (°C) (mV)  11-15 7-17 13-07 (6-95 -6-5 0)  11-20 4-12 13-49 6-95 -72 6  11-30 4-12 13-76 (6-99 -76 0)  11-35 4-12 13-76 7-00 -77 0	(mS/cm) (NTU) (mg/L) (g/L)  0-902 49 6 0-00 11-32 1  1-503 13-6 0-00 0-324  1-503 15-5 0-00 0-32 1  1-503 14-0 0-00 0-32 5
Time DTW Temp pH ORP CO (feet) (°C) (mV)  11-15 7-17 13-07 6-95 -65 12  11-25 4-12 13-49 6-95 -72 6  11-30 4-12 13-50 6-98 -75 6  11-35 4-12 13-76 6-99 -76 6  11-40 4-12 13-76 7-00 -77	(mS/cm) (NTU) (mg/L) (g/L)  0-902 49 6 0-00 11-32 1  1-503 13-6 0-00 0-324  1-503 15-5 0-00 0-32 1  1-503 14-0 0-00 0-32 5
Time DTW Temp pH ORP (C) ("C) (mV)  11:15 7:17 13-07 6-95 -65 12  11:25 4:12 13:49 6-98 -75 6  11:35 4:12 13:76 6-99 -76 6  11:35 4:12 13:76 6-99 -76 6  11:45 4:12 13:76 6-99 -76 6	(mS/cm) (NTU) (mg/L) (g/L) 0.902 49.6 10.00 (n.321 0.503 13.6 0.00 (0.324 0.503 15.5 (0.00 (0.325) 0.499 14.0 (0.00 (0.325) 0.499 13.5 (0.00 (6.325)
Time DTW Temp pH ORP CO (feet) (°C) (mV)  1/-15 7-17 /3-07 (6-95 -65 /4 /4 /4 /4 /4 /4 /4 /4 /4 /4 /4 /4 /4	(mS/cm) (NTU) (mg/L) (g/L)  0-907
Time DTW Temp pH ORP CO (*C*) (mV)  11.15	(mS/cm) (NTU) (mg/L) (g/L)  0-907
Time DTW Temp pH ORP CO (*C) (mV)  11.15	(mS/cm) (NTU) (mg/L) (g/L)  0-907
Time DTW Temp pH ORP C (feet) (°C) (mV)	(mS/cm) (NTU) (mg/L) (g/L)  0-907
Time DTW Temp pH ORP C (feet) (°C) (mV)    1.5	(mS/cm) (NTU) (mg/L) (g/L)
Time DTW Temp pH ORP C (feet) (°C) (mV)	(mS/cm) (NTU) (mg/L) (g/L)  0-907

- Tallgaley Ave	enue, Rome, N							
Sampling Pe	rsonnel:	00			Date:	6/7/18		
Job Number:	: 06-03000-1	34400-221			Weather:	600 -50	on I	
Well Id.	LTMW-D04				Time In:	1040	Time Out	1120
Well In	formation							
VV CII III	IOIIIIation	<b>-</b>	TOC	Other	Well Type	: Flu	shmount	Stick-Up
Depth to Wat		(feet)	9178		Well Lock	ed:	Yes	No
Depth to Bott		(feet)	46.36			Point Marked:	Yes	No
Depth to Prod		(feet)	NP		Well Mate			her:
Length of Wa		(feet)	36158 5.8		Well Diam		' 2"\_Ot	her:
Three Well V		(gal)	17.5		Comments	5:		
		(3/						
Duraina	la formation							
Purging i	Information	-					Conversion	Factore
Purging Meth	ind:	Baile	er Peristalti	ic Grund	lfos Pump	701/ft	1" ID 2" ID	4" ID 6" ID
Tubing/Bailer		Teflor			lyethylene	gal/ft. of	1 10 2 15	7 10 0 12
Sampling Met		Baile			Ifos Pump	water	0.04 0.16	0.66 1.47
Average Pum	ping Rate:	(ml/min)	180			1 gall	on=3.785L=3785r	
Duration of Po		(min)	30			_/	******	
Total Volume	Removed:	(gal)	170 [	Did well go dry?	Yes No	V		
Horiba U-52 \	Water Quality N	Meter Used?	Ye	s No				
						-		
T	T DTIM	T	T 11	T	1,			
Time	DTW (feet)	Temp	pН	ORP (m)()	Conductivity (mS/cm)	Turbidity	DO (mg/L)	TDS
	(feet)	(°C)		(mV)	(mS/cm)	(NTU)	(mg/L)	(g/L)
1040	(feet)	(°C)	8.24	(mV)	(mS/cm) 0:532	(NTU) 5.3	(mg/L)	(g/L) 0 (341
1040	(feet)	(°C)	8.24	(mV)	(mS/cm) 0:532 0:545	(NTU) 5,3 7,8	(mg/L) 9.65 8.37	(g/L) 01341 01348
1040	(feet)	(°C) 10:34 10:44 11-00	8.24 8.65 8.72	(mV)	(mS/cm) 0.532 0.545 0.550	(NTU) 5.3 7.8 8.0	(mg/L) 9.65 8.37 6.80	(g/L) 0/341 0/348
1040	(feet) 10.70 10.80 10.85 10.90 10.95	(°C) 10,84 10,94	8.24 8.63 8.72 8.87 8.87	(mV)	(mS/cm) 0:532 0:545	(NTU) 5,3 7,8	(mg/L) 9.65 8.37	(g/L) 0,341 0,348 0,350 0,357
1040 1045 1050 1055	(feet) 10.70 10.85 10.85 10.90 10.95 10.95	(°C) 10,84 10,94 11-00 11-06 11-30 11-30	8.24 8.42 8.72 8.87 8.87 8.89 8.91	(mV) 164 75 50 -37	(mS/cm) 0.532 0.545 0.550 0.550 0.560 0.560	(NTU) 5,3 7,8 8,0 10,7 4,5 2,4	(mg/L)  9.65  8.37  6.80  5.60  4.54  3.99	(g/L) 0/341 0/348
1040 1045 1050 1055	(feet) 10.70 10.80 10.85 10.90 10.95	(°C) 10:84 10:94 11:00 11:06	8.24 8.63 8.72 8.87 8.87	(mV) 164 75 50 -37 -40	(mS/cm) 0:532 0:545 0:550 0:556 0:560	(NTU) 5.3 7.8 8.0 10.7 4.5	(mg/L) 9.65 8.37 6.80 5.60 4.54	(g/L) 01341 01348 0.350 0.357
1040 1045 1050 1055 1100	(feet) 10.70 10.85 10.85 10.90 10.95 10.95	(°C) 10,84 10,94 11-00 11-06 11-30 11-30	8.24 8.42 8.72 8.87 8.87 8.89 8.91	(mV) 164 45 50 -37 -40 -50	(mS/cm) 0.532 0.545 0.550 0.550 0.560 0.560	(NTU) 5,3 7,8 8,0 10,7 4,5 2,4	(mg/L)  9.65  8.37  6.80  5.60  4.54  3.99	(g/L) 01341 01348 01350 01357 01359 01359
1040 1045 1050 1055 1100	(feet) 10.70 10.85 10.85 10.90 10.95 10.95	(°C) 10,84 10,94 11-00 11-06 11-30 11-30	8.24 8.42 8.72 8.87 8.87 8.89 8.91	(mV) 164 45 50 -37 -40 -50	(mS/cm) 0.532 0.545 0.550 0.550 0.560 0.560	(NTU) 5,3 7,8 8,0 10,7 4,5 2,4	(mg/L)  9.65  8.37  6.80  5.60  4.54  3.99	(g/L) 01341 01348 01350 01357 01359 01359
1040 1045 1050 1055 1100	(feet) 10.70 10.85 10.85 10.90 10.95 10.95	(°C) 10,84 10,94 11-00 11-06 11-30 11-30	8.24 8.42 8.72 8.87 8.87 8.89 8.91	(mV) 164 45 50 -37 -40 -50	(mS/cm) 0.532 0.545 0.550 0.550 0.560 0.560	(NTU) 5,3 7,8 8,0 10,7 4,5 2,4	(mg/L)  9.65  8.37  6.80  5.60  4.54  3.99	(g/L) 01341 01348 01350 01357 01359 01359
1040 1045 1050 1055 1100	(feet) 10.70 10.85 10.85 10.90 10.95 10.95	(°C) 10,84 10,94 11-00 11-06 11-30 11-30	8.24 8.42 8.72 8.87 8.87 8.89 8.91	(mV) 164 45 50 -37 -40 -50	(mS/cm) 0.532 0.545 0.550 0.550 0.560 0.560	(NTU) 5,3 7,8 8,0 10,7 4,5 2,4	(mg/L)  9.65  8.37  6.80  5.60  4.54  3.99	(g/L) 01341 01348 01350 01357 01359 01359
1040 1045 1050 1055 1100	(feet) 10.70 10.85 10.90 10.95 10.96 10.96	(°C) 10,84 10,94 11-00 11-06 11-30 11-30	8.24 8.42 8.72 8.87 8.87 8.89 8.91	(mV) 164 45 50 -37 -40 -50	(mS/cm) 0.532 0.545 0.550 0.550 0.560 0.560	(NTU) 5,3 7,8 8,0 10,7 4,5 2,4	(mg/L)  9.65  8.37  6.80  5.60  4.54  3.99	(g/L) 01341 01348 01350 01357 01359 01359
1040 1045 1050 1055 1100 1106 1110	(feet) 10.70 10.85 10.90 10.95 10.95 10.96 i0.96	(°C) 10,84 10,94 11-00 11-06 11-30 11-30	8.24 8.42 8.72 8.87 8.87 8.89 8.91	(mV) 164 45 50 -37 -40 -50	(mS/cm) 0.532 0.545 0.550 0.550 0.560 0.560	(NTU) 5,3 7,8 8,0 10,7 4,5 2,4	(mg/L)  9.65  8.37  6.80  5.60  4.54  3.99	(g/L) 01341 01348 01350 01357 01359 01359
1040 1045 1050 1055 1100 1105 1110 Sampling Info	(feet) 10.70 10.85 10.90 10.95 10.95 10.96 10.96	(°C) 10,844 10,94 11-00 11-06 11-30 11-25	8.24 8.63 8.72 8.87 8.91 8.91	(mV) 164 45 50 -37 -40 -50	(mS/cm) 0.532 0.545 0.550 0.550 0.560 0.560	(NTU) 5,3 7,8 8.0 10,7 4,5 2,4 1,0	(mg/L) 9.65 8.37 6.80 5.60 4.54 3.99 2,90	(g/L) 0,341 0,340 0,350 0,357 0,359 0,359 0,358
1040 1045 1050 1055 1100 1106 1110 Sampling Info	(feet) 10.70 10.85 10.90 10.95 10.95 10.96 10.96 46 Method 8270 46 Method 8260	(°C)  0,844  10,944  11-00  11-06  11,30  11,30  11,25	8.24 8.63 8.72 8.87 8.91 8.94	(mV) 164 45 50 -37 -40 -50	(mS/cm) 0.532 0.545 0.550 0.550 0.560 0.560	(NTU) 5, 3 7, 8 8,0 10,7 4,5 2,4 1,0 2 - 1 liter amber 3 - 40 ml vials	(mg/L) 9.65 8.37 6.80 5.60 4.54 3.99 2.90	(g/L) 01341 01348 0.350 0.357 0.357 0.359 0.359
1040   1045   1050   1055   1100   1105   1110   1106   1110   EPA SW-84   EPA SW-84	(feet) 10.70 10.80 10.85 10.90 10.95 10.95 10.95 10.96 10.96 46 Method 8270 46 Method 8260 ethod 335.4	(°C)  0,844  10,944  11-00  11-06  11,30  11,30  11-25	8.24 8.43 8.72 8.87 8.91 8.91 8.94	(mV) 164 45 50 -37 -40 -50	(mS/cm) 0.532 0.545 0.550 0.550 0.560 0.560	(NTU) 5.3 7.8 8.0 10.7 4.5 2.4 1.0 2-1 liter amberon 3-40 ml vials 1-250 ml plas	(mg/L)  9.65  8.37  6.80  5.60  4.54  3.99  2.90  ers Yes  tic Yes	(g/L) 01341 01348 01350 01357 01359 01359 01358
1040   1045   1050   1055   1100   1105   1110   1106   1110   EPA SW-84   EPA SW-84	(feet) 10.70 10.85 10.90 10.95 10.95 10.96 10.96 46 Method 8270 46 Method 8260	(°C)  0,844  10,944  11-00  11-06  11,30  11,30  11,25	8.24 8.43 8.72 8.87 8.91 8.91 8.94	(mV) 164 45 50 -37 -40 -50	(mS/cm) 0.532 0.545 0.550 0.550 0.560 0.560	(NTU) 5, 3 7, 8 8,0 10,7 4,5 2,4 1,0 2 - 1 liter amber 3 - 40 ml vials	(mg/L)  9.65  8.37  6.80  5.60  4.54  3.99  2.90  ers Yes  tic Yes	(g/L) 01341 01348 01350 01357 01359 01359 01358
1040   1045   1050   1055   1100   1105   1110   1106   1110   EPA SW-84   EPA SW-84	(feet) 10.70 10.80 10.85 10.90 10.95 10.95 10.95 10.96 10.96 46 Method 8270 46 Method 8260 ethod 335.4	(°C)  0.844  10.94  11.00  11.00  11.30  11.30  11.30  11.25	8.24 8.24 8.72 8.72 8.94 8.94 8.94	(mV) 164 45 50 -37 -40 -50	(mS/cm) 0:532 0:545 0:556 0:558 0:560 0:561 0:560	(NTU) 5, 3 7, 8 8,0 10,7 4,5 2,4 1,0 2 - 1 liter amber 3 - 40 ml vials 1 - 250 ml plas 1 - 250 ml plas	(mg/L)  9.65  8.37  6.80  5.60  4.54  3.99  2.90  ers Yes  tic Yes	(g/L) 0,341 0,346 0,350 0,357 0,359 0,359 0,358
Sampling Info	(feet)  10.70  10.85  10.90  10.95  10.95  10.95  10.96  1	(°C)  0,844  10,94  11-00  11-06  11,30  11,30  11,30  11,25  10,20  11,	8.24 8.43 8.72 8.72 8.91 8.91 8.91 8.91 8.91 8.91 8.91 8.91	(mV) 164 45 50 -37 -40 -50 -60	(mS/cm) 0:532 0:545 0:556 0:558 0:560 0:561 0:560	(NTU) 5.3 7.8 8.0 10.7 4.5 2.4 1.0  2-1 liter ambe 3-40 ml vials 1-250 ml plas 1-250 ml plas	(mg/L)  9.65  8.37  6.80  5.60  4.54  3.99  2.90  ers Yes tic Yes tic Yes	(g/L) 0,341 0,348 0,350 0,357 0,359 0,359 0,359 0,359 0,359
Sampling Info	(feet)  10.70  10.85  10.90  10.95  10.95  10.96  10.96  10.96  10.96  10.96  10.97  LTMW-D04-	(°C)  0,844  10,94  11-00  11-06  11,30  11,30  11,30  11,25  10,20  11,	8.24 8.43 8.72 8.72 8.91 8.91 8.91 8.91 8.91 8.91 8.91 8.91	(mV)   44   45   50   -37   -40   -50   -60	(mS/cm) 0:532 0:545 0:550 0:550 0:560 0:560 0:560	(NTU) 5.3 7.8 8.0 10.7 4.5 2.4 1.0  2-1 liter ambe 3-40 ml vials 1-250 ml plas 1-250 ml plas	(mg/L)  9.65  8.37  6.80  5.60  4.54  3.99  2.90  ers Yes tic Yes tic Yes ace Courier Pick	(g/L) 0,341 0,348 0,350 0,357 0,359 0,359 0,359 0,358

