

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 10 King Street, Ogdensburg, New York

Annual Groundwater Monitoring Report

Dear Mr. Deyette:

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

Groundwater and Environmental Service, Inc., (GES) OM&M contractor for National Grid, conducts all long-term OM&M activities at the site. Semi-annual site inspections were conducted in 2020 (June, July, and October). The site is generally in good shape and in compliance. There were detection of BTEX and/or PAHs in all thirteen monitoring wells sampled.

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 Ogdensburg, Former MGP Site 10 King Street, Ogdensburg, NY 13669

December 2020

Version 1





# **Annual Groundwater Monitoring Report**

National Grid Ogdensburg, Former MGP Site 10 King Street Ogdensburg, NY 13669

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

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GES Project: 0603220.136690.221

Date:

December 16, 2020

Devin T. Shay, PG

Program Manager / Principal Hydrogeologist



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# 1 Introduction

This Semi-Annual Groundwater Monitoring Report presents results from the activities conducted at the Ogdensburg former manufactured gas plant (MGP) site (the site) located in Ogdensburg, New York (the Site). A site map is presented on Figure 1. The work summarized herein has been conducted in accordance with the approved Site Management Plan (SMP) for the site, dated September 26, 2018.

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 July 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 velocity, 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 New York State Department of Environmental Conservation (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 addended April 2000 and June 2004.

# 2.2 Groundwater Well Gauging

The July 14, 2020 and October 1, 2020 groundwater monitoring field activities were conducted by GES. Prior to collecting groundwater samples, static fluid level measurements were collected from MW-2(R), MW-5R(R), MW-8R, MW-9, MW-10R, MW-11, MW-12R, MW-14R, MW-15, MW-15RS, MW-17R, MW-19R, and MW-20R. 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. A shallow groundwater potentiometric surface contour map developed based on the groundwater elevation measurements taken on July 14, 2020, is included on Figure 2.

Groundwater generally flows to the north from the Site toward the St. Lawrence River. Groundwater elevations ranged from 248.40 feet above sea level (asl; well MW-15) to 256.42 feet asl (well MW-10R). 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 13 monitoring wells on July 14, 2020 and October 1, 2020 (including MW-2(R), MW-5R(R), MW-8R, MW-9, MW-10R, MW-11, MW-12R, MW-14R, MW-15, MW-15RS, MW-17R, MW-19R, and MW-20R). 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 Figure 3. The Data Usability Summary Report (DUSR) is included in Appendix C.

There were BTEX and/or PAH detections in all the monitoring wells sampled during the July and October 2020 sampling event. In July 2020, BTEX, acenapthene, benzo(a)anthracene, benzo(k)fluoranthene, benzo(b)fluoranthene. chrysene, indeno(1,2,3-cd)pyrene, naphthalene were detected above the regulatory criteria in one or more samples. Cyanide was detected in monitoring wells MW-2(R), MW-5R(R), MW-8R, MW-9, MW-10R, MW-11, MW-12R, MW-15, and MW-15RS during the July 2020 event. In October 2020, BTEX, benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, indeno(1,2,3-cd)pyrene, naphthalene were detected above the regulatory criteria in one or more samples. Cyanide was detected in monitoring wells MW-2(R), MW-5R(R), MW-8R, MW-9, MW-10R, MW-11, MW-12R, and MW-15RS in October 2020.



# 3 Semi-Annual Site-Wide Inspections

The semi-annual site-wide inspections were conducted on June 23, July 14, and October 1, 2020. The Site Inspection Forms are presented in Appendix A. In general, the Site is in compliance.

