

December 16, 2020

Mr. Scott Deyette
Project Manager
New York State Department of Environmental Conservation
Division of Environmental Remediation, BURC
625 Broadway
Albany, New York 12233-7014

RE: National Grid Former Manufactured Gas Plant Site

1 East Street, Ilion, New York

Annual Groundwater Monitoring Report

Dear Mr. Deyette:

Enclosed for your review is the Annual Groundwater Monitoring Report for the NG Ilion Former MGP Site, for 2020.

Groundwater and Environmental Service, Inc., (GES) contractor for National Grid, conducts all long-term monitoring and sampling activities at the site. Quarterly site inspections were conducted in 2019 and 2020 (December, January, May, July, and November). The site is generally in good shape and in compliance. There were detections in several of the wells during the October 2019, May 2020, and October 2020 sampling events that exceeded the regulatory criteria.

If you have any questions, then please 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

Cc: Devin T. Shay – Groundwater and Environmental Services, Inc.

National Grid

Annual Groundwater Monitoring Report



National Grid Ilion Former MGP Site 1 East Street, Ilion, NY 13357

December 2020

Version 1



Annual Groundwater Monitoring Report

National Grid Ilion Former MGP Site 1 East Street Ilion, NY 13357

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Date:

December 16, 2020

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1 Introduction

This Annual Groundwater Monitoring Report presents results from the activities conducted at the Ilion (East Street and State Street) former non-owned manufactured gas plant (MGP) site (the Site) located in Ilion, New York (Site #6-22-019). A site location map is presented on Figure 1, and a site map is presented as Figure 2. All work summarized herein has been conducted in accordance with the approved Site Management Plan (SMP) for the property, dated October 22, 2018, prepared for and submitted to the New York State Department of Environmental Conservation (NYSDEC) by Arcadis.

A detailed discussion of the semi-annual monitoring activities and results is presented below.

2 Semi-Annual Groundwater Monitoring

2.1 Objectives

The objectives of the October 2019, May 2020, and October 2020 groundwater monitoring activities were to:

- Obtain groundwater elevation data from monitoring wells in the vicinity of the site to evaluate groundwater flow direction, and compare the results with historical groundwater flow conditions.
- Obtain analytical data to assess potential changes in groundwater quality at the site and compare the results to the Class GA groundwater standards and guidance values presented in the NYSDEC document entitled, "Division of Water Technical and Operational Guidance Series (1.1.1) Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations" (TOGS 1.1.1), reissued June 1998 and amended April 2000 and June 2004.

2.2 Groundwater Well Gauging

The October 25, 2019, May 27, 2020, and October 12, 2020 groundwater monitoring field activities were conducted by GES. Prior to collecting groundwater samples, static fluid level measurements were collected from MW-02R, MW-03, MW-06, MW-07, W-08R, and MW-13. Water levels were measured to the nearest 0.01 foot using an electronic oil-water interface probe to determine the depth from a surveyed mark on the top of the inner polyvinyl chloride (PVC) well casing to the groundwater within the well.

The fluid level measurements obtained from each monitoring well were converted to groundwater elevations using the surveyed well elevations. The calculated groundwater elevations for each monitoring well are listed in Table 1. Table 1 also includes groundwater elevation measurements obtained during previous groundwater monitoring events, and is depicted on Figures 3, 5, and 7.



Groundwater generally flows to the north from the Site toward the Mohawk River. Groundwater elevations ranged from 385.54 feet above sea level (asl; well MW-03) to 387.78 feet asl (well MW-06). Field data from the gauging event is presented in Appendix B.

2.3 Groundwater Well Sampling and Analytical Results

Groundwater samples were collected by GES from six (6) monitoring wells on October 25, 2019, May 7, 2020, and October 12, 2020 (including MW-02R, MW-03, MW-06, MW-07, MW-08R, and MW-13). Low-flow sampling techniques were used to purge groundwater from each monitoring well prior to collecting groundwater samples. Field parameters (consisting of turbidity, temperature, pH, conductivity, oxidation reduction potential [ORP], and dissolved oxygen) were measured approximately every 5 to 10 minutes during well purging, and the depth to water was monitored throughout the pumping process to minimize drawdown within the well. Well purging activities continued at each well until the field parameters stabilized and the turbidity of the water in the wells was reduced to less than 50 nephelometric turbidity units (NTUs). Groundwater field data is presented in Appendix B.

Following purging, groundwater samples were collected. The groundwater samples were bottled and shipped to Pace Analytical for laboratory analysis for Benzene, Toluene, Ethylbenzene, and total Xylenes (BTEX; EPA Method 8260C), Semi-Volatile Polycyclic Aromatic Hydrocarbons (PAHs; EPA Method 8270D), as well as total cyanide (EPA Method 9012B). Quality assurance/quality control (QA/QC) samples, including a field duplicate, matrix spike, and duplicate matrix spike were also submitted for laboratory analysis. The laboratory analytical results for the groundwater samples were reported using NYSDEC Analytical Services Protocol (ASP) Category B data deliverable packages to facilitate data validation.

Purge water generated during the sampling activities was collected in 5-gallon buckets and transferred into 55-gallon steel drums for characterization prior to offsite treatment/disposal in accordance with applicable regulations.

Analytical results from the laboratory analysis report are summarized in Table 2 and compared to the Class GA groundwater standards and guidance values presented in TOGS 1.1.1. VOC exceedances are bolded on Table 2 and further shown on Figures 4, 6, and 8. The Data Usability Summary Report (DUSR) is included in Appendix C.

There were BTEX and/or PAH detections in all the monitoring wells sampled in October 2019, May 2020 and October 2020, with the exception of MW-03, MW-06, and MW-13 in October 2019, and MW-13 in October 2020. In October 2019, BTEX, acenaphthene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, chrysene, and naphthalene were detected above the regulatory criteria in one or more samples. Cyanide was detected in MW-02R, and MW-08R in October 2019. In May 2020, BTEX, acenaphthene, benzo(a)pyrene, benzo(b)fluoranthene, and naphthalene were detected above the regulatory criteria in one or more samples. Cyanide was detected in MW-02R, MW-07, and MW-08R in May 2020. In October 2020, BTEX, acenaphthene, acenaphthylene, benzo(a)anthracene, fluoranthene, fluorine, 2-methylnapthalene, naphthalene,



phenanthrene, and pyrene were detected above he regulatory criteria in one or more samples. Cyanide was detected in MW-02R, MW-07, MW-08R during the October 2020 sampling event.

3 Quarterly Site-Wide Inspections

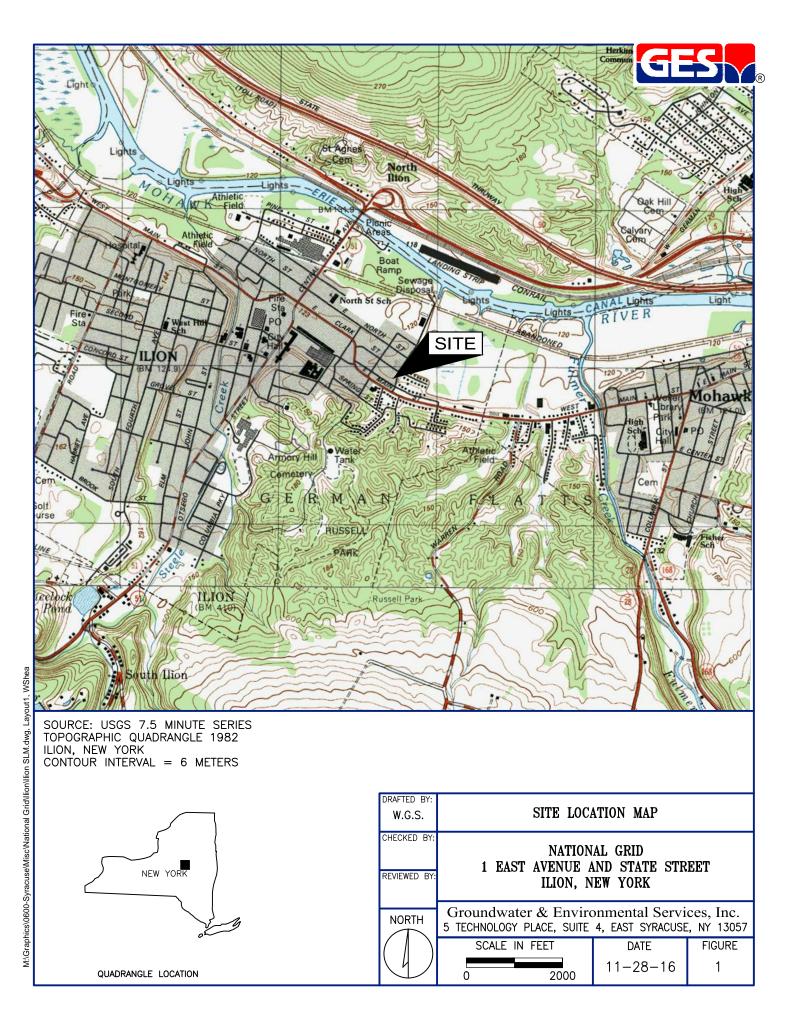
The quarterly site-wide inspections were completed on September 27, October 24, and December 18, 2019, and January 15, May 1, July 30, and October 12, 2020. The Site Inspection Forms are presented in Appendix A. In general, the Site is in compliance.

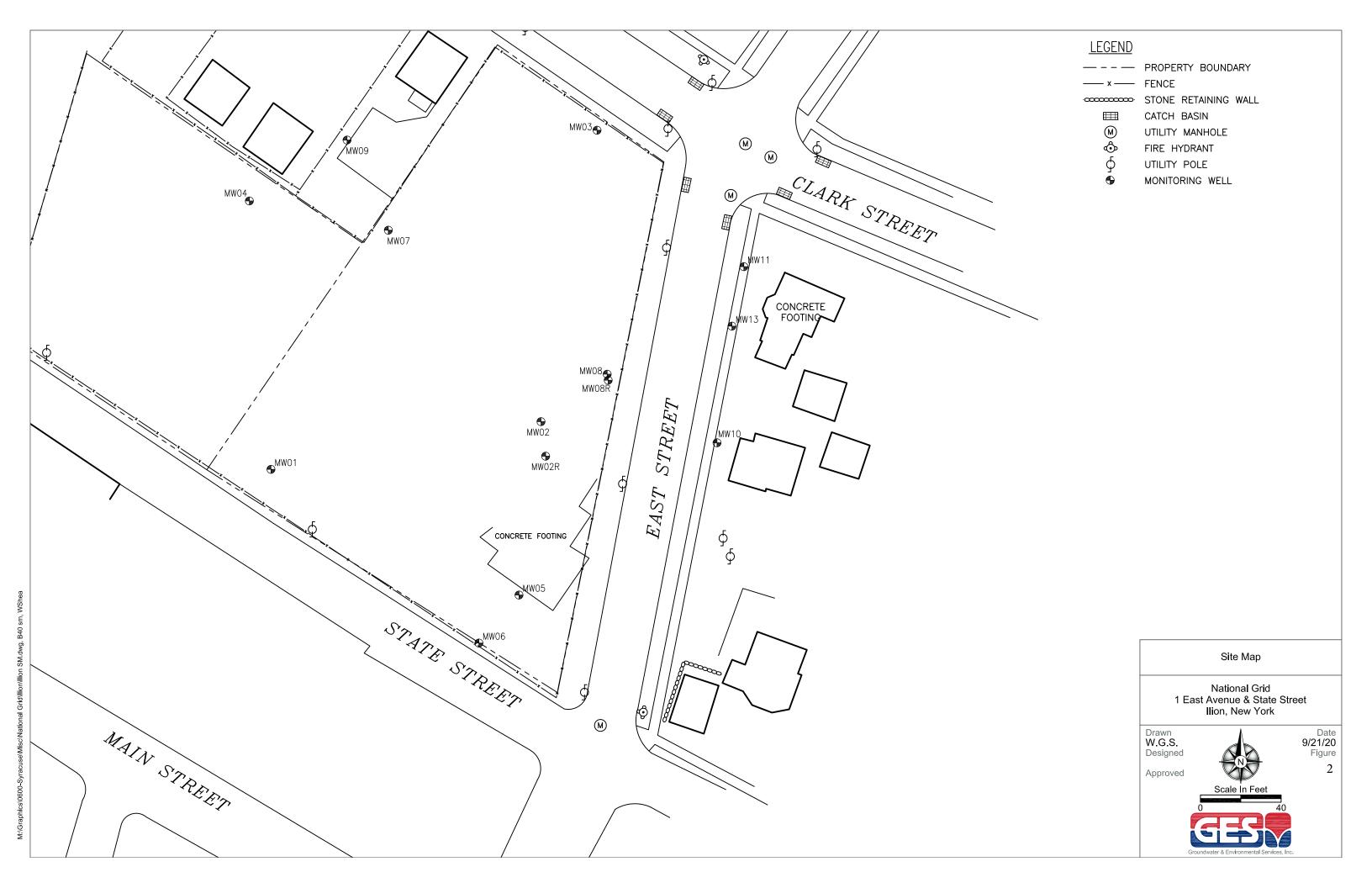
4 Recommendations

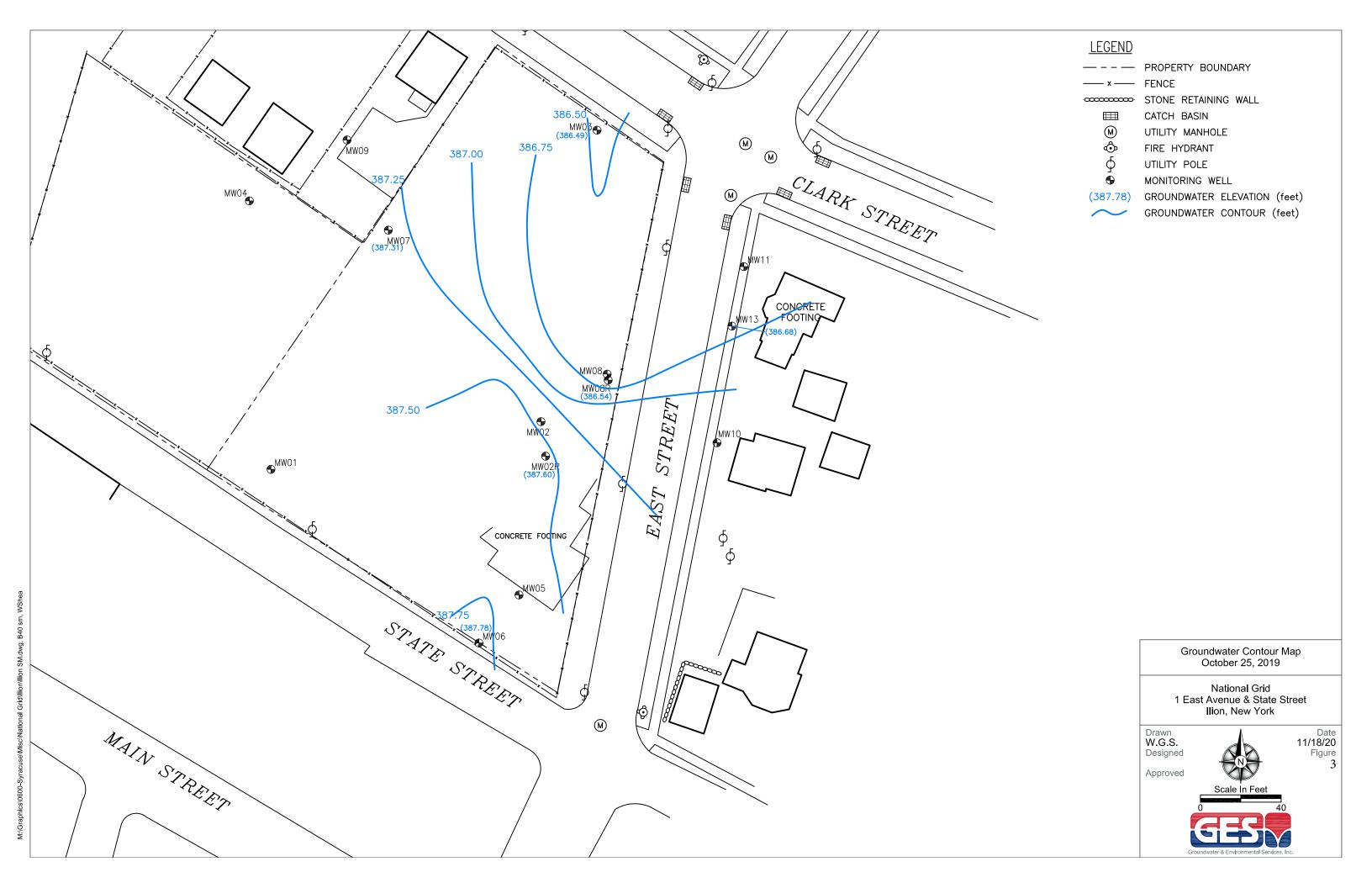
At this time, National Grid recommends continuing the semi-annual monitoring activities. The next semi-annual groundwater sampling event would be in May 2021. Semi-annual site-wide inspections are required; however, for internal security purposes, National Grid will continue to conduct quarterly site-wide inspections.



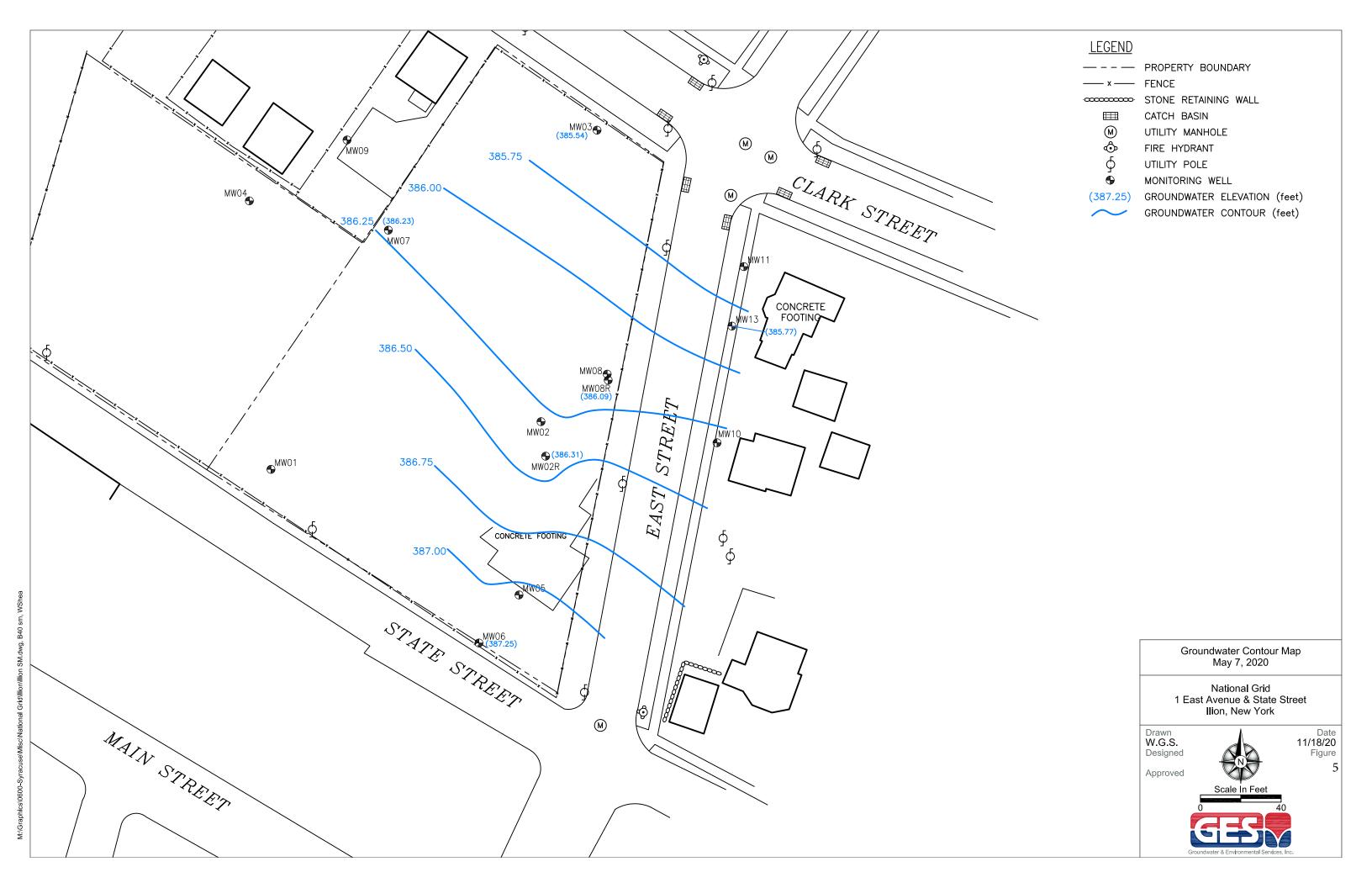
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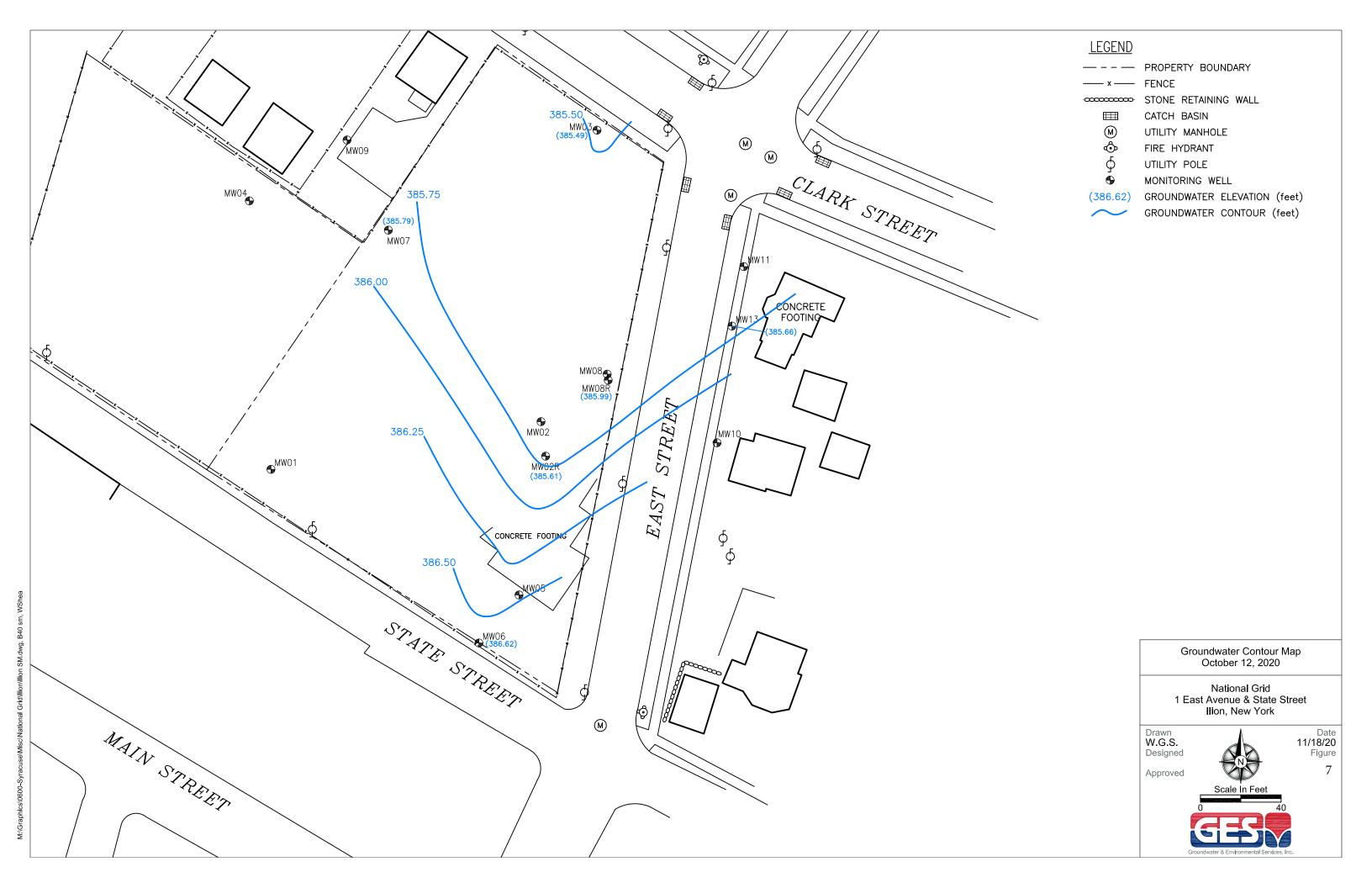
