Sampling Pe	ersonnel:	PP			Date:	ce(7)	(3	
Job Number:		34400-221			Weather:	1000-3		
Well Id.	LTMW-S04				Time In:	0950	Time Out	1035
Well In	formation	_				15,000)	_	
- · · · · · · · ·			TOC	Other	Well Type		shmount	Stick-Up
Depth to Wa		(feet)	9,48		Well Lock		Yes	No
Depth to Bot		(feet)	17.26 NP		Measuring Well Mate	Point Marked:	Yes X Ot	No her:
Length of Wa			1.78		Well Diam			her:
Volume of W		(gal)	1,2		Comments			
Three Well V	olumes:	(gal)	3.7					
Purging	Information							
Purging Meth	od:	Bailer	Peristalti	Crund	fos Pump		Conversion I	-actors 4" ID 6" ID
Tubing/Bailer		Teflon	-	<u> </u>	yethylene yethylene	gal/ft.	1 10 2 10	4 10 6 10
Sampling Me		Bailer			fos Pump	water	0.04 0.16	0.66 1.47
Average Pum			80-200			15175	lon=3.785L=3785r	
Duration of P	umping:	(min)	30					
Total Volume	Removed:	(gal)	V2.0	Did well go dry?	Yes No			
Horiba U-52 \	Water Quality N	Meter Used?	Ye	s No				
Time	DTW	Temp	рН	ORP	Conductivity	Turbidity	DO	TDS
	DTW (feet)	(°C)	рН	(mV)	Conductivity (mS/cm)	Turbidity (NTU)	(mg/L)	TDS (g/L)
0955	(feet)	(°C)	7.59	(mV)	(mS/cm) 0,388	(NTU) フィチ	(mg/L)	(g/L)
0955	(feet) 9,75 9,65	(°C) 10:75 10:38	7.59	(mV) 31	(mS/cm) 0,388 0,348	(NTU) 2,7 2,2	(mg/L) 14.00 7.35	(g/L) 0.25[ 0.275
1000	(feet) 975 9695	(°C) 10,75 10,38 10,53	7.59	(mV) 31 136	(mS/cm) 0,388 0,348	(NTU) 27 22 14	(mg/L) 14,00 7,35 6,39	(g/L) 0.25[ 0.225 0.225
0955 1000 1005 1000	(feet) 9,75 9,60,95 1,60,95	(°C) 10.75 10.38 10.53	7.59 1.33 1.31 1.32	(mV) 31 136 164	(mS/cm) 0,388 0,348 0,346 0,346	(NTU) 2,7 2,2 1,4 1,8	(mg/L) 14:00 7:35 6:39 6:01	(g/L) 0.25 0.225 0.225 0.234
0955 1000 1005 1010	(feet) 975 9695 995	(°C) 10.75 10.38 10.53 10.50	7.59 1.33 1.31 1.31 1.33	(mV) 31 136 164 191	(mS/cm) 0,388 0,348 0,346 0,360 0,365	(NTU) 2,7 2,7 1,4 1,8	(mg/L) 14.00 7.35 6.39 6.01 5.46	(g/L) 0.25[ 0.225 0.225 0.234 0.238
09.55 1000 1005 1010 1016 1010	(feet) 9,75 9,60,95 1,60,95	(°C) 10.75 10.38 10.53 10.50 10.60	7.59 1.33 1.31 1.32 1.33 1.33	(mV) 31 136 164 191 206 210	(mS/cm) 0,388 0,348 0,346 0,360 0,365 0,368	(NTU) 2,7 2,2 1,4 1,8	(mg/L) 14.00 7.35 6.39 6.01 5.40	(g/L) 0.25[ 0.275 0.275 0.235 0.235 0.238
0955 1000 1005 1010	(feet) 9,75 9,60 9,95 9,95 9,95	(°C) 10.75 10.38 10.53 10.50	7.59 1.33 1.31 1.31 1.33	(mV) 31 136 164 191	(mS/cm) 0,388 0,348 0,346 0,360 0,365	(NTU) 2,7 2,7 1,4 1,8	(mg/L) 14.00 7.35 6.39 6.01 5.46	(g/L) 0.25[ 0.225 0.225 0.234 0.238
09.55 1000 1005 1010 1016 1010	(feet) 9,75 9,60 9,95 9,95 9,95	(°C) 10.75 10.38 10.53 10.50 10.60	7.59 1.33 1.31 1.32 1.33 1.33	(mV) 31 136 164 191 206 210	(mS/cm) 0,388 0,348 0,346 0,360 0,365 0,368	(NTU) 2,7 2,7 1,4 1,8	(mg/L) 14.00 7.35 6.39 6.01 5.40	(g/L) 0.25[ 0.275 0.275 0.235 0.235 0.238
09.55 1000 1005 1010 1016 1010	(feet) 9,75 9,60 9,95 9,95 9,95	(°C) 10.75 10.38 10.53 10.50 10.60	7.59 1.33 1.31 1.32 1.33 1.33	(mV) 31 136 164 191 206 210	(mS/cm) 0,388 0,348 0,346 0,360 0,365 0,368	(NTU) 2,7 2,7 1,4 1,8	(mg/L) 14.00 7.35 6.39 6.01 5.40	(g/L) 0.25[ 0.275 0.275 0.235 0.235 0.238
09.55 1000 1005 1010 1016 1010	(feet) 9,75 9,60 9,95 9,95 9,95	(°C) 10.75 10.38 10.53 10.50 10.60	7.59 1.33 1.31 1.32 1.33 1.33	(mV) 31 136 164 191 206 210	(mS/cm) 0,388 0,348 0,346 0,360 0,365 0,368	(NTU) 2,7 2,7 1,4 1,8	(mg/L) 14.00 7.35 6.39 6.01 5.40	(g/L) 0.25[ 0.275 0.275 0.235 0.235 0.238
0955 1000 1005 1010 1016 1010	(feet) 9,75 9,60 9,95 9,95 9,95 9,95	(°C) 10.75 10.38 10.53 10.50 10.60	7.59 1.33 1.31 1.32 1.33 1.33	(mV) 31 136 164 191 206 210	(mS/cm) 0,388 0,348 0,346 0,360 0,365 0,368	(NTU) 2,7 2,7 1,4 1,8	(mg/L) 14.00 7.35 6.39 6.01 5.40	(g/L) 0.25[ 0.275 0.275 0.235 0.235 0.238
09.55 1000 1005 1010 1016 1010	(feet) 9,75 9,60 9,95 9,95 9,95 9,95	(°C) 10.75 10.38 10.53 10.50 10.60	7.59 1.33 1.31 1.32 1.33 1.33	(mV) 31 136 164 191 206 210	(mS/cm) 0,388 0,348 0,346 0,360 0,365 0,368	(NTU) 2,7 2,7 1,4 1,8	(mg/L) 14.00 7.35 6.39 6.01 5.40	(g/L) 0.25[ 0.275 0.275 0.235 0.235 0.238
09.55 1000 1005 1010 1016 1016 1015	(feet) 9,75 9,10,95 9,95 9,95 9,95 9,95	(°C) 10.75 10.38 10.53 10.50 10.60 10.58 10.56	7.59 1.33 1.31 1.32 1.33 1.33 1.34	(mV) 31 136 164 191 206 210	(mS/cm) 0,388 0,348 0,346 0,360 0,365 0,368	(NTU) 277 272 114 118 116 117 111	(mg/L) 14.00 7.35 6.39 6.01 5.40 4.90	(g/L) 0.251 0.225 0.225 0.234 0.238 0.240 0.244
09.55 1000 1005 1010 1015 1010 1015 EPA SW-84	(feet) 9,75 9,60 9,95 9,95 9,95 9,95	(°C) 10.75 10.38 10.53 10.50 10.60	7.59 7.33 7.31 7.32 7.33 7.34 AH's	(mV) 31 136 164 191 206 210	(mS/cm) 0,388 0,348 0,346 0,360 0,365 0,368	(NTU) 2.7 2.7 1.4 1.8 1.10 1.3 1.1	(mg/L) 14.00 7.35 6.39 6.01 5.40 4.90	(g/L) 0.25  0.25  0.225 0.225 0.234 0.238 0.240 0.240
09.55 1000 1005 1010 1016 1010 1015 EPA SW-84 EPA SW-84	(feet) 9,75 9,65 9,95 9,95 9,95 9,95 9,95 9,95 46 Method 8270	(°C) 10.75 10.38 10.53 10.50 10.58 10.56	7.59 7.33 7.31 7.32 7.33 7.34 AH's	(mV) 31 136 164 191 206 210	(mS/cm) 0,388 0,348 0,346 0,360 0,365 0,368	(NTU) 2.7 2.7 1.4 1.8 1.6 1.6 1.1 2-1 liter ambe 3-40 ml vials	(mg/L) 14,00 7,35 6,39 6,01 5,40 4,90 ers Yes	(g/L) 0,25[ 0,25] 0,225 0,234 0,238 0,240 0,240
09.55 1000 1005 1010 1015 1010 1015 EPA SW-84 EPA SW-84 EPA M	(feet) 9,75 9,65 9,95 9,95 9,95 9,95 9,95 9,95 46 Method 8270 46 Method 8260	(°C) 10.75 10.38 10.53 10.50 10.58 10.56 SVOC P	7.59 1.33 1.31 1.32 1.33 1.33 1.34 AH's	(mV) 31 136 164 191 206 210	(mS/cm) 0,388 0,348 0,346 0,360 0,365 0,368	(NTU) 2.7 2.7 1.4 1.8 1.10 1.3 1.1	(mg/L) 14,00 7,35 6,39 6,01 5,40 4,90 ers Yes tic Yes	(g/L) 0.25 0.25 0.25 0.25 0.234 0.238 0.240 0.245
Sampling Inf  EPA SW-84  EPA M  EPA M	(feet)  9,75  1,0 95  1,95  9,95  9,95  9,95  9,95  46 Method 8270 46 Method 8260 ethod 335.4 ethod 200.7	(°C) 10.75 10.53 10.50 10.56 10.58 10.56 SVOC P VOC's B Cyanic	7.59 7.33 7.31 7.33 7.34 AH's	(mV) 31 136 164 191 206 218	(mS/cm) 0,388 0,348 0,346 0,360 0,360 0,360 0,370	(NTU) 2-7 1-4 1-8 1-9 1-3 1-1 1-250 ml plas 1-250 ml plas	(mg/L) 14,00 7,35 6,39 6,01 5,40 7,90 ers Yes s Yes tic Yes	(g/L) 0.25 0.25 0.225 0.225 0.234 0.238 0.240 0.240 0.240
Sampling Inf  EPA SW-8- EPA M  EPA M  Sample ID:	(feet)  9.75  9.65  9.95  9.95  9.95  9.95  9.95  9.95  9.95  9.95  46 Method 8270  46 Method 8260 ethod 335.4 ethod 200.7	(°C) 10.75 10.75 10.53 10.50 10.58 10.56 VOC's B Cyanic Metal	7,59 1,33 1,31 1,32 1,33 1,33 1,33 1,34 AH's ITEX de s	(mV) 31 136 164 191 206 218	(mS/cm) 0,388 0,348 0,346 0,360 0,360 0,360 0,370	(NTU)  2.7  1.4  1.6  1.6  1.6  1.7  2.1  1.1  2.1  1.1  2.1  1.1  2.1  1.1  2.1  1.1  2.1  1.1  2.1  1.1  2.1  1.1  2.1  1.1  2.1	(mg/L) 14, 00 7,35 6,39 6,01 5,40 4,90 ers Yes tic Yes ace Courier Pick	(g/L) 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25
Sampling Inf  EPA SW-84  EPA M  EPA M	(feet)  9.75  9.65  9.95  9.95  9.95  9.95  9.95  9.95  46 Method 8270 46 Method 8260 ethod 335.4 ethod 200.7	(°C) 10.75 10.75 10.53 10.50 10.58 10.56 VOC's B Cyanic Metal	7,59 1,33 1,31 1,32 1,33 1,33 1,33 1,34 AH's ITEX de s	(mV) 31 136 164 191 206 218	(mS/cm) 0,388 0,348 0,346 0,360 0,360 0,360 0,370	(NTU)  2.7  1.4  1.6  1.6  1.6  1.7  2.1  1.1  2.1  1.1  2.1  1.1  2.1  1.1  2.1  1.1  2.1  1.1  2.1  1.1  2.1  1.1  2.1  1.1  2.1	(mg/L) 14,00 7,35 6,39 6,01 5,40 7,90 ers Yes s Yes tic Yes	(g/L) 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25

National Grid Kingsley Avenue, Rome, New York

Kingsley Avenue, Rome, New York	
Sampling Personnel:	Date: 6/7/18
Job Number: 06-03000-134400-221	Weather: Suny 65
Well Id. LTMW-D05	Time In: 12:00 Time Out: 47:50
Well Information	
Depth to Water: (feet) G. 47  Depth to Bottom: (feet) 46.53  Depth to Product: (feet)  Length of Water Column: (feet) 37.00  Volume of Water in Well: (gal) 5-92  Three Well Volumes: (gal) 17.78	Well Type: Flushmount Well Locked: Yes Measuring Point Marked: Yes Well Material: PVC SS Well Diameter: 1" Other: Comments:
Purging Information  Purging Method: Tubing/Bailer Material: Sampling Method: Bailer Peristaltic Stainless St. Polyeth Peristaltic Stainless St. Average Pumping Rate: Duration of Pumping: Total Volume Removed: (gal) Did well go dry? Horiba U-52 Water Quality Meter Used?  Peristaltic Stainless St. Polyeth Perist	ylene of
(feet) (°C) (mV)  12:55 10:66 15:74 7:64 - 61 C  13:00 13:10 15:67 8:37 - 99 C  13:10 15:16 15:90 8:39 - 97 C  13:10 15:16 15:91 8:40 - 94 0  13:15 16:23 16:01 8:48 - 21 6	onductivity Turbidity DO TDS (mS/cm) (NTU) (mg/L) (g/L)  2 477 34.60 0.00 0.300  3 31 5-5 0.00 0.215  3 31 5-5 0.00 0.215  3 31 7-2 0.00 0.205  3 19 4-6 0.00 0.207  3 14 5.2 0.00 0.205
Sampling Information:  EPA SW-846 Method 8270 SVOC PAH's  EPA SW-846 Method 8260 VOC's BTEX  EPA Method 335.4 Cyanide  EPA Method 200.7 Metals  Sample ID: LTMW-D05-0618 Duplicate? Yes No No No No No No No No No No No No No	2 - 1 liter ambers Yes No 3 - 40 ml vials Yes No 1 - 250 ml plastic Yes No 1 - 250 ml plastic Yes No Shipped: Pace Courier Pickup Drop-off Albany Service Center
Comments/Notes:	Laboratory: Pace Analytical Greensburg, PA