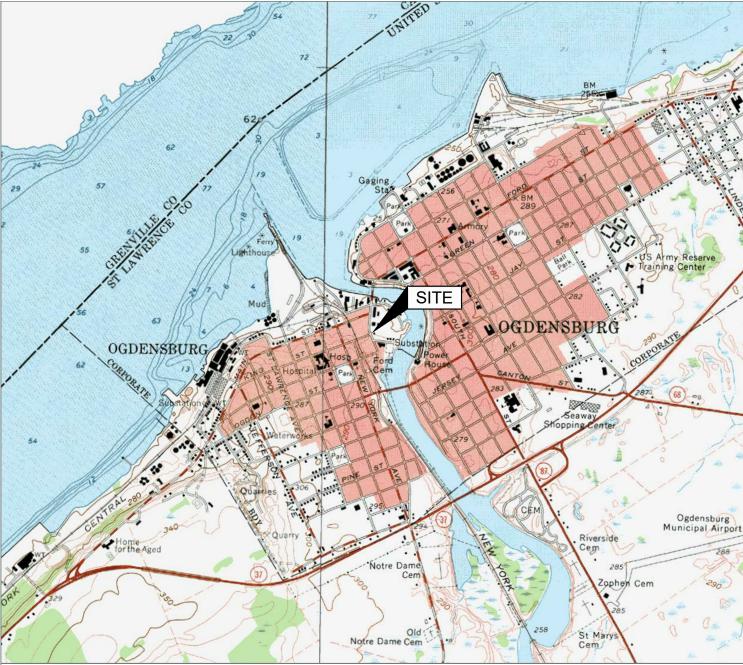
# 4 Recommendations

# 4.1 Recommendations

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



# **Figures**

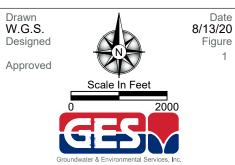


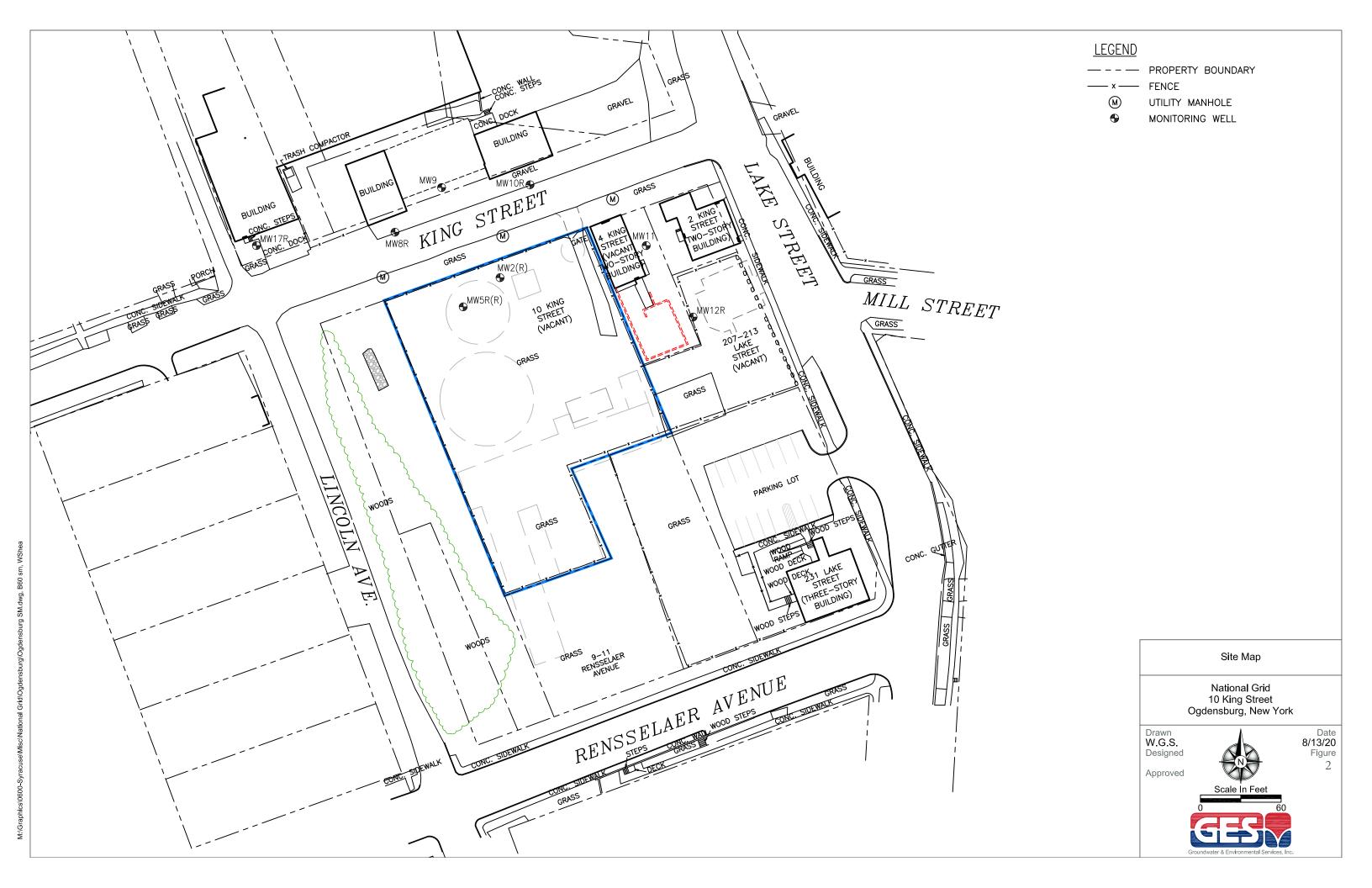
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USGS 7.5 Minute Series
Topographic Quadrangle, 1963
Ogdensburg East, New York
Contour Interval = 10'