Tables



Table 1

Groundwater Monitoring Well Gauging Data

Well ID	Well Type & Diameter	Top of Inner Casing Elevation	Depth To Well Bottom	Well Bottom Elevation	Screen Elevation	Depth To Water (10/05/17)	Groundwater Elevation (10/05/17)	Depth To Water (10/25/19)	Groundwater Elevation (1025/19)	Depth To Water (05/07/20)	Groundwater Elevation (05/07/20)	Depth To Water (10/12/20)	Groundwater Elevation (10/12/20)
MW-02R	Flushmount; PVC; 2-inch	398.43	18.0	380.43	8.0 - 18.0	14.15	384.28	10.83	387.60	12.12	386.31	12.82	385.61
MW-03	Flushmount; PVC; 2-inch	391.44	28.0	363.44	15.0 - 25.0	7.13	384.31	4.95	386.49	5.90	385.54	5.95	385.49
MW-06	Flushmount; PVC; 2-inch	404.21	28.0	376.21	15.0 - 25.0	19.00	385.21	16.43	387.78	16.96	387.25	17.59	386.62
MW-07	Flushmount; PVC; 2-inch	394.54	18.4	376.14	8.4 - 18.4	10.18	384.36	7.23	387.31	8.31	386.23	8.75	385.79
MW-08R	Flushmount; PVC; 2-inch	396.00	20.0	376.00	10.0 - 20.0	11.73	384.27	9.46	386.54	9.91	386.09	10.01	385.99
MW-13	Flushmount; PVC; 2-inch	392.20	24.0	368.20	14.0 - 24.0	7.95	384.25	5.52	386.68	6.43	385.77	6.54	385.66



Table 2

Groundwater Analytical Data

MW-02R

CONSTITUENT	UNITS	NYSDEC AWQS Values	10/05/17	10/24/19	05/27/20	10/12/20
BTEX Compounds						
Benzene	μg/L	1	1.3	186	551	632
Ethylbenzene	μg/L	5	ND (<1.0)	32.8	81.1	103
Xylenes, Total	μg/L	5	ND (<1.0)	48.8	162	253
Toluene	μg/L	5	ND (<1.0)	9.1	42.7	43.7
PAHs						
Acenaphthene	μg/L	20	2.4	24.3	20.4	38.3
Acenaphthylene	μg/L	NC	1.5	7.5	10.3	19.4
Anthracene	μg/L	50	ND (<1.0)	ND (<0.098)	ND (<0.10)	ND (<0.98)
Benzo(a)anthracene	μg/L	0.002	ND (<0.05)	ND (<0.098)	ND (<0.10)	ND (<0.98)
Benzo(a)pyrene	μg/L	0.002	ND (<0.05)	ND (<0.098)	ND (<0.10)	ND (<0.98)
Benzo(b)fluoranthene	μg/L	0.002	ND (<0.05)	ND (<0.098)	ND (<0.10)	ND (<0.98)
Benzo(g,h,i)perylene	μg/L	NC	ND (<0.05)	ND (<0.098)	ND (<0.10)	ND (<0.98)
Benzo(k)fluoranthene	μg/L	0.002	ND (<0.05)	ND (<0.098)	ND (<0.10)	ND (<0.98)
Chrysene	μg/L	0.002	ND (<0.05)	ND (<0.098)	ND (<0.10)	ND (<0.98)
Dibenzo(a,h)anthracene	μg/L	NC	ND (<0.05)	ND (<0.098)	ND (<0.10)	ND (<0.98)
Fluoranthene	μg/L	50	0.0982 J	ND (<0.098)	ND (<0.10)	ND (<0.98)
Fluorene	μg/L	50	1.08	4.0	4.4	9.0
Indeno(1,2,3-cd)pyrene	μg/L	0.002	ND (<1.0)	ND (<0.098)	ND (<0.10)	ND (<0.98)
2-Methylnaphthalene	μg/L	NC	ND (<1.0)	ND (<0.098)	ND (<0.10)	ND (<0.98)
Naphthalene	μg/L	10	0.285	133	257	515
Phenanthrene	μg/L	50	0.554	0.94	2.7	6.7
Pyrene	μg/L	50	ND (<1.0)	ND (<0.098)	ND (<0.10)	ND (<0.98)
Cyanide						
Cyanide	μg/L	200	150 J	1,600	3,900	4,100

AWQS = Ambient Water Quality Standards

BTEX = Benzene, Ethylbenzene, Toluene and Xylene

J = Estimated Concentration Value

mg/L = Milligrams per Liter

NC = No Criteria

ND (<#) = Not detected above laboratory reporting limit (indicated by #)

NS = Not Sampled

NYSDEC = New York State Department of Environmental Conservation

PAHs = Polycyclic Aromatic Hydrocarbons

 μ g/L = Micrograms per Liter



Table 2

Groundwater Analytical Data

MW-03

CONSTITUENT	UNITS	NYSDEC AWQS Values	10/05/17	10/24/19	05/27/20	10/12/20
BTEX Compounds						
Benzene	μg/L	1	ND (<0.5)	ND (<1.0)	ND (<1.0)	ND (<1.0)
Ethylbenzene	μg/L	5	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)
Xylenes, Total	μg/L	5	ND (<1.0)	ND (<3.0)	ND (<3.0)	ND (<3.0)
Toluene	μg/L	5	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)
PAHs						
Acenaphthene	μg/L	20	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.11)
Acenaphthylene	μg/L	NC	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.11)
Anthracene	μg/L	50	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.11)
Benzo(a)anthracene	μg/L	0.002	ND (<0.05)	ND (<0.099)	ND (<0.11)	ND (<0.11)
Benzo(a)pyrene	μg/L	0.002	ND (<0.05)	ND (<0.099)	ND (<0.11)	ND (<0.11)
Benzo(b)fluoranthene	μg/L	0.002	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.11)
Benzo(g,h,i)perylene	μg/L	NC	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.11)
Benzo(k)fluoranthene	μg/L	0.002	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.11)
Chrysene	μg/L	0.002	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.11)
Dibenzo(a,h)anthracene	μg/L	NC	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.11)
Fluoranthene	μg/L	50	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.11)
Fluorene	μg/L	50	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.11)
Indeno(1,2,3-cd)pyrene	μg/L	0.002	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.11)
2-Methylnaphthalene	μg/L	NC	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.11)
Naphthalene	μg/L	10	ND (<0.10)	ND (<0.099)	0.61	0.24
Phenanthrene	μg/L	50	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.11)
Pyrene	μg/L	50	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.11)
Cyanide						
Cyanide	μg/L	200	10 J	ND (<10)	ND (<10)	ND (<10)

AWQS = Ambient Water Quality Standards

BTEX = Benzene, Ethylbenzene, Toluene and Xylene

J = Estimated Concentration Value

mg/L = Milligrams per Liter

NC = No Criteria

ND (<#) = Not detected above laboratory reporting limit (indicated by #)

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PAHs = Polycyclic Aromatic Hydrocarbons

 μ g/L = Micrograms per Liter



Table 2

Groundwater Analytical Data

MW-06

CONSTITUENT	UNITS	NYSDEC AWQS Values	10/05/17	10/24/19	05/27/20	10/12/20
BTEX Compounds						
Benzene	μg/L	1	ND (<0.5)	ND (<1.0)	4.5	ND (<1.0)
Ethylbenzene	μg/L	5	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)
Xylenes, Total	μg/L	5	ND (<1.0)	ND (<3.0)	ND (<3.0)	ND (<3.0)
Toluene	μg/L	5	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)
PAHs						
Acenaphthene	μg/L	20	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.11)
Acenaphthylene	μg/L	NC	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.11)
Anthracene	μg/L	50	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.11)
Benzo(a)anthracene	μg/L	0.002	ND (<0.05)	ND (<0.099)	ND (<0.11)	ND (<0.11)
Benzo(a)pyrene	μg/L	0.002	ND (<0.05)	ND (<0.099)	ND (<0.11)	ND (<0.11)
Benzo(b)fluoranthene	μg/L	0.002	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.11)
Benzo(g,h,i)perylene	μg/L	NC	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.11)
Benzo(k)fluoranthene	μg/L	0.002	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.11)
Chrysene	μg/L	0.002	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.11)
Dibenzo(a,h)anthracene	μg/L	NC	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.11)
Fluoranthene	μg/L	50	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.11)
Fluorene	μg/L	50	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.11)
Indeno(1,2,3-cd)pyrene	μg/L	0.002	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.11)
2-Methylnaphthalene	μg/L	NC	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.11)
Naphthalene	μg/L	10	ND (<0.10)	ND (<0.099)	1.2	0.22
Phenanthrene	μg/L	50	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.11)
Pyrene	μg/L	50	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.11)
Cyanide						
Cyanide	μg/L	200	10 J	ND (<10)	ND (<10)	ND (<10)

AWQS = Ambient Water Quality Standards

BTEX = Benzene, Ethylbenzene, Toluene and Xylene

J = Estimated Concentration Value

mg/L = Milligrams per Liter

NC = No Criteria

ND (<#) = Not detected above laboratory reporting limit (indicated by #)

NS = Not Sampled

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PAHs = Polycyclic Aromatic Hydrocarbons

 μ g/L = Micrograms per Liter



Table 2

Groundwater Analytical Data

MW-07

CONSTITUENT	UNITS	NYSDEC AWQS Values	10/05/17	10/24/19	05/27/20	10/12/20
BTEX Compounds						
Benzene	μg/L	1	3.1	ND (<1.0)	2.8	17.2
Ethylbenzene	μg/L	5	ND (<1.0)	ND (<1.0)	ND (<1.0)	1.5
Xylenes, Total	μg/L	5	2.2	ND (<3.0)	ND (<3.0)	7.1
Toluene	μg/L	5	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)
PAHs						
Acenaphthene	μg/L	20	ND (<0.10)	ND (<0.099)	0.11	0.78
Acenaphthylene	μg/L	NC	0.498	0.16	ND (<0.11)	1.7
Anthracene	μg/L	50	ND (<0.10)	ND (<0.099)	ND (<0.11)	0.17
Benzo(a)anthracene	μg/L	0.002	ND (<0.05)	ND (<0.099)	ND (<0.11)	ND (<0.099)
Benzo(a)pyrene	μg/L	0.002	ND (<0.05)	ND (<0.099)	0.12	ND (<0.099)
Benzo(b)fluoranthene	μg/L	0.002	ND (<0.10)	ND (<0.099)	0.12	ND (<0.099)
Benzo(g,h,i)perylene	μg/L	NC	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.099)
Benzo(k)fluoranthene	μg/L	0.002	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.099)
Chrysene	μg/L	0.002	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.099)
Dibenzo(a,h)anthracene	μg/L	NC	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.099)
Fluoranthene	μg/L	50	ND (<0.10)	0.10	0.22	0.14
Fluorene	μg/L	50	ND (<0.10)	ND (<0.099)	ND (<0.11)	0.18
Indeno(1,2,3-cd)pyrene	μg/L	0.002	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.099)
2-Methylnaphthalene	μg/L	NC	ND (<0.10)	ND (<0.099)	ND (<0.11)	0.23
Naphthalene	μg/L	10	3.23	ND (<0.099)	0.47	29.7
Phenanthrene	μg/L	50	ND (<0.10)	ND (<0.099)	ND (<0.11)	0.17
Pyrene	μg/L	50	ND (<0.10)	ND (<0.099)	0.18	ND (<0.099)
Cyanide			<u> </u>	-		
Cyanide	μg/L	200	290 J	ND (<10)	2,300	1,800

AWQS = Ambient Water Quality Standards

BTEX = Benzene, Ethylbenzene, Toluene and Xylene

J = Estimated Concentration Value

mg/L = Milligrams per Liter

NC = No Criteria

ND (<#) = Not detected above laboratory reporting limit (indicated by #)

NS = Not Sampled

NYSDEC = New York State Department of Environmental Conservation

PAHs = Polycyclic Aromatic Hydrocarbons

 μ g/L = Micrograms per Liter



Table 2

Groundwater Analytical Data

MW-08R

CONSTITUENT	UNITS	NYSDEC AWQS Values	10/06/17	10/24/19	05/27/20	10/12/20
BTEX Compounds						
Benzene	μg/L	1	4.1	1.5	3.3	ND (<1.0)
Ethylbenzene	μg/L	5	3.6	ND (<1.0)	1.8	ND (<1.0)
Xylenes, Total	μg/L	5	1.5	ND (<3.0)	ND (<3.0)	ND (<3.0)
Toluene	μg/L	5	0.38 J	ND (<1.0)	ND (<1.0)	ND (<1.0)
PAHs						
Acenaphthene	μg/L	20	2.46	3.2	0.25	1.2
Acenaphthylene	μg/L	NC	9.24	7.8	0.79	2.9
Anthracene	μg/L	50	0.214	0.14	ND (<0.11)	ND (<0.095)
Benzo(a)anthracene	μg/L	0.002	0.167	0.16	ND (<0.11)	ND (<0.095)
Benzo(a)pyrene	μg/L	0.002	0.18	0.15	ND (<0.11)	ND (<0.095)
Benzo(b)fluoranthene	μg/L	0.002	0.18	0.18	ND (<0.11)	ND (<0.095)
Benzo(g,h,i)perylene	μg/L	NC	ND (<0.10)	ND (<0.098)	ND (<0.11)	ND (<0.095)
Benzo(k)fluoranthene	μg/L	0.002	ND (<0.10)	ND (<0.098)	ND (<0.11)	ND (<0.095)
Chrysene	μg/L	0.002	0.155	0.13	ND (<0.11)	ND (<0.095)
Dibenzo(a,h)anthracene	μg/L	NC	ND (<0.10)	ND (<0.098)	ND (<0.11)	ND (<0.095)
Fluoranthene	μg/L	50	0.514	0.55	ND (<0.11)	ND (<0.095)
Fluorene	μg/L	50	4.62	4.5	ND (<0.11)	0.88
Indeno(1,2,3-cd)pyrene	μg/L	0.002	ND (<0.10)	ND (<0.098)	ND (<0.11)	ND (<0.095)
2-Methylnaphthalene	μg/L	NC	ND (<0.10)	ND (<0.098)	ND (<0.11)	ND (<0.095)
Naphthalene	μg/L	10	0.845	0.14	1.0	0.4
Phenanthrene	μg/L	50	2.26	0.27	ND (<0.11)	ND (<0.095)
Pyrene	μg/L	50	0.421	0.37	ND (<0.11)	ND (<0.095)
Cyanide						
Cyanide	μg/L	200	430 J	1,200	890	560

AWQS = Ambient Water Quality Standards

BTEX = Benzene, Ethylbenzene, Toluene and Xylene

J = Estimated Concentration Value

mg/L = Milligrams per Liter

NC = No Criteria

ND (<#) = Not detected above laboratory reporting limit (indicated by #)

NS = Not Sampled

NYSDEC = New York State Department of Environmental Conservation

PAHs = Polycyclic Aromatic Hydrocarbons

μg/L = Micrograms per Liter



Table 2

Groundwater Analytical Data

MW-13

CONSTITUENT	UNITS	NYSDEC AWQS Values	10/05/17	10/24/19	05/27/20	10/12/20
BTEX Compounds						
Benzene	μg/L	1	ND (<0.5)	ND (<1.0)	1.4	ND (<1.0)
Ethylbenzene	μg/L	5	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)
Xylenes, Total	μg/L	5	ND (<1.0)	ND (<3.0)	ND (<3.0)	ND (<3.0)
Toluene	μg/L	5	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)
PAHs						
Acenaphthene	μg/L	20	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.095)
Acenaphthylene	μg/L	NC	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.095)
Anthracene	μg/L	50	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.095)
Benzo(a)anthracene	μg/L	0.002	ND (<0.05)	ND (<0.099)	ND (<0.11)	ND (<0.095)
Benzo(a)pyrene	μg/L	0.002	ND (<0.05)	ND (<0.099)	ND (<0.11)	ND (<0.095)
Benzo(b)fluoranthene	μg/L	0.002	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.095)
Benzo(g,h,i)perylene	μg/L	NC	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.095)
Benzo(k)fluoranthene	μg/L	0.002	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.095)
Chrysene	μg/L	0.002	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.095)
Dibenzo(a,h)anthracene	μg/L	NC	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.095)
Fluoranthene	μg/L	50	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.095)
Fluorene	μg/L	50	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.095)
Indeno(1,2,3-cd)pyrene	μg/L	0.002	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.095)
2-Methylnaphthalene	μg/L	NC	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.095)
Naphthalene	μg/L	10	ND (<0.10)	ND (<0.099)	0.63	ND (<0.095)
Phenanthrene	μg/L	50	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.095)
Pyrene	μg/L	50	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.095)
Cyanide						
Cyanide	μg/L	200	10 J	ND (<10)	ND (<10)	ND (<10)

AWQS = Ambient Water Quality Standards

BTEX = Benzene, Ethylbenzene, Toluene and Xylene

J = Estimated Concentration Value

mg/L = Milligrams per Liter

NC = No Criteria

ND (<#) = Not detected above laboratory reporting limit (indicated by #)

NS = Not Sampled

NYSDEC = New York State Department of Environmental Conservation

PAHs = Polycyclic Aromatic Hydrocarbons

 μ g/L = Micrograms per Liter



Appendix A – Field Inspection Reports

Field Inspection Report Former MGP Site

Date:	10/12/2020	llion, New York	Time:	14:10
Technician:	AJ	_	Weather:	Partly Sunny 59

Site Controls							
Fence Condition	GOOD	OD FAIR		DAMAGED	COMMENTS:		
Front Gate Condition	GOOD	FA	ΝIR	DAMAGED	COMMENTS:		
Rear Man Gate Condition	GOOD	FAIR		DAMAGED	COMMENTS:		
Padlock-NG	OPERATION	NAL	NON-0	PERATIONAL	COMMENTS:		

General Site Conditions								
Condition of Parking area	GOOD FAI		AIR	POOR	COMMENTS:			
Evidence of any Intrusive Activities	NONE	NONE MINO		SIGNIFICANT	COMMENTS:			
Vegetative Growth	GOOD	GOOD FAI		POOR	COMMENTS:			
Conditions of the Site Trees	GOOD	F.A	ΝIR	POOR	COMMENTS:			
Agricultural or Vegetable Gardens	YES		NO		COMMENTS:			
Site Been Mowed	YES			NO	COMMENTS:			
Evidence of Vandalism	YES			NO	COMMENTS:			
Litter	NONE	NONE MINO		SIGNIFICANT	COMMENTS:			

Is the site being used in a manner inconsistant with Environmental Easement?