National Grid Kingsley Avenue, Rome, New York

Kingsley Avenue, Rome, i	VOW FOIR						
Sampling Personnel:	K			Date: (	0/7/16		
Job Number: 06-03000-	134400-221			Weather:	Sum	650	
Well Id. LTMW-S05				Time In:	13:40		14:20
Well Information							<b>5 4</b>
Donth to Motor	" " » l <i>1</i>	TOC	Other	Well Type: Well Locke		shmount	Stick-Up
Depth to Water:  Depth to Bottom:	(feet)	16.83			ea: Point Marked:	Yes Yes	No No
Depth to Product:	(feet)	10.00		Well Mater			ther:
Length of Water Column:	(feet)	7.19		Well Diam	eter: 1'	2" 0	ther:
Volume of Water in Well:	(gal)	1.15		Comments	:		
Three Well Volumes:	(gal)	3.43					
Dunaina Information		3.5					
Purging Information	_					Conversion	Factors
Purging Method:	Bailer	Peristaltion	Grund	fos Pump	gal/ft.	1" ID 2" ID	4" ID 6" ID
Tubing/Bailer Material:	Teflon			yethylene	of		
Sampling Method:	Bailer		Grund	fos Pump	water	0.04 0.16	
Average Pumping Rate:  Duration of Pumping:	(ml/min) (min)	30			1 gall	lon=3.785L=3785	mL=133/cu. feet
Total Volume Removed:	(gal)		oid well go dry?	Yes No	$\Box$		
Horiba U-52 Water Quality			No No				
Floriba 0-52 Water Quality	- Weter Osed?						
Time DTW	Temp	рН	ORP	Conductivity	Turbidity	DO	TDS
(feet)	(°C)	7.22	(mV)	(mS/cm)	(NTU)	(mg/L)	(g/L)
13:45 10.03	15-69	7.04	-9	0.338	10.6	0-00	0.220
13:50 70-04	14.22	7.04	710	0.401	10-2	0-W	0251
13:55 10.04	14.14	7.04	-13	0.402	10.4	0-00	0-264
14:00 10:04	14.17	7.03	-12	0-414	8-5	Ord	0.267
14:05 10.09	14-10	7-00	-/3	0.427	100062	000	0269
14:10 10.07	14.10	6.99	-15	0.430	5.8	0.00	0.267
							+
Sampling Information:							
ounipining milemination.							
EPA SW-846 Method 827	0 SVOC F	'AH's			2 - 1 liter ambe	ers Yes	No No
EPA SW-846 Method 826					3 - 40 ml vial		
EPA Method 335.4	Cyani				1 - 250 ml plas		
EPA Method 200.7	Meta	S			1 - 250 ml plas	tic Yes	No No
Sample ID: LTMW-S0	<b>5-0618</b> Dup	olicate?	Yes No No	Shi	pped: Pa	ace Courier Pick	kup 🔀
Sample Time: 19:10	) MS	/MSD?	Yes No X		Drop-of	f Albany Service	e Center
Comments/Notes:					_aboratory:	Pace And Greensbu	(5)

<b>5</b> ,		3W 10/K						
Sampling Per	rsonnel:	90			Date:	4/4/18		
Job Number:	06-03000-1	34400-221			Weather:	650- Cio	- fian	
Well Id.	LTMW-D06				Time In:	1315	Time Out	: 1355
Well In	formation							
			TOC	Other	Well Type			Stick-Up
Depth to Wat		(feet)	12.42		Well Lock		Yes	No
Depth to Bott Depth to Prod		(feet)	52.22 NP		Measuring I Well Mate	Point Marked:	Yes X Otl	No her:
Length of Wa		(feet)	39.8		Well Diam		2" Oti	
Volume of Wa		(gal)	6.3		Comments		L - KJ	
Three Well V	olumes:	(gal)	19.1		8			
Purging I	Information	-						
Purging Meth	-od-	— Poils	Peristaltio	Crund			Conversion F	Factors 4" ID 6" ID
Tubing/Bailer	***************************************	Baile Teflor			fos Pump yethylene	gal/ft.	1" ID 2" ID	4"10 0 10
Sampling Met		Baile			fos Pump	water	0.04 0.16	0.66 1.47
Average Pum		(ml/min)	200				lon=3.785L=3785n	
Duration of Po		(min)	30					
Total Volume	Removed:	(gal)	2.0	Did well go dry?	Yes No	V		
Horiba U-52 V	Water Quality N	√leter Used?	Yes	No No				
							-	
				Z-2000				
Time	DTW	Temp	рН	ORP	Conductivity	Turbidity	DO	TDS
	(feet)	(°C)		(mV)	(mS/cm)	(NTU)	(mg/L)	(g/L)
1315	(feet)	(°C)	8.62	(mV) -93	(mS/cm) 0.438	(NTU)	(mg/L)	(g/L) の、280
1315	(feet) 13.20 13.45	(°C) 14.95 14.43	8.62	(mV) -93	(mS/cm) 0.438 0.376	(NTU) のほ さる	(mg/L) 2,34 1,72	(g/L) 0.280 0.244
1315	(feet) 13.20 13.45	(°C) 14.95 14.43	8.62 9.00 8.95	(mV) -93 -114 -106	(mS/cm) 0.438 0.376 0.398	(NTU) 0.8 0.3	(mg/L) 2134 1172 0.18	(g/L) 0.280 0.244 0.259
1315	(feet) 13.20 13.45	(°C) 14.95 14.43	8.62 9,00 8.95 8.89	(mV) -93	(mS/cm) 0.438 0.376	(NTU) のほ さる	(mg/L) 2,34 1,72 0,18 0.00	(g/L) 0.280 0.244 0.259 0.276
1315 1320 1325 1330 1335 1340	(feet) 13.20 13.45 13.55 13.60	(°C) 14.95 14.43 14.21 14.23 14.24 14.28	8.62 9.00 8.95	(mV) -93 -114 -106 -100 -94 -89	(mS/cm) 0.438 0.376 0.398 0.423	(NTU) 0.8 0.3 0.5	(mg/L) 2134 1172 0.18	(g/L) 0.280 0.244 0.259 0.276 0.290 0.298
1315 1320 1325 1330 1335	(feet) 13.20 13.45 13.55 13.60 13.60	(°C) 14.95 14.43 14.21 14.23 14.24	8.62 9,00 8.95 8.89 8.83	(mV) -93 -114 -106 -100	(mS/cm) 0.438 0.376 0.398 0.423 0.446	(NTU) 0.8 0.3 0.5 0.5	(mg/L) 2134 1172 0.18 0.00 0.00	(g/L) 0.280 0.244 0.259 0.276 0.290
1315 1320 1325 1330 1335 1340	(feet) 13.20 13.45 13.55 13.60 13.60	(°C) 14.95 14.43 14.21 14.23 14.24 14.28	8.62 9.00 8.95 8.83 8.83	(mV) -93 -114 -106 -100 -94 -89	(mS/cm) 0.438 0.376 0.398 0.423 0.446 0.458	(NTU) 0.8 0.3 0.5 0.5 0.5	(mg/L) 2134 1172 0.12 0.00 0.00	(g/L) 0.280 0.244 0.259 0.276 0.290 0.298
1315 1320 1325 1330 1335 1340	(feet) 13.20 13.45 13.55 13.60 13.60	(°C) 14.95 14.43 14.21 14.23 14.24 14.28	8.62 9.00 8.95 8.83 8.83	(mV) -93 -114 -106 -100 -94 -89	(mS/cm) 0.438 0.376 0.398 0.423 0.446 0.458	(NTU) 0.8 0.3 0.5 0.5 0.5	(mg/L) 2134 1172 0.12 0.00 0.00	(g/L) 0.280 0.244 0.259 0.276 0.290 0.298
1315 1320 1325 1330 1335 1340	(feet) 13.20 13.45 13.55 13.60 13.60	(°C) 14.95 14.43 14.21 14.23 14.24 14.28	8.62 9.00 8.95 8.83 8.83	(mV) -93 -114 -106 -100 -94 -89	(mS/cm) 0.438 0.376 0.398 0.423 0.446 0.458	(NTU) 0.8 0.3 0.5 0.5 0.5	(mg/L) 2134 1172 0.12 0.00 0.00	(g/L) 0.280 0.244 0.259 0.276 0.290 0.298
1315 1320 1325 1330 1335 1340	(feet) 13.20 13.45 13.55 13.60 13.60	(°C) 14.95 14.43 14.21 14.23 14.24 14.28	8.62 9.00 8.95 8.83 8.83	(mV) -93 -114 -106 -100 -94 -89	(mS/cm) 0.438 0.376 0.398 0.423 0.446 0.458	(NTU) 0.8 0.3 0.5 0.5 0.5	(mg/L) 2134 1172 0.12 0.00 0.00	(g/L) 0.280 0.244 0.259 0.276 0.290 0.298
1315 1320 1325 1330 1335 1340 1345	(feet) 13.20 13.45 13.55 13.60 13.60 13.60 13.60	(°C) 14.95 14.43 14.21 14.23 14.24 14.28	8.62 9.00 8.95 8.83 8.83	(mV) -93 -114 -106 -100 -94 -89	(mS/cm) 0.438 0.376 0.398 0.423 0.446 0.458	(NTU) 0.8 0.3 0.5 0.5 0.5	(mg/L) 2134 1172 0.12 0.00 0.00	(g/L) 0.280 0.244 0.259 0.276 0.290 0.298
1315 1320 1325 1330 1335 1340	(feet) 13.20 13.45 13.55 13.60 13.60 13.60 13.60	(°C) 14.95 14.43 14.21 14.23 14.24 14.28	8.62 9.00 8.95 8.83 8.83	(mV) -93 -114 -106 -100 -94 -89	(mS/cm) 0.438 0.376 0.398 0.423 0.446 0.458	(NTU) 0.8 0.3 0.5 0.5 0.5	(mg/L) 2134 1172 0.12 0.00 0.00	(g/L) 0.280 0.244 0.259 0.276 0.290 0.298
1315 1320 1325 1330 1335 1340 1345	(feet) 13.20 13.45 13.55 13.60 13.60 13.60 13.60	(°C) 14.95 14.43 14.21 14.23 14.24 14.28	8.62 9.00 8.95 8.89 8.83 8.80 8.81	(mV) -93 -114 -106 -100 -94 -89	(mS/cm) 0.438 0.376 0.398 0.423 0.446 0.458	(NTU) 0.8 0.3 0.5 0.5 0.5	(mg/L) 2,34 1,72 0,18 0,00 0,00 0,00	(g/L) 0.280 0.244 0.259 0.276 0.290 0.298
1315 1320 1325 1330 13735 1340 1345 Sampling Info	(feet) 13.20 13.45 13.55 13.60 13.60 13.60	(°C) 14.95 14.43 14.23 14.23 14.24 14.28 14.30	8.62 9,00 8.95 8.83 8,80 8.81	(mV) -93 -114 -106 -100 -94 -89	(mS/cm) 0.438 0.376 0.398 0.423 0.446 0.458	(NTU) 0.8 0.3 0.5 0.5 0.1	(mg/L) 2,34 1,72 0,18 0,00 0,00 0,00	(g/L) 0.280 0.244 0.259 0.276 0.298 0.300
1315   1370   1325   1330   1335   1340   134-5   Sampling Info   EPA SW-84   EPA SW-84	(feet) 13.20 13.45 13.55 13.60 13.60 13.60 13.60	(°C) 14.95 14.43 14.23 14.23 14.24 14.28 14.30	8.62 9,00 8.95 8.89 8.80 8.81	(mV) -93 -114 -106 -100 -94 -89	(mS/cm) 0.438 0.376 0.398 0.423 0.446 0.458	(NTU)  0.8  0.3  0.5  0.5  0.1  0.1	(mg/L) 2,34 1,72 0,18 0,00 0,00 0,00 0,00 0,00 0,00 0,00	(g/L) 0.280 0.244 0.259 0.276 0.298 0.300
1315   1320   1325   1330   1335   1340   1345   1345   1345   1345	(feet) (3.20 13.45 13.55 13.60 13.60 13.60 15.60	(°C) 14.95 14.43 14.23 14.24 14.28 14.30 SVOC P	8.62 9,00 8.95 8.83 8.80 8.81	(mV) -93 -114 -106 -100 -94 -89	(mS/cm) 0.438 0.376 0.398 0.423 0.446 0.458	(NTU)  (N	(mg/L) 2.134 1.172 0.12 0.00 0.00 0.00 0.00 0.00 ers Yes s Yes tic Yes	(g/L) 0.280 0.244 0.259 0.1276 0.290 0.298 0.300
1315   1320   1325   1330   12735   1340   1345   1345   EPA SW-84   EPA SW-84   EPA Me	(feet) (3.20 13.45 13.55 13.60 13.60 13.60 13.60 13.60 13.60 146.60 15.60 15.60 15.60 15.60 15.60 15.60 15.60 15.60 15.60 15.60	(°C) 14.95 14.43 14.23 14.24 14.28 14.30 SVOC F VOC'S E Cyanic Metal	8.62 9,00 8.95 8.83 8.80 8.81	(mV) -93 -114 -106 -100 -94 -89 -90	(mS/cm) 0.438 0.376 0.398 0.423 0.423 0.446 0.458 0.460	(NTU)  (N	ers Yes tic Yes tic Yes	(g/L) 0.280 0.244 0.259 0.276 0.298 0.300
1315   1370   1325   1330   1235   1340   1345 	(feet) (3.70 13.45 13.55 13.60 13.60 13.60 13.60 15.60 15.60 16.60	(°C)   14.95   14.43   14.23   14.24   14.28   14.30   SVOC P VOC's E Cyanic Metal	8.62 9.00 8.45 8.89 8.80 8.81	(mV) -93 -114 -106 -100 -94 -90	(mS/cm) 0.438 0.376 0.398 0.423 0.423 0.446 0.458 0.460	(NTU)  O B  O S  O S  O S  O S  O S  O S  O S	ers Yes tic Yes ace Courier Picket	(g/L) 0.280 0.244 0.259 0.276 0.298 0.300
1315   1370   1325   1330   1235   1340   134-5   13	(feet) (3.70 13.45 13.55 13.60 13.60 13.60 15.60	(°C)   14.95   14.43   14.23   14.24   14.28   14.30   SVOC P VOC's E Cyanic Metal	8.62 9.00 8.45 8.89 8.80 8.81	(mV) -93 -114 -106 -100 -94 -89 -90	(mS/cm) 0.438 0.376 0.398 0.423 0.423 0.446 0.458 0.460	(NTU)  O B  O S  O S  O S  O S  O S  O S  O S	ers Yes tic Yes tic Yes	(g/L) 0.280 0.244 0.259 0.276 0.296 0.298 0.300
315   1370   1325   1330   1235   1340   1345   1	(feet) (3.70 13.45 13.55 13.60 13.60 13.60 15.60	(°C)   14.95   14.43   14.23   14.24   14.28   14.30   SVOC F VOC's E Cyanic Metal	8.62 9.00 8.45 8.89 8.80 8.81	(mV) -93 -114 -106 -100 -94 -90	(mS/cm) 0.438 0.376 0.398 0.423 0.423 0.446 0.460	(NTU)  O B  O S  O S  O S  O S  O S  O S  O S	ers Yes tic Yes ace Courier Picket	(g/L)  0.280  0.244  0.259  0.298  0.300  No  No  No  No  No  No  No  No  No