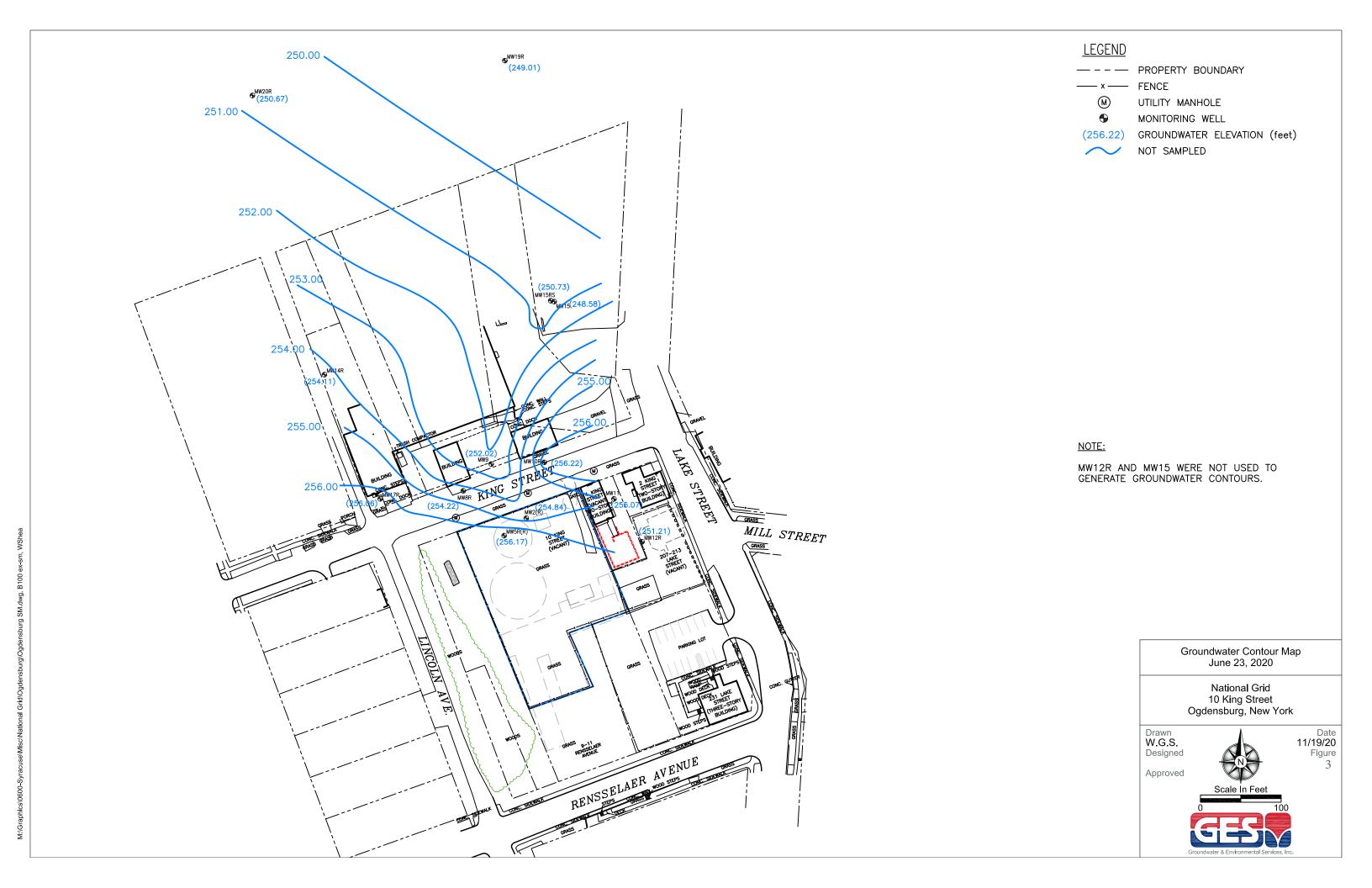


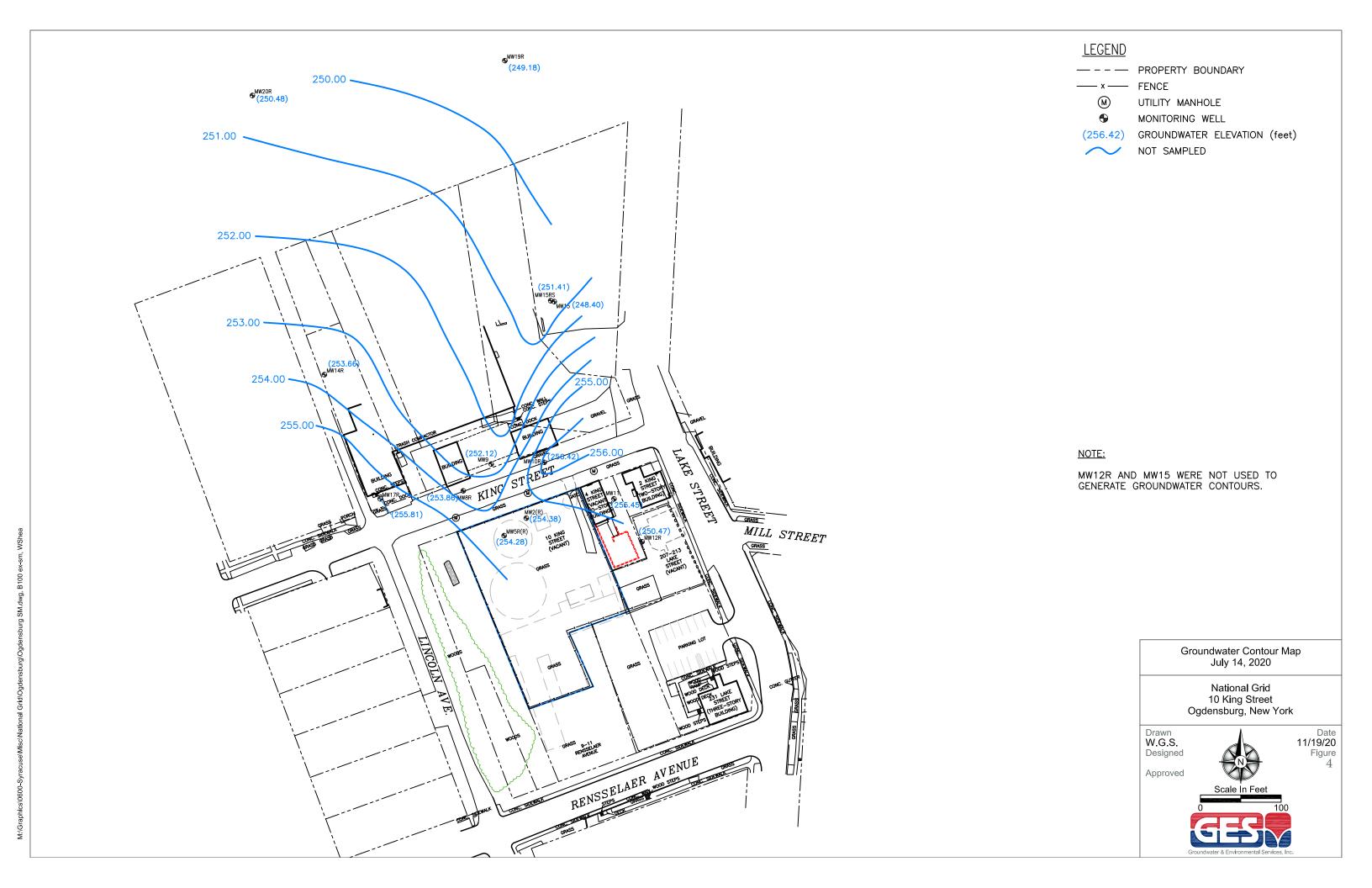
# Site Location Map

National Grid 10 King Street Ogdensburg, New York