Yes	No
-----	----

Site Monitoring Wells					
Well ID.	Locatio	n Secure			
MW-02R	Yes	No			
MW-03	Yes	No			
MW-06	Yes	No			
MW-07	Yes	No			
MW-08R	Yes	No			
MW-13	Yes	No			

Field Inspection Report Former MGP Site

Date:	7/30/2020	Ilion, New York	Time:	8:30
Technician:	TB		Weather:	Partly Cloudy 72

Site Controls							
Fence Condition	GOOD	FA	ΝIR	DAMAGED	COMMENTS:		
Front Gate Condition	GOOD	FA	ΝIR	DAMAGED	COMMENTS:		
Rear Man Gate Condition	GOOD	FA	AIR	DAMAGED	COMMENTS:		
Padlock-NG	OPERATION	NAL	NON-0	PERATIONAL	COMMENTS:		

General Site Conditions						
Condition of Parking area	GOOD	F <i>A</i>	ΝR	POOR	COMMENTS:	
Evidence of any Intrusive Activities	NONE	MINOF		SIGNIFICANT	COMMENTS:	
Vegetative Growth	GOOD	FAIR		POOR	COMMENTS:	
Conditions of the Site Trees	GOOD	F.A	ΝR	POOR	COMMENTS:	
Agricultural or Vegetable Gardens	YES	NC		NO	COMMENTS:	
Site Been Mowed	YES			NO	COMMENTS:	
Evidence of Vandalism	YES			NO	COMMENTS:	
Litter	NONE	MIN	IOR	SIGNIFICANT	COMMENTS:	

Is the site being used in a manner inconsistant with Environmental Easement?

Yes	No
-----	----

Site Monitoring Wells					
Well ID.	Locatio	n Secure			
MW-02R	Yes	No			
MW-03	Yes	No			
MW-06	Yes	No			
MW-07	Yes	No			
MW-08R	Yes	No			
MW-13	Yes	No			

Date:	5/27/2020	
Technician:	BH	

Time: 14:10
Weather: Sunny 89

Site Controls							
Fence Condition	GOOD	F.A	ΝR	DAMAGED	COMMENTS:		
Front Gate Condition	GOOD	FA	ΝR	DAMAGED	COMMENTS:		
Rear Man Gate Condition	GOOD	FA	ΝR	DAMAGED	COMMENTS:		
Padlock-NG	OPERATIO	NAL	NON-0	OPERATIONAL	COMMENTS:		

General Site Conditions						
Condition of Parking area	GOOD	F <i>A</i>	ΝR	POOR	COMMENTS:	
Evidence of any Intrusive Activities	NONE	MIN	IOR	SIGNIFICANT	COMMENTS:	
Vegetative Growth	GOOD	F <i>A</i>	ΝR	POOR	COMMENTS:	
Conditions of the Site Trees	GOOD) FA		POOR	COMMENTS:	
Agricultural or Vegetable Gardens	YES	ES		NO	COMMENTS:	
Site Been Mowed	YES		NO		COMMENTS:	
Evidence of Vandalism	YES			NO	COMMENTS:	
Litter	NONE	MIN	IOR	SIGNIFICANT	COMMENTS:	

Is the site being used in a manner inconsistant with Environmental Easement?

Yes	No
-----	----

Site Monitoring Wells					
Well ID.	Locatio	n Secure			
MW-02R	Yes	No			
MW-03	Yes	No			
MW-06	Yes	No			
MW-07	Yes	No			
MW-08R	Yes	No			
MW-13	Yes	No			

General Comments:

the fenceline could use some weed trimming

Date:	5/1/2020	_
Technician:	KL	

Time:	8:00
Weather:	Cloudy 51

Site Controls						
Fence Condition	GOOD	F/	\IR	DAMAGED	COMMENTS:	
Front Gate Condition	GOOD	F/	\IR	DAMAGED	COMMENTS:	
Rear Man Gate Condition	GOOD	F/	AIR	DAMAGED	COMMENTS:	
Padlock-NG	OPERATIO	NAL	NON-0	OPERATIONAL	COMMENTS:	

General Site Conditions							
Condition of Parking area	GOOD	F <i>A</i>	AIR	POOR	COMMENTS:		
Evidence of any Intrusive Activities	NONE	NONE MIN		SIGNIFICANT	COMMENTS:		
Vegetative Growth	GOOD	GOOD FA		FAIR		POOR	COMMENTS:
Conditions of the Site Trees	GOOD	OD FA		POOR	COMMENTS:		
Agricultural or Vegetable Gardens	YES		NO		COMMENTS:		
Site Been Mowed	YES	YES		NO	COMMENTS:		
Evidence of Vandalism	YES			NO	COMMENTS:		
Litter	NONE	MIN	IOR	SIGNIFICANT	COMMENTS: Cleaned up property		

Is the site being used in a manner inconsistant with Environmental Easement?

Yes	No
-----	----

Site Monitoring Wells				
Well ID.	Locatio	n Secure		
MW-02R	Yes	No		
MW-03	Yes	No		
MW-06	Yes	No		
MW-07	Yes	No		
MW-08R	Yes	No		
MW-13	Yes	No		

Date:	1/15/2020
Technician:	PD

Time: 9:00
Weather: PC 40

Site Controls							
Fence Condition	GOOD	FA	ΝIR	DAMAGED	COMMENTS:		
Front Gate Condition	GOOD	FA	ΝIR	DAMAGED	COMMENTS:		
Rear Man Gate Condition	GOOD	FA	ΝIR	DAMAGED	COMMENTS:		
Padlock-NG	OPERATIO	NAL	NON-0	OPERATIONAL	COMMENTS:		

General Site Conditions							
Condition of Parking area	GOOD	F <i>A</i>	ΝIR	POOR	COMMENTS:		
Evidence of any Intrusive Activities	NONE	MIN	IOR	SIGNIFICANT	COMMENTS:		
Vegetative Growth	GOOD	FAIR		POOR	COMMENTS:		
Conditions of the Site Trees	GOOD	F.A	ΝIR	POOR	COMMENTS:		
Agricultural or Vegetable Gardens	YES	YES		NO	COMMENTS:		
Site Been Mowed	YES	YES		NO	COMMENTS: Winter		
Evidence of Vandalism	YES			NO	COMMENTS:		
Litter	NONE	MIN	IOR	SIGNIFICANT	COMMENTS:		

Is the site being used in a manner inconsistant with Environmental Easement?

Yes	No
-----	----

Site Monitoring Wells				
Well ID.	Locatio	n Secure		
MW-02R	Yes	No		
MW-03	Yes	No		
MW-06	Yes	No		
MW-07	Yes	No		
MW-08R	Yes	No		
MW-13	Yes	No		

Field Inspection Report Former MGP Site

Date:	12/18/2019	llion, New York	Time:
Technician:	KL	_	Weather:

Site Controls							
Fence Condition	GOOD	FA	ΝIR	DAMAGED	COMMENTS:		
Front Gate Condition	GOOD	FA	ΝIR	DAMAGED	COMMENTS:		
Rear Man Gate Condition	GOOD	FAIR		DAMAGED	COMMENTS:		
Padlock-NG	OPERATION	IAL NON-C		PERATIONAL	COMMENTS:		

General Site Conditions							
Condition of Parking area	GOOD FAI		AIR	POOR	COMMENTS:		
Evidence of any Intrusive Activities	NONE	MINOR		SIGNIFICANT	COMMENTS:		
Vegetative Growth	GOOD	FAIR		POOR	COMMENTS:		
Conditions of the Site Trees	GOOD	FAIR		POOR	COMMENTS:		
Agricultural or Vegetable Gardens	YES	YES		NO	COMMENTS:		
Site Been Mowed	YES	YES		NO	COMMENTS: Snow on site		
Evidence of Vandalism	YES	,		NO	COMMENTS:		
Litter	NONE	NONE MINOR		SIGNIFICANT	COMMENTS:		

Is the site being used in a manner inconsistant with Environmental Easement?

Yes	No
-----	----

10:30

Sunny 29

Site Monitoring Wells					
Well ID.	Well ID. Location Secure				
MW-02R	Yes	No			
MW-03	Yes	No			
MW-06	Yes	No			
MW-07	Yes	No			
MW-08R	Yes	No			
MW-13	Yes	No			

Date:	10/24/2019
Technician:	KL

Time:	8:00
Weather:	Sunny 40

Site Controls						
Fence Condition	GOOD	F <i>P</i>	ΝIR	DAMAGED	COMMENTS:	
Front Gate Condition	GOOD	FAIR		DAMAGED	COMMENTS:	
Rear Man Gate Condition	GOOD	FAIR		DAMAGED	COMMENTS:	
Padlock-NG	OPERATIO	IONAL NON-OI		OPERATIONAL	COMMENTS:	

General Site Conditions						
Condition of Parking area	GOOD FAIR		ΝR	POOR	COMMENTS:	
Evidence of any Intrusive Activities	NONE	MINOR		SIGNIFICANT	COMMENTS:	
Vegetative Growth	GOOD	FAIR		POOR	COMMENTS:	
Conditions of the Site Trees	GOOD	FAIR		POOR	COMMENTS:	
Agricultural or Vegetable Gardens	YES	YES		NO	COMMENTS:	
Site Been Mowed	YES	YES		NO	COMMENTS:	
Evidence of Vandalism	YES			NO	COMMENTS:	
Litter	NONE	NE MINOR		SIGNIFICANT	COMMENTS:	

Is the site being used in a manner inconsistant with Environmental Easement?

Yes	No
-----	----

Site Monitoring Wells				
Well ID.	Locatio	n Secure		
MW-02R	Yes	No		
MW-03	Yes	No		
MW-06	Yes	No		
MW-07	Yes	No		
MW-08R	Yes	No		
MW-13	Yes	No		

Date: 9/27/2019		Ilion, New Y
Technician:	KI	

Time:	9:30
Weather:	Sunny 58

Site Controls						
Fence Condition	GOOD	F <i>P</i>	\IR	DAMAGED	COMMENTS:	
Front Gate Condition	GOOD	F <i>A</i>	AIR	DAMAGED	COMMENTS:	
Rear Man Gate Condition	GOOD	FAIR		DAMAGED	COMMENTS:	
Padlock-NG	OPERATIO	OPERATIONAL NON-C		OPERATIONAL	COMMENTS:	

General Site Conditions						
Condition of Parking area	GOOD	F <i>A</i>	AIR	POOR	COMMENTS:	
Evidence of any Intrusive Activities	NONE	MINOR		SIGNIFICANT	COMMENTS:	
Vegetative Growth	GOOD	FAIR		POOR	COMMENTS:	
Conditions of the Site Trees	GOOD	FAIR		POOR	COMMENTS:	
Agricultural or Vegetable Gardens	YES			NO	COMMENTS:	
Site Been Mowed	YES	YES		NO	COMMENTS:	
Evidence of Vandalism	YES			NO	COMMENTS:	
Litter	NONE	MINOR		SIGNIFICANT	COMMENTS:	

Is the site being used in a manner inconsistant with Environmental Easement?

Yes	No
-----	----

Site Monitoring Wells				
Well ID.	Location Secure			
MW-02R	Yes	No		
MW-03	Yes	No		
MW-06	Yes	No		
MW-07	Yes	No		
MW-08R	Yes	No		
MW-13	Yes	No		



Appendix B – Well Sampling Field Data

100000000 100 100 100 100 100 100 100 1				
Sampling Personnel:	Date: (0/24/19			
Job Number: 06-03040-133570-221	Date: (0/24/19 Weather: 50M 360			
Well Id. MW-02R	Time In: 69:05			
Well Information TOC Other	Well Type: Flushmount Stick-Up			
Depth to Water: (feet) 10.63	Well Locked: Yes No			
Depth to Bottom: (feet) 19-30	Measuring Point Marked: Yes No			
Depth to Product: (feet)	Well Material: PVC SS Other:			
Length of Water Column: (feet) 7 - 47	Well Diameter: 1" 2" Other:			
Volume of Water in Well: (gal)	Comments:			
Three Well Volumes: (gal) 3 5 7				
Purging Information				
Fulging information	Conversion Factors			
Purging Method: Bailer Peristaltic Grundfos				
	thylene of			
Sampling Method: Bailer Peristaltic Grundfos	water 0.04 0.16 0.66 1.47			
Average Pumping Rate: (ml/min) 200	1 gallon=3.785L=3785mL=1337cu. feet			
Duration of Pumping: (min) 33	— A			
Total Volume Removed: (gal) 2 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)			
09:25 11:00 5:30 7.94 72	1.17 560 7.29 0.748			
08:30 11.43 11.26 7.06 -18	1.05 122 0.00 0.670			
09:33 11:72 11-85 10-97 -29	1.05 10-1 10-00 0-670			
11.10-11.00	1.0) 20.1 0.0			
08:45 12-05 12-32 6-97 -50	1.05 38.0 0.00 0.673			
09:50 12-16 12-41 6.96 -41	1.05 42.40.00 0.673			
12-76 12-83 6.86 -46	101 184 00 0.65			
Sampling Information:				
EPA SW-846 Method 8270 SVOC PAH's	2 - 1 liter ambers Yes No			
EPA SW-846 Method 8260 VOC's BTEX 3 - 40 ml vials Yes No				
EPA SW-846 Method 9012 Total Cyanide 1 - 250 ml plastic Yes No				
Sample ID: MW-02R-1019 Duplicate? Yes No	Shipped: Pace Courier Pickup			
Sample Time: 08:55 MS/MSD? Yes No Drop-off Albany Service Center				
Comments/Notes: Laboratory: Pace Analytical Greensburg, PA				

Sampling Personnel:		Date: /0/2419
Job Number: 06-03040-133570-221	Weather: Give 44	
Well Id. MW-03		Time In: (0.90 Time Out: //30
Well Information	TOC Other	Well Type: Flushmount Stick-Up
Depth to Water: (feet)	4.95	Well Locked: Yes No
Depth to Bottom: (feet)	27.25	Measuring Point Marked: Yes No
Depth to Product: (feet)		Well Material: PVC SS Other:
Length of Water Column: (feet)		Well Diameter: 1" 2" Other:
Volume of Water in Well: (gal)		Comments:
Three Well Volumes: (gal)		
Purging Information		
- r diging information		Conversion Factors
Purging Method:	iller Peristaltic	Grundfos Pump gal/ft. 1" ID 2" ID 4" ID 6" ID
	flon Stainless St.	Polyethylene of
	iller Peristaltic	Grundfos Pump water 0.04 0.16 0.66 1.47
Average Pumping Rate: (ml/min)	200	1 gallon=3.785L=3785mL=1337cu. feet
Duration of Pumping: (min)	30	
Total Volume Removed: (gal)	2 Did well go	dry? Yes No
Horiba U-52 Water Quality Meter Used?	Yes No	1
Tionba 6 62 Water Quality Weter 6564.	10027110	
Time DTW Temp	pH ORF	Conductivity Turbidity DO TDS
Time DTW Temp (feet) (°C)	(mV	
1/20 4.90 14.06	1 31 01	
11:05 4.97 14.21	7.0% -5	1.16 67.5 0.00 6-745
11:10 448 1416	720 19	1.18 59:1 0.00 0.752
11:15 405 14-2-	7.21 25	1.17 40.8 0.00 0.751
11020 4.95 14.22	7.21 30	1.12 37.6 0.00 0.751
11:25 495 14.24	7.21 35	1.18 27.4 0-00 0.752
11:30 4.95 14.28	7.2 39	1.18 23.0 0.00 0.754
11:00	1 9	
Sampling Information:		
EPA SW-846 Method 8270 SVOC	PAH's	4 - 1 liter ambers Yes No
ll control of the con	BTEX	6 - 40 ml vials Yes No
	Cyanide	2 - 250 ml plastic Yes No
Total	a v . a.(.(
Sample ID: MW-03-1019	Ouplicate? Yes No	Shipped: Pace Courier Pickup
I	MS/MSD? Yes No	
(<u> </u>		

Scondition Street, Offeida New York	
Sampling Personnel:	Date: 10/24/19
Job Number: 06-03040-133570-221	Weather: SUNWY 30
Well Id. MW-06	Time In: / 9 20 Time Out: / 0-4
Well Information	
Depth to Water: (feet) /(2.43	
Depth to Water: (feet) / 6 4 3 Depth to Bottom: (feet) 29 607	Well Locked: Yes No Measuring Point Marked: Yes No
Depth to Product: (feet)	Well Material: PVC SS Other:
Length of Water Column: (feet) 12-17	Well Diameter: 1" 2" Other:
Volume of Water in Well: (gal)	Comments:
Three Well Volumes: (gal) 5 € 4	
Purging Information	
- Targing information	Conversion Factors
Purging Method: Bailer Peristaltic	Grundfos Pump gal/ft. 1" ID 2" ID 4" ID 6" ID
Tubing/Bailer Material: Teflon Stainless St.	Polyethylene of
Sampling Method: Bailer Peristaltic	Grundfos Pump water 0.04 0.16 0.66 1.47
Average Pumping Rate: (ml/min) 250	1 gallon=3.785L=3785mL=1337cu. feet
Duration of Pumping:(min)30Total Volume Removed:(gal)2Did well	I go dry? Yes No
Horiba U-52 Water Quality Meter Used? Yes ✓ N	0
Time DTW Town NH (DRD Conductivity Turkidity DO TDC
10.00	DRP Conductivity Turbidity DO TDS (mS/cm) (NTU) (mg/L) (q/L)
(feet) (°C) (mV) (mS/cm) (NTU) (mg/L) (g/L)
(feet) (°C) (mV) (mS/cm) (NTU) (mg/L) (g/L)
(feet) (°C) (09:10 16:53 12:52 (6:92 - 09:15 16:55 12:56 6:57 - 09:20 14:85 12:32 7:01 -3	mV) (mS/cm) (NTU) (mg/L) (g/L) 65 1.04 147 0.00 0.667 59 1.10 94.1 0.00 0.717 5.7 1.27 62.7 0.00 0.816
(feet) (°C) (09:10 16:53 12:52 6:92 - 09:15 16:55 12:56 6:57 - 09:20 16:85 12:32 7:04 -3 09:25 16:55 12-21 7:08 -3	mV) (mS/cm) (NTU) (mg/L) (g/L) 65 1.04 147 0.00 0.667 69 1.10 94.1 0.00 0.717 6.7 1.27 62.7 0.00 0.816 61 157 582 0.00 1.01
(feet) (°C) (09:10 16:53 12:52 (6:92 - 09:15 16:55 12:56 6:57 - 09:20 14:85 12:32 7:01 -3	mV) (mS/cm) (NTU) (mg/L) (g/L) 65 1.04 147 0.00 0.667 59 1.10 94.1 0.00 0.717 5.7 1.27 62.7 0.00 1.01 5.1 157 582 0.00 1.01 5.0 1.66 4
(feet) (°C) (97 - 97 - 97 - 97 - 97 - 97 - 97 - 97	mV) (mS/cm) (NTU) (mg/L) (g/L) 65 1.04 147 0.00 0.667 69 1.10 94.1 0.00 0.717 6.7 1.27 62.7 0.00 0.816 61 157 582 0.00 1.01
(feet) (°C) (09:10 16:53 12:52 6:92 - 09:15 16:55 12:56 6:57 - 09:20 16:85 12:32 7:04 -3 09:25 16:55 12-21 7:08 -3	mV) (mS/cm) (NTU) (mg/L) (g/L) 65 1.04 147 0.00 0.667 59 1.10 94.1 0.00 0.717 5.7 1.27 62.7 0.00 1.01 5.1 157 582 0.00 1.01 5.0 1.66 4
(feet) (°C) (97 - 97 - 97 - 97 - 97 - 97 - 97 - 97	mV) (mS/cm) (NTU) (mg/L) (g/L) 65 1.04 147 0.00 0.667 59 1.10 94.1 0.00 0.717 5.7 1.27 62.7 0.00 1.01 5.1 157 582 0.00 1.01 5.0 1.66 4
(feet) (°C) (97 - 97 - 97 - 97 - 97 - 97 - 97 - 97	mV) (mS/cm) (NTU) (mg/L) (g/L) 65 1.04 147 0.00 0.667 59 1.10 94.1 0.00 0.717 5.7 1.27 62.7 0.00 1.01 5.1 157 582 0.00 1.01 5.0 1.66 4
(feet) (°C) (92 - 92 - 93 - 94 - 95 12 - 95	mV) (mS/cm) (NTU) (mg/L) (g/L) 65 1.04 147 0.00 0.667 59 1.10 94.1 0.00 0.717 5.7 1.27 62.7 0.00 1.01 5.1 157 582 0.00 1.01 5.0 1.66 4
(feet) (°C) (97 - 97 - 97 - 97 - 97 - 97 - 97 - 97	mV) (mS/cm) (NTU) (mg/L) (g/L) 65 1.04 147 0.00 0.667 59 1.10 94.1 0.00 0.717 5.7 1.27 62.7 0.00 1.01 5.1 157 582 0.00 1.01 5.0 1.66 4
(feet) (°C) (97 - 97 - 97 - 97 - 97 - 97 - 97 - 97	mV) (mS/cm) (NTU) (mg/L) (g/L) 65 1.04 147 0.00 0.667 59 1.10 94.1 0.00 0.717 5.7 1.27 62.7 0.00 1.01 5.1 157 582 0.00 1.01 5.0 1.66 4
(feet) (°C) (97 - 97 - 97 - 97 - 97 - 97 - 97 - 97	mV) (mS/cm) (NTU) (mg/L) (g/L) 65 1.04 147 0.00 0.667 59 1.10 94.1 0.00 0.717 6.7 1.27 62.7 0.00 1.01 6.0 1.66 4.5 9 0.00 1.01 6.0 1.69 34.5 0.00 1.08 6.0 1.69 34.5 0.00 1.08
(feet) (°C) (97 - 97 - 97 - 97 - 97 - 97 - 97 - 97	(mS/cm) (NTU) (mg/L) (g/L) (G
(feet) (°C) (97-10 16 53 12-52 6-97-09:15 16 55 12-56 6-57-09:25 16 55 12-21 7:08 6-58 12-21 7:08 6-58 12-28 7:17 69:35 16-55 12-28 7:17 69:40 16 55 12-29 7:19 7:19 6-58 12-2	(mV) (mS/cm) (NTU) (mg/L) (g/L) (GC) 1.04 147 0.00 0.667 (GG) 1.10 941 0.00 0.717 (GF) 1.10 9
(feet)	(NTU) (mg/L) (g/L) (mS/cm) (NTU) (mg/L) (g/L) (mS/cm) (NTU) (mg/L) (g/L) (mS/cm) (NTU) (mg/L) (g/L) (mS/cm) (NTU) (mg/L) (g/L) (ng/L) (ng/L) (ng/L) (ng/L) (ng/L) (ng/L) (ng/L) (ng/L) (ng/L) (ng/L) (ng/L) (ng/L) (ng/L) (ng/L) (ng/L) (ng/L) (ng/L) (ng/L) (ng/L) (ng/L) (ng/L) (ng/L) (ng/L) (ng/L) (ng/L) (ng/L) (ng/L) (ng/L) (ng/L) (ng/L) (ng/L) (ng/L) (ng
(feet) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C	Mo Mo Mo Mo Mo Mo Mo Mo
(feet)	(NTU) (mg/L) (g/L) (mS/cm) (NTU) (mg/L) (g/L) (mS/cm) (NTU) (mg/L) (g/L) (mS/cm) (NTU) (mg/L) (g/L) (mS/cm) (NTU) (mg/L) (g/L) (ng/L) (ng/L) (ng/L) (ng/L) (ng/L) (ng/L) (ng/L) (ng/L) (ng/L) (ng/L) (ng/L) (ng/L) (ng/L) (ng/L) (ng/L) (ng/L) (ng/L) (ng/L) (ng/L) (ng/L) (ng/L) (ng/L) (ng/L) (ng/L) (ng/L) (ng/L) (ng/L) (ng/L) (ng/L) (ng/L) (ng/L) (ng/L) (ng
(feet) (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C	MV (mS/cm)