Tringsicy 71vc	enue, Rome, Ne							
Sampling Per	rsonnel:	PO			Date:	6/7/10	8	2
Job Number:		34400-221		W	Weather:	650-1	overcast	Ĺ
Well Id.	LTMW-S06				Time In:	1225	Time Out:	1310
Well In	formation							ARGE
			TOC	Other	Well Type			Stick-Up
Depth to Wat		(feet)	13.26		Well Lock		Yes	No
Depth to Bott Depth to Prod		(feet)	17.60 NP		Measuring   Well Mate	Point Marked:	Yes X Ott	No her:
Length of Wa		(feet)	434		Well Diam			her: her:
Volume of Wa		(gal)	0.69		Comments		LJ - KJ	
Three Well V	olumes:	(gal)	2.10					
Puraina I	Information							
1 4.99	mornaco	•					Conversion F	actors
Purging Meth	od:	Bailer	Peristaltic	Grundf	os Pump	gal/ft.	1" ID 2" ID	4" ID 6" ID
Tubing/Bailer		Teflon			ethylene	of		
Sampling Met		Bailer		Grundf	os Pump	water	0.04 0.16	0.66   1.47
Average Pum Duration of Pu			30			1 gai	lon=3.785L=3785n	nL=1337cu. feet
Total Volume		(min) (gal)		oid well go dry?	Yes No			
	Water Quality M			No No	100			
TUIDA U-UZ V	/Valer Quanty iv	leter Useu:	1 60					
Time	DTW	Temp	рН	ORP	Conductivity	Turbidity	DO	TDS
	(feet)	(°C)		ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	TDS (g/L)
1230	(feet)	(°C)	7-84	(mV)	(mS/cm)	(NTU) 33 と	A100000000	(g/L) 0-964
1230	(feet) 13.40	(°C) 16.89 14.62	7.84	(mV) -27 -48	(mS/cm)	(NTU) 33.8 13.1	(mg/L) 0.00	(g/L) 0964 1.03
1230 1235 1240	(feet) 13.40 13.40	(°C) 16.89 14.62 13.30	7.84	(mV) -27 -48 -51	(mS/cm)	(NTU) 338 13.1 15.0	(mg/L) 0.00 0.00 0.00	(g/L) 0964 1.03
1230 1235 1240 1245	(feet) 13.40 13.40 13.40	(°C)   (6.89   14.62   13.30   12.85	7.84 7.77 7.71 7.71	(mV) -27 -48 -51 -54	(mS/cm) 1.51 1.60 1.65	(NTU) 33 & 13:1 15:0 120	(mg/L) 0.00 0.00 0.00 0.00	(g/L) 0.964 1.03 1.05
1230 1235 1240	(feet) 13.40 13.40	(°C) 14.62 13.30 12.85 12.88	7.84 7.77 7.71 7.72 7.66	(mV) -27 -48 -51	(mS/cm) 1.51 1.60 1.65 1.67	(NTU) 338 13:1 15:0 12:0	(mg/L)  0.00  0.00  0.00  0.00	(g/L) 0964 1.03 1.05 1.07
1230 1235 1240 1245	(feet) 13.40 13.40 13.40	(°C)   (6.89   14.62   13.30   12.85	7.84 7.77 7.71 7.71	(mV) -27 -48 -51 -51 -54	(mS/cm) 1.51 1.60 1.65	(NTU) 33 & 13:1 15:0 120	(mg/L) 0.00 0.00 0.00 0.00	(g/L) 0.964 1.03 1.05
1230 1235 1240 1245 1250	(feet) 13.40 13.40 13.40 13.40	(°C) 14.62 13.30 12.85 12.88 12.68	7.84 7.71 7.71 7.66 7.67	(mV) -24 -48 -51 -54 -52 -64	(mS/cm) 1151 1165 1167 1167	(NTU)  33 & 13:1 15:0 12:0 6-8: 5:2	(mg/L)  0.00  0.00  0.00  0.00  0.00	(g/L) 0.964 1.03 1.05 1.07 1.07
1230 1235 1240 1245 1250	(feet) 13.40 13.40 13.40 13.40	(°C) 14.62 13.30 12.85 12.88 12.68	7.84 7.71 7.71 7.66 7.67	(mV) -24 -48 -51 -54 -52 -64	(mS/cm) 1151 1165 1167 1167	(NTU)  33 & 13:1 15:0 12:0 6-8: 5:2	(mg/L)  0.00  0.00  0.00  0.00  0.00	(g/L) 0.964 1.03 1.05 1.07 1.07
1230 1235 1240 1245 1250	(feet) 13.40 13.40 13.40 13.40	(°C) 14.62 13.30 12.85 12.88 12.68	7.84 7.71 7.71 7.66 7.67	(mV) -24 -48 -51 -54 -52 -64	(mS/cm) 1151 1165 1167 1167	(NTU)  33 & 13:1 15:0 12:0 6-8: 5:2	(mg/L)  0.00  0.00  0.00  0.00  0.00	(g/L) 0.964 1.03 1.05 1.07 1.07
1230 1235 1240 1245 1250	(feet) 13.40 13.40 13.40 13.40	(°C) 14.62 13.30 12.85 12.88 12.68	7.84 7.71 7.71 7.66 7.67	(mV) -24 -48 -51 -54 -52 -64	(mS/cm) 1151 1165 1167 1167	(NTU)  33 & 13:1 15:0 12:0 6-8: 5:2	(mg/L)  0.00  0.00  0.00  0.00  0.00	(g/L) 0.964 1.03 1.05 1.07 1.07
1230 1235 1240 1245 1250	(feet) 13.40 13.40 13.40 13.40 13.40	(°C) 14.62 13.30 12.85 12.88 12.68	7.84 7.71 7.71 7.66 7.67	(mV) -24 -48 -51 -54 -52 -64	(mS/cm) 1151 1165 1167 1167	(NTU)  33 & 13:1 15:0 12:0 6-8: 5:2	(mg/L)  0.00  0.00  0.00  0.00  0.00	(g/L) 0.964 1.03 1.05 1.07 1.07
1230 1235 1240 1245 1250 1255 1300	(feet) 13.40 13.40 13.40 13.40 13.40	(°C) 14.62 13.30 12.85 12.88 12.68	7.84 7.71 7.71 7.66 7.67	(mV) -24 -48 -51 -54 -52 -64	(mS/cm) 1151 1165 1167 1167	(NTU)  33 & 13:1 15:0 12:0 6-8: 5:2	(mg/L)  0.00  0.00  0.00  0.00  0.00	(g/L) 0.9(4 1.03 1.05 1.07 1.07
1230 1235 1240 1245 1250 1255 1300	(feet) 13.40 13.40 13.40 13.40 13.40	(°C) 14.62 13.30 12.85 12.88 12.68	7.84 7.71 7.71 7.66 7.67 7.66	(mV) -24 -48 -51 -54 -52 -64	(mS/cm) 1151 1165 1167 1167	(NTU)  33 & 13:1 15:0 12:0 6-8: 5:2	(mg/L)  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00	(g/L) 0.964 1.03 1.05 1.07 1.07 1.07
1230   1240   1245   1250	(feet) (3.40 13.40 13.40 13.40 13.40 13.40 13.40 13.40 46.40	(°C) 14.62 13.30 12.85 12.88 12.68 12.70 SVOC P	7.84 7.77 7.71 7.66 7.67 7.66	(mV) -24 -48 -51 -54 -52 -64	(mS/cm) 1151 1165 1167 1167	(NTU)  33 & (3.1)  15.0  12.0  6-8.  5:2  5:0  2-1 liter ambe 3-40 ml viale	(mg/L) 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	(g/L) 0.964 1.03 1.05 1.07 1.07 1.07
1230   1235   1240   1245   1250   1255   1300   1255   1300   1255   1300   1255   1256    (feet) 13.40	(°C) 14.62 13.30 12.85 12.68 12.68 12.68 12.68 12.68 12.68 12.68 12.68 12.68 12.68 12.68 12.68 12.68 12.68 12.83	7.84 7.71 7.71 7.66 7.67 7.66	(mV) -24 -48 -51 -54 -52 -64	(mS/cm) 1151 1165 1167 1167	(NTU)  338  13.1  15.0  12.0  6.8.  5.2  5.0  2 - 1 liter ambe 3 - 40 ml vial. 1 - 250 ml plas	(mg/L)  0.00  0.00  0.00  0.00  0.00  0.00  0.00  vers  Yes s Yes tic Yes	(g/L) 0.9(4) 1.03 1.05 1.07 1.07 1.07	
1230   1235   1240   1245   1250   1255   1300   1255   1300   1255   1300   1255   1256    (feet) (3.40 13.40 13.40 13.40 13.40 13.40 13.40 13.40 46.40	(°C) 14.62 13.30 12.85 12.88 12.68 12.70 SVOC P	7.84 7.71 7.71 7.66 7.67 7.66	(mV) -24 -48 -51 -54 -52 -64	(mS/cm) 1151 1165 1167 1167	(NTU)  33 & (3.1)  15.0  12.0  6-8.  5:2  5:0  2-1 liter ambe 3-40 ml viale	(mg/L)  0.00  0.00  0.00  0.00  0.00  0.00  0.00  vers  Yes s Yes tic Yes	(g/L) 0.9(4) 1.03 1.05 1.07 1.07 1.07	
1230   1235   1240   1245   1250   1255   1300   1255   1300   1255   1300   1255   1256    (feet) 13.40	(°C)   (.89   14.62   3.30   12.85   12.68   12.68   12.68   Cyanic Metal	7.84 7.71 7.71 7.66 7.61 7.66 7.63 8 TEX	(mV) -24 -48 -51 -54 -52 -64	(mS/cm) 1.51 1.60 1.65 1.67 1.67 1.67 1.67	(NTU)  33 & 1 15 0 12 0 6-8 - 5-2 5-0  2-1 liter ambe 3-40 ml vial: 1-250 ml plas 1-250 ml plas	(mg/L)  0.00  0.00  0.00  0.00  0.00  0.00  0.00  vers  Yes s Yes tic Yes	(g/L) 0.9(4 1.03 1.05 1.07 1.07 1.07 1.07 1.07 1.07 1.07	
1230   1245   1250   1255	(feet) (3.40 13.40	(°C)   (.89   14.62   (3.30   12.85   12.68	7.84 7.77 7.46 7.66 7.66 7.66 7.66 8 TEX	(mV) -27 -48 -51 -51 -54 -52 -64	(mS/cm) 1.51 1.60 1.65 1.67 1.67 1.67 1.67	(NTU)  338  13.1  15.0  12.0  6.8  5.2  5.0  2 - 1 liter ambe 3 - 40 ml vial 1 - 250 ml plas 1 - 250 ml plas ipped: Pa	ers Yes stic Yes tic Yes	(g/L) 0.9(4 1.03 1.05 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07
Sampling Inf  EPA SW-84  EPA MG  Sample ID:	(feet) (3.40 14.60 14.60 15.60	(°C)   (.89   14.62   (3.30   12.85   12.68	7.84 7.77 7.46 7.66 7.66 7.66 7.66 8 TEX	(mV) -27 -48 -51 -51 -54 -52 -64 -54	(mS/cm) 1.51 1.60 1.65 1.67 1.67 1.67	(NTU)  338  13.1  15.0  12.0  6.8  5.2  5.0  2 - 1 liter ambe 3 - 40 ml vial 1 - 250 ml plas 1 - 250 ml plas ipped: Pa	ers Yes tic Yes ace Courier Picket	(g/L) 0.9(4 1.03 1.05 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07