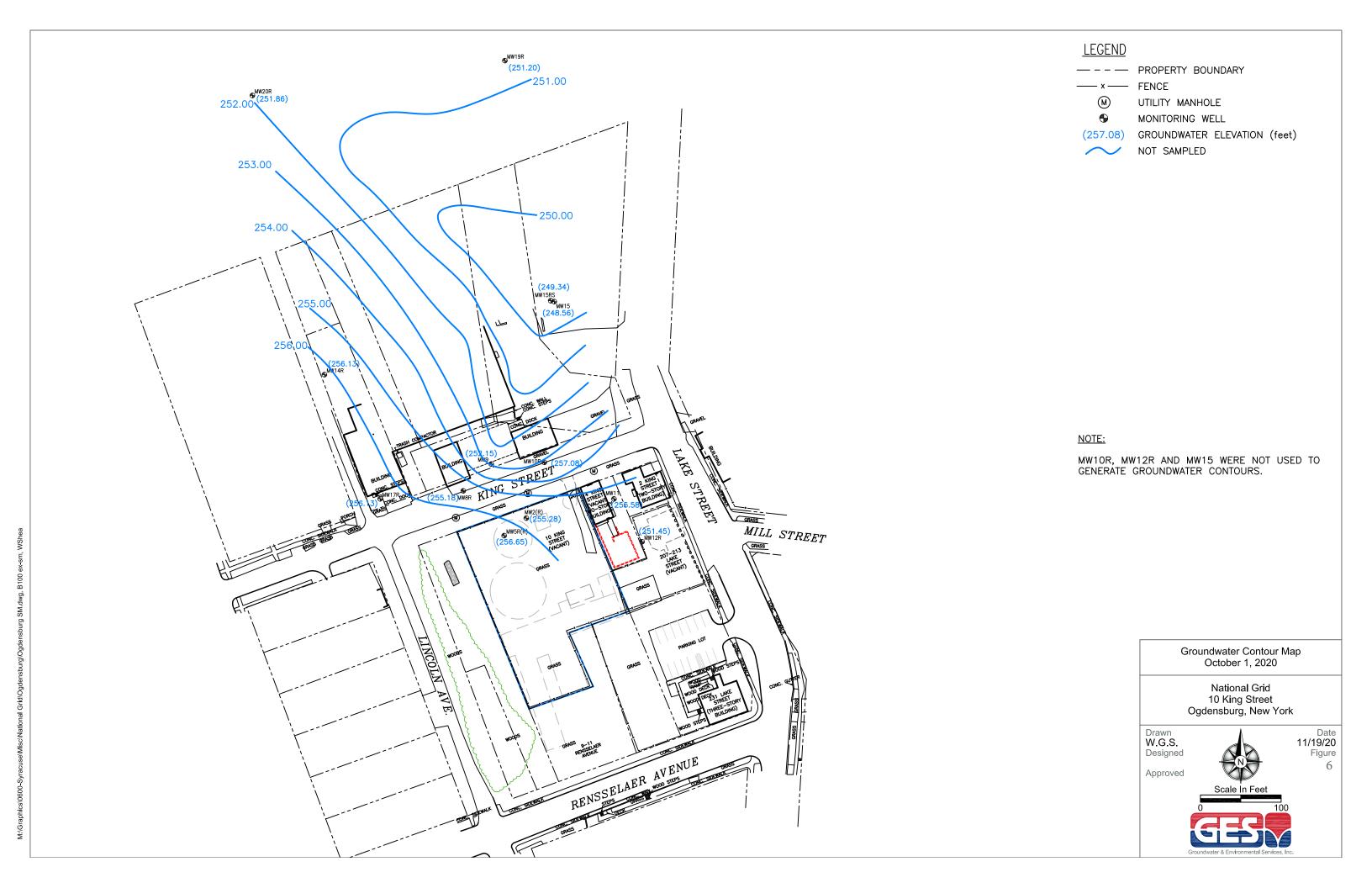














Annual Groundwater Monitoring Report National Grid Ogdensburg Former MGP Site 10 King Street, Ogdensburg, New York