Sampling Personnel:	Date: 10 24 19
Job Number: 06-03040-133570-221	Weather: Sum 36
Well Id. MW-07	Time In: 10.00 Time Out: 10.50
Well Information TOC	Other Well Type: Flushmount Stick-Up
Depth to Water: (feet) 7-23	Other Well Type: Flushmount Stick-Up Well Locked: Yes No
Depth to Bottom: (feet) 16.87	Measuring Point Marked: Yes No
Depth to Product: (feet)	Well Material: PVC SS Other:
Length of Water Column: (feet) 9.64	Well Diameter: 1" 2" Other:
Volume of Water in Well: (gal) 1.54	Comments:
Three Well Volumes: (gal) 4.62	
Purging Information	
T draing information	Conversion Factors
Purging Method: Bailer Perista	
Tubing/Bailer Material: Teflon Stainless	
Sampling Method: Bailer Perista	Altic Grundfos Pump water 0.04 0.16 0.66 1.47
Average Pumping Rate: (ml/min) 2.00	1 gallon=3.785L=3785mL=1337cu. feet
Duration of Pumping: (min) 30	
Total Volume Removed: (gal) 2	Did well go dry? Yes No
Horiba U-52 Water Quality Meter Used?	es No
Time DTW Temp pH	ORP Conductivity Turbidity DO TDS
(feet) (°C)	ORP Conductivity Turbidity DO TDS (mV) (mS/cm) (NTU) (mg/L) (g/L)
10:10 815 1237 7.43	6 1.40 431 0-00 0.384
1015 9.19 12,93 6.78	13 1.10 184 6.00 0.703
10:20 9:35 13.24 1. 109	-16 1.08 50.1 M.00 0.690
10:25 9.40 13:36 6.60	-32 1.08 58.4 0.00 0.68
10:30 9.40 13.49 10.64	-35 1.09 20.0 0.00 0.695
10:35 9.40 13.46 6.69	-41 1.10 153 0.00 0.705
10:40 9.40 1347 6.69	-39 1.11 210 0.00 0.710
70	
Sampling Information:	
EPA SW-846 Method 8270 SVOC PAH's	2 - 1 liter ambers Yes No
EPA SW-846 Method 8260 VOC's BTEX	
EPA SW-846 Method 9012 Total Cyanide	3 - 40 ml vials Yes No No 1 - 250 ml plastic Yes No
Sample ID: MW-07-1019 Duplicate?	Vos No Shionada Basa Gaurian Bislam
Sample ID: MW-07-1019 Duplicate? Sample Time: MS/MSD?	Yes No Shipped: Pace Courier Pickup Yes No Drop-off Albany Service Center
Comments/Notes:	Laboratory: Pace Analytical Greensburg, PA

Sampling Personnel:	Date: [6[24]9
Job Number: 06-03040-133570-221	Weather:
Well ld. MW-08R	Time In: //35
Well Information	
TOC Other	Well Type: Flushmount Stick-Up
Depth to Water: (feet)	Well Locked: Yes No
Depth to Bottom: (feet) 20.20	Measuring Point Marked: Yes No
Depth to Product: (feet) Length of Water Column: (feet) / D 7 4	Well Material: PVC SS Other:
Volume of Water in Well: (gal) (7 (feet)	Well Diameter: 1" 2" Other:
Three Well Volumes: (gal) 5.75	Comments.
Purging Information	
	Conversion Factors
Purging Method: Bailer Peristaltic Grundfos	gai/it.
	thylene of
Sampling Method: Bailer Peristaltic Grundfos (ml/min)	
Average Pumping Rate: (ml/min) 30	1 gallon=3.785L=3785mL=1337cu. feet
Total Volume Removed: (gal) Did well go dry?	Yes No No
	res
Horiba U-52 Water Quality Meter Used? Yes No	
Time DTW Temp pH ORP (Constituted Tombidity DO The
(feet) (°C) (mV)	Conductivity Turbidity DO TDS (mS/cm) (NTU) (mg/L) (g/L)
11:33 9:60 16:00 7.20 -64	1-45 134 D-00 0.230
12:00 9.90 15.60 6.79 -73	1.45 93.1 0.00 0.927
12:05 10.08 15.56 6.79 -74 1	196 180 0.00 0.933
12:10 10-44 15:45 10-78 -75	1.42 54.3 0.00 0.910
16:15 10.60 15.50 6.79 -77 1	·41 76.8 b.w 0.83
16:20 11.16 15.47 6.78 -78 1	.41 105 0.00 0.902
12:25 12.03 15.24 6.50 -92 1	.41 St.4 0.00 0-900
Sampling Information:	. 33
EPA SW-846 Method 8270 SVOC PAH's	2 4 liter ambara Van Na
EPA SW-646 Method 8260 VOC's BTEX	2 - 1 liter ambers Yes No
EPA SW-846 Method 9012 Total Cyanide	3 - 40 ml vials Yes No
Sample ID: MW-08R-1019 Duplicate? Yes No	Shipped: Pace Courier Pickup
Sample Time: MS/MSD? YesNo X	Drop-off Albany Service Center
Comments/Notes:	Laboratory: Pace Analytical
	Greensburg, PA

Sampling Personnel:	Date: /0/24/9
Job Number: 06-03040-133570-221	Weather: Cosy 550
Well Id. MW-13	Time In: 12.35 Time Out:
Well Information TOC Other	Well Type: Flushmount Stick-Up
Depth to Water: (feet) 5.52	Well Locked: Yes No
Depth to Bottom: (feet) 23.87	Measuring Point Marked: Yes No
Depth to Product: (feet) Length of Water Column: (feet) / 9 3	Well Material: PVC SS Other:
Length of Water Column: (feet) / 0 3 Volume of Water in Well: (gal) 2 9 2	Comments:
Three Well Volumes: (gal) 7-79	Comments.
177700 1777	
Purging Information	
Purging information	Conversion Factors
Purging Method: Bailer Peristaltic Grun	gal/ft. 1" ID 2" ID 4" ID 6" ID
	olyethylene of
	water 0.04 0.16 0.66 1.47
Average Pumping Rate: (ml/min)	1 gallon=3.785L=3785mL=1337cu. feet
Duration of Pumping: (min)	
Total Volume Removed: (gal) Did well go dry	/? Yes No
Horiba U-52 Water Quality Meter Used?	
, K_N	
Time DTW Temp pH ORP	Conductivity Turbidity DO TDS
(feet) (°C) (mV)	(mS/cm) (NTU) (mg/L) (g/L)
12:40 5.82 16.04 6.84 -75	1151 55.5 17-00 13.967
1245 5.62 1850 6.99 -78	1.59 51.6 0.00 1.02
12:50 3.02 14.87 7.05 -46	1.64 37.1 0.00 1.05
12:55 5.82 14.89 7.13 -38	1-66 30.4 0.00 1.06
12:00 5.82 14.50 7.14 -21	1.67 29.5 0.00 1.07
13:01 5.02 14.46 7.14 -11	1.67 28.1 0.00 1.07
13:10 5.02 14.43 +.14 -1	1.67 26.9 0-00 1.67
	
	+ + -
	<u> </u>
Sampling Information:	
EPA SW-846 Method 8270 SVOC PAH's	2. 4 liter embers
EPA SW-846 Method 8270 SVOC PAH's EPA SW-846 Method 8260 VOC's BTEX	2 - 1 liter ambers Yes No
	3 - 40 ml vials Yes No
EPA SW-846 Method 9012 Total Cyanide	1 - 250 ml plastic Yes No
Sample ID: MW-13-1019 Duplicate? Yes No	Shipped: Pace Courier Pickup
Sample Time: MS/MSD? Yes No >	Drop-off Albany Service Center
Comments/Notes:	Laboratory: Pace Analytical
	Greensburg, PA



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

Processor Processor Program Processor Proces	Section A		Section B				Section (2																	Page	. 1	of 4	
Additional of Team-red Program Status			- 7																						rage	- 1	31 1	
Company Name Comp			dshay@gesonline	e.com			Attention:	Accounts Pa	ayable via er	nail at ges-inv	oices@g	esonline.c	om									RE	GUL	ATORY	Y AGEN	ICY		
Additives Technology Piece, Silve Cast Springura, NY 1305 Present Standard Cast Springura, NY 1305 Present Standard Present Standa	****				5)		Company I	lame: Grou	ındwater & E	nvironmental	Services,	Inc.					\neg	☐ NE	PDES	Г	ROU					DATE NO.		
Prof. Biol 200 Street Robots	35						Address: 5	Technology	/ Place, Suite	e 4, East Syrac	cuse, NY	13057					\dashv	Γυ	ST									
Pace Process Name Pace P	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Purchase Order N	No.:			Pace Quot								\dashv													
Section D Required Client Information SAMPLE ID One Character per loc. Samples ID MUST EL MIGUE Semi-Annual GWS Presonative per loc. Semi-Annual GWS Required (YM) Presonative per loc. Samples ID MUST EL MIGUE Semi-Annual GWS Semi-Annual GWS Required (YM) Samples ID MUST EL MIGUE Semi-Annual GWS Semi-Annual GWS Required (YM) Semi-Annual GWS Semi-Ann	x4051		Project Name: Na East Sreet, Ilion N	ational Grid - Ili VY	on		Pace Project Manager: Rachel Christner														Гн							
Section D Required Clear Information Section D	Requested Due Date/TAT: Standard)-221-1106			Pace Profil	e#:		Semi-A	nnual	GWS					\dashv				NE YE			77	77	777	777	
MW-02R-1019	SAMPLE ID One Character per bo. (A-Z, 0-9 / ,-)		MATRIX CI	Disk H E H M	MATRIX CODE	TYPE G+GRAB	COMPOSITE \$1		DECTED ORAN		AMPLE TEMP AT COLLECTION			Pre	eservat	ives		_	s:		//							
MW-03-1019 WT G MW-06-MS-1019 WT G MW-08-MS-1019 WT G		N-02R-10					DATE	TIME			° ·		-	1		Na ₂ S ₂ O ₃	Methanol		_{	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			//		//	,	Pace Project Number Lab I.D.	
MW-06-1019	13(chi)					1			10/24		-	7	2	1	3 1	\mathbb{H}	4	-	_			-		1	_			
4 MW-06-MS-1019 WT 6 O7-74 7 2 1 3 1 3 1 3 2 1 1 1 3 2 1 1 1 1 3 2 1 1 1 1												7	2	1	3 1	\perp	-	_		3 2	1	+						
MW-06-MSD-1019				***					-	1 . / .		7	2	1	3 1			_	_	3 2	1	1		11.				
MW-07-1019		and a remaining to							+	11.1.	-	7	2	1	3 1	\perp	4	_		3 2	1							
MW-08R-1019												7	2	1	3 1	\perp			3	3 2	1							
8					WT	G			\vdash		,	7	2	1	3 1					3 2	1							
9 FD-1019 WT G 10 Trip Blanks WT G 11 3 1 3 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	RAISE -				WT	G						7	2	1	3 1					3 2	1							
9 FD-1019 10 Trip Blanks WT G	8 <u>M</u>	W-13-101	9		WT	G				13:10		7	2	1	3 1					3 2	1							
Trip Blanks WT G 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	9	FD-1019			WT	G						7	2	1	3 1							П		\Box	1			
Additional Comments: # COOLERS. RELINQUISHED BY / AFFILIATION DATE TIME SAMPLE CONDITIONS SAMPLES WILL ARRIVE IN DATE TIME SAMPLE CONDITIONS	11 12	rip Blanks	<u>;</u>		WT	G			W			3			3													
SAMPLES WILL ARRIVE IN COOLERS. SAMPLE CONDITIONS DATE TIME SAMPLE CONDITIONS	Additional Comments		000:5		REL	MOU	SHED BY L	VEER IATIO		DATE																		
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	711													
Sampling Pe	rsonnel: 3H				Date: 05/									
Job Number:	0603123-	133570-221			Weather: 45° F, sunny									
Well Id.	MW-02R	(#)			Time In:	1040-1130	Time Ou	t: 1215						
Well In	formation	_												
l			TOC	Other	Well Type		ushmount	Stick-Up						
Depth to Wa			5.91-12-12		Well Lock	30.0000	Yes	No						
Depth to Bot		(feet)	18.30 NP			Point Marked:	Yes	No						
Depth to Pro		(feet)			Well Mate			ther:						
Length of Wa			.43	.18	Well Diam Comments	•	" <u> </u>	ther:						
Three Well V		(gal)	2.79		Comments	o.								
THICE VVCII V	oldines.	(gai)	2. +1		-									
Purging	Information													
		-					Conversion	Factors						
Purging Meth	iod:	Bailer	Peristaltic	Grund	fos Pump	gal/ft.	1" ID 2" ID	7						
Tubing/Bailer	Material:	Teflon	Stainless St.	Pol	yethylene	of								
Sampling Me	1	Bailer	Peristaltic	Grund	fos Pump	water	0.04 0.16	0.66 1.47						
Average Pum	nping Rate: 🍹					1 ga	llon=3.785L=3785	mL=1337cu. feet						
Duration of P		(min)												
Total Volume	Removed:	て (gal)		id well go dry?	Yes No	\bowtie								
Horiba U-52 \	Water Quality N	/leter Used?	Yes	No	,									
L														
Time	DTW	Temp	рН	ORP	Conductivity	Turbidity	DO	TDS						
	(feet)	(°C)		(mV)	(mS/cm)	(NTU)	(mg/L)	(g/L)						
115 7095	17.18													
11354050	17.51	23,91	7.97	~178	0.869	850	0.42	0.612						
1140 1455	12.47	24.17	7.94	-173	0.857	802	0.30	0.547						
		3. 45 359 23771 23 1.5												
1145 400	17.52	21.89	7.85	-149	0.858	488	0.22	0,549						
1145 3400	12.52	21.89 21.74	7.85	-145	0.847	212	0.21	0.547						
1145 HOE 1150 HOS 1155 HO	12.52	21.89 21.74 21.61	7.85	-145	0.847	212	0.21	0.547						
1145 HOE 1150 HOS 1155 HO 1200	12.52 12.61 12.70 12.70	21.89 21.74 21.61 21.33	7.85 7.82 7.80 7.80	-145 -141 -143	0.847	212	0.21	0,547 0,536 0,536						
1145 HOE 1150 HOS 1155 HO	12.52	21.89 21.74 21.61	7.85	-145	0.847	212	0.21	0.547						
1145 HOE 1150 HOS 1155 HO 1200	12.52 12.61 12.70 12.70	21.89 21.74 21.61 21.33	7.85 7.82 7.80 7.80	-145 -141 -143	0.847	212	0.21	0,547 0,536 0,536						
1145 HOE 1150 HOS 1155 HO 1200	12.52 12.61 12.70 12.70	21.89 21.74 21.61 21.33	7.85 7.82 7.80 7.80	-145 -141 -143	0.847	212	0.21	0,547 0,536 0,536						
1145 HOE 1150 HOS 1155 HO 1200	12.52 12.61 12.70 12.70	21.89 21.74 21.61 21.33	7.85 7.82 7.80 7.80	-145 -141 -143	0.847	212	0.21	0,547 0,536 0,536						
1150 2405 1150 2405 1155 2410 1200 1205	12.52 12.61 12.70 12.74 12.77	21.89 21.74 21.61 21.33	7.85 7.82 7.80 7.80	-145 -141 -143	0.847	212	0.21	0,547 0,536 0,536						
1145 HOE 1150 HOS 1155 HO 1200	12.52 12.61 12.70 12.74 12.77	21.89 21.74 21.61 21.33	7.85 7.82 7.80 7.80	-145 -141 -143	0.847	212	0.21	0,547 0,536 0,536						
1150 2405 1150 2405 1155 2410 1200 1200 1205	12.52 12.61 12.70 12.74 12.77	21.89 21.74 21.61 21.33 71.40	7.85 7.82 7.80 7.80	-145 -141 -143	0.847	212 169 121 94.3	0.70 0.14 0.12	0,549 0.542 0.536 0.528 0.530						
1150 2405 1150 2405 1155 2410 1200 1205 Sampling Int	12.52 12.61 12.70 12.74 12.77	21.89 21.74 21.61 21.33	7.85 7.82 7.80 7.80 7.80	-145 -141 -143	0.847	212 169 121 94.3	0. Z0 0. 14 0. 12	0,549 0.542 0.536 0.528 0.530						
1150 3405 1150 3405 1155 3410 1200 1205 Sampling Int	12.52 12.61 12.70 12.74 12.77	21.89 21.74 21.33 21.40 SVOC P	7.85 7.82 7.80 7.80 7.80	-145 -141 -143	0.847	212 169 121 94.3 4-1 liter ambe 6-40 ml vial	O. ZO O. 14 O. 12 ers Yes	0,549 0,536 0,536 0,530						
1150 3405 1150 3405 1155 3410 1200 1205 Sampling Int	17.52 12.70 12.70 12.77 12.77 formation:	21.89 21.74 21.61 21.33 71.40	7.85 7.82 7.80 7.80 7.80	-145 -141 -143	0.847	212 169 121 94.3	O. ZO O. 14 O. 12 ers Yes	0,549 0,536 0,536 0,530						
1150 3405 1150 3405 1155 3410 1200 1205 Sampling Int	17.52 12.70 12.70 12.77 12.77 formation:	21.89 21.74 21.33 71.40 SVOC P VOC's B Total Cya	7.85 7.82 7.80 7.80 7.80	-145 -141 -143	0.847 0.838 0.829	212 169 121 9H.3 4-1 liter ambe 6-40 ml vial 2-250 ml plas	O. ZO O. 14 O. 12 ers Yes	0,547 0,547 0,536 0,528 0,530						
Sampling Int EPA SW-8 EPA SW-8 EPA SW-8	17.52 12.61 12.70 12.74 12.77 12.77 6 Method 8270 46 Method 8260 46 Method 9012 MW-02R-0	21.39 21.34 21.33 71.40 SVOC P VOC's B Total Cya FD-0520 520 Dup	7.85 7.82 7.80 7.80 7.80 7.80	-145 -141 -143 -142	0.847 0.838 0.829	212 169 121 94.3 4-1 liter ambe 6-40 ml vial 2-250 ml plas ipped: Pa	o. Zo o. 14 o. 12 ers Yes s Yes tic Yes	0,549 0,547 0,536 0,528 0,530						