	ß						
Sampling Personnel:	K			Date:	6/7/10	8	
Job Number: 06-03000-13	34400-221			Weather:	PC	1	. 7
Well Id. LTMW-S07				Time In:	12-0	Time Ou	
Well Information							
		TOC	Other	Well Type		shmount	Stick-Up
Depth to Water:	(feet)	17.00		Well Lock		Yes	No
Depth to Bottom:  Depth to Product:	(feet)	17.82		Measuring Well Mate	Point Marked:	Yes X SS 0	No
Length of Water Column:		0-710		Well Diam			ther:
Volume of Water in Well:	(gal)	08		Comments		L - L -	
Three Well Volumes:		3.24					
				225			
Purging Information	AAAA				1000	17 - 18 - 18 - 18 - 18 - 18 - 18 - 18 -	
	•		()			Conversion	Factors
Purging Method:	Bailer	Peristaltio	Grund	fos Pump	gal/ft.	1" ID 2" ID	4" ID 6" ID
Tubing/Bailer Material:	Teflon	Stainless St		yethylene	of		
Sampling Method:	Bailer	Peristaltio	Grund	fos Pump	water	0.04 0.16	
Average Pumping Rate:  Duration of Pumping:		30			1 gal	lon=3.785L=3785	mL=1337cu. feet
Total Volume Removed:	(gal)		oid well go dry?	Yes No	A -		
Horiba U-52 Water Quality M			No		9		
Tionba 0-32 Water Quality W	meter osea:	165					
Time DTW	Temp	рН	ORP	Conductivity	Turbidity	DO	TDS
(feet)	(°C)	•	ORP (mV)	(mS/cm)	(NTU)	DO (mg/L)	TDS (g/L)
(feet) 12:05 12436	(°C) 13.10	7:17	(mV) ~40	(mS/cm)	(NTU)	(mg/L)	
(feet)	(°C)	7:17	(mV)	(mS/cm)	(NTU)	(mg/L)  O-00	
(feet) 12:05 12436	(°C) 13.10	7:17	(mV) ~40	(mS/cm)	(NTU)	(mg/L)  O-00  O-00	
(feet) 12:05 12:36 12:10 12:46 12:15 12:85	(°C) 13.1°C 11.68 11.12	7.17 7.22 7.21	(mV) -48 -50 -49	(mS/cm) 6 - 763 6 - 714 6 - 727	(NTU) SI-2 23.0 4.5	(mg/L)  (mg/L)  (c) (c) (c) (c) (c) (d)	
(feet) 12:05 12:30 12:10 12:46 12:15 12:05 12:20 12:94	(°C) 13.1°C 11.68 11-12 10.95	7.17 7.22 7.21	(mV) -48 -50 -49 -47 -45 -42	(mS/cm) 6-763 6-714 6-727 6-727	(NTU) SI-2 23.0 4.5	(mg/L)  O-00  O-00	
(feet)  12:05 12036  12:05 12-66  12:15 12-85  12:20 12-94  12:25 13.00	(°C) 13.1°C 11.68 11-12 10.95	7.17 7.22 7.21	(mV) -48 -50 -49 -47	(mS/cm) 6-763 6-714 6-727 6-727	(NTU) SI-2 23.0 4.5	(mg/L)  O-00  O-00  O-00  O-00  O-00	
(feet)  12:05 12036  12:05 12.66  12:15 12.85  12:20 12.94  12:25 13.00	(°C) 13.1°C 16.68 11.12 10.95 10.99 11.04	7.17 7.22 7.21	(mV) -48 -50 -49 -47 -45 -42	(mS/cm) 6-763 6-714 6-727 6-727 0-727 0-727	(NTU) SI-2 23.0 4.5	(mg/L)  (mg/L)  (c)  (c)  (c)  (c)  (d)  (d)	
(feet)  12:05 12036  12:05 12.66  12:15 12.85  12:20 12.94  12:25 13.00	(°C) 13.1°C 16.68 11.12 10.95 10.99 11.04	7.17 7.22 7.21	(mV) -48 -50 -49 -47 -45 -42	(mS/cm) 6-763 6-714 6-727 6-727 0-727 0-727	(NTU) SI-2 23.0 4.5	(mg/L)  (mg/L)  (c)  (c)  (c)  (c)  (d)  (d)	
(feet)  12:05 12036  12:05 12.66  12:15 12.85  12:20 12.94  12:25 13.00	(°C) 13.1°C 16.68 11.12 10.95 10.99 11.04	7.17 7.22 7.21	(mV) -48 -50 -49 -47 -45 -42	(mS/cm) 6-763 6-714 6-727 6-727 0-727 0-727	(NTU) SI-2 23.0 4.5	(mg/L)  (mg/L)  (c)  (c)  (c)  (c)  (d)  (d)	
(feet) [2:05   2030 [2:05   12.05 [2:15   12.05 [2:20   2.94 [2:35   13.00 [2:30   13.00 [2:35   13.13	(°C) 13.1°C 16.68 11.12 10.95 10.99 11.04	7.17 7.22 7.21	(mV) -48 -50 -49 -47 -45 -42	(mS/cm) 6-763 6-714 6-727 6-727 0-727 0-727	(NTU) SI-2 23.0 4.5	(mg/L)  (mg/L)  (c)  (c)  (c)  (c)  (d)  (d)	
(feet)  12:05 12036  12:05 12-66  12:15 12-85  12:20 12-94  12:25 13.00	(°C) 13.1°C 16.68 11.12 10.95 10.99 11.04	7.17 7.22 7.21	(mV) -48 -50 -49 -47 -45 -42	(mS/cm) 6-763 6-714 6-727 6-727 0-727 0-727	(NTU) SI-2 23.0 4.5	(mg/L)  (mg/L)  (c)  (c)  (c)  (c)  (d)  (d)	
(feet)  12:05 12:36  12:05 12:36  12:15 12:05  12:20 12:94  12:30 13:00  12:30 13:00  12:35 13:13	(°C) 13.1°C 11.68 11.12 10.95 10.99 11.04 10.76	7.17 7.22 7.19 7.17 7.15 7.11	(mV) -48 -50 -49 -47 -45 -42	(mS/cm) 6-763 6-714 6-727 6-727 0-727 0-727	(NTU) \$1.2 23.8 4.5 3.2 7.7 7.7	(mg/L)  (mg/L)  (mg/L)  (mg/L)  (c)  (c)  (c)  (c)  (c)  (c)  (c)  (	(g/L) 0.450 0.459 0.465 0.466 0.466 0.466
(feet) (72:05 / 2036 (72:05 /	(°C) 13.1°C 11.68 11.12 10.95 10.99 11.04 10.76	7-17 7-22 7-19 7-17 7-11	(mV) -48 -50 -49 -47 -45 -42	(mS/cm) 6-763 6-714 6-727 6-727 0-727 0-727	(NTU) \$1-2 23.8 4.5 3.2 7.7 7.7	(mg/L)  (mg/L)  (mg/L)  (c)  (c)  (c)  (c)  (c)  (c)  (c)  (	(g/L) 0.450 0.459 0.466 0.466 0.466
(feet)  12:05 12:36  12:05 12:36  12:15 12:05  12:20 12:94  12:30 13:00  12:30 13:00  12:35 13:13	(°C) (3.1°C) (1.6°R) (1.12) (0.98) (0.99) (1.04) (0.76) SVOC PA	7-17 7-22 7-19 7-19 7-15 7-11	(mV) -48 -50 -49 -47 -45 -42	(mS/cm) 6-763 6-714 6-727 6-727 0-727 0-727	(NTU) \$1-2 23.0 4-5 3.2 7.7 7.7 2-1 liter amberon and a 40 ml viale	(mg/L)  Oral	(g/L) 0.450 0.459 0.465 0.466 0.466 0.466 0.466
(feet) (72:05 / 236 (72:05 / 236 (72:05 / 236 (72:05 / 236 (72:05 / 236 (72:05 / 236 (72:05 / 236 (72:05 / 3.00 (7	(°C) 13.1°C 11.68 11.12 10.95 10.99 11.04 10.76	7-17 7-22 7-19 7-17 7-11	(mV) -48 -50 -49 -47 -45 -42	(mS/cm) 6-763 6-714 6-727 6-727 0-727 0-727	(NTU) \$1-2 23.8 4.5 3.2 7.7 7.7	ers Yes	(g/L) 0.450 0.459 0.465 0.466 0.466 0.466 0.466 0.466
(feet) (72:05 / 2036 (72:05 /	(°C) (3.76 11.68 11.12 10.99 11.04 10.76  SVOC PA VOC's BT Cyanide Metals	7-17 7-22 7-19 7-19 7-15 7-11	(mV) -48 -50 -49 -47 -45 -42 -39	(mS/cm) 6-763 6-763 6-714 6-727 0-727 0-727 0-727	(NTU) 51-2 	ers Yes tic Yes tic Yes	(g/L) 0.450 0.459 0.464 0.464 0.466 0.466 0.466 0.466 0.466
(feet)  12:05 12:36  12:05 12:36  12:15 12:25  12:20 12:94  12:35 13:00  12:30 13:00  12:30 13:00  12:35 13:13  Sampling Information:  EPA SW-846 Method 8270  EPA SW-846 Method 8260  EPA Method 335.4	(°C) (3.76 (1.68 (1.12 (0.95 (0.99 (0.76 VOC's BT Cyanide Metals	7-17 7-22 7-19 7-19 7-11 7-11	(mV) -48 -50 -49 -47 -45 -42	(mS/cm) 6-763 6-763 6-714 6-727 0-727 0-727 0-727	(NTU) 2-2 3-2 7-7 2-1 liter ambe 3-40 ml vial 1-250 ml plas 1-250 ml plas pped: Pa	ers Yes	(g/L) 0.450 0.459 0.464 0.466 0.466 0.466 0.466 0.466 0.466

Killysiey Ave	enue, Rome, N	EW TOIK						
Sampling Pe	rsonnel:	90			Date:	6/7/18		
Job Number:		34400-221			Weather:	65°- a	vercast	
Well Id.	LTMW-S08				Time In:	4251130	Time Out	:1210
Well In	formation		T00	0.11	141 OF THE SEC.			
Depth to Wat	tor:	(feet)	TOC 15.70	Other	Well Type Well Locke		shmount Yes	Stick-Up No
Depth to Bott		(feet)	17.39			eu. Point Marked:	Yes	No
Depth to Prod	duct:	(feet)	NP		Well Mater			ther:
Length of Wa		(feet)	1169		Well Diam		' 2"\_Ot	her:
Volume of Ware Three Well V		(gal)	0.28		Comments	<b>&gt;</b> :		
THIEG VVGII V	Olumes.	(gal)	0.81		-			
Purging I	Information							
Danie Math	1.						Conversion	
Purging Meth Tubing/Bailer		Baile Teflor	<del></del>		lfos Pump lyethylene	gal/ft.	1" ID 2" ID	4" ID 6" ID
Sampling Met		Baile			fos Pump	of water	0.04 0.16	0.66 1.47
Average Pum			100-160				lon=3.785L=3785r	
Duration of P		(min)	30	200 SE SE SE			30AC	
Total Volume	Removed:	(gal)		Did well go dry?	Yes No			
Horiba U-52 \	Water Quality I	Meter Used?	Yes	s No				
		T	T					·
Time	DTW (feet)	Temp	рН	ORP (m)()	Conductivity	Turbidity	DO (mg/L)	TDS (g/L)
	(feet)	(°C)		(mV)	(mS/cm)	Turbidity (NTU)	(mg/L)	(g/L)
Time	1000	(°C) 14.20 12.44	7-69	0.000	1	(NTU)		1
Time	(feet) 15.90 16.06 1605	(°C) 14.20 12.44 12.46	7.69	(mV) 48 61 71	(mS/cm) 0-629 0-661 0-675	(NTU) 12.4 5.6	(mg/L) 4.58 2.57 1.89	(g/L) 0.403 0.424 0.442
Time 1135 1140 1145 1150	(feet) 15.90 16.06 16.05 16.00	(°C) 14.20 12.44 12.46 13.52	7.69	(mV) 48 61 71 78	(mS/cm) 0.629 0-661 0.695 0.408	(NTU) 124 56 19	(mg/L) 4.58 2.57 1.89	(g/L) 0.403 0.424 0.442 0.455
Time 1135 1140 1145 1150	(feet) 15.90 16.06 16.05 16.00	(°C) 14.20 12.44 12.46 13.52 12.57	7.69 7.65 7.72	(mV) 48 61 71 78	(mS/cm) 0-629 0-661 0-695 0-108 0-1724	(NTU) 12.4 5.6 119 118	(mg/L) 4.58 2.57 1.89 1.40	(g/L) 0.403 0.424 0.442
Time 1135 1140 1145 1150	(feet) 15.90 16.06 16.05 16.00 16.00	(°C) 14.20 12.44 12.46 13.52 12.157 13.56	7.69	(mV) 48 61 71 78 80	(mS/cm) 0.629 0.695 0.695 0.708 0.724 0.724	(NTU) 124 56 19	(mg/L) 4.58 2.57 1.89	(g/L) 0.403 0.424 0.442 0.455
Time 1135 1140 1145 1150 1155 1200	(feet) 15.90 16.06 16.05 16.00	(°C) 14.20 12.44 12.46 13.52 12.57	7.80 7.69 7.68 7.65 7.72 7.71	(mV) 48 61 71 78	(mS/cm) 0-629 0-661 0-695 0-108 0-1724	(NTU) 12.4 5.6 19 18	(mg/L) 4.58 2.57 1.89 1.40 0.66 0.58	(g/L) 0.403 0.424 0.442 0.455 0.464 0.465
Time 1135 1140 1145 1150 1155 1200	(feet) 15.90 16.06 16.05 16.00 16.00	(°C) 14.20 12.44 12.46 13.52 12.157 13.56	7.80 7.69 7.68 7.65 7.72 7.71	(mV) 48 61 71 78 80	(mS/cm) 0.629 0.695 0.695 0.708 0.724 0.724	(NTU) 12.4 5.6 19 18	(mg/L) 4.58 2.57 1.89 1.40 0.66 0.58	(g/L) 0.403 0.424 0.442 0.455 0.464 0.465
Time 1135 1140 1145 1150 1155 1200	(feet) 15.90 16.06 16.05 16.00 16.00	(°C) 14.20 12.44 12.46 13.52 12.157 13.56	7.80 7.69 7.68 7.65 7.72 7.71	(mV) 48 61 71 78 80	(mS/cm) 0.629 0.695 0.695 0.708 0.724 0.724	(NTU) 12.4 5.6 19 18	(mg/L) 4.58 2.57 1.89 1.40 0.66 0.58	(g/L) 0.403 0.424 0.442 0.455 0.464 0.465
Time 1135 1140 1145 1150 1155 1200	(feet) 15.90 16.06 16.05 16.00 16.00	(°C) 14.20 12.44 12.46 13.52 12.157 13.56	7.80 7.69 7.68 7.65 7.72 7.71	(mV) 48 61 71 78 80	(mS/cm) 0.629 0.695 0.695 0.708 0.724 0.724	(NTU) 12.4 5.6 19 18	(mg/L) 4.58 2.57 1.89 1.40 0.66 0.58	(g/L) 0.403 0.424 0.442 0.455 0.464 0.465
Time 1135 1140 1145 1150 1155 1200	(feet) 15.90 16.06 16.05 16.00 16.03 16.03	(°C) 14.20 12.44 12.46 13.52 12.157 13.56	7.80 7.69 7.68 7.65 7.72 7.71	(mV) 48 61 71 78 80	(mS/cm) 0.629 0.695 0.695 0.708 0.724 0.724	(NTU) 12.4 5.6 19 18	(mg/L) 4.58 2.57 1.89 1.40 0.66 0.58	(g/L) 0.403 0.424 0.442 0.455 0.464 0.465
Time  1135  1140  1145  1150  1155  1200  1205	(feet) 15.90 16.06 16.05 16.00 16.03 16.03	(°C) 14.20 12.44 12.46 13.52 12.157 13.56	7.80 7.69 7.68 7.65 7.72 7.71	(mV) 48 61 71 78 80	(mS/cm) 0.629 0.695 0.695 0.708 0.724 0.724	(NTU) 12.4 5.6 19 18	(mg/L) 4.58 2.57 1.89 1.40 0.66 0.58	(g/L) 0.403 0.424 0.442 0.455 0.464 0.465
Time  1135  1140  1145  1155  1200  1205  Sampling Inf	(feet) (5.90 (6.06	(°C) 14.20 12.44 13.52 12.157 13.56 13.50	7.80 7.69 7.65 7.72 7.71 7.71 7.72	(mV) 48 61 71 78 80	(mS/cm) 0.629 0.621 0.695 0.708 0.724 0.724	(NTU) 12.4 5.6 119 118 113 117 110	(mg/L) 4.58 2.57 1.89 1.40 0.66 0.58 0.56	(g/L) 0.403 0.424 0.442 0.455 0.464 0.465
Time  1135 1140 1145 1156 1200 1205  Sampling Inf  EPA SW-84 EPA SW-84	(feet) (5.90 (6.00	(°C) 14.20 12.46 13.52 12.57 13.56 13.50 SVOC F	7.80 7.69 7.65 7.32 7.71 7.72	(mV) 48 61 71 78 80	(mS/cm) 0.629 0.621 0.695 0.708 0.724 0.724	(NTU) 1 2 4 5 6 1 9 1 1 8 1 3 1 7 1 0 2 - 1 liter ambe 3 - 40 ml vials	(mg/L) 4.58 2.57 1.89 1.40 0.66 0.56 0.56 ers Yes	(g/L) 0.403 0.424 0.442 0.455 0.464 0.465 0.464
Sampling Inf  EPA SW-84  EPA M-84  EPA M-84	(feet) (5.90 (6.06	(°C) 14.20 12.44 13.52 13.54 13.56 13.50 SVOC F VOC's E Cyani	7.80 7.69 7.68 7.65 7.72 7.71 7.72	(mV) 48 61 71 78 80	(mS/cm) 0.629 0.621 0.695 0.708 0.724 0.724	(NTU) 1 2 4 5 6 1 9 1 8 1 3 1 7 1 0 2 - 1 liter ambe 3 - 40 ml vials 1 - 250 ml plas	(mg/L) 4.58 2.57 1.89 1.40 0.66 0.58 0.56 ers Yes s Yes tic Yes	(g/L) 0.403 0.424 0.442 0.455 0.464 0.465
Sampling Inf  EPA SW-84  EPA M-84  EPA M-84	(feet) (5.90 (6.00	(°C) 14.20 12.46 13.52 12.57 13.56 13.50 SVOC F	7.80 7.69 7.68 7.65 7.72 7.71 7.72	(mV) 48 61 71 78 80	(mS/cm) 0.629 0.621 0.695 0.708 0.724 0.724	(NTU) 1 2 4 5 6 1 9 1 1 8 1 3 1 7 1 0 2 - 1 liter ambe 3 - 40 ml vials	(mg/L) 4.58 2.57 1.89 1.40 0.66 0.58 0.56 ers Yes s Yes tic Yes	(g/L) 0.403 0.424 0.442 0.455 0.464 0.465
Sampling Inf  EPA SW-84  EPA M-84  EPA M-84	(feet) (5.90 (6.06	(°C) 14.20 12.46 13.52 12.57 13.56 13.56 13.50 SVOC F VOC's E Cyani Meta	7.69 7.69 7.65 7.72 7.71 7.71 7.72	(mV) 48 61 71 78 80	(mS/cm) 0.629 0.661 0.695 0.708 0.724 0.724	(NTU) 1 2 4 5 6 1 8 1 3 1 7 1 0 2 - 1 liter amberon and a 40 ml vialson and a 40 ml vialson and a 40 ml vialson and a 40 ml plason and a 40	(mg/L) 4.58 2.57 1.89 1.40 0.66 0.58 0.56 ers Yes s Yes tic Yes	(g/L) 0.403 0.424 0.442 0.455 0.464 0.465 0.464
Sampling Inf  EPA SW-84  EPA M  EPA M	(feet) (5.%) (6.0%) (6.	(°C) 14.20 12.44 13.52 12.57 13.56 13.56 13.56 VOC's E Cyani Meta	7.67 7.67 7.65 7.72 7.71 7.72 7.71 7.72 PAH's BTEX ide	(mV) 48 61 71 78 80 81	(mS/cm) 0.629 0.661 0.695 0.708 0.724 0.724	(NTU) 1 7 4 5 6 1 9 1 1 8 1 7 1 7 1 7 1 7 1 7 1 7 1 7 1 7 1 7 1 7	(mg/L) 4.58 2.57 1.89 1.40 0.66 0.58 0.576 ers Yes s Yes tic Yes	(g/L) 0.403 0.424 0.442 0.455 0.464 0.465 0.464
Sampling Inf  EPA SW-84  EPA M  EPA M  Sample ID:	(feet) (5.%) (6.0%) (6.	(°C) 14.20 12.44 13.52 13.56 13.56 13.56 13.50 SVOC F VOC's E Cyani Meta	7.67 7.67 7.65 7.72 7.71 7.72 7.71 7.72 PAH's BTEX ide	(mV) 48 61 71 78 80 81	(mS/cm) 0.629 0.621 0.695 0.724 0.724 0.724	(NTU) 1 7 4 5 6 1 9 1 1 8 1 7 1 7 1 7 1 7 1 7 1 7 1 7 1 7 1 7 1 7	ers Yes tic Yes ace Courier Pick	(g/L) 0.403 0.424 0.442 0.455 0.464 0.465 0.464 0.465 0.464