# **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 (06/23/20)	Groundwater Elevation (06/23/20)	Depth To Water (07/14/20)	Groundwater Elevation (07/14/20)	Depth To Water (10/01/20)	Groundwater Elevation (10/01/20)
MW-2(R)	Flushmount; PVC; 2-inch	259.20	6.35	252.85	4.00 - 7.00	4.36	254.84	4.82	254.38	3.92	255.28
MW-5R(R)	Flushmount; PVC; 2-inch	259.40	24.30	235.10	13.00 - 23.00	3.23	256.17	5.12	254.28	2.75	256.65
MW-8R	Flushmount; PVC; 2-inch	257.38	20.92	236.46	11.00 - 21.00	3.16	254.22	3.52	253.86	2.20	255.18
MW-9	Flushmount; PVC; 2-inch	257.00	6.35	250.65	3.00 - 7.00	4.98	252.02	4.88	252.12	4.85	252.15
MW-10R	Flushmount; PVC; 2-inch	257.58	22.50	235.08	11.75 - 21.75	1.36	256.22	1.16	256.42	0.50	257.08
MW-11	Flushmount; PVC; 2-inch	259.07	6.51	252.56	3.10 - 7.10	4.00	255.07	3.62	255.45	3.49	255.58
MW-12R	Flushmount; PVC; 2-inch	260.79	21.40	239.39	10.00 - 20.00	9.58	251.21	10.32	250.47	9.34	251.45
MW-14R	Flushmount; PVC; 2-inch	256.13	50.80	205.33	39.00 - 49.00	2.02	254.11	2.47	253.66	0.00	256.13
MW-15	Flushmount; PVC; 2-inch	256.62	9.04	247.58	4.50 - 9.50	8.04	248.58	8.22	248.40	8.06	248.56
MW-15RS	Flushmount; PVC; 2-inch	257.74	23.65	234.09	14.00 - 24.00	7.01	250.73	7.33	250.41	8.40	249.34
MW-17R	Flushmount; PVC; 2-inch	263.29	26.90	236.39	14.86 - 24.86	7.23	256.06	7.48	255.81	7.16	256.13
MW-19R	Flushmount; PVC; 2-inch	255.52	38.05	217.47	28.52 - 38.52	6.51	249.01	6.34	249.18	4.32	251.20
MW-20R	Flushmount; PVC; 2-inch	251.86	28.40	223.46	18.20 - 28.20	1.19	250.67	1.38	250.48	0.00	251.86



Table 2

MW-2(R)

	NYSDEC TOGS 1.1.1 Guidance Values	Units	09/23/14	10/20/17	07/14/20	10/01/20
ВТЕХ						
Benzene	1	μg/L	61	120	55.4	44.3
Ethylbenzene	5	μg/L	ND	3	1.5	1.6
Toluene	5	μg/L	29	44	22.4	19.4
Total Xylenes	5	μg/L	23	36	20.7	17.8
SVOCs						
Acenaphthene	20	μg/L	1.8 J	4 J	3.5	3.0
Acenaphthylene		μg/L	7.7	18	16.2	12.6
Anthracene	50	μg/L	1.7 J	3 J	2.6	1.8
Benzo(a)anthracene	0.002	μg/L	3.3	ND	0.13	0.37
Benzo(a)pyrene	ND	μg/L	2.8	ND	ND	0.38
Benzo(b)fluoranthene	0.002	μg/L	3.5	ND	ND	0.50
Benzo(g,h,i)perylene		μg/L	1.6 J	ND	ND	0.23
Benzo(k)fluoranthene	0.002	μg/L	1.4 J	ND	ND	0.17
Chrysene	0.002	μg/L	2.6	ND	ND	0.29
Dibenz(a,h)anthracene		μg/L	ND	ND	ND	ND
Fluoranthene	50	μg/L	6.9	ND	1.2	1.3
Fluorene	50	μg/L	2.3	7	6.2	5.2
Indeno(1,2,3-cd)pyrene	0.002	μg/L	1.4 J	ND	ND	0.23
2-Methylnapthalene		μg/L	5.8	20	17.9	17.1
Naphthalene	10	μg/L	120	270	210	270
Phenanthrene	50	μg/L	4.1	6	5.0	4.1
Pyrene	50	μg/L	5.4	ND	0.74	0.92
Inorganics						
Cyanide, Total	200	μg/L	900	530	240	4100

#### Notes:

Results are presented in units of micrograms per liter ( $\mu g/L$ ).

E = Results exceeded calibration range

D = Compound quantitated using a secondary dilution

J = Analyte was detected at a concentration less than the laboratory reporting limit

ND (<#) = Not detected above laboratory reporting limit. # represents the laboratory reporting limit.



Table 2

MW-5R(R)

	NYSDEC TOGS 1.1.1 Guidance Values	Units	09/22/14	10/20/17	07/14/20	10/01/20
втех						
Benzene	1	μg/L	130	440	392	354
Ethylbenzene	5	μg/L	7.0	26	27.3	24.3
Toluene	5	μg/L	3.0	70	82.6	65.0
Total Xylenes	5	μg/L	6.4	53	78.9	58.7
SVOCs						
Acenaphthene	20	μg/L	9.8	71	44.9	38.8
Acenaphthylene		μg/L	6.6	40	31.9	24.6
Anthracene	50	μg/L	0.50 J	8	4.9	3.1
Benzo(a)anthracene	0.002	μg/L	ND	ND	0.11	ND
Benzo(a)pyrene	ND	μg/L	ND	ND	ND	ND
Benzo(b)fluoranthene	0.002	μg/L	ND	ND	ND	ND
Benzo(g,h,i)perylene		μg/L	ND	ND	ND	ND
Benzo(k)fluoranthene	0.002	μg/L	ND	ND	ND	ND
Chrysene	0.002	μg/L	ND	ND	ND	ND
Dibenz(a,h)anthracene		μg/L	ND	ND	ND	ND
Fluoranthene	50	μg/L	ND	6	4.2	2.4
Fluorene	50	μg/L	4.7	48	28.4	23.8
Indeno(1,2,3-cd)pyrene	0.002	μg/L	ND	ND	ND	ND
2-Methylnapthalene		μg/L	ND	6	10.3	7.9
Naphthalene	10	μg/L	4.1	210	248	315
Phenanthrene	50	μg/L	2.6	41	25.2	20.7
Pyrene	50	μg/L	ND	5	3.5	2.1
Inorganics						
Cyanide, Total	200	μg/L	10	55	55	49

#### Notes:

Results are presented in units of micrograms per liter ( $\mu g/L$ ).