G-1000 - 1000 - 1000			and the same of th			and the same of th									
Sampling Pe	rsonnel: B	lt		Date: 05/27/20											
Job Number:	0603123-	133570-221			Weather: 82°F, sunny										
Well Id.	MW-03				Time In: 0950 Time Out: 1030										
					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,										
Well In	formation														
D 11 1 10/1			TOC	Other	Well Type		shmount	Stick-Up							
Depth to Wat		(feet)	5.98 27.25		Well Locked: Yes No Measuring Point Marked: Yes No										
Depth to Pro			R21.35	Measuring Point Marked: Yes No No Well Material: PVC SS Other:											
Length of Wa			21.35	Well Diam			Other:								
Volume of W	ater in Well:	The second secon	3.416		Comments	s:									
Three Well V	olumes:		10.25												
L							200								
Purging I	Information	-					Conversis	Easters							
Purging Meth	ioq.	Baile	er Peristaltio	Grund	lfos Pump		Conversion 1" ID 2" IE								
Tubing/Bailer		Teflo			yethylene	gal/ft.	1 10 2 1	7 10 0 10							
Sampling Me		Baile			fos Pump	water	0.04 0.16	6 0.66 1.47							
	ping Rate: 20		T CHOIGH	orana		 	-	5mL=1337cu. feet							
Duration of P								51112 1007 Gd. 1001							
Total Volume				Did well go dry?	Yes No	M									
					100140										
Horiba U-52 V	Water Quality N	/leter Used?	Yes	No No											
Time	DTW	Tomn	T	ORP	Conductivity	Turbidity	T DO	TDS							
Time	(feet)	Temp (°C)	pH	(mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	(g/L)							
north			7.93												
ロ 095フ	5.93	749. 2164	4.75	1- DZ	0.940	459	1.64	0 605							
1000	5.93	24.10	8,03	-82	0.940	217	0.83	0.638							
		24.14 24.10 23.71		-52 -74 -55	0.940	459 217 186		0.638							
1000	5.93	24.10	8.03	~ 74	0.991	217	0.83	0.638							
1000 1005 1010	5.93 5.94 5.93	24.10	8.03 8.10 8.06 8.07	- 74 - 55 -40 - 35	0.991	217 186 94.0 72.3	0.83	0.638 0.663 0.586 0.561							
1000 1005 1010 1015	5.93 5.93 5.93 5.93	24.10 23.71 24.03 24.12 24.16	8.03 8.10 8.06 8.07 8.07	- 74 -55 -40 -35	0.991	217 186 94.0 72.3 64.2	0.83	0.638 0.663 0.5% 0.561 0.557							
1000 1005 1010	5.93 5.94 5.93	24.10 23.71 24.03 24.12	8.03 8.10 8.06 8.07	- 74 - 55 -40 - 35	0.991	217 186 94.0 72.3	0.83	0.638 0.663 0.586 0.561							
1000 1005 1010 1015	5.93 5.93 5.93 5.93	24.10 23.71 24.03 24.12 24.16	8.03 8.10 8.06 8.07 8.07	- 74 -55 -40 -35	0.991	217 186 94.0 72.3 64.2	0.83	0.638 0.663 0.5% 0.561 0.557							
1000 1005 1010 1015	5.93 5.93 5.93 5.93	24.10 23.71 24.03 24.12 24.16	8.03 8.10 8.06 8.07 8.07	- 74 -55 -40 -35	0.991	217 186 94.0 72.3 64.2	0.83	0.638 0.663 0.5% 0.561 0.557							
1000 1005 1010 1015	5.93 5.93 5.93 5.93	24.10 23.71 24.03 24.12 24.16	8.03 8.10 8.06 8.07 8.07	- 74 -55 -40 -35	0.991	217 186 94.0 72.3 64.2	0.83	0.638 0.663 0.5% 0.561 0.557							
1000 1005 1010 1015	5.93 5.93 5.93 5.93	24.10 23.71 24.03 24.12 24.16	8.03 8.10 8.06 8.07 8.07	- 74 -55 -40 -35	0.991	217 186 94.0 72.3 64.2	0.83	0.638 0.663 0.5% 0.561 0.557							
1000 1005 1010 1015 1020	5.93 5.93 5.93 5.93 5.93	24.10 23.71 24.03 24.12 24.16	8.03 8.10 8.06 8.07 8.07	- 74 -55 -40 -35	0.991	217 186 94.0 72.3 64.2	0.83	0.638 0.663 0.5% 0.561 0.557							
1000 1005 1010 1015	5.93 5.93 5.93 5.93 5.93	24.10 23.71 24.03 24.12 24.16	8.03 8.10 8.06 8.07 8.07	- 74 -55 -40 -35	0.991	217 186 94.0 72.3 64.2	0.83	0.638 0.663 0.5% 0.561 0.557							
1000 1005 1010 1015 1020 1025	5.93 5.93 5.93 5.93 5.93	24.10 23.71 24.03 24.12 24.16	8.03 8.10 8.06 8.07 8.07 8.07	- 74 -55 -40 -35	0.991	217 186 94.0 72.3 64.2	0.83 0.12 0.01 0.01 0.00	0.638 0.663 0.586 0.561 0.557 0.555							
Sampling Inf	5,93 5,93 5,93 5,93 5,93	24.10 23.71 24.03 24.12 24.16 24.19	8.03 8.10 8.06 8.07 8.07 8.07	- 74 -55 -40 -35	0.991	217 186 94.0 72.3 64.2 56.7	0.83 0.12 0.01 0.01 0.00	0.638 0.663 0.586 0.561 0.557 0.555							
Sampling Inf	5,93 5,93 5,93 5,93 5,93 6ormation:	24.10 23.71 24.03 24.12 24.16 24.19	8.03 8.10 8.06 8.07 8.07 8.07	- 74 -55 -40 -35	0.991	217 136 94.0 72.3 64.2 56.7	0.83 0.12 0.03 0.01 0.00 0.00	0.638 0.663 0.586 0.561 0.555 0.555							
Sampling Inf	5,93 5,93 5,93 5,93 5,93 5,93 6 Method 8270 46 Method 8260	24.10 23.71 24.03 24.12 24.16 24.19 SVOC I	8.03 8.10 8.06 8.07 8.07 8.07	- 74 -55 -40 -35	0.991	217 136 94.0 72.3 64.2 56.7	0.83 0.12 0.03 0.01 0.00 0.00	0.638 0.663 0.586 0.561 0.557 0.555							
Sampling Inf	5,43 5,43 5,43 5,43 5,43 5,43 5,43 6 Method 8270 46 Method 8260 46 Method 9012	24.10 23.71 24.05 24.12 24.16 24.19 SVOC I VOC's Total Cy	8.03 8.10 8.06 8.07 8.07 8.07 8.07	- 74 -55 -40 -35	0.991	217 186 94.0 72.3 64.2 56.7 2-1 liter ambe 3-40 ml vial 1-250 ml plas	0.83 0.12 0.03 0.01 0.00 0.00	0.638 0.586 0.586 0.557 0.555 0.555							
Sampling Inf EPA SW-84 EPA SW-84	5,93 5,93 5,93 5,93 5,93 5,93 6ormation: 46 Method 8270 46 Method 8260 46 Method 9012	24.10 23.71 24.05 24.12 24.16 24.19 SVOC I VOC's Total Cy	8.03 8.10 8.06 8.07 8.07 8.07 8.07	- 74 - 55 -40 - 35 - 31 - 29	0.991	217 186 94.0 72.3 64.2 56.7 2-1 liter ambe 3-40 ml vial 1-250 ml plas ipped: Pa	o.83 o.12 o.03 o.01 o.01 o.00	0.638 0.663 0.586 0.561 0.557 0.555 No s No s No							
Sampling Inf EPA SW-84 EPA SW-8- EPA SW-8- Sample ID:	5,93 5,93 5,93 5,93 5,93 5,93 5,93 60 Method 8270 46 Method 8260 46 Method 9012 MW-03-05	24.10 23.71 24.05 24.12 24.16 24.19 SVOC I VOC's Total Cy	8.03 8.10 8.06 8.07 8.07 8.07 8.07	- 74 - 55 - 40 - 35 - 31 - 29	0.991 1.04 0.916 0.877 0.870 0.863	217 186 94.0 72.3 64.2 56.7 2-1 liter ambe 3-40 ml vial 1-250 ml plas ipped: Pa	ers Yestic Yestic Courier Pic	0.638 0.586 0.586 0.553 0.555 0.555 0.555 0.555 0.561 0.555 0.555							



O I' D-	. 701		The same of the sa			4 4 7 7		2.							
	ersonnel: BH				Date: 05/27/20										
Job Number:		133570-221			Weather:	85°£,5									
Well Id.	MW-06				Time In: 1220 Time Out: 1310										
Well In	formation	_	T00	0.11	147 H T										
Depth to Wa	tor:	(foot)	16.96	Other	Well Type		ushmount	Stick-Up							
Depth to Bot		(feet)	28.60	Well Locked: Yes No Measuring Point Marked: Yes No											
Depth to Pro			Well Material: PVC SS Other:												
Length of Wa			1.64		Well Diameter: 1" 2" Other:										
Volume of W	ater in Well:		.86		Comments		1								
Three Well V	olumes:	(gal)	5.58				N								
					-										
Purging I	nformation	-													
Purging Meth	od: •	Bailer	Peristalti			_	Conversion								
Tubing/Bailer		Teflon			lfos Pump lyethylene	gal/ft.	1" ID 2" II	0 4" ID 6" ID							
Sampling Me		Bailer			ifos Pump	of water	0.04 0.16	6 0.66 1.47							
Average Pum		(ml/min)		, S.				5mL=1337cu. feet							
Duration of P		(min)		*											
Total Volume	Removed:	Z (gal)		Did well go dry?	Yes No	X									
Horiba U-52 V	Water Quality M	Meter Used?	Yes	No No											
		de	3-1-1-1			100									
Time	DTW	Temp	рН	ORP	Conductivity	Turbidity	DO	TDS							
	(feet)	(°C)		(mV)	(mS/cm)	(NTU)	(mg/L)	(g/L)							
1225	17.08	22.72	7.96	~1'24	1.25	603	2.12	0.8iz							
1230	17.09	20.91	8.02	-110	1.36	201	1.03	0.876							
1735	17.07	18.03	9.0€	-93	1.46	5.7	0.01	0.950							
1240	17.07	17.11	5.05	-34	1.55	7.0	0.00	0.961							
1250	17.06	17.27	8.06	-60	1.54	1.2	0.00	0.992							
1255	17.06	17.21	8.04	-61	1.54	1.1	0.00	0,997							
	The state of the s	,			9										
								Ŋ							
							*								
					- Annie		THE STATE OF THE S								
Sampling Inf	ormation:							1							
P. D															
	16 Method 8270	SVOC P	1001100100			6 - 1 liter ambe									
	46 Method 8260	VOC's B				9 - 40 ml vial	21 22.0 2. 0								
ELW 200-04	46 Method 9012	Total Cya	iiiue			3 - 250 ml plas	tic Yes	S No L							
Sample ID:	MW-06-05	20 Dur	licate?	Yes No X	Shi	pped: Pa	ace Courier Pick	un 🖂 📗							
Sample Time:	1255			Yes No	3111	500	f Albany Service	. (
Comments/No						_aboratory:	Pace An								
					II '	Laboratory.	race An	arytical							

		1						
Sampling Pe	ersonnel:	34			Date: ೮5	5/27/20		
Job Number	0603123-	133570-221			Weather:	Sunny, 5	78°F	
Well Id.	MW-07				Time In:	0900	Time Ou	t: 0940
Well In	formation	_						
	No.	γ	TOC	Other	Well Type	: Flu	ıshmount	Stick-Up
Depth to Wa		(feet)	3.31		Well Lock		Yes	No
Depth to Bot	Mi-	(feet)	16.87		4 0	Point Marked:	Yes	No
Depth to Pro		(feet)	94		Well Mate			ther:
Length of Wa			8.66		Well Diam		" <u> </u>	ther:
Volume of W			.385		Comments	s:		
Three Well V	olumes:	(gal)	1.15					
L		- was						
Purging	Information					Г		
Dunning Math							Conversion	
Purging Meth		Baile	-		fos Pump	gal/ft.	1" ID 2" ID	4" ID 6" ID
Tubing/Bailer		Teflor			yethylene	of	004 046	0 00 4 47
Sampling Me		Bailer	Peristaltic	Grund	fos Pump	water	0.04 0.16	
	ping Rate: 20					1 gal	lon=3.785L=3785	imL=1337cu. feet
Duration of P		(min) 2 (qal)		\: O	v 🗀			
Total Volume		(5 /1		oid well go dry?	YesNo	\mathbb{X}		
Horiba U-52 \	Water Quality N	Meter Used?	Yes	No 🗌				
à								
Time	DTW	Temp	рН	ORP	Conductivity	Turbidity	DO	TDS
	(feet)	(°C)		(mV)	(mS/cm)	(NTU)	(mg/L)	(g/L)
0905	8.68	23.41	7.83	~ 155	0.678	421	0.36	0,430
0910	9.18	21.54	7.80	-140	0.631	355	0.42	0,401
0915	9.31	19:78	7.73	-132	0.655	311	0.24	0.399
0920	9.39	19.68	7.68	-1.58	0.646	311	0.24	0.413
09.25	9.40	18.67	7.69	-129	0.731	287	0.13	0.469
0930	9.34	18.60	7.69	-129	0.781	277	0.16	0.500
0935	9.40	17.52	7.70	~135	5. ht.	254	0.01	0.476
								ļII
Ш								
		-266						
Sampling Int	ormation:							
EPA SW-84	46 Method 8270	SVOC P	'AH's			2 - 1 liter ambe	ers Yes	No No
EPA SW-8	46 Method 8260	VOC's B	STEX			3 - 40 ml vials	s Yes	No No
EPA SW-8	46 Method 9012	Total Cya	anide			1 - 250 ml plas	tic Yes	No No
Comple ID:	BANA 07 05	20 5	dianta O .	/	611			
Sample ID:	MW-07-05			Yes No	Shi	1000	ace Courier Pick	
Sample Time:	0935	MS	/MSD?	∕esNo ∑		Drop-of	f Albany Service	e Center
Comments/No	otes:					Laboratory:	Pace Ana	alytical

	0.11			The state of the s				and the second							
Sampling Pe	rsonnel: BH				Date: 05/27120										
Job Number:	0603123-1	133570-221			Weather:	Weather: 80°F, snamy									
Well Id.	MW-08R				Time In:	1040	Time Out	t: 1120							
							_								
Well In	formation	_													
			TOC	Other	Well Type	: Flu	shmount	Stick-Up							
Depth to Wa	ter:	(feet)	9:91		Well Lock	ed:	Yes	No							
Depth to Bott	The state of the s	(feet)	20.20		Measuring	Point Marked:	Yes	No							
Depth to Pro	ta.	(feet)	NP	Well Material: PVC SS Other:											
Length of Wa		(feet)	11.29	Well Diam	eter: 1	" <u> </u>	ther:								
Volume of W		(gal)	1.81		Comments	S:									
Three Well V	olumes:	(gal)	5,42												
		919 - 110													
Purging	Information														
Division Matte							Conversion								
Purging Meth		Baile	\vdash		fos Pump	gal/ft.	1" ID 2" ID	4" ID 6" ID							
Tubing/Bailer Sampling Me		Teflo		k 7	lyethylene	of	0.04 0.16	0.66							
	nping Rate: 7c	Baile (ml/min)	Peristaltic	Grund	lfos Pump	water									
Duration of P						1 gai	lon=3.785L=3785	mL=1337cu. feet							
Total Volume				Did well go dry?	Vos No	V									
	The second secon	(94./)		//	Yes No	Ι'ΣΚΙ									
Horiba U-52 \	Water Quality M	leter Used?	Yes	No No											
							2000								
11			T				,								
Time	DTW	Temp	рН	ORP	Conductivity	Turbidity	, DO	TDS							
	(feet)	(°C)		(mV)	(mS/cm)	(NTU)	(mg/L)	(g/L)							
1045	(feet)	(°C) 71.39	7.91	(mV) -41	(mS/cm)	(NTU) 71.3	(mg/L)	(g/L)							
1045	(feet) 2, 9,98	(°C) 21.39 20.96	7.91	(mV) -41	(mS/cm) 1.03	(NTU) 71.3 55.2	(mg/L) 3.10 2.09	(g/L) 0.752 0.707							
1045 1050 1055	(feet) 10-31 10-34	(°C) 21.39 20.96 18.89	7.91	(mV) -41 -46 -54	(mS/cm) 1.03 1.10	(NTU) 71.3 58.2 16.5	(mg/L) 3.10 2.09 0.30	(g/L) 0.752 0.707 0.727							
1075 1050 1055 1100	(feet) 10.34 10.35	(°C) 21.39 20.96 18.89	7.91 7.73 7.63 7.55	(mV) -41 -46 -54 -58	(mS/cm) 1.03 1.10 1.14 1.18	(NTU) 71.3 58.2 16.5	(mg/L) 3.10 2.09 0.30	(g/L) 0.7 5 2 0.707 0.727 0.758							
1045 1050 1055 1100 1105	(feet) 10.31 10.34 10.35 10.40	(°C) 21.39 20.96 18.89 18.10 18.08	7.91 7.73 7.63 7.55 7.53	(mV) -41 -46 -54 -58	(mS/cm) 1.03 1.10 1.14 1.18	(NTU) 71.3 58.2 16.5 12.7	(mg/L) 3.10 2.09 0.30 0.16	(g/L) 0.752 0.707 0.727 0.758 0.762							
1045 1050 1055' 1100 1105	(feet) 10.731 10.734 10.735 10.40 10.43	(°C) 21.39 20.96 18.89 18.10 18.08 18.31	7.91 7.73 7.63 7.55 7.53 7.54	(mV) -41 -46 -54 -58 -60	(mS/cm) 1.03 1.10 1.14 1.18 1.21	(NTU) 71.3 58.2 16.5 12.7 10.3	(mg/L) 3.10 2.09 0.30 0.16 0.11	(g/L) 0.752 0.707 0.727 0.758 0.762 0.760							
1045 1050 1055 1100 1105	(feet) 10.31 10.34 10.35 10.40	(°C) 21.39 20.96 18.89 18.10 18.08	7.91 7.73 7.63 7.55 7.53	(mV) -41 -46 -54 -58	(mS/cm) 1.03 1.10 1.14 1.18	(NTU) 71.3 58.2 16.5 12.7	(mg/L) 3.10 2.09 0.30 0.16	(g/L) 0.752 0.707 0.727 0.758 0.762							
1045 1050 1055 1100 1105	(feet) 10.731 10.734 10.735 10.40 10.43	(°C) 21.39 20.96 18.89 18.10 18.08 18.31	7.91 7.73 7.63 7.55 7.53 7.54	(mV) -41 -46 -54 -58 -60	(mS/cm) 1.03 1.10 1.14 1.18 1.21	(NTU) 71.3 58.2 16.5 12.7 10.3	(mg/L) 3.10 2.09 0.30 0.16 0.11	(g/L) 0.752 0.707 0.727 0.758 0.762 0.760							
1045 1050 1055' 1100 1105	(feet) 10.731 10.734 10.735 10.40 10.43	(°C) 21.39 20.96 18.89 18.10 18.08 18.31	7.91 7.73 7.63 7.55 7.53 7.54	(mV) -41 -46 -54 -58 -60	(mS/cm) 1.03 1.10 1.14 1.18 1.21	(NTU) 71.3 58.2 16.5 12.7 10.3	(mg/L) 3.10 2.09 0.30 0.16 0.11	(g/L) 0.752 0.707 0.727 0.758 0.762 0.760							
1045 1050 1055 1100 1105	(feet) 10.731 10.734 10.735 10.40 10.43	(°C) 21.39 20.96 18.89 18.10 18.08 18.31	7.91 7.73 7.63 7.55 7.53 7.54	(mV) -41 -46 -54 -58 -60	(mS/cm) 1.03 1.10 1.14 1.18 1.21	(NTU) 71.3 58.2 16.5 12.7 10.3	(mg/L) 3.10 2.09 0.30 0.16 0.11	(g/L) 0.752 0.707 0.727 0.758 0.762 0.760							
1045 1050 1055 1100 1105	(feet) 10.731 10.734 10.735 10.40 10.43	(°C) 21.39 20.96 18.89 18.10 18.08 18.31	7.91 7.73 7.63 7.55 7.53 7.54	(mV) -41 -46 -54 -58 -60	(mS/cm) 1.03 1.10 1.14 1.18 1.21	(NTU) 71.3 58.2 16.5 12.7 10.3	(mg/L) 3.10 2.09 0.30 0.16 0.11	(g/L) 0.752 0.707 0.727 0.758 0.762 0.760							
1045 1050 1055 1100 1105	(feet) 10.31 10.34 10.35 10.45	(°C) 21.39 20.96 18.89 18.10 18.08 18.31	7.91 7.73 7.63 7.55 7.53 7.54	(mV) -41 -46 -54 -58 -60	(mS/cm) 1.03 1.10 1.14 1.18 1.21	(NTU) 71.3 58.2 16.5 12.7 10.3	(mg/L) 3.10 2.09 0.30 0.16 0.11	(g/L) 0.752 0.707 0.727 0.758 0.762 0.760							
1045 1050 1055 1100 1105 1110	(feet) 10.31 10.34 10.35 10.45	(°C) 21.39 20.96 18.89 18.10 18.08 18.31	7.91 7.73 7.63 7.55 7.53 7.54	(mV) -41 -46 -54 -58 -60	(mS/cm) 1.03 1.10 1.14 1.18 1.21	(NTU) 71.3 58.2 16.5 12.7 10.3	(mg/L) 3.10 2.09 0.30 0.16 0.11	(g/L) 0.752 0.707 0.727 0.758 0.762 0.760							
IVHS 1050 1055 1100 1105 1110 1115	(feet) 10.31 10.34 10.35 10.45	(°C) 21.39 20.96 18.89 18.10 18.08 18.31	7.91 7.73 7.63 7.55 7.53 7.54 7.61	(mV) -41 -46 -54 -58 -60	(mS/cm) 1.03 1.10 1.14 1.18 1.21	(NTU) 71.3 58.2 16.5 12.7 10.3	(mg/L) 3.10 2.09 0.30 0.16 0.11 0.06 0.04	(g/L) 0.752 0.707 0.727 0.758 0.762 0.760							
1045 1050 1055 1100 1105 1110 1115 Sampling Inf	(feet) 10.31 10.34 10.35 10.45 10.45	(°C) 21.39 20.96 18.89 18.10 18.08 14.31	7.91 7.73 7.63 7.55 7.53 7.54 7.61	(mV) -41 -46 -54 -58 -60	(mS/cm) 1.03 1.10 1.14 1.18 1.21	(NTU) 71.3 58.2 16.5 12.7 10.3 4.1	(mg/L) 3.10 2.09 0.30 0.16 0.11 0.06	(g/L) 0.752 0.707 0.727 0.758 0.762 0.760 0.761							
Sampling Inf EPA SW-84 EPA SW-84	(feet) 10.31 10.34 10.35 10.45 10.45 formation:	(°C) 21.39 20.96 18.89 18.10 18.08 14.31 18,30	7.91 7.73 7.63 7.53 7.54 7.61	(mV) -41 -46 -54 -58 -60	(mS/cm) 1.03 1.10 1.14 1.18 1.21	(NTU) 71.3 55.2 16.5 12.7 10.3 4.1 9.6	(mg/L) 3.10 2.09 0.30 0.16 0.11 0.06 0.04	(g/L) 0.752 0.707 0.727 0.758 0.760 0.761							
Sampling Inf EPA SW-8- EPA SW-8- EPA SW-8- EPA SW-8-	(feet) 10.31 10.34 10.35 10.45 10.45 formation: 46 Method 8270 46 Method 8260 46 Method 9012	(°C) 21.39 20.96 18.89 18.10 18.08 18.31 18.30 SVOC I VOC's I Total Cy	7.91 7.73 7.63 7.55 7.53 7.54 7.61	(mV) -41 -46 -54 -58 -60 -62 -66	(mS/cm) 1.03 1.10 1.14 1.18 1.21 1.19	(NTU) 71.3 55.2 16.5 12.7 10.3 4.1 4.6 2-1 liter ambe 3-40 ml vial 1-250 ml plas	(mg/L) 3 10 2 09 0 30 0 16 0 11 0 06 0 04	(g/L) 0.752 0.757 0.758 0.762 0.760 0.761							
Sampling Inf EPA SW-8- EPA SW-8- EPA SW-8- Sample ID:	(feet) 10.31 10.34 10.35 10.45 10.45 formation: 46 Method 8270 46 Method 8260 46 Method 9012 MW-08R-05	(°C) 21.39 20.96 18.89 18.10 18.08 14.31 18,30 SVOC I VOC's I Total Cy	7.91 7.73 7.63 7.55 7.53 7.54 7.61	(mV) -41 -46 -54 -58 -60 -62 -62	(mS/cm) 1.03 1.10 1.14 1.18 1.21 1.19	(NTU) 71.3 55.2 16.5 12.7 10.3 4.1 4.6 2-1 liter ambe 3-40 ml vial 1-250 ml plas ipped: Pri	ers Yes	(g/L) 0.752 0.707 0.727 0.758 0.762 0.760 0.761							
Sampling Inf EPA SW-8- EPA SW-8- EPA SW-8- EPA SW-8-	(feet) 10.31 10.34 10.35 10.45 10.45 formation: 46 Method 8270 46 Method 8260 46 Method 9012	(°C) 21.39 20.96 18.89 18.10 18.08 14.31 18,30 SVOC I VOC's I Total Cy	7.91 7.73 7.63 7.55 7.53 7.54 7.61	(mV) -41 -46 -54 -58 -60 -62 -66	(mS/cm) 1.03 1.10 1.14 1.18 1.21 1.19	(NTU) 71.3 55.2 16.5 12.7 10.3 4.1 4.6 2-1 liter ambe 3-40 ml vial 1-250 ml plas ipped: Pri	(mg/L) 3 10 2 09 0 30 0 16 0 11 0 06 0 04	(g/L) 0.752 0.707 0.727 0.758 0.762 0.760 0.761							
Sampling Inf EPA SW-8- EPA SW-8- EPA SW-8- Sample ID:	(feet) 10.31 10.34 10.35 10.45 10.45 formation: 46 Method 8270 46 Method 8260 46 Method 9012 MW-08R-05	(°C) 21.39 20.96 18.89 18.10 18.08 14.31 18,30 SVOC I VOC's I Total Cy	7.91 7.73 7.63 7.55 7.53 7.54 7.61	(mV) -41 -46 -54 -58 -60 -62 -62	(mS/cm) 1.03 1.10 1.14 1.18 1.21 1.19 1.19	(NTU) 71.3 55.2 16.5 12.7 10.3 4.1 4.6 2-1 liter ambe 3-40 ml vial 1-250 ml plas ipped: Pri	ers Yes	(g/L) 0.752 0.757 0.758 0.762 0.760 0.761							