Kingsley Avenue, Rome, New York		
Sampling Personnel:		Date: 6/7/8
Job Number: 06-03000-134400-221		Weather: Sury 700
Well Id. LTMW-S09		Time In: 14:25 Time Out:
	West Control of the C	
Well Information	TOC Other	Well Type:
Depth to Water: (feet)	TOC Other	Well Type: Flushmount Stick-Up Well Locked: Yes No
Depth to Bottom: (feet)	16.92	Measuring Point Marked: Yes No
Depth to Product: (feet)	6.9	Well Material: PVC SS Other:
Length of Water Column: (feet)	6.82	Well Diameter: 1" 2" Other:
Volume of Water in Well: (gal)  Three Well Volumes: (gal)		Comments:
Three Well Volumes: (gal)		
Purging Information		
		Conversion Factors
Purging Method: Bailer Tubing/Bailer Material: Teflor		gal/ft. 1" ID 2" ID 4" ID 6" ID
Tubing/Bailer Material: Teflor Sampling Method: Bailer		of
Average Pumping Rate: (ml/min)		1 gallon=3.785L=3785mL=1337cu. feet
Duration of Pumping: (min)	30	
Total Volume Removed: (gal)	Did well go dry?	Yes No
Horiba U-52 Water Quality Meter Used?	Yes No	
Time DTW Temp	pH ORP	Conductivity Turbidity DO TDS
(feet) (°C)	(mV)	(mS/cm) (NTU) (mg/L) (g/L) (Q/L) (Q/L) (MS/Cm) (MTU) (
14:30 10:13 12:63	7.33	0.837 32.2 0.57 0.538
14:35 10.13 17.41	7.55 25	6.981 4.4 0-00 0.628
14:40-10-13 12-94	7.54 29	6.982 50 0.00 0.629
14:43 10.13 12.48	7.52 36-	0.978 4-1 6.00 0.626
14:50 10:13 12:38	7.49 48	0.477 1.8 0.00 0.626
14:55 10-13 12.34	7.49 99	0.977 2.0 0.00 0.620
		22
Sampling Information:		
EPA SW-846 Method 8270 SVOC F	PΔH'e	2 - 1 liter ambers Yes No
EPA SW-846 Method 8260 VOC's E		3 - 40 ml vials Yes No
EPA Method 335.4 Cyani		1 - 250 ml plastic Yes No
EPA Method 200.7 Meta	ls	1 - 250 ml plastic Yes No
Field Duplicate 0618 14%		
	olicate? Yes No Yes No X	Shipped: Pace Courier Pickup
Sample Time: <u>17:35</u> MS	/MSD? Yes No	Drop-off Albany Service Center
Comments/Notes:		Laboratory: Pace Analytical

	enue, Rome, Ne	The second section of the section of the sect						
Sampling Pe	ersonnel:	PD			Date:	6/7/18		
Job Number:	: 06-03000-13	34400-221			Weather:	65°-01	ercast	
Well Id.	LTMW-S10		(4)		Time In:	1400	Time Out	: 1450
F							- 145.000	
Well In	formation							
			TOC	Other	Well Type		shmount	Stick-Up
Depth to Wat		(feet)	17.18		Well Lock	ed: Point Marked:	Yes Yes	No No
Depth to Prod		(feet)	NP		Well Mate			her:
Length of Wa		(feet)	6.54		Well Diam		2" \ Ot	
Volume of W		(gal)	110		Comments	s:		
Three Well V	'olumes:	(gal)	3.0					
Purging I	Information							
Fulging	Momation	-			- var		Conversion I	Factors
Purging Meth	nod:	Baile	r Peristalti	ic Grund	fos Pump	gal/ft.	1" ID 2" ID	
Tubing/Bailer	r Material:	Teflor			yethylene	of		
Sampling Met		Baile		c Grund	fos Pump	water	0.04 0.16	
Average Pum		(ml/min)	30			1 gall	on=3.785L=3785r	mL=1337cu. feet
Duration of Portion Total Volume		(min) (gal)		Did well go dry?	Yes No			
				s No	, 100			
Horiba 0-52 v	Water Quality N	/leter Useur	Y e:	3 NO L		TOTAL TOTAL		
							gato	
II Time	DTW	Temp	l nH	l ORP	L Conductivity	Turhidity	חח ו	I TDS
Time	DTW (feet)	Temp (°C)	pH	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	TDS (g/L)
1405	(feet)	(°C)	PH 7.56	(mV) - 50	(mS/cm)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	DO (mg/L)	(g/L)
140K 1410	(feet) [0.80 (1.05	(°C) [7.53 [2.77	7.56	(mV) - 50 -39	(mS/cm) 0.94	(NTU) 713 182	(mg/L) (6:37 3:21	(g/L) 0.599 0.665
1405 1410 1415	(feet)  0.80  (1.05	(°C) 17.53 12.77 12.74	7.56	(mV) - 50 -39 -41	(mS/cm) 0.94 1.04	(NTU) 713 182 35.9	(mg/L) (6.37 3.21 1152	(g/L) 0.599 0.665 0.669
1405 1410 1415 1420	(feet) [0.80 (1.05 11.10	(°C) [7.53 12.77 12.74 12.65	7.56 7.36 7.34 7.32	(mV) - 50 -39 -41 -49	(mS/cm) 0.914 1.04 1.05	(NTU) 713 182 35.9	(mg/L) 6:37 3:21 1152 0:57	(g/L) 0.599 0.665 0.669 0.673
140× 1410 1415 1420 1425	(feet) 10.80 (1.05 11.10 11.15 1(.15	(°C) 17.53 12.77 12.74	7.56 7.36 7.34 7.32 7.33	(mV) - 50 -39 -41 -49	(mS/cm) 0.94/ 1.04 1.05 1.05	(NTU) 713 182 35.9 12 9.6	(mg/L) 6.37 3.21 1152 0.57 0.22	(g/L) 0.599 0.665 0.669 0.673
1405 1410 1415 1420	(feet) [0.80 (1.05 11.10	(°C) [7.53 12.77 12.74 12.45 12.72	7.56 7.36 7.34 7.32	(mV) - 50 -39 -41	(mS/cm) 0.914 1.04 1.05	(NTU) 713 182 35.9	(mg/L) 6:37 3:21 1152 0:57	(g/L) 0.599 0.665 0.669 0.673 0.674
1405 1410 1415 1420 1425 1430	(feet) 10.80 (1.05 11.10 11.15 11.15	(°C) [7.53 12.77 12.74 12.67 12.72 12.69	7.56 7.36 7.34 7.32 7.33 7.32	(mV) - 50 -39 -41 -49 -54 -56	(mS/cm) 0.914 1.05 1.05 1.05 1.05	(NTU) 713 182 35.9 12 9.6 4.5	(mg/L) 6:37 3:21 1152 0:57 0:22 0:00	(g/L) 0.599 0.665 0.669 0.673
1405 1410 1415 1420 1425 1430	(feet) 10.80 (1.05 11.10 11.15 11.15	(°C) [7.53 12.77 12.74 12.67 12.72 12.69	7.56 7.36 7.34 7.32 7.33 7.32	(mV) - 50 -39 -41 -49 -54 -56	(mS/cm) 0.914 1.05 1.05 1.05 1.05	(NTU) 713 182 35.9 12 9.6 4.5	(mg/L) 6:37 3:21 1152 0:57 0:22 0:00	(g/L) 0.599 0.665 0.669 0.673 0.674
1405 1410 1415 1420 1425 1430	(feet) 10.80 (1.05 11.10 11.15 11.15	(°C) [7.53 12.77 12.74 12.67 12.72 12.69	7.56 7.36 7.34 7.32 7.33 7.32	(mV) - 50 -39 -41 -49 -54 -56	(mS/cm) 0.914 1.05 1.05 1.05 1.05	(NTU) 713 182 35.9 12 9.6 4.5	(mg/L) 6:37 3:21 1152 0:57 0:22 0:00	(g/L) 0.599 0.665 0.669 0.673 0.674
1405 1410 1415 1420 1425 1430	(feet) 10.80 (1.05 11.10 11.15 11.15	(°C) [7.53 12.77 12.74 12.67 12.72 12.69	7.56 7.36 7.34 7.32 7.33 7.32	(mV) - 50 -39 -41 -49 -54 -56	(mS/cm) 0.914 1.05 1.05 1.05 1.05	(NTU) 713 182 35.9 12 9.6 4.5	(mg/L) 6:37 3:21 1152 0:57 0:22 0:00	(g/L) 0.599 0.665 0.669 0.673 0.674
140× 1410 1415 1420 1425 1430 1435	(feet) [0.80 [1.05 [1.17 [1.15 [1.15 [1.15	(°C) [7.53 12.77 12.74 12.67 12.72 12.69	7.56 7.36 7.34 7.32 7.33 7.32	(mV) - 50 -39 -41 -49 -54 -56	(mS/cm) 0.914 1.05 1.05 1.05 1.05	(NTU) 713 182 35.9 12 9.6 4.5	(mg/L) 6:37 3:21 1152 0:57 0:22 0:00	(g/L) 0.599 0.665 0.669 0.673 0.674
1405 1410 1415 1420 1425 1430	(feet) [0.80 [1.05 [1.17 [1.15 [1.15 [1.15	(°C) [7.53 12.77 12.74 12.67 12.72 12.69	7.56 7.36 7.34 7.32 7.33 7.32	(mV) - 50 -39 -41 -49 -54 -56	(mS/cm) 0.914 1.05 1.05 1.05 1.05	(NTU) 713 182 35.9 12 9.6 4.5	(mg/L) 6:37 3:21 1152 0:57 0:22 0:00	(g/L) 0.599 0.665 0.669 0.673 0.674
140 1410 1415 1420 1425 1430 1435	(feet) [0.80 [1.05 [1.17 [1.15 [1.15 [1.15	(°C) [7.53 12.77 12.74 12.67 12.72 12.69	7.56 7.36 7.34 7.32 7.33 7.32 7.33	(mV) - 50 -39 -41 -49 -54 -56	(mS/cm) 0.914 1.05 1.05 1.05 1.05	(NTU) 7.3 182- 35.9 12 9.6 4.5 3.8	(mg/L) (a37 3/21 1152 0.57 0.22 0.00 0-00	(g/L) 0.599 0.665 0.669 0.673 0.674
1410 1410 1415 1420 1425 1430 1435 Sampling Inf EPA SW-84 EPA SW-84	(feet)   10.80   11.05   11.15   11.15   11.15   11.15   46 Method 8270   46 Method 8260	(°C) 17.53 12.77 12.74 12.65 12.72 12.69 12.70 SVOC F	7.56 7.36 7.34 7.32 7.33 7.32 7.33	(mV) - 50 -39 -41 -49 -54 -56	(mS/cm) 0.914' 1.05 1.05 1.05 1.05	(NTU) 713 182- 35.9 12- 9.6 4.5 3.8	(mg/L) (a:37 3:21 1152 0:57 0:22 0:00 0-00  ers Yes	(g/L) 0.599 0.665 0.669 0.673 0.674 0.671 0.677
140 K   1410   1415   1420   1475   1430   1435   1430   1435   1430    (feet)   0.80   1.05   1.15   1.15   1.15   1.15   46 Method 8270   46 Method 8260   18thod 335.4	(°C) 17.53 12.77 12.74 12.67 12.69 12.70 SVOC F VOC's E Cyania	7.56 7.36 7.34 7.32 7.33 7.32 7.33	(mV) - 50 -39 -41 -49 -54 -56	(mS/cm) 0.914' 1.05 1.05 1.05 1.05	(NTU) 7.3 182- 35.9 12 9.6 4.5 3-8 9-1 liter ambe 3-40 ml vial: 3-250 ml plas	(mg/L) (a:37 3:21 1152 0:57 0:22 0:00 0-00 ers Yes tic Yes	(g/L) 0.599 0.665 0.669 0.673 0.671 0.672	
140   1410   1415   1420   1425   1430   1435   1430   1435   1430   1435   1430   1435   1430   1435   1430   1435   1430   1435   1430   1435   1430   1435   1430   1435   1430   1435   1430   1435   1430   1435   1430   1435   1430   1435   1430   1435   1430   1435   1430   1435   1430   1435   1	(feet)   0.80   1.05   1.17   1.15   1.15   1.15   1.15   46 Method 8270   46 Method 8260   dethod 335.4   dethod 200.7	(°C) 17.53 12.77 12.77 12.72 12.69 12.70 SVOC F VOC's E Cyanii Meta	7.56 7.36 7.34 7.32 7.33 7.32 7.33	(mV) - 50 - 39 - 41 - 49 - 54 - 56 - 58	(mS/cm) 0.914' 1.05 1.05 1.05 1.05	(NTU) 713 182- 35.9 12- 9.6 4.5 3.8	(mg/L) (a:37 3:21 1152 0:57 0:22 0:00 0-00 ers Yes tic Yes	(g/L) 0.599 0.665 0.669 0.673 0.671 0.677
140   1415   1420   1425   1430   1435   1430   1435   1430   1435   1430   1436   1	(feet)   0.80   1.05   1.15   1.15   1.15   1.15   46 Method 8270   46 Method 8260   18thod 335.4	(°C) 17.53 12.77 12.74 12.69 12.69 12.70 SVOC F VOC'S E Cyanic Meta LTMW-	7.56 7.36 7.34 7.32 7.33 7.32 7.33 7.33 PAH's BTEX de ls S10-MSD-061	(mV) -50 -39 -41 -49 -54 -58	(mS/cm) 0.914' 1.05 1.05 1.05 1.05	(NTU) 7.3 182- 35.9 12- 9.6 4.5 3-8 2-1 liter amber 3-40 ml vials 3-250 ml plas 3-250 ml plas	(mg/L) (a.37 3.21 1152 0.57 0.22 0.00 0-00  ers Yes tic Yes tic Yes	(g/L) 0.599 0.665 0.669 0.673 0.671 0.677
140   1410   1415   1420   1425   1430   1435   1430   1435   1430   1435   1430   1435   1430   1435   1430   1435   1430   1435   1430   1435   1430   1435   1430   1435   1430   1435   1430   1435   1430   1435   1430   1435   1430   1435   1430   1435   1430   1435   1430   1435   1430   1435   1	(feet)   0.80   1.05   1.15	(°C)  7.53  2.77  2.74  2.72  2.69  2.70  2.70  2.69  2.70  2.69  2.70  12.70  12.70	7.56 7.36 7.34 7.32 7.33 7.32 7.33 7.32 7.33 80 810-MSD-061 plicate?	(mV) -50 -39 -41 -49 -54 -58	(mS/cm) 0.914' 1.05 1.05 1.05 1.05	(NTU) 7.3 182 35.9 12 9.6 4.5 3-8  \$\frac{\partial}{3} - 40 \text{ ml vials}} 3-250 \text{ ml plas} 3-250 \text{ ml plas}	(mg/L) (a:37 3:21 1152 0:57 0:22 0:00 0-00 ers Yes tic Yes	(g/L) 0.599 0.665 0.669 0.673 0.674 0.677  No No No No
Sampling Inf  EPA SW-84  EPA M  EPA M  EPA M  EPA M  Sample ID:	(feet)   10.80   11.10   11.15	(°C)  7.53  2.77  2.77  2.72  2.69  2.70  2.69  7.70   VOC's E Cyanie Meta LTMW- 0618 Dul	7.56 7.36 7.34 7.32 7.33 7.32 7.33 7.32 7.33 80 810-MSD-061 plicate?	(mV) - 50 -39 -41 -49 -54 -58 8 Yes No	(mS/cm) 0.94 1.05 1.05 1.05 1.05	(NTU) 7.3 182 35.9 12 9.6 4.5 3-8  \$\frac{\partial}{3} - 40 \text{ ml vials}} 3-250 \text{ ml plas} 3-250 \text{ ml plas}	ers Yes tic Yes ace Courier Pick	(g/L) (599 0.665 0.669 0.673 0.674 0.671 0.677