E = Results exceeded calibration range

D = Compound quantitated using a secondary dilution

J = Analyte was detected at a concentration less than the laboratory reporting limit

ND (<#) = Not detected above laboratory reporting limit. # represents the laboratory reporting limit.



#### Table 2

# **Groundwater Analytical Data**

#### MW-8R

	NYSDEC TOGS 1.1.1 Guidance Values	Units	09/24/14	10/19/17	07/14/20	10/01/20
втех						
Benzene	1	μg/L	550	800	1,300	576
Ethylbenzene	5	μg/L	13	14	66.2	13.6
Toluene	5	μg/L	10	20	75.2	9.2
Total Xylenes	5	μg/L	19	27	132	18.0
SVOCs						
Acenaphthene	20	μg/L	5.6	10	16.2	7.6
Acenaphthylene		μg/L	6.7	10	23.4	5.4
Anthracene	50	μg/L	0.94 J	0.9	2.9	0.68
Benzo(a)anthracene	0.002	μg/L	ND	ND	0.48	0.48
Benzo(a)pyrene	ND	μg/L	ND	ND	0.28	0.36
Benzo(b)fluoranthene	0.002	μg/L	ND	ND	0.31	0.38
Benzo(g,h,i)perylene		μg/L	ND	ND	0.10	0.13
Benzo(k)fluoranthene	0.002	μg/L	ND	ND	0.10	0.18
Chrysene	0.002	μg/L	0.39 J	ND	0.28	0.32
Dibenz(a,h)anthracene		μg/L	ND	ND	ND	ND
Fluoranthene	50	μg/L	1.5 J	0.7	2.5	1.2
Fluorene	50	μg/L	4.40	7	15.6	4.5
Indeno(1,2,3-cd)pyrene	0.002	μg/L	ND	ND	0.10	0.14
2-Methylnapthalene		μg/L	3.7	3	15.0	2.5
Naphthalene	10	μg/L	33	51	333	37.9
Phenanthrene	50	μg/L	2.7	2	9.2	1.7
Pyrene	50	μg/L	1.1 J	0.5	1.8	0.97
Inorganics						
Cyanide, Total	200	μg/L	59	320	54	58

#### Notes:

Results are presented in units of micrograms per liter ( $\mu g/L$ ).

E = Results exceeded calibration range

D = Compound quantitated using a secondary dilution

J = Analyte was detected at a concentration less than the laboratory reporting limit

ND (<#) = Not detected above laboratory reporting limit. # represents the laboratory reporting limit.



Table 2

MW-9

	NYSDEC TOGS 1.1.1 Guidance Values	Units	09/24/14	10/19/17	07/14/20	10/01/20
втех						
Benzene	1	μg/L	280	340	283	228
Ethylbenzene	5	μg/L	120	140	112	107
Toluene	5	μg/L	170	85	50.8	16.3
Total Xylenes	5	μg/L	250	180	91.7	52.1
SVOCs						
Acenaphthene	20	μg/L	76	48	30.2	55.5
Acenaphthylene		μg/L	29	17	8.6	11.0
Anthracene	50	μg/L	11	8	2.6	11.4
Benzo(a)anthracene	0.002	μg/L	ND	2	0.21	5.80
Benzo(a)pyrene	ND	μg/L	ND	1	ND	4.4
Benzo(b)fluoranthene	0.002	μg/L	ND	1	ND	4.8
Benzo(g,h,i)perylene		μg/L	ND	0.4 J	ND	1.5
Benzo(k)fluoranthene	0.002	μg/L	ND	0.5 J	ND	1.8
Chrysene	0.002	μg/L	ND	1	0.13	4.30
Dibenz(a,h)anthracene		μg/L	ND	0.2 J	ND	0.46
Fluoranthene	50	μg/L	6.0	8	2.2	19.2
Fluorene	50	μg/L	56	38	19.0	36.1
Indeno(1,2,3-cd)pyrene	0.002	μg/L	ND	1	ND	1.5
2-Methylnapthalene		μg/L	14	1	ND	ND
Naphthalene	10	μg/L	450	72	18.1	9.1
Phenanthrene	50	μg/L	51	36	9.7	25.2
Pyrene	50	μg/L	3.5	5	1.2	12.7
Inorganics						
Cyanide, Total	200	μg/L	410	1,300	1,000	1,500

#### Notes:

Results are presented in units of micrograms per liter ( $\mu g/L$ ).

E = Results exceeded calibration range

D = Compound quantitated using a secondary dilution

J = Analyte was detected at a concentration less than the laboratory reporting limit

ND (<#) = Not detected above laboratory reporting limit. # represents the laboratory reporting limit.