	211			5		1012									
	3/4			Date: © 5/27/20											
Job Number: 060312	3-133570-221			Weather:	8505 , sunm	,									
Well Id. MW-13				Time In: (3'20 Time Out: 1400											
Well Information						K-3									
		TOC	Other	Well Type		shmount	Stick-Up								
Depth to Water:	(feet)	6.43		Well Lock		Yes	No								
Depth to Bottom:	(feet)	23.82	Measuring Point Marked: Yes No												
Depth to Product:	(feet)	NP	Well Diameter: 1" Other:												
Length of Water Column: Volume of Water in Well:	(feet)	17.39		Well Diameter: 1" 2" Other:											
Three Well Volumes:		3.4		Comments	S.										
Tillee Well Volumes.	(gal)	2.7													

Purging Information			***************************************												
- ruiging information						Conversion I	Factors								
Purging Method:	Baile	r Peristaltic	Crund	fos Pump		1" ID 2" ID									
Tubing/Bailer Material:	Teflor			yethylene	gal/ft.	1 10 2 10	14 ID 0 ID								
Sampling Method:	Baile	The second secon		fos Pump	of water	0.04 0.16	0.66 1.47								
Average Pumping Rate:		renstantic	Grano	los r ump		lon=3.785L=3785r									
	30 (min)				1 gai	1011-3.700E-37001	IIL-1307 cd. lect								
Total Volume Removed:	Z (gal)		oid well go dry?	Yes No	X										
				163	لكنا										
Horiba U-52 Water Quality	Meter Used?	Yes	No												
Time DTW	Temp	pН	ORP	Conductivity	Turbidity	DO	TDS								
						10 90 ORC IN	1 1000								
(feet)	(°C)	0 - 1	(mV)	(mS/cm)	(NTU)	(mg/L)	(g/L)								
1325 6.52	23.12	8.36	-27	1.39	379	2.65	0.876								
1325 6.52	23.12	8.04	-27	1.39	379	2.65	0.876								
1325 6.52 1330 6.64 1335 6.71	23.12	8.04 7.99	~27 ~16 ~3	1.39	379 99.7 20.1	2.65 0.39 0.16	0.876								
1325 6.52 1330 6.64 1335 6.71 1340 6.72	23.12 18.02 16.10	3.04 7.99 7.98	-27 -16 -3	1.39	379 99.7 20.1	2.65 0.39 0.16 0.00	0.576 0.971 0.924 0.929								
1325 6.52 1330 6.64 1335 6.71 1340 6.72 1345 6.70	23.12 18.02 16.10 15.43	8.04 7.99 7.98 7.98	-27 -16 -3 -3	1.39 1.41 1.44 1.45 1.45	379 99.7 20.1 13.6 7.0	2.65 0.39 0.16 0.00	0.576 0.971 0.924 0.929 0.928								
1325 6.52 1330 6.64 1335 6.71 1340 6.72 1345 6.70 1350 6.71	23.12 18.02 16.10 15.43 13.14 14.98	8.04 7.99 7.98 7.98 7.99	-27 -16 -3 3 10	1.39 1.41 1.44 1.45 1.45	379 99.7 20.1 13.6 7.0 5.j	2.65 0.39 0.16 0.60 0.00	0.876 0.971 0.924 0.929 0.928 0.931								
1325 6.52 1330 6.64 1335 6.71 1340 6.72 1345 6.70	23.12 18.02 16.10 15.43	8.04 7.99 7.98 7.98	-27 -16 -3 -3	1.39 1.41 1.44 1.45 1.45	379 99.7 20.1 13.6 7.0	2.65 0.39 0.16 0.00	0.576 0.971 0.924 0.929 0.928								
1325 6.52 1330 6.64 1335 6.71 1340 672 1345 670 1350 6.71	23.12 18.02 16.10 15.43 13.14 14.98	8.04 7.99 7.98 7.98 7.99	-27 -16 -3 3 10	1.39 1.41 1.44 1.45 1.45	379 99.7 20.1 13.6 7.0 5.j	2.65 0.39 0.16 0.60 0.00	0.876 0.971 0.924 0.929 0.928 0.931								
1325 6.52 1330 6.64 1335 6.71 1340 6.72 1345 6.70 1350 6.71	23.12 18.02 16.10 15.43 13.14 14.98	8.04 7.99 7.98 7.98 7.99	-27 -16 -3 3 10	1.39 1.41 1.44 1.45 1.45	379 99.7 20.1 13.6 7.0 5.j	2.65 0.39 0.16 0.60 0.00	0.876 0.971 0.924 0.929 0.928 0.931								
1325 6.52 1330 6.64 1335 6.71 1340 672 1345 670 1350 6.71	23.12 18.02 16.10 15.43 13.14 14.98	8.04 7.99 7.98 7.98 7.99	-27 -16 -3 3 10	1.39 1.41 1.44 1.45 1.45	379 99.7 20.1 13.6 7.0 5.j	2.65 0.39 0.16 0.60 0.00	0.876 0.971 0.924 0.929 0.928 0.931								
1325 6.52 1330 6.64 1335 6.71 1340 672 1345 670 1350 6.71	23.12 18.02 16.10 15.43 13.14 14.98	8.04 7.99 7.98 7.98 7.99	-27 -16 -3 3 10	1.39 1.41 1.44 1.45 1.45	379 99.7 20.1 13.6 7.0 5.j	2.65 0.39 0.16 0.60 0.00	0.876 0.971 0.924 0.929 0.928 0.931								
1325 6.52 1330 6.64 1335 6.71 1340 6.72 1345 6.70 1350 6.71	23.12 18.02 16.10 15.43 13.14 14.98	8.04 7.99 7.98 7.98 7.99	-27 -16 -3 3 10	1.39 1.41 1.44 1.45 1.45	379 99.7 20.1 13.6 7.0 5.j	2.65 0.39 0.16 0.60 0.00	0.876 0.971 0.924 0.929 0.928 0.931								
1325 6.52 1330 6.64 1335 6.71 1340 672 1345 670 1350 6.71	23.12 18.02 16.10 15.43 13.14 14.98	8.04 7.99 7.98 7.98 7.99	-27 -16 -3 3 10	1.39 1.41 1.44 1.45 1.45	379 99.7 20.1 13.6 7.0 5.j	2.65 0.39 0.16 0.60 0.00	0.876 0.971 0.924 0.929 0.928 0.931								
1325 6.52 1330 6.64 1335 6.31 1340 6.72 1345 6.70 1350 6.71 1355 6.71	23.12 18.02 16.10 15.43 13.14 14.96	8.04 7.99 7.98 7.99 7.99	-27 -16 -3 3 10	1.39 1.41 1.44 1.45 1.45	379 99.7 20.1 13.6 7.0 5.1 4.2	2.65 0.39 0.16 0.00 0.00 0.00	0.876 0.971 0.924 0.929 0.928 0.931 0.933								
1325 6.52 1330 6.64 1335 6.31 1340 6.72 1345 6.70 1350 6.71 1355 6.71	23.12 18.02 16.10 15.43 13.14 14.98 14.96	8.04 7.99 7.98 7.99 7.99	-27 -16 -3 3 10	1.39 1.41 1.44 1.45 1.45	379 99.7 20.1 13.6 7.0 5.1 4.2	2.65 0.39 0.16 0.00 0.00 0.00	0.876 0.971 0.924 0.929 0.928 0.931 0.933								
1325 6.52 1330 6.64 1335 6.71 1340 6.72 1345 6.70 1350 6.71 1355 6.71 1355 6.71	23.17 18.02 16.10 15.43 13.14 14.98 14.96	8.04 7.99 7.98 7.99 7.99 7.99	-27 -16 -3 3 10	1.39 1.41 1.44 1.45 1.45	379 99.7 20.1 13.6 7.0 5.1 4.2 2-1 liter ambed 3-40 ml vialed	2.65 0.39 0.16 0.00 0.00 0.00 0.00 F.C.	0.876 0.971 0.924 0.929 0.928 0.931 0.933								
1325 6.52 1330 6.64 1335 6.31 1340 6.72 1345 6.70 1350 6.71 1355 6.71	23.12 18.02 16.10 15.43 13.14 14.98 14.96	8.04 7.99 7.98 7.99 7.99 7.99	-27 -16 -3 3 10	1.39 1.41 1.44 1.45 1.45	379 99.7 20.1 13.6 7.0 5.1 4.2	2.65 0.39 0.16 0.00 0.00 0.00 0.00 F.C.	0.876 0.971 0.924 0.929 0.928 0.931 0.933								
1325 6.52 1330 6.64 1335 6.71 1340 6.72 1345 6.72 1350 6.71 1355 6.71 1355 6.71 1355 6.71 EPA SW-846 Method 827 EPA SW-846 Method 901	23.12 18.02 16.10 15.43 13.14 14.96 14.96 0 SVOC F 0 VOC's E 2 Total Cys	8.04 7.99 7.98 7.99 7.99 7.99	-27 -16 -3 3 10 12 13	1.39 1.41 1.44 1.45 1.46 1.46	379 99.7 20.1 13.6 7.0 5.1 4.2 2-1 liter ambe 3-40 ml vials 1-250 ml plas	2.65 0.39 0.16 0.00 0.00 0.00 e.cc 0.00 ers Yes s Yes tic Yes	0.876 0.971 0.924 0.929 0.928 0.931 0.933								
1325 6.52 1330 6.64 1335 6.71 1340 6.72 1345 6.70 1350 6.71 1355 1355	23.12 18.02 16.10 15.43 13.14 14.48 14.96 0 SVOC F 0 VOC's E 2 Total Cys	8.04 7.99 7.99 7.99 7.99 7.99	- 27 -16 -3 3 10 12 13	1.39 1.41 1.44 1.45 1.46 1.46	2-1 liter ambe 3-40 ml vials 1-250 ml plas	2.65 0.39 0.16 0.00 0.00 0.00 ers Yes s Yes tic Yes ace Courier Pick	0.876 0.971 0.924 0.929 0.928 0.931 0.933								
1325 6.52 1330 6.64 1335 6.71 1340 6.72 1345 6.72 1350 6.71 1355 6.71 1355 6.71 1355 6.71 EPA SW-846 Method 827 EPA SW-846 Method 901	23.12 18.02 16.10 15.43 13.14 14.48 14.96 0 SVOC F 0 VOC's E 2 Total Cys	8.04 7.99 7.99 7.99 7.99 7.99	-27 -16 -3 3 10 12 13	1.39 1.41 1.44 1.45 1.46 1.46	2-1 liter ambe 3-40 ml vials 1-250 ml plas	2.65 0.39 0.16 0.00 0.00 0.00 e.cc 0.00 ers Yes s Yes tic Yes	0.876 0.971 0.929 0.928 0.931 0.933								



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

Section A	Section B			Section	C																					
Required Client Information:	Required Project Information:				formation:																			Page:	: 1	of 1
Company: GES - Syracuse	Report To: Devin Shay (GES) dshay@gesonline.com			Attention:	Accounts	Payable via e	mail at ges-ir	nvoices@	gesonline	e.com					1											
Address: 5 Technology Place, Suite 4	Report To: Tim Beaumont (GES) tbeaumont@gesonline.com			Company	Name: Gro	oundwater & E	nvironmenta	al Service	s, Inc.											7300			ORY	AGENO	CY	
East Syracuse, New York 13057	ibeaunon@gesonine.com			1		gy Place, Suit									11	F NPI	DES		SRO	UND V	VATER	R	RIN	KING WA	TER	
Email To: dshay@gesonline.com	Purchase Order No.:				te Referenc			40000, 14	1 10007						l L	i us	ST	Г	RCRA	4			Гли	ER		
Phone: 800.220.3069 Fax: None x4051	Project Name: National Grid - Ilion	1	East	Pace Proi	ect Manage	r: Rachel Chr	istoor											SIT	E		T 3	3A	I L	1	1	Г
Requested Due Date/TAT: Standard	Street, Ilion NY Project Number:															LOCA	ATIO	N			Γ:	ЭH	┌ ic	Γη.	L.H.	ER
lo :: -	06-03123-133570-221-1106 Valid Matrix Codes			Pace Profi	le #:		Semi-A	Annua	I GWS	3					F	iltered (Y/N)					7	7	77	7//	777
Section D Required Client Information	MATRIX CODE				COL	LECTED			T	T	-	Preser	valivos	-	R	equeste	ed				_	+	+	+	///	///
31:	OFFICE ON ON ON ON ON ON ON O	MATRIX CODE	SAMPLE TYPE G+GRAB C=COMP	COMPOSITES	TART	GAB		SAMPLE TEMP AT COLLECTION	#OF CONTAINERS	pə					_	nalysis:		/								//
ITEM			SA							5	0	ΙĢ	T C	Methanol					1	2	//	//	//	//	F	Pace Project
1 MW-02R-042	0	WT	G	DATE	TIME	DATE	1205	-	-	1-1	H ₂ SO ₄	호	Na Na	Meth	Othe		1			//	4	4	4			Number Lab I.D.
2 MW-03-0420	,	WT	G			05/29		-	6	2	\mathcal{H}	3	1	H	4		3	2	1	\bot	\perp	\sqcup				
3 MW-06-0420	,	WT	G			05/72	1755		6	2	+	3	1	++	+		3	+-	1	_	\perp	\vdash	1			
4 MW-06-MS-04	00	WT	G				1255	-	6	2	+	3	1	++	_		3	2	1	\perp	Ш	Н	\perp			
5 MW-06-MSD-04	100	WT	G			05/27	1255	_	6	2	+	3	1	+	4		3	2	1	4	$\perp \perp$	1	\perp			
6 MW-07-0420		WT	G			05/124			6	2	-11	3	1	\vdash	_		3	2	1	\bot	Ш					
7 MW-08R-042	0		G			05/27			6	2	+1	3	1	\vdash	_		3	2	1	\perp	\sqcup	\perp				
8 MW-13-0420			G						6	2	-11	3	1	\sqcup	_		3	2	1	\perp	Ш	\perp				
9 FD-0420			1			05/27	1333		6	2	-11	3	1	1	\perp		3	2	1	\perp	Ц					
10 Trip Blanks			G			03/24			6	2	11	3	1				3	2	1							
11		NT	G						2	Ш		2					3				П	T	П			
12		+	-			\vdash				\sqcup												T				
13		+	-									\perp						П			П		П			
dditional Comments: #	2001-7-2	FUIVE	2) War															П			П		П			
AMPLES WILL ARRIVE IN			JUISH	ED BY / AF		1	DATE		ACCEPT	LED B.	Y / AF	ILIAT	ION					DA	TE	T	TIME	S	AMPL	E CON	DITION	S
	-	B~	3	10-	27/5	lemples !	si value	1540	_	7_	_		7	۷.		**************************************		5/2	7/2	015	40		T	N/N	N.	N.
	F									_												\top	\neg	N.	N/A	N.
ERegion@gesonline.com, ges@equisonline.com	<u> </u>						$-\bot$													1	-	T	\neg	N.	- X	N ×
- Soste equisor lime.com	<u> </u>				W0. 50															T		1	1	N.	Y.N.	N.
PECIFIC EDD NAME:					MPLER N NT Name of SA	AME AND S													West.			1	p	5		Intact
GIlion-labnumber.28351.EQEDD.zip				1	NATURE of SA	5	en He	-cly	~													7	Temp in	Received	Custody Sealed Cooler	ni sej
(2,ωρ				L		-	Ja K	d-de	7			DAT	E Signe	5/S	2:4	120						1	E G	Rec	Seale	Samples

Sampling Pe	rsonnel:	A5			Date: /8	12/20		
Job Number:	0603200-	133570-221			Weather:	46°F, d	loudy	
Well Id.	MW-02R				Time In:	0850	Time Ou	t: 0945
Well In	formation	-	TOO	Other	Mall Tons			o::
Depth to Wa	ter:	(feet)	/2.82	Other	Well Type Well Lock		shmount Yes	Stick-Up No
Depth to Bott		(feet)	18.30			Point Marked:	Yes	No
Depth to Pro-		(feet)	_		Well Mate			ther:
Length of Wa		(feet)	5.48		Well Diam		' 2" Xo	ther:
Volume of W		(gal)	0.87		Comments	3:		
Three Well V	olumes:	(gal)	2.6					
			2009					
Puraina I	nformation					a construction and are		- 4
		•					Conversion	Factors
Purging Meth	iod:	Bailer	Peristaltion	Grund	fos Pump	gal/ft.	1" ID 2" ID	4" ID 6" ID
Tubing/Bailer		Teflon	Stainless St		yethylene	of		
Sampling Me		Bailer	Peristaltion	Grund	fos Pump	water		
Average Pum		(ml/min)				1 gal	lon=3.785L=3785	mL=1337cu. feet
Duration of P Total Volume		30 (min) 2 (gal)		oid well go dry?	Yes No			
					resINO[F		
Horiba U-52 V	Water Quality I	Meter Used?	Yes	No No				
II Times	DTW	Toman	T	ORP	Conductivity	Turbidity	DO	TDS
Time	(feet)	Temp (°C)	рН	(mV)	Conductivity (mS/cm)	Turbidity (NTU)	(mg/L)	(g/L)
0900	13 41	14.56	6.14	-123	1.01	48.0	3 53	0.648
0805	14.40	14.85	6.06	-/25	1.01	97.9	2.11	0645
0910	14.78	14.18	5.99	-126	1.00	133	084	0.642
0915	14.99	1404	5.97	-126	100	109	056	0642
0920	1518	13.95	5.97	-125	1.00	78.9	0.49	0.642
0925	15.45	13.84	5.47	-122	0999	4/2.3	0.40	0439
0930	15.65	13.59	5.97	-113	0.989	20.5	049	0633
								+
				*				
Sampling Inf	ormation:							8
	16 Method 8270	SVOC P				4 - 1 liter ambe		
	46 Method 8260					6 - 40 ml vial		
EPA SW-84	46 Method 9012	Total Cya FD-1020	anide			2 - 250 ml plas	stic Yes	No No
Sample ID:	MW-02R-1		plicate?	Yes No	Shi	pped: Pa	ace Courier Pick	up 🖂
	0938	200 Sept. 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10		Yes No	On		f Albany Service	
Sample Time:	01/0	IVIO	/IVIOD:	ies Ino		Diop of	17 libarry Corvios	e Center I I
Comments/No		, 1010	/WOD:	i es 🔝 i no 🔀		Laboratory:	Pace Ana	_