## CHAIN-OF-CUSTODY / Analytical Request Document The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A			Section 6																				, ug		01 2	
Required Client Information:  Company: GES - Syracuse	Required Project Information: Report To: Devin Shay (GES)		_		Invoice Information:  Attention: Accounts Payable via email at ges-invoices@gesonline.com											O SHIP	(60)	TI V		1000	10.7				1210.	
	dshay@gesonline.com																			R	EGU	LATO	ORY	AGE	1CA	
Address: 5 Technology Place, Suite 4	Report To: Tim Beaumont (GES tbeaumont@gesonline.com		Company Name: Groundwater & Environmental Services, Inc.											1	NPDE	S	S F3ROUND WATER				7	TORINKING WATER				
East Syracuse, New York 13057				Address:	Address: 5 Technology Place, Suite 4, East Syracuse, NY 13057										L	UST	į	RC	RA			Γ.	THE	:R		
Email To: dshay@gesonline.com Purchase Order No.:				Pace Quo	Pace Quote Reference:												S	TE		1	- GA	. 1	×.	1-	Γ.	I.
x4051 Ave. Site, Rome, NY				y Pace Proj	Pace Project Manager: Rachel Christner										LO	CAT	ON			1	ЭН	í	3C	$\Gamma_{I}$	Гъ	ER
Requested Due Date/TAT: Standard	Project Number: 06-03000-134400-221-1106			Pace Profile #:											Filtere	ed (Y/	N)					7	71	17	7//	7//
Section D Required Client Information SAMPLE ID One Character per box. (A-Z, 0-9 /) IDs MUST BE UNIQUE  *** BE	Vasid Marior Codes  Generative Add R  Generative Add R  See See See See See See See See See Se	MATRIX CODE	SAMPLE TYPE G+GRAB C=COMP	COMPOSITES		CAAB	SAMPLE TEMP AT COLLECTION	#OF CONTAINERS	yeserved	1,50,		HOS	ves Cosses	lhanol	Reque							7///////				Pace Proje Numb
		Ͱ	-	DATE	TIME	DATE TIME	_	├-	5	ř :	E E	ž ž	ž	<b>%</b>	-		(5)	5	ुँ र	7	Н	+	4	<del></del>		Lab I.I
1 LTMW-D01-0618			G			47/68:45		7	2	+	1 3	3 1	Н	+	-		3	2 1	1 1	Н	$\dashv$	+	$\vdash$			
2 LTMW-S01-0618		WT	G			8150		7	2	1	1 3	1	Н	1	_		3	2 1	1 1	Н	$\vdash$	$\perp$	$\perp$			
LTMW-D02-0618		WT	G			09:35		7	2	1	1 3	3 1	Ц				3	2 1	1 1		$\perp$	$\perp$	$\sqcup$			
LTMW-S02-06	318	WT	G			09:40		7	2	1	1 3	1	Ш				3	2 1	1 1							
s LTMW-D03-06	318	wT	G			10:55	•	7	2		1 3	1					3	2 1	1							
£ LTMW-S03-06	518	wT	G			11:45		7	2	1	3	1					3	2 1	1							
LTMW-D04-06	518	WT	G			1110		7	2	1	3	1					3	2 1	1	П	T		П			
E LTMW-S04-06		WT		380		10:29		7	2	1	3	1	П				3	2 1	1			T	П			
3 LTMW-D05-06		WT	- 3			13:25		7	2	1	3		П	T				2 1	1	П	T	$\top$	П			
LTMW-S05-06		WT	G			14.10		7	2	1								2 1	1	П		$\top$	П			
LTMW-D06-06		WT	G			13:45		7	2	1	3							2 1	1	П	T	$\top$	П			
17 LTMW-S06-06		WT	G			13:00		7	2	1	3			T				2 1		П	T	$\Box$	П			
Additional Comments:	· · ·			SHED BY A	FF LIATION	THE RESERVE OF THE PARTY OF THE	THE	ACCEP		4 A	_	_	14		933			BAT	_	7	· 'E	SA	MPL	E CO	NDITION	NS
SAMPLES WILL ARRIVE IN #	COOLERS.	10	7			- 6h/8	16	11	-		-	-					T	100					$\neg$	Z.	Ιξ	Z
OAW EES WILL ANGVE IIV	OGGETTO.	1				- 1710	1,00										$\top$			Г		T	$\neg$	Y.N.	Z.	N.
Please send reports to: dshay@gesonline.com, tbeaumont@gesonline.com																T					T		N.	Z ×	Z ×	
VERegion@gesonline.com, ges@equisonline.com																T		$\neg$				$\neg$	Z.	N.	Ž.	
SPECIFIC EDD NAME:						SAMPLER:				1		DATE	Açne	·/=	00 //1	را						Temn in °C	lemp in c	Received on Ice	Custody Sealed Cooler	Samples Intact
NGRome-labnumber.28351.EQEDD.zip				L		1/			_	1		1	13	17	1/	2)		- 20							U O	l Ø



# CHAIN-OF-CUSTODY / Analytical Request Document The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Required Client Information:  Company: GES - Syracuse	Required Project Information: Report To: Devin Shay (GES)																								
								Invoice Information:																	
dshay@gesonline.com				Attention: Accounts Payable via email at ges-invoices@gesonline.com											REGULATORY AG							NCY			
Address: 5 Technology Place, Suite 4 Report To: Tim Beaumont (GE tbeaumont@gesonline.com				Company	Company Name: Groundwater & Environmental Services, Inc.											DES	1	ROUI	ND W	ATER	~ ·	RINKING	WATER		
East Syracuse, New York 13057				Address: 5	idress: 5 Technology Place, Suile 4, East Syracuse, NY 13057										[ us	Т	FR	CRA			ļ. 1	HER			
Email To: dshay@gesonline.com Purchase Order No.:				Pace Quo	Pace Quote Reference:												SITE			ЭA	f" g	. 1"	٢	1,-	
Phone: 800.220.3069 Fax: None Project Name: National Grid - F x4051 Ave. Site, Rome, NY			ngsley	Pace Proje	Pace Project Manager: Rachel Christner										LOCATION TOH T						T	TIC THER			
Requested Due Date/TAT: Standard Project Number: 06-03000-134400-221-1106				Pace Profi	Pace Profile #:										Filtered (Y/N)						7/////////				
Section D Required Client Information SAMPLE ID One Character per box. (A-Z, 0-9 / ,-) IDs MUST BE UNIQUE  *** ** ** ** ** ** ** ** ** ** ** **	Valle Marker Codes MATERIX MATERIX De Material M	MATRIX CODE	SAMPLE TYPE G+GRAB C=COMP	COMPOSITEST		GAS DATE	TIME	SAMPLE TEMP AT COLLECTION	#OF CONTAINERS	inpreserved	15	HCI NaOH	23	Methanol Other	Requeste Analysis:									Pace Proje Numb	
				DATE	TIME		12:35			171	+=+	-	Ž.	2 0				- 1		+	+	1	1.00	Lab I.I	
LTMW-S07-0618		WT	G			un cità	12:05		7	2	11	3 1	+	+		3		1 1	T	+	+	+			
2 LTMW-S08-0618		WT	G			<u> </u>	14.58	-	7	2		3 1	H	+				1 1	$\vdash$	+	Н	+			
\$ LTMW-S09-06		WT	G				14.35		7	2		3 1	H	+1				1 1		+	+	+			
4 LTMW-S10-06		WT	G				17 23	$\overline{}$	7	2	11	3 1	H	+				1 1	H	+	++	+			
5 LTMW-S10-MS-	- Commence of the Commence of	WT	G			-	14 35	-	7	2	1	3 1	H	+		3	2	1 1	H	+	H	_			
£ LTMW-S10-MSD		WT	G			-	14:35	$\dashv$	7	2	1	3 1	$\vdash$	Н		3	2	1 1	Н	+	H	-			
Field Duplicate-0618		WT	G				15:10		7	2	1	3 1	H	$\perp$		3	2	1 1	$\sqcup$	$\perp$	$\sqcup$	_			
Trip Blank		WT	Lab				-		2	$\perp$	$\sqcup$	2	$\vdash$	+		2	1	+	Н	_	Ш	-			
END OF RECO	RD		_					_		1	Н	Ш	1	$\perp$		Ш	1	1	Н	_		_			
16																		L	Ш						
Additional Comments:	_	RELI	CUS	HEDEY A	FLIATION			₹ '=		TEDE	AFF	CIATIO	SN.				54	TE	1	/' <b>⊆</b>	SAM		NDITION		
SAMPLES WILL ARRIVE IN #	COOLERS.	1	1		1	- 9	17/18	16:00	)							_		-				× ×	× ×	₹ ¥	
		1				/										_						× ×	Ž.	N N	
Please send reports to: dshay@gesonline.com, tbeaumont@gesonline.com																						N X	× ×	N.	
NERegion@gesonline.com, ges@equisonline.com	com																					N.	×	Y.	
SPECIFIC EDD NAME: NGRome-labnumber.28351.EQEDD.zip				P		AMBIER EV/1		É				DATE	Staned	(LN: / DC	0 ( 11) 6	-/-	7	/	/ &		Temp in °C	Received on Ice	Custedy Sealed Cooler	Samples Intact	

2018 2<sup>nd</sup> Quarter OM&M Report National Grid Rome Former MGP Site 233 Kingsley Avenue, Rome, NY 13440



# Appendix D – Data Usability Summary Report and Analytical Data



Groundwater & Environmental Services, Inc.