Table 2

MW-10R

	NYSDEC TOGS 1.1.1 Guidance Values	Units	09/23/14	10/19/17	07/14/20	10/01/20
втех						
Benzene	1	μg/L	1,700 J	1,400	1,360	1,540
Ethylbenzene	5	μg/L	25 J	100	122	124
Toluene	5	μg/L	3.1	94	230	201
Total Xylenes	5	μg/L	15	65	161	150
SVOCs						
Acenaphthene	20	μg/L	9.6	24	16.8	25.3
Acenaphthylene		μg/L	6.0	23	22.7	27.5
Anthracene	50	μg/L	ND	0.5	0.80	0.89
Benzo(a)anthracene	0.002	μg/L	ND	ND	ND	ND
Benzo(a)pyrene	ND	μg/L	ND	ND	ND	ND
Benzo(b)fluoranthene	0.002	μg/L	ND	ND	ND	ND
Benzo(g,h,i)perylene		μg/L	ND	ND	ND	ND
Benzo(k)fluoranthene	0.002	μg/L	ND	ND	ND	ND
Chrysene	0.002	μg/L	ND	ND	ND	ND
Dibenz(a,h)anthracene		μg/L	ND	ND	ND	ND
Fluoranthene	50	μg/L	ND	ND	0.11	0.11
Fluorene	50	μg/L	3.9	11	8.1	11.4
Indeno(1,2,3-cd)pyrene	0.002	μg/L	ND	ND	ND	ND
2-Methylnapthalene		μg/L	ND	1	3.6	4.8
Naphthalene	10	μg/L	20 J	140	296	486
Phenanthrene	50	μg/L	1.3 J	2	1.6	2.4
Pyrene	50	μg/L	ND	ND	ND	ND
Inorganics						
Cyanide, Total	200	μg/L	420	190	63	62

#### Notes:

Results are presented in units of micrograms per liter ( $\mu g/L$ ).

E = Results exceeded calibration range

D = Compound quantitated using a secondary dilution

J = Analyte was detected at a concentration less than the laboratory reporting limit

ND (<#) = Not detected above laboratory reporting limit. # represents the laboratory reporting limit.



#### Table 2

# **Groundwater Analytical Data**

MW-11

	NYSDEC TOGS 1.1.1 Guidance Values	Units	09/25/14	10/18/17	07/14/20	10/01/20
втех						
Benzene	1	μg/L	ND	ND	ND	ND
Ethylbenzene	5	μg/L	ND	ND	ND	ND
Toluene	5	μg/L	ND	ND	ND	ND
Total Xylenes	5	μg/L	ND	ND	ND	ND
SVOCs						
Acenaphthene	20	μg/L	ND	ND	ND	ND
Acenaphthylene		μg/L	ND	ND	ND	ND
Anthracene	50	μg/L	ND	ND	ND	ND
Benzo(a)anthracene	0.002	μg/L	ND	ND	0.11	ND
Benzo(a)pyrene	ND	μg/L	ND	ND	0.14	ND
Benzo(b)fluoranthene	0.002	μg/L	ND	ND	0.13	ND
Benzo(g,h,i)perylene		μg/L	ND	ND	ND	ND
Benzo(k)fluoranthene	0.002	μg/L	ND	ND	ND	ND
Chrysene	0.002	μg/L	ND	ND	ND	ND
Dibenz(a,h)anthracene		μg/L	ND	ND	ND	ND
Fluoranthene	50	μg/L	ND	ND	ND	ND
Fluorene	50	μg/L	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	0.002	μg/L	ND	ND	ND	ND
2-Methylnapthalene		μg/L	ND	ND	0.19	ND
Naphthalene	10	μg/L	ND	ND	0.87	0.36
Phenanthrene	50	μg/L	ND	ND	ND	ND
Pyrene	50	μg/L	ND	ND	ND	ND
Inorganics						
Cyanide, Total	200	μg/L	250	310	160	270

#### Notes

Results are presented in units of micrograms per liter (µg/L).

E = Results exceeded calibration range

D = Compound quantitated using a secondary dilution

J = Analyte was detected at a concentration less than the laboratory reporting limit

ND (<#) = Not detected above laboratory reporting limit. # represents the laboratory reporting limit.



Table 2

MW-12R

	NYSDEC TOGS 1.1.1 Guidance Values	Units	09/24/14	10/18/17	07/14/20	10/01/20
втех						
Benzene	1	μg/L	2,600	2,900	1,420	2,440
Ethylbenzene	5	μg/L	130	110	67.6	86.7
Toluene	5	μg/L	7.4	15	5.8	13.8
Total Xylenes	5	μg/L	49	83	27.8	58.1
SVOCs						
Acenaphthene	20	μg/L	3.4	4	104	1.2
Acenaphthylene		μg/L	4.8	7	1.9	1.5
Anthracene	50	μg/L	ND	ND	ND	0.098
Benzo(a)anthracene	0.002	μg/L	ND	ND	ND	ND
Benzo(a)pyrene	ND	μg/L	ND	ND	ND	ND
Benzo(b)fluoranthene	0.002	μg/L	ND	ND	ND	ND
Benzo(g,h,i)perylene		μg/L	ND	ND	ND	ND
Benzo(k)fluoranthene	0.002	μg/L	ND	ND	ND	ND
Chrysene	0.002	μg/L	ND	ND	ND	ND
Dibenz(a,h)anthracene		μg/L	ND	ND	ND	ND
Fluoranthene	50	μg/L	ND	ND	ND	ND
Fluorene	50	μg/L	ND	0.3 J	0.24	0.2
Indeno(1,2,3-cd)pyrene	0.002	μg/L	ND	ND	ND	ND
2-Methylnapthalene		μg/L	ND	ND	ND	ND
Naphthalene	10	μg/L	31	92	6.1	19.7
Phenanthrene	50	μg/L	ND	ND	ND	ND
Pyrene	50	μg/L	ND	ND	ND	ND
Inorganics						
Cyanide, Total	200	μg/L	190	37	62	33

#### Notes:

Results are presented in units of micrograms per liter ( $\mu g/L$ ).