Sampling Perso	onnel: 🎉	ゴ			Date:	10/12/20		
Job Number:	0603200-1	133570-221			Weather:	50°F.	doudy	
Well Id.	MW-03				Time In:		Time Ou	t: /125
Well Infor	mation	•						
D 11. (-) 1/2-4			TOC	Other	Well Type		shmount	Stick-Up
Depth to Water: Depth to Botton		(feet)	5.95 27.25		Well Lock	ea: Point Marked:	Yes Yes	No No
Depth to Produc		(feet)	21.20		Well Mate			ther:
Length of Water			21.3		Well Diam			ther:
Volume of Water		(gal)	3.4		Comments	s:		
Three Well Volu	ımes:	(gal)	10.2					
					to the state of th			
F 5	T.							
Purging Info	ormation						Conversion	Factors
Purging Method		Bailer	Peristaltic	Grund	fos Pump		1" ID 2" ID	
Tubing/Bailer M		Teflon	\vdash		yethylene	gal/ft.	1 10 2 10	1 10 0 10
Sampling Metho		Bailer			fos Pump	water	0.04 0.16	0.66 1.47
Average Pumpir		(ml/min)				1 gal	lon=3.785L=3785	mL=1337cu. feet
Duration of Pum	nping:	30 (min)						
Total Volume Re	emoved:	2 (gal)	D	id well go dry?	Yes No	K		
Horiba U-52 Wa	ater Quality N	Meter Used?	Yes	No				
Time	DTW	Temp	рН	ORP	Conductivity	Turbidity	DO	TDS
	(feet)	(°C)		(mV)	(mS/cm)	(NTU)	(mg/L)	(g/L)
1045	5.96	14.01	6.11	0	1.04	19.4	0.38	0.660
	2.70				0 0			
1050	5.96	13:73	6.29	-8	1.09	19.5	0.31	0628
1056	5.96	13:73	4.31	18	1.09	17.5	Dille	0:202
1056	5.96 5.96	13.68	4-31	18	1.07	17.5	011	0628
1050	5.96 5.96 5.96	13.68 13.61 13.57	(4.31 (4.31	18 34 43	1.07 1.10 1.10 1.09	19.5 13.2 10.6 7.8	011	0:702
1050 1055 1100 1105 1110	5.96 5.96 5.96 5.96	13.68 13.61 13.57 13.55	6.31	18 34 43 50	1.07	17.5 13.2 10.60 7.8 6.9	0.14	0:702 0:702 0-700 0:699
1050 1055 1100 1105 1110	5.96 5.96 5.96	13.68 13.61 13.57	(4.31 (4.31	18 34 43	1.07 1.10 1.10 1.09	19.5 13.2 10.6 7.8	011	0:702
1050 1055 1100 1105 1110	5.96 5.96 5.96 5.96	13.68 13.61 13.57 13.55	6.31	18 34 43 50	1.07	17.5 13.2 10.60 7.8 6.9	0.14	0:702 0:702 0-700 0:699
1050 1055 1100 1105 1110	5.96 5.96 5.96 5.96	13.68 13.61 13.57 13.55	6.31	18 34 43 50	1.07	17.5 13.2 10.60 7.8 6.9	0.14	0:702 0:702 0-700 0:699
1050 1055 1100 1105 1110	5.96 5.96 5.96 5.96	13.68 13.61 13.57 13.55	6.31	18 34 43 50	1.07	17.5 13.2 10.60 7.8 6.9	0.14	0:702 0:702 0-700 0:699
1056 1055 1100 1105 1110	5.96 5.96 5.96 5.96 5.96 5.96	13.68 13.61 13.57 13.55	6.31	18 34 43 50	1.07	17.5 13.2 10.60 7.8 6.9	0.14	0:702 0:702 0-700 0:699
1050 1055 1100 1105 1110	5.96 5.96 5.96 5.96 5.96 5.96	13.68 13.61 13.57 13.55	6.31	18 34 43 50	1.07	17.5 13.2 10.60 7.8 6.9	0.14	0:702 0:702 0-700 0:699
/0 56 1055 1100 1105 1110 1115 Sampling Inform	5.96 5.96 5.96 5.96 5.96 5.56	13.68 13.61 13.57 13.55 13.52	(1.31 (1.31 (1.32 (1.32	18 34 43 50	1.07	17.5 13.2 11.60 7.8 6.9 5.2	0.16	0:702 0:702 0:700 0.499 0-498
1056	5.96 5.96 5.96 5.96 5.96 5.96 5.96 Method 8270	17:73 13.68 13.61 13.57 13.55 13.52	(4.31 (4.31 (6.32 (6.32	18 34 43 50	1.07	17.5 13.2 14.6 7.8 6.9 5.2	0.1Ce 011 0.08 0.04 0.02	0:202 0:202 0:202 0-700 0.699 0-698
1056	5.96 5.96 5.96 5.96 5.96 5.96 5.96 Method 8270 Method 8260	13.68 13.61 13.57 13.55 13.52 SVOC P	(4.3/ (4.3/ (4.3/ (6.32 (6.32	18 34 43 50	1.07	17.5 13.2 14.6 7.8 6.9 5.2 2 - 1 liter amberon a - 40 ml vial	0.14 0.08 0.04 0.02 ers Yes	0:202 0:202 0:202 0-700 0.699 0-698
1056	5.96 5.96 5.96 5.96 5.96 5.96 5.96 Method 8270 Method 8260	17:73 13.68 13.61 13.57 13.55 13.52	(4.3/ (4.3/ (4.3/ (6.32 (6.32	18 34 43 50	1.07	17.5 13.2 14.6 7.8 6.9 5.2	0.14 0.08 0.04 0.02 ers Yes	0:202 0:202 0:202 0-700 0:699 0-49£
1056 1055 1100 1105 1110 1115 1110 1115 1110 1115	5.96 5.96 5.96 5.96 5.96 5.96 5.96 5.96	13.6/ 13.6/ 13.57 13.52 13.52 SVOC P VOC's E Total Cya	(4-3/ (4-3/	34 43 50 50	1.07	2 - 1 liter ambe 3 - 40 ml vial 1 - 250 ml plas	ers Yes Yes tic Yes	0:702 0:702 0:700 0.700 0.699 0.699 NO NO NO
1056	5.96 5.96 5.96 5.96 5.96 5.96 5.96 5.96	13.68 13.61 13.57 13.52 13.52 SVOC P VOC'S E Total Cya	(-3/ (-3/ (-3/ (-3/ (-32 (-32 (-32 (-32 (-32) (-32)	18 34 43 50	1.07	2 - 1 liter ambe 3 - 40 ml vial 1 - 250 ml plas	0.14 0.08 0.04 0.02 ers Yes	0:202 0:202 0:202 0-700 0.699 0-698 NO NO NO
1056 1055 1100 1105 1110	5.96 5.96 5.96 5.96 5.96 5.96 5.96 5.96	13.68 13.61 13.57 13.52 13.52 SVOC P VOC'S E Total Cya	(-3/ (-3/ (-3/ (-3/ (-32 (-32 (-32 (-32 (-32) (-32)	7 8 4 7 3 4 7 3 5 0 5 5 0 5 5 0 5 5 0 5 5 0 5 5 0 5 0	1.07 1.10 1.09 1.09 1.09	2 - 1 liter ambe 3 - 40 ml vial 1 - 250 ml plas	ers Yes s Yes ace Courier Pick	0:202 0:202 0:202 0-700 0.699 0-699 0-699 No No No

	9)			100			
Sampling Personnel:	AS			Date:	10/12/20		
Job Number: 06032	200-133570-221			Weather:	56°F.	partly s	unay
Well Id. MW-06				Time In:	1220	Time Out:	: 1315
Well Information		TOC	Other	Well Type			Stick-Up
Depth to Water: Depth to Bottom:	(feet)	28.60		Well Lock	ea: Point Marked:	Yes Yes	No No
Depth to Product:	(feet)			Well Mate			her:
Length of Water Colum		11.01		Well Diam		2" _Oth	her:
Volume of Water in We		1.7		Comments	S:		
Three Well Volumes:	(gal)	5.2					
Purging Information	n e						
						Conversion F	
Purging Method:	Bailer			os Pump	gal/ft.	1" ID 2" ID	4" ID 6" ID
Tubing/Bailer Material:	Teflon			vethylene os Pump	of water	0.04 0.16	0.66 1.47
Sampling Method: Average Pumping Rate	Bailer (ml/min)	Penstallic	Grundi	os Fullip		on=3.785L=3785n	
Duration of Pumping:	30 (min)						
Total Volume Removed		D	id well go dry?	Yes No	10		
Horiba U-52 Water Qua		Yes	No				
Time DTW	' Temp	рН	ORP	Conductivity	Turbidity	DO	TDS
(feet			(mV)	(mS/cm)	(NTU)	(mg/L)	(g/L)
1225 17.7	1 15.09	5.95	-80	1.19	61.6	0.56	0.764
1230 176		6.21	-52	1112	12.0	0.65	0.735
1000	7 14,73	(0.31	-20	1.53	0.0	0.20	0.502
1240 7.6		6.32	-5	1.58	0.0	0.13	0999
1250 17.6	9 14.21	6.33	12	1. cel	0.0	0.07	01.03
1255 7.4	9 14.20	6,33	17	1.62	0.0	0.11	404
Sampling Information:	_						
EPA SW-846 Method	3270 SVOC F	ΡΑΗ'ς			6 - 1 liter ambe	ers Yes	No
EPA SW-846 Method					9 - 40 ml vials		
EPA SW-846 Method					3 - 250 ml plas		No 🗌
Comple ID: MANA	NE 4020 D	nlicate?	Voo No No	Ch	inned: Da	ace Courier Pick	
			Yes No No	Sn		f Albany Service	
	NIS	/WOD:	100	and the second s		253	
Comments/Notes:					Laboratory:	Pace Ana Greensbu	1953

	The second second		***				
Sampling Personnel:	5		747	Date: /o	/12/20		
Job Number: 0603200-1	33570-221			Weather:	540Fic	loudy	
Well Id. MW-07				Time In:		Time Out	: /2/0
Well Information			0.11	**** T = 0 0	-		
Depth to Water:	(fact)	F.75	Other	Well Type Well Lock		shmount	Stick-Up No
Depth to Water. Depth to Bottom:	(feet)	16.87			ed: Point Marked:	Yes	No
Depth to Product:	(feet)	Well Mate			her:		
Length of Water Column:	(feet)	F.12		Well Diam			her:
Volume of Water in Well:	(gal)	1.3		Comments	S:		
Three Well Volumes:	(gal)	3.9					
Purging Information							
Fulging information	i					Conversion I	Factors
Purging Method:	Bailer	Peristaltic	Grund	fos Pump	gal/ft.	1" ID 2" ID	
Tubing/Bailer Material:	Teflon			yethylene	of	1 10	1 10
Sampling Method:	Bailer			fos Pump	water	0.04 0.16	0.66 1.47
	(ml/min)				1 gall	on=3.785L=3785r	
	30 (min)						
Total Volume Removed:	2 (gal)	Di	id well go dry?	Yes No	7		
Horiba U-52 Water Quality M	leter Used?	Yes	No	A			
Time DTW	Temp	рН	ORP	Conductivity	Turbidity	DO	TDS
(feet)	(°C)		(mV)	(mS/cm)	(NTU)	(mg/L)	(g/L)
1170 (3-0	1200	1- 17	7	`,			
1130 9.52	13.83	6.27	/	1.06	42.8	0.30	0.678
1135 9.80	14.46	6.05	-40	1.05	42.8	0.55	0672
1135 9.80	14.75	6.05	-75	1.14			
1135 9.80 1140 9.91 1145 (0.05	14.75	6.05 5.83 578	-75	1.14	141	0.55	0.728
1135 9.80 1140 9.91 1145 10.05 1150 10.05	14.46 14.75 14.88 14.93	6.05 5.83 5718 5717	-75 -81 -89	1.05 1.14 1.20 1.21	141 128 115 105	0.55	0.728
1135 9.80 1140 9.91 1145 10.05 1150 10.05 1155 10.11	14.44 14.75 14.88 14.93	6.05 5.83 5.18 5.17 5.77	-75 -81 -84 -84	1.05 1.14 1.20 1.22 1.23	141 128 115 105 160	0.55	0.728 0.728 0.784 0.790
1135 9.80 1140 9.91 1145 10.05 1150 10.05	14.46 14.75 14.88 14.93	6.05 5.83 5718 5717	-75 -81 -89	1.05 1.14 1.20 1.21	141 128 115 105	0.55	0.728
1135 9.80 1140 9.91 1145 10.05 1150 10.05 1155 10.11	14.44 14.75 14.88 14.93	6.05 5.83 5.18 5.17 5.77	-75 -81 -84 -84	1.05 1.14 1.20 1.22 1.23	141 128 115 105 160	0.55	0.728 0.728 0.784 0.790
1135 9.80 1140 9.91 1145 10.05 1150 10.05 1155 10.11	14.44 14.75 14.88 14.93	6.05 5.83 5.18 5.17 5.77	-75 -81 -84 -84	1.05 1.14 1.20 1.22 1.23	141 128 115 105 160	0.55	0.728 0.728 0.785 0.781
1135 9.80 1140 9.91 1145 10.05 1150 10.05 1155 10.11	14.44 14.75 14.88 14.93	6.05 5.83 5.18 5.17 5.77	-75 -81 -84 -84	1.05 1.14 1.20 1.22 1.23	141 128 115 105 160	0.55	0.728 0.728 0.785 0.781
1135 9.80 1140 9.91 1145 10.05 1150 10.05 1155 10.11	14.44 14.75 14.88 14.93	6.05 5.83 5.18 5.17 5.77	-75 -81 -84 -84	1.05 1.14 1.20 1.22 1.23	141 128 115 105 160	0.55	0.728 0.728 0.785 0.781
1135 9.80 1140 9.91 1145 10.05 1150 10.05 1155 10.11 1200 10.15	14.44 14.75 14.88 14.93	6.05 5.83 5.18 5.17 5.77	-75 -81 -84 -84	1.05 1.14 1.20 1.22 1.23	141 128 115 105 160	0.55	0.728 0.728 0.785 0.781
1135 9.80 1140 9.91 1145 10.05 1150 10.05 1155 10.11	14.44 14.75 14.88 14.93	6.05 5.83 5.18 5.17 5.77	-75 -81 -84 -84	1.05 1.14 1.20 1.22 1.23	141 128 115 105 160	0.55	0.728 0.728 0.785 0.781
1/35 9.80 1/90 9.91 1/95 0.05 1/50 0.05 1/55 0.11 1200 0.15 Sampling Information:	14.44 14.75 14.88 14.93 14.95 14.96	6.05 5-83 5718 5717 577 5.81	-75 -81 -84 -84	1.05 1.14 1.20 1.22 1.23	141 128 115 105 160 98.4	0.55 0.39 0.31 0.23 0.19 0.21	0.728
135	14.75 14.75 14.95 14.95 14.95	6.05 5.83 5718 5717 5.77 5.81	-75 -81 -84 -84	1.05 1.14 1.20 1.22 1.23	141 128 115 105 160 98.4	0.55 0.39 0.31 0.23 0.19 0-21	0.728 0.728 0.728 0.784 0.790 0.836
135	14.75 14.68 14.95 14.95 14.95 1 4.96 SVOC P.	6.05 5.83 5.78 5.77 5.77 S.81	-75 -81 -84 -84	1.05 1.14 1.20 1.22 1.23	141 128 115 105 160 98.4 2 - 1 liter ambe 3 - 40 ml vials	0.55 0.39 0.31 0.23 0.19 0.21	0.728 0.728 0.728 0.781 0.790 0.886
135	14.75 14.75 14.95 14.95 14.95	6.05 5.83 5.78 5.77 5.77 S.81	-75 -81 -84 -84	1.05 1.14 1.20 1.22 1.23	141 128 115 105 160 98.4	0.55 0.39 0.31 0.23 0.19 0.21	0.728 0.728 0.728 0.781 0.790 0.886
1/35 9.86 1/40 9.91 1/50 10.05 1150 10.05 1155 10.11 12.00 10.15 12.00 10.15 12.00 12.5 12.00 12.00 12.5 12.00 12.5 12.00 12.5 12.00 12.5 12.00 12.5 12.00 12.5 12.00 12.5 12.00 12.5 12.00 12.5 12.00 12.5 12.00 12.5 12.00 12.5 12.00 12.5 12.00 12.5 12.00 12.5 12.00 12.5 12.00 12.5 12.00 12.00 12.5 12.00 12.5 12.00 12.5 12.00 12.5 12.00 12.5 12.00 12.5 12.00 12.5 12.00 12.5 12.00 12.5 12.00 12.5 12.00 12.5 12.00 12.00 12.00 12	14.75 14.85 14.93 14.95 14.96 14.96 VOC's B	6.05 5-83 577 5.77 5.81 AH's TEX	-75 -81 -84 -84	1.05 1.14 1.20 1.22 1.23 1.26	2 - 1 liter amber 3 - 40 ml vials 1 - 250 ml plas	0.55 0.39 0.31 0.23 0.19 0.21 rs Yes Yes tic Yes	0.728 0.728 0.728 0.784 0.790 0.836
1/35 9.80 1/40 9.91 1/45 10.05 1/50 10.05 1/55	14.75 14.95 14.95 14.95 14.95 1 4.96 VOC's B Total Cya	6.05 5-83 5-78 5-77 5-77 5-81 AH's TEX anide	-75 -81 -84 -86 -87	1.05 1.14 1.20 1.22 1.23 1.26	2-1 liter ambe 3-40 ml vials 1-250 ml plas	0.55 0.39 0.31 0.23 0.19 0.21	0.728 0.728 0.728 0.784 0.790 0.836
1/35 9.86 1/40 9.91 1/45 10.05 1/50 10.05 1/55	14.75 14.95 14.95 14.95 14.95 1 4.96 VOC's B Total Cya	6.05 5-83 5-78 5-77 5-77 5-81 AH's TEX anide	-75 -81 -84 -87 -87	1.05 1.14 1.20 1.21 1.23 1.26	2-1 liter ambe 3-40 ml vials 1-250 ml plas	o. 39 o. 39 o. 39 o. 39 o. 23 o. 19 o. 21 rs Yes sic Yes ce Courier Picki	0.728 0.728 0.728 0.728 0.729 0.730 0.836

		*			1 - Januar Janes			
Sampling Pe	rsonnel:	A5			Date:	0/12/20		
Job Number:	0603200-	133570-221			Weather	48.E.	cloudy	
Well Id.	MW-08R				Time In:	0950	Time Ou	it: 1040
Depth to Wa Depth to Bot Depth to Pro Length of Wa Volume of W Three Well V	formation ter: tom: duct: ater Column: fater in Well:	(feet) (feet) (feet) (feet) (gal) (gal)	TOC /0.0/ 20.20 - /0.19 4.03 4.9	Other	Well Type Well Lock	e: Flu ked: Point Marked: erial: PV(neter: 1	shmount Yes Yes SS 2" 2" C	Stick-Up No
Purging Meth Tubing/Bailer Sampling Me Average Pun Duration of P Total Volume Horiba U-52	Material: thod: nping Rate: 2 umping:	Bailer Teflon Bailer Meter Used?	Stainless St Peristaltio	. Po	Ifos Pump Iyethylene Ifos Pump Yes No			0 4" ID 6" ID 6 0.66 1.47
Time	DTW	Temp	рН	ORP	Conductivity	Turbidity	DO	TDS
- A.	(feet)	(°C)		(mV)	(mS/cm)	(NTU)	(mg/L)	(g/L)
0955	11.05	14.05	5.98	-40	1.02	183	0.50	0.450
1000	1225	14.26	5.98	.35	1.05	238	0.43	0674
1010	12.32	14.33	5,93	41	1.04	33.6	0.32	0.671
1015	12.35	1434	5.92	43	1.03	33.1	0.23	0.462
1020	1249	14.33	5,52	44	102	20.4	0.24	0655
1025	12.49	14.28	5.92	32	1.00	15.2	0.33	0.641
							L	
Sampling Inf	formation:							
EPA SW-84	46 Method 8270	SVOC P	'AH's			2 - 1 liter amb	ers Yes	s No
	46 Method 8260	VOC's E				3 - 40 ml vial		
	46 Method 9012	Total Cya				1 - 250 ml plas		
Sample ID:	MW-08R-1	020	olicate?	Yes No X	Sh	ipped: Pa	ace Courier Pic	kun 🖂
Sample Time:	1030			Yes No		1070350	f Albany Servic	· — —
Comments/No	otes:					Laboratory:	Pace An Greensb	

				A STATE OF THE STA	The state of the s	
Sampling Personnel:	AT		Date: /	0/12/20		
Job Number: 0603200-1335	570-221		Weather:	570F, p.	artly sym	n V
Well Id. MW-13			Time In:			:1405
NAT III Complian						
Well Information	TOC	Other	Well Type	· Flus	shmount	Stick-Up
Depth to Water:	(feet) 6.54	Other	Well Lock		Yes	No No
Depth to Bottom:	(feet) 23.82			Point Marked:	Yes	No
Depth to Product:	(feet)		Well Mate			her:
Length of Water Column:	(feet) 17.28		Well Diam		2"Oti	her:
Volume of Water in Well: Three Well Volumes:	(gal) 2.7 (gal) 2.2	-	Comments	S:		
Three well volumes.	(gal) \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \					
Purging Information						
=	1				Conversion F	
Purging Method: Tubing/Bailer Material:	Bailer Peris		lfos Pump lyethylene	gal/ft.	1" ID 2" ID	4" ID 6" ID
Sampling Method:	·		Ifos Pump	water	0.04 0.16	0.66 1.47
I ————————————————————————————————————	(ml/min)	taltic	105 1 41117		on=3.785L=3785n	
Duration of Pumping: 30						
Total Volume Removed: 2	(gal)	Did well go dry?	Yes No	×		
Horiba U-52 Water Quality Meter	er Used?	Yes No				
Time DTW	Temp pH	ORP	Conductivity	Turbidity	DO	TDS
(feet)	(°C)	(mV)	(mS/cm)	(NTU)	(mg/L)	(g/L)
	14.55 4.38		1.59	5.3	0.32	1.02
	14.62 6.3		1,55	7.6.	0.10	0.995.
1330 6.78	14.56 6.3		1.55	2.5	013	0.989
1340 6.78	14.57 6.30	. 0-1	1.54	0.3	0.01	0588
1345 678	14.58 6.2		1.54	0.0	0.00	0.986
1350 6.78 1	14.59 6.2	8 81	1.54	0-0	0.00	0.984
			-			
Sampling Information:						
Janipinių intormation.						
Gampling information.						
EPA SW-846 Method 8270	SVOC PAH's			2 - 1 liter ambe	ers Yes	No 🗌
	SVOC PAH's VOC's BTEX			3 - 40 ml vials	s Yes	No
EPA SW-846 Method 8270					s Yes	
EPA SW-846 Method 8270 EPA SW-846 Method 8260 EPA SW-846 Method 9012	VOC's BTEX Total Cyanide	🗀 🗸	I ch	3 - 40 ml vials 1 - 250 ml plas	s Yes tic Yes	No No
EPA SW-846 Method 8270 EPA SW-846 Method 8260 EPA SW-846 Method 9012 Sample ID: MW-13-1020	VOC's BTEX Total Cyanide Duplicate?	Yes No	Shi	3 - 40 ml vials 1 - 250 ml plas ipped: Pa	s Yes tic Yes ace Courier Pick	No No
EPA SW-846 Method 8270 EPA SW-846 Method 8260 EPA SW-846 Method 9012	VOC's BTEX Total Cyanide	Yes No No		3 - 40 ml vials 1 - 250 ml plas ipped: Pa	s Yes tic Yes	No No Center