708 North Main Street, Suite 201 Blacksburg, VA 24060

T. 800.662.5067

July 31, 2018

Devin Shay Groundwater & Environmental Services, Syracuse 5 Technology Place, Suite 4 East Syracuse, NY 13057

RE: Data Usability Summary Report for National Grid- Rome Kingsley Avenue Site Data Packages Pace Analytical Job Nos. 30255534, 30255535

Groundwater & Environmental Services, Inc. (GES) reviewed two data packages (Laboratory Project Number 30255534, 30255535) from Pace Analytical Services, Inc., for the analysis of an effluent sample and trip blank as well as groundwater samples collected on June 7, 2018 from the National Grid: Rome Kingsley Avenue Site. Sixteen aqueous samples and a field duplicate are analyzed for BTEX, PAHs, arsenic, lead, zinc, and total cyanide. The effluent system sample was processed for TCL volatiles, nine metals, mercury and total cyanide. Methodologies utilized are those of the USEPA 200.7, the USEPA SW846 methods 7470/8260B/8270C/9012, and 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
Effluent System 0618	J-	Cyanide	MS/MSD recoveries low
LTMW-S10-0618	J/UJ	<ul> <li>2-Methylnaphthalene</li> <li>Acenaphthene</li> <li>Acenaphthylene</li> <li>Anthracene</li> <li>Benzo(a)anthracene</li> <li>Benzo(b)fluoranthene</li> <li>Benzo(g,h,i)perylene</li> <li>Benzo(k)fluoranthene</li> <li>Chrysene</li> <li>Dibenz(a,h)anthracene</li> <li>Fluoranthene</li> <li>Fluorene</li> <li>Indeno(1,2,3-cd)pyrene</li> <li>Naphthalene</li> <li>Phenanthrene</li> <li>Pyrene</li> </ul>	RPD out of specification. Acenaphthene, naphthalene and pyrene recoveries out of compliance
LTMW-S05- 618	J-/UJ-	All 8270 analytes	Surrogate recovery low

In summary, sample results are usable as reported, with possible imprecision in the PAH analyses of LTMW-S10-0618 exemplified by RPD results being out of compliance, and possible low bias in LTMW-S05-0618 due to ow surrogate recoveries. The laboratory result for pH is always considered estimated as the EPA recommended short hold time of 15 minutes can only be met by in-field measurements. 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 for groundwater and effluent samples and instrumental tune fragmentations are within acceptance ranges. Surrogate and internal standard recoveries are within required limits. Calibrations standards show acceptable responses within analytical protocol and validation action limits. The blind field duplicate correlations of LTMW-S09-0618 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, with the exception of terphenyl-d14 in a LTMW-S05-0618. Qualifications are noted in **Table 1**. 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, w. The MS/MSD pair for multiple analytes prepared from LTMW-S10-0318 reported high RPD values, which required the data be qualified as estimated,



whether detected or non-detected. Acenaphthene, naphthalene, and pyrene are also qualified due to out of compliance recoveries in the MS/MSD. See **Table 1.** The blind field duplicate correlations of LTMW-S09-0618 had no detections, so no precision correlations were calculated.

No other qualifications are necessary.

# 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-S09-0618 had no detections, so no precision correlations were calculated. Instrument performance is compliant, and blanks show no contamination above the reporting limit.

# Wet Chemistry-Total Cyanide by 9012B 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. Calibration standard responses are compliant. Blanks show no detections above the reporting limits.

The pH for Effluent 0618 is qualified as estimated due to outlying holding time, as noted in the laboratory case narrative.

A matrix spike (MS) analysis was performed on the following sample: LTMW-S10-0618. The recoveries were outside of acceptance criteria and cyanide is qualified as estimated for the sample. All other matrix spikes and/or laboratory duplicates of total cyanide show acceptable recoveries and/or correlations.

# 1 Data Package Completeness

antwisk\_

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.

Sincerely,

Bonnie Janowiak, Ph.D.

Senior Chemist

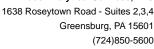


# **SAMPLE SUMMARY**

Project: National Grid - Rome Kingsley

Pace Project No.: 30255535

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30255535001	LTMW-D01-0618	Water	06/07/18 08:45	06/09/18 09:50
30255535002	LTMW-S01-0618	Water	06/07/18 08:50	06/09/18 09:50
30255535003	LTMW-D02-0618	Water	06/07/18 09:35	06/09/18 09:50
30255535004	LTMW-S02-0618	Water	06/07/18 09:40	06/09/18 09:50
30255535005	LTMW-D03-0618	Water	06/07/18 10:55	06/09/18 09:50
30255535006	LTMW-S03-0618	Water	06/07/18 11:45	06/09/18 09:50
30255535007	LTMW-D04-0618	Water	06/07/18 11:10	06/09/18 09:50
30255535008	LTMW-S04-0618	Water	06/07/18 10:25	06/09/18 09:50
30255535009	LTMW-D05-0618	Water	06/07/18 13:25	06/09/18 09:50
30255535010	LTMW-S05-0618	Water	06/07/18 14:10	06/09/18 09:50
30255535011	LTMW-D06-0618	Water	06/07/18 13:45	06/09/18 09:50
30255535012	LTMW-S06-0618	Water	06/07/18 13:00	06/09/18 09:50
30255535013	LTMW-S07-0618	Water	06/07/18 12:35	06/09/18 09:50
30255535014	LTMW-S08-0618	Water	06/07/18 12:05	06/09/18 09:50
30255535015	LTMW-S09-0618	Water	06/07/18 14:55	06/09/18 09:50
30255535016	LTMW-S10-0618	Water	06/07/18 14:35	06/09/18 09:50
30255535017	LTMW-S10-MS-0618	Water	06/07/18 14:35	06/09/18 09:50
30255535018	LTMW-S10-MSD-0618	Water	06/07/18 14:35	06/09/18 09:50
30255535019	Field Duplicate-0618	Water	06/07/18 15:10	06/09/18 09:50
30255535020	Trip Blank	Water	06/07/18 00:01	06/09/18 09:50





Project: National Grid - Rome Kingsley

Pace Project No.: 30255535

Method: 200.7 Rev4.4, 1994 Description: 200.7 Metals, Total

Client: Groundwater & Environmental Services, Inc. (Syracuse)

**Date:** June 18, 2018

## **General Information:**

19 samples were analyzed for 200.7 Rev4.4, 1994. 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 200.7 Rev4.4, 1994 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:

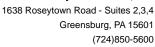
All laboratory control spike compounds were within QC limits with any exceptions noted below.

## 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.





Project: National Grid - Rome Kingsley

Pace Project No.: 30255535

Method: EPA 8270D by SIM

Description: 8270D MSSV PAH by SIM

Client: Groundwater & Environmental Services, Inc. (Syracuse)

**Date:** June 18, 2018

## **General Information:**

19 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.

ip: Benzo(b)fluoranthene and benzo(k)fluoranthene were separated in the check standard but did not meet the resolution criteria in SW846 Method 8270D. Whereas sample results included are reported as individual isomers, the lab and the customer must recognize them as an isomeric pair.

• LTMW-D03-0618 (Lab ID: 30255535005)

## **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: 302059

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

- LTMW-S05-0618 (Lab ID: 30255535010)
  - Terphenyl-d14 (S)
- LTMW-S10-MSD-0618 (Lab ID: 30255535018)
  - Terphenyl-d14 (S)
- MSD (Lab ID: 1478096)
  - 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.



Project: National Grid - Rome Kingsley

Pace Project No.: 30255535

Method: EPA 8270D by SIM

Description: 8270D MSSV PAH by SIM

Client: Groundwater & Environmental Services, Inc. (Syracuse)

**Date:** June 18, 2018

QC Batch: 302059

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30255535016

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

- MS (Lab ID: 1478095)
  - Acenaphthene
  - Naphthalene
  - Pyrene

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

- MSD (Lab ID: 1478096)
  - Acenaphthene
  - Naphthalene

R1: RPD value was outside control limits.

- MSD (Lab ID: 1478096)
  - 2-Methylnaphthalene
  - Acenaphthene
  - Acenaphthylene
  - Anthracene
  - Benzo(a)anthracene
  - Benzo(a)pyrene
  - Benzo(b)fluoranthene
  - Benzo(g,h,i)perylene
  - Benzo(k)fluoranthene
  - Chrysene
  - Dibenz(a,h)anthracene
  - Fluoranthene
  - Fluorene
  - Indeno(1,2,3-cd)pyrene
  - Naphthalene
  - Phenanthrene
  - Pyrene

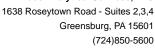
# **Additional Comments:**

**Analyte Comments:** 

QC Batch: 302059

1c: This sample was re-extracted past the method required holding time. Surrogate recovery in the re-extract was acceptable and the re-extract results were comparable to the original results. The original, in hold, results are reported.

- LTMW-S05-0618 (Lab ID: 30255535010)
  - Terphenyl-d14 (S)





Project: National Grid - Rome Kingsley

Pace Project No.: 30255535

Method: EPA 8260C Description: 8260C MSV

Client: Groundwater & Environmental Services, Inc. (Syracuse)

**Date:** June 18, 2018

## **General Information:**

20 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:

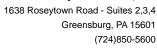
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

## **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.





Project: National Grid - Rome Kingsley

Pace Project No.: 30255535

Method: EPA 335.4

Description: 335.4 Cyanide, Total

Client: Groundwater & Environmental Services, Inc. (Syracuse)

**Date:** June 18, 2018

## **General Information:**

19 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.

QC Batch: 301656

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30255534001,30255535019

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

- MS (Lab ID: 1476423)
  - Cyanide
- MSD (Lab ID: 1476424)
  - Cyanide
- MSD (Lab ID: 1476426)
  - Cyanide

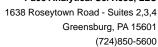
## Additional Comments:

**Batch Comments:** 

ALL SAMPLES WERE PRESERVED IN LAB

QC Batch: 301656

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



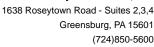


# **SAMPLE SUMMARY**

Project: National Grid - Rome Kingsley

Pace Project No.: 30255534

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30255534001	Effluent System 0618	Water	06/07/18 08:00	06/09/18 09:50
30255534002	Trip Blank	Water	06/07/18 00:01	06/09/18 09:50





Project: National Grid - Rome Kingsley

Pace Project No.: 30255534

Method: 200.7 Rev4.4, 1994 Description: 200.7 Metals, Total

Client: Groundwater & Environmental Services, Inc. (Syracuse)

**Date:** June 18, 2018

## **General Information:**

1 sample was analyzed for 200.7 Rev4.4, 1994. 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 200.7 Rev4.4, 1994 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:**

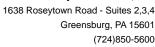
All laboratory control spike compounds were within QC limits with any exceptions noted below.

## 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.





Project: National Grid - Rome Kingsley

Pace Project No.: 30255534

Method: 245.1 Rev. 3.0, 1994 Description: 245.1 Mercury

Client: Groundwater & Environmental Services, Inc. (Syracuse)

**Date:** June 18, 2018

## **General Information:**

1 sample was analyzed for 245.1 Rev. 3.0, 1994. 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 245.1 Rev. 3.0, 1994 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.

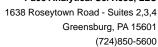
## **Additional Comments:**

**Analyte Comments:** 

QC Batch: 301800

1c: The PDS recovery was outside of the laboratory control limits. Result may be biased high

- Effluent System 0618 (Lab ID: 30255534001)
  - Mercury



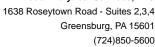


# **SAMPLE SUMMARY**

Project: National Grid - Rome Kingsley

Pace Project No.: 30255534

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30255534001	Effluent System 0618	Water	06/07/18 08:00	06/09/18 09:50
30255534002	Trip Blank	Water	06/07/18 00:01	06/09/18 09:50





Project: National Grid - Rome Kingsley

Pace Project No.: 30255534

Method: 200.7 Rev4.4, 1994 Description: 200.7 Metals, Total

Client: Groundwater & Environmental Services, Inc. (Syracuse)

**Date:** June 18, 2018

## **General Information:**

1 sample was analyzed for 200.7 Rev4.4, 1994. 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 200.7 Rev4.4, 1994 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:**

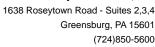
All laboratory control spike compounds were within QC limits with any exceptions noted below.

## 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.





Project: National Grid - Rome Kingsley

Pace Project No.: 30255534

Method: 245.1 Rev. 3.0, 1994 Description: 245.1 Mercury

Client: Groundwater & Environmental Services, Inc. (Syracuse)

**Date:** June 18, 2018

## **General Information:**

1 sample was analyzed for 245.1 Rev. 3.0, 1994. 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 245.1 Rev. 3.0, 1994 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.

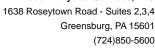
## **Additional Comments:**

**Analyte Comments:** 

QC Batch: 301800

1c: The PDS recovery was outside of the laboratory control limits. Result may be biased high

- Effluent System 0618 (Lab ID: 30255534001)
  - Mercury





Project: National Grid - Rome Kingsley

Pace Project No.: 30255534

Method: EPA 8270D by SIM

Description: 8270D MSSV PAH by SIM

Client: Groundwater & Environmental Services, Inc. (Syracuse)

**Date:** June 18, 2018

## **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: 302059

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

- MSD (Lab ID: 1478096)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:

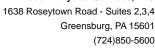
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 302059

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30255535016

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

- MS (Lab ID: 1478095)
  - Acenaphthene
  - Naphthalene
  - Pyrene





Project: National Grid - Rome Kingsley

Pace Project No.: 30255534

Method: EPA 8270D by SIM

Description: 8270D MSSV PAH by SIM

Client: Groundwater & Environmental Services, Inc. (Syracuse)

**Date:** June 18, 2018

## **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: 302059

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

- MSD (Lab ID: 1478096)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: 302059

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30255535016

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

- MS (Lab ID: 1478095)
  - Acenaphthene
  - Naphthalene
  - Pyrene