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

D110"	ection B			Section	С																				
Company OFO O	equired Project Information:			Invoice In	formation:																		Pag	je:	1 of 1
ds	eport To: Devin Shay (GES) hay@gesonline.com			Attention:	Accounts F	Payable via er	mail at ges-inv	roices@g	esonline	com						19				DE	GUI	ATOR	Y AGE	NOV	
L the	eport To: Tim Beaumont (GES) eaumont@gesonline.com			Company	Name: Gro	undwater & E	nvironmental	Services	, Inc.				-			☐ NPE)EC		20011						
East Syracuse, New York 13057	3,000	-		Address:	5 Technolog	y Place, Suite	e 4, East Syra	cuse, NY	13057											ND WA	TER		INKING W	√ATER	
Email To: dshay@gesonline.com	rchase Order No.:				te Referenc								-			US.	27.5	orthograph.	RCRA			1.1	HER		
Phone: 800.220.3069 Fax: None Prox x4051	oject Name: National Grid - Ilion	1	East	Pace Proj	ect Manager	: Rachel Chri	stner		-									SITE			ЗА	L	1		Γ_
200	reet, Ilion NY pject Number:			<u> </u>												LOCA	10IT.	1		F	НС	F 3	C	n F	HER
060	03200-133570-221-1106		76	Pace Prof	ile#:		Semi-A	nnual	GWS	i					Fi	Itered (Y	(/N)					7/	77	71	7777
Required Client Information MAT	TRIX CODE AND MATER TO ATER TO ATER	MATRIX CODE	SAMPLE TYPE G+GRAB C=COMP	COMPOSITE 6		GAS		SAMPLE TEMP AT COLLECTION	#OF CONTAINERS	вегуед		Preser			_	equester	d								Pace Project
				DATE	TIME	DATE	TIME			Unpre	H ₂ SO ₂ H	ᅙ	HOBN	Methanol	Other		15	1/3/		//,	//	///	//		Number Lab I.D.
10100-0211-1020		WT	G			10/12/2	0935		6	2		3	1				3	2	1			11			
WW-08-1020		WT	G				1120		6	2		3	1				3	2	1	П		\Box			
3 MW-06-1020		WT	G				1300		6	2		3	1				3	2	1			\top			
4 MW-06-MS-1020		WT	G				1300		6	2		3	1		T		3		1		\top	+			
MW-06-MSD-1020	0	WT	G				1300		6	2		3	1	Π	T		3	2	1	$\forall t$	+	\vdash	+		
6 MW-07-1020		WT	G				1285		6	2			1		T		3	2	1	++	+	+	+	-	
7 MW-08R-1020		WT	G				1030		6	2			1	TT	+		3		1	+	+	+	+		
8 MW-13-1020		WT	G				1355		6	2			1	++	+	10-10-		_	1	+	+	++	-		
9 FD-1020		wT	G			1/	100		6	2			+	++	+			-	1	+	+	\vdash	┼		
10 Trip Blanks		WT	G			-				2	+		1	+	+			2	1	\vdash	+	\vdash	\vdash		
11									3	H	+	3	-	$\vdash\vdash$	╁		3	-	+	\vdash	4	\vdash	—		
12		\neg								\vdash	+	\vdash	+		╁		H	+	+		4	\vdash	_		
13		\neg						\neg		-	+	\vdash	+	+	\vdash		H	+	+	1	\perp	\vdash	_		
Additional Comments: #	COOLERS.	RELIN	IQUISI	HED BY / A	FFILIATION	76. W. T	DATE	TIME	ACCEP	TEO E	27 / 45	FULAT	TION!		L							\perp			
SAMPLES WILL ARRIVE IN		4	un	7			10/2/201		ACCEP.	יבטב	or / Ar	FILIAI	ION					DA		TIM		SAME	LE CO	NDITIC	ONS
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Appendix C – Data Usability Summary Report



Groundwater & Environmental Services, Inc.

708 North Main Street, Suite 201 Blacksburg, VA 24060

T. 800.662.5067

October 19, 2020

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

RE: Data Usability Summary Report for National Grid- Ilion, East Ave.: Data Packages Pace Analytical Job Nos. 30331848, 30365233

Review has been completed for the data packages generated by Pace Analytical that pertain to monitoring well samples collected during the October 2019 and the May 2020 sampling events at the National Grid Ilion, East Avenue site. For each event, six aqueous samples, a matrix spike/matrix spike duplicate pair, a trip blank and a field duplicate were collected from the main site. These samples were processed for volatile organic compounds benzene, toluene, ethylbenzene and xylenes (BTEX), cyanide and polynuclear aromatic hydrocarbons (PAHs).

Analytical methodologies are those of the USEPA SW846 with additional requirements of the NYSDEC ASP.

Complete NYSDEC Category B deliverables were included in the laboratory data package and all information required for validation of the data is present. This usability report is generated from review of the summary form information, and review of associated QC raw data. The reported summary forms have been reviewed for application of validation qualifiers, using guidance from the National Grid generic QAPP, USEPA Region 2 validation SOPs, the USEPA National Functional Guidelines for Data Review, and professional judgment, as affects the usability of the data. The following items were reviewed:

- 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

All of the items were determined to be acceptable for the DUSR level review. In summary, sample results are usable.

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



Table 1 – Data Qualifications

Sample ID	Qualifier	Analyte	Reason for qualification
MW-02R-0420 FD-0420	UJ	Cyanide	Field duplicate RPD exceeds criteria
MW-03-0420, MW-06-0420, MW-07-0420, MW-08R-0420, MW-13-0420	R	Naphthalene	Positive blank contamination
MW-06-1019	UJ	Anthracene Fluoranthene Phenanthrene	MS/MSD RPD exceeds criteria
MW-06-0420	UJ	2-Methylnaphthalene Acenaphthene Acenaphthylene Anthracene Fluoranthene Fluorene Phenanthrene Pyrene	MS/MSD RPD exceeds criteria

UJ: estimated non-detect with an unknown bias

R: data rejected

BTEX and TCL Volatiles by EPA 8260C/NYSDEC ASP

Sample holding times for groundwater and effluent samples and instrumental tune fragmentations were within acceptance ranges. Blanks were free of contamination. Surrogate and internal standard recoveries were within required limits. Calibrations standards show acceptable responses within analytical protocol and validation action limits. An MS/MSD was analyzed using MW-06 as the matrix for both the 2019 and 2020 sampling events. All QC elements associated with the MS/MSD fell within project criteria. The blind field duplicate correlations of MW-03 2019 were not calculated, as there were no positive detections reported in the original or duplicate sample. The RPDs between MW-02R 2020 and the duplicate for analytical detections all fell within EPA criteria (<30%).

PAHs by EPA8270D/NYSDEC ASP

Holding times were met.

There were no blank detections associated with the 2019 data.

The method blank associated with the 2020 data reported a positive concentration (0.25 μ g/L) of naphthalene. EPA guidance indicates that any organic analyte with a positive concentration less than five times the concentration found in an associated blank cannot be considered representative of the sampling location. For the May 2020 sampling event, **MW-03-0420**, **MW-06-0420**, **MW-07-0420**, **MW-08R-0420**, and **MW-13-0420** all reported concentrations that were less than five times the blank concentration. The naphthalene concentrations in these samples were considered unreliable, as they may not be representative of the sampling location, and the concentrations were qualified as rejected ("R").



Surrogate recoveries were within criteria with the exception of a low recovery in terphenyl the 2020 PAH blank. The other surrogates recovered within laboratory-provided ranges, and the low surrogate did not impact the data.

The laboratory control spike recoveries and precision indicate the methods were within laboratory control.

An MS/MSD was analyzed using **MW-06** as the matrix for both the 2019 and 2020 sampling events For 2019 the matrix spike/matrix spike duplicate relative percent differences were within laboratory-provided limits, with the exception of anthracene, fluoranthene and phenanthrene. The non-detect data for these three analytes are qualified as estimated non-detect with and indeterminate bias. For 2020, the matrix spike/matrix spike duplicate relative percent differences were within laboratory-provided limits with the exception of 2-fluorobiphenyl (surrogate), 2-methylnaphthalene, acenaphthene, acenaphthylene, anthracene, fluoranthene, fluorene, phenanthrene, and pyrene. With the exception of the surrogate, all data for these analytes are qualified as estimated non-detect with an indeterminate bias.

The blind field duplicate correlations of **MW-03 2019** were not calculated, as there were no positive detections reported in the original or duplicate sample. The RPDs between **MW-02R 2020** and the duplicate for analytical detections all fell within EPA criteria (<30%).

Cvanide by EPA 9012B /NYSDEC ASP

Holding times were met. 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. An MS/MSDs were analyzed using samples unassociated with the site. The blind field duplicate correlations of **MW-03 2019** were not calculated, as there were no positive detections reported in the original or duplicate sample. The blind field duplicate cyanide RPD of **MW-02R-0420** and the associated duplicate detection exceeded the EPA criteria (<30%), where the 40% RPD indicates a precision issue. The **MW-02R-0420** and **FD** cyanide data is qualified as estimated with an indeterminate bias.

Data Package Completeness

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

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

Sincerely,

Bonnie Janowiak, Ph.D.

antwick

Senior Chemist



SAMPLE SUMMARY

Project: National Grid - Ilion East Str

Pace Project No.: 30331848

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30331848001	MW-02R-1019	Water	10/24/19 08:55	10/25/19 09:40
30331848002	MW-03-1019	Water	10/24/19 11:30	10/25/19 09:40
30331848003	MW-06-1019	Water	10/24/19 09:40	10/25/19 09:40
30331848004	MW-06-MS-1019	Water	10/24/19 09:45	10/25/19 09:40
30331848005	MW-06-MSD-1019	Water	10/24/19 09:50	10/25/19 09:40
30331848006	MW-07-1019	Water	10/24/19 10:40	10/25/19 09:40
30331848007	MW-08R-1019	Water	10/24/19 12:25	10/25/19 09:40
30331848008	MW-13-1019	Water	10/24/19 13:10	10/25/19 09:40
30331848009	FD-1019	Water	10/24/19 00:01	10/25/19 09:40
30331848010	Trip Blanks	Water	10/24/19 00:01	10/25/19 09:40

REPORT OF LABORATORY ANALYSIS



Project: National Grid - Ilion East Str

Pace Project No.: 30331848

Method: EPA 8270D by SIM

Description: 8270D MSSV PAH by SIM

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

Date: November 01, 2019

General Information:

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

Hold Time:

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

Sample Preparation:

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

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Internal Standards:

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

Surrogates:

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

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: 368051

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30331848003

R1: RPD value was outside control limits.

- MSD (Lab ID: 1786089)
 - Anthracene
 - Fluoranthene
 - Phenanthrene

Additional Comments:

REPORT OF LABORATORY ANALYSIS



Project: National Grid - Ilion East Str

Pace Project No.: 30331848

Method: EPA 8260C Description: 8260C MSV

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

Date: November 01, 2019

General Information:

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

Hold Time:

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

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Internal Standards:

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

Surrogates

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

Method Blank:

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

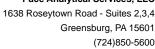
Laboratory Control Spike:

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

Matrix Spikes:

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

Additional Comments:





Project: National Grid - Ilion East Str

Pace Project No.: 30331848

Method: EPA 9012B

Description: 9012B Cyanide, Total

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

Date: November 01, 2019

General Information:

9 samples were analyzed for EPA 9012B. 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 9012B 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: 368724

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30324293001,30331690005

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

- MS (Lab ID: 1789087)
 - Cyanide
- MSD (Lab ID: 1789086)
 - Cyanide

R1: RPD value was outside control limits.

- MSD (Lab ID: 1789086)
 - Cyanide

Additional Comments:

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



SAMPLE SUMMARY

Project: National Grid - Ilion, NY-Revised Report

Pace Project No.: 30365233

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30365233001	MW-02R-0420	Water	05/27/20 12:05	05/28/20 10:00
30365233002	MW-03-0420	Water	05/27/20 10:25	05/28/20 10:00
30365233003	MW-06-0420	Water	05/27/20 12:55	05/28/20 10:00
30365233004	MW-06-MS-0420	Water	05/27/20 12:55	05/28/20 10:00
30365233005	MW-06-MSD-0420	Water	05/27/20 12:55	05/28/20 10:00
30365233006	MW-07-0420	Water	05/27/20 09:35	05/28/20 10:00
30365233007	MW-08R-0420	Water	05/27/20 11:15	05/28/20 10:00
30365233008	MW-13-0420	Water	05/27/20 13:55	05/28/20 10:00
30365233009	FD-0420	Water	05/27/20 00:01	05/28/20 10:00
30365233010	Trip Blanks	Water	05/27/20 00:01	05/28/20 10:00

REPORT OF LABORATORY ANALYSIS

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



PROJECT NARRATIVE

Project: National Grid - Ilion, NY-Revised Report

Pace Project No.: 30365233

Method: EPA 8270D by SIM

Description: 8270D PAH SIM Reduced Volume

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

Date: June 10, 2020

General Information:

9 samples were analyzed for EPA 8270D by SIM by Pace Analytical Services Greensburg. 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: 399093

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

BLANK (Lab ID: 1932727)Terphenyl-d14 (S)

Method Blank:

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

QC Batch: 399093

B: Analyte was detected in the associated method blank.

- BLANK for HBN 399093 [OEXT/412 (Lab ID: 1932727)
 - Naphthalene

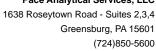
Laboratory Control Spike:

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.

REPORT OF LABORATORY ANALYSIS





Project: National Grid - Ilion, NY-Revised Report

Pace Project No.: 30365233

Method: EPA 8270D by SIM

Description: 8270D PAH SIM Reduced Volume

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

Date: June 10, 2020

QC Batch: 399093

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30365233003

R1: RPD value was outside control limits.

• MSD (Lab ID: 1932730)

- 2-Fluorobiphenyl (S)
- 2-Methylnaphthalene
- Acenaphthene
- Acenaphthylene
- Anthracene
- Fluoranthene
- Fluorene
- Phenanthrene
- Pyrene

Additional Comments:





Project: National Grid - Ilion, NY-Revised Report

Pace Project No.: 30365233

Method: EPA 8260C Description: 8260C MSV

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

Date: June 10, 2020

General Information:

10 samples were analyzed for EPA 8260C by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

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

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Internal Standards:

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

Surrogates:

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

Method Blank:

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

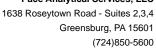
Laboratory Control Spike:

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

Matrix Spikes:

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

Additional Comments:





Project: National Grid - Ilion, NY-Revised Report

Pace Project No.: 30365233

Method: EPA 9012B

Description: 9012B Cyanide, Total

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

Date: June 10, 2020

General Information:

9 samples were analyzed for EPA 9012B by Pace Analytical Services Greensburg. 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 9012B with any exceptions noted below.

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Additional Comments:

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



Groundwater & Environmental Services, Inc.

708 North Main Street, Suite 201 Blacksburg, VA 24060

T. 800.662.5067

December 9, 2020

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

RE: Data Usability Summary Report for National Grid- Ilion, East Ave.: Data Package Pace Analytical Job No. 30387068

Review has been completed for the data packages generated by Pace Analytical that pertain to monitoring well samples collected during the October 2020 sampling events at the National Grid Ilion, East Avenue site. Six aqueous samples, a matrix spike/matrix spike duplicate pair, a trip blank and a field duplicate were collected from the main site. These samples were processed for volatile organic compounds benzene, toluene, ethylbenzene and xylenes (BTEX), cyanide and polynuclear aromatic hydrocarbons (PAHs).

Analytical methodologies are those of the USEPA SW846 with additional requirements of the NYSDEC ASP.

Complete NYSDEC Category B deliverables were included in the laboratory data package and all information required for validation of the data is present. This usability report is generated from review of the summary form information, and review of associated QC raw data. The reported summary forms have been reviewed for application of validation qualifiers, using guidance from the National Grid generic QAPP, USEPA Region 2 validation SOPs, the USEPA National Functional Guidelines for Data Review, and professional judgment, as affects the usability of the data. The following items were reviewed:

- 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

All of the items were determined to be acceptable for the DUSR level review. In summary, sample results are usable.

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



Table 1 – Data Qualifications

Sample ID	Qualifier	Analyte	Reason for qualification
MW-02R-1020	J	Naphthalene	Field duplicate RPD exceeds criteria
MW-03-1020 MW-06-1020 MW-08R-1020	R	Naphthalene	Positive blank contamination

J: estimated detect with an unknown bias

R: data rejected

BTEX and TCL Volatiles by EPA 8260C/NYSDEC ASP

Sample holding times for groundwater and effluent samples and instrumental tune fragmentations were within acceptance ranges. Blanks were free of contamination. Surrogate and internal standard recoveries were within required limits. Calibrations standards show acceptable responses within analytical protocol and validation action limits. An MS/MSD was analyzed using MW-06 as the matrix. All QC elements associated with the MS/MSD fell within project criteria. The blind field duplicate correlations between MW-02R-1020 and the duplicate for analytical detections all fell within EPA criteria (<30%).

PAHs by EPA8270D/NYSDEC ASP

Holding times were met

The method blank associated with the 2020 data reported a positive concentration (0.13 μ g/L) of naphthalene. EPA guidance indicates that any organic analyte with a positive concentration less than five times the concentration found in an associated blank cannot be considered representative of the sampling location. For the October 2020 sampling event, **MW-03-1020**, **MW-06-1020**, and **MW-08R-1020** all reported concentrations that were less than five times the blank concentration. The naphthalene concentrations in these samples were considered unreliable, as they may not be representative of the sampling location, and the concentrations were qualified as rejected ("R").

Surrogate recoveries were within criteria.

The laboratory control spike recoveries and precision indicate the methods were within laboratory control.

An MS/MSD was analyzed using **MW-06** as the matrix for both the 2020 sampling event. The matrix spike/matrix spike duplicate recoveries and relative percent differences were within laboratory-provided limits.

The blind field duplicate correlations of **MW-03 2019** were not calculated, as there were no positive detections reported in the original or duplicate sample. The RPDs between **MW-02R 2020** and the duplicate for analytical detections all fell within EPA criteria (<30%).

Cvanide by EPA 9012B /NYSDEC ASP

Data Usability Report National Grid Ilion, East Avenue Site



Holding times were met. 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. An MS/MSDs were analyzed using samples unassociated with the site. The blind field duplicate correlations of **MW-02R** were within project criteria.

Data Package Completeness

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

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

Sincerely,

Bonnie Janowiak, Ph.D.

fartwick >

Senior Chemist



SAMPLE SUMMARY

Project: National Grid - Ilion, NY

Pace Project No.: 30387068

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30387068001	MW-02R-1020	Water	10/12/20 09:35	10/13/20 17:00
30387068002	MW-03-1020	Water	10/12/20 11:20	10/13/20 17:00
30387068003	MW-06-1021	Water	10/12/20 13:00	10/13/20 17:00
30387068004	MW-06-MS-1020	Water	10/12/20 13:00	10/13/20 17:00
30387068005	MW-06-MSD-1020	Water	10/12/20 13:00	10/13/20 17:00
30387068006	MW-07-1020	Water	10/12/20 12:05	10/13/20 17:00
30387068007	MW-08R-1020	Water	10/12/20 10:30	10/13/20 17:00
30387068008	MW-13-1020	Water	10/12/20 13:55	10/13/20 17:00
30387068009	FD-1020	Water	10/12/20 00:01	10/13/20 17:00
30387068010	Trip Blank	Water	10/12/20 00:01	10/13/20 17:00

REPORT OF LABORATORY ANALYSIS



Project: National Grid - Ilion, NY

Pace Project No.: 30387068

Method: EPA 8270D by SIM

Description: 8270D PAH SIM Reduced Volume

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

Date: October 19, 2020

General Information:

9 samples were analyzed for EPA 8270D by SIM by Pace Analytical Services Greensburg. 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.

Method Blank:

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

QC Batch: 418643

- B: Analyte was detected in the associated method blank.
 - BLANK for HBN 418643 [OEXT/423 (Lab ID: 2023739)
 - Naphthalene

Laboratory Control Spike:

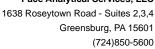
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

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

Additional Comments:

REPORT OF LABORATORY ANALYSIS





Project: National Grid - Ilion, NY

Pace Project No.: 30387068

Method: EPA 8260C Description: 8260C MSV

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

Date: October 19, 2020

General Information:

10 samples were analyzed for EPA 8260C by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

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

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Internal Standards:

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

Surrogates:

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

Method Blank:

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

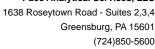
Laboratory Control Spike:

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

Matrix Spikes:

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

Additional Comments:





Project: National Grid - Ilion, NY

Pace Project No.: 30387068

Method: EPA 9012B

Description: 9012B Cyanide, Total

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

Date: October 19, 2020

General Information:

9 samples were analyzed for EPA 9012B by Pace Analytical Services Greensburg. 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 9012B 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: 418491

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30387068003,30387068009

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

- MS (Lab ID: 2022968)
 - Cvanide
- MSD (Lab ID: 2022969)
 - Cyanide

Additional Comments:

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