E = Results exceeded calibration range

D = Compound quantitated using a secondary dilution

J = Analyte was detected at a concentration less than the laboratory reporting limit

ND (<#) = Not detected above laboratory reporting limit. # represents the laboratory reporting limit.



Table 2

MW-14R

	NYSDEC TOGS 1.1.1 Guidance Values	Units	09/25/14	10/18/17	07/14/20	10/01/20
втех						
Benzene	1	μg/L	3.0	48	1.0	ND
Ethylbenzene	5	μg/L	ND	ND	ND	ND
Toluene	5	μg/L	ND	ND	ND	ND
Total Xylenes	5	μg/L	ND	ND	ND	ND
SVOCs						
Acenaphthene	20	μg/L	ND	ND	0.12	ND
Acenaphthylene		μg/L	ND	ND	ND	ND
Anthracene	50	μg/L	ND	ND	ND	ND
Benzo(a)anthracene	0.002	μg/L	ND	ND	ND	ND
Benzo(a)pyrene	ND	μg/L	ND	ND	ND	ND
Benzo(b)fluoranthene	0.002	μg/L	ND	ND	ND	ND
Benzo(g,h,i)perylene		μg/L	ND	ND	ND	ND
Benzo(k)fluoranthene	0.002	μg/L	ND	ND	ND	ND
Chrysene	0.002	μg/L	ND	ND	ND	ND
Dibenz(a,h)anthracene		μg/L	ND	ND	ND	ND
Fluoranthene	50	μg/L	ND	ND	ND	ND
Fluorene	50	μg/L	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	0.002	μg/L	ND	ND	ND	ND
2-Methylnapthalene		μg/L	ND	ND	0.14	ND
Naphthalene	10	μg/L	ND	ND	0.96	ND
Phenanthrene	50	μg/L	ND	ND	ND	ND
Pyrene	50	μg/L	ND	ND	ND	ND
Inorganics						
Cyanide, Total	200	μg/L	ND	ND	ND	ND

#### Notes:

Results are presented in units of micrograms per liter (µg/L).

E = Results exceeded calibration range

D = Compound quantitated using a secondary dilution

J = Analyte was detected at a concentration less than the laboratory reporting limit

ND (<#) = Not detected above laboratory reporting limit. # represents the laboratory reporting limit.



#### Table 2

# **Groundwater Analytical Data**

MW-15

	NYSDEC TOGS 1.1.1 Guidance Values	Units	09/24/14	10/19/17	07/14/20	10/01/20
ВТЕХ						
Benzene	1	μg/L	ND	ND	ND	ND
Ethylbenzene	5	μg/L	ND	ND	ND	ND
Toluene	5	μg/L	ND	ND	ND	ND
Total Xylenes	5	μg/L	ND	ND	ND	ND
SVOCs						
Acenaphthene	20	μg/L	ND	ND	0.15	ND
Acenaphthylene		μg/L	ND	ND	0.18	ND
Anthracene	50	μg/L	ND	ND	0.12	ND
Benzo(a)anthracene	0.002	μg/L	ND	ND	0.28	ND
Benzo(a)pyrene	ND	μg/L	ND	0.2 J	0.27	ND
Benzo(b)fluoranthene	0.002	μg/L	ND	0.2 J	0.29	ND
Benzo(g,h,i)perylene		μg/L	ND	0.2 J	0.13	ND
Benzo(k)fluoranthene	0.002	μg/L	ND	ND	0.11	ND
Chrysene	0.002	μg/L	ND	ND	0.19	ND
Dibenz(a,h)anthracene		μg/L	ND	0.2 J	ND	ND
Fluoranthene	50	μg/L	ND	ND	0.45	ND
Fluorene	50	μg/L	ND	0.3 J	0.13	ND
Indeno(1,2,3-cd)pyrene	0.002	μg/L	ND	ND	0.12	ND
2-Methylnapthalene		μg/L	ND	ND	0.2	ND
Naphthalene	10	μg/L	ND	ND	1.0	0.27
Phenanthrene	50	μg/L	ND	0.1 J	0.28	ND
Pyrene	50	μg/L	0.35 J	0.3 J	0.4	ND
Inorganics						
Cyanide, Total	200	μg/L	ND	ND	15	ND

#### Notes:

Results are presented in units of micrograms per liter ( $\mu g/L$ ).

E = Results exceeded calibration range

D = Compound quantitated using a secondary dilution

J = Analyte was detected at a concentration less than the laboratory reporting limit

ND (<#) = Not detected above laboratory reporting limit. # represents the laboratory reporting limit.



#### Table 2

# **Groundwater Analytical Data**

MW-15RS

	NYSDEC TOGS 1.1.1 Guidance Values	Units	09/22/14	10/19/17	07/14/20	10/01/20
втех						
Benzene	1	μg/L	750	170	4.8	9.7
Ethylbenzene	5	μg/L	ND	ND	ND	ND
Toluene	5	μg/L	0.54 J	ND	ND	ND
Total Xylenes	5	μg/L	ND	ND	ND	ND
SVOCs						
Acenaphthene	20	μg/L	ND	ND	ND	ND
Acenaphthylene		μg/L	ND	ND	ND	ND
Anthracene	50	μg/L	ND	ND	ND	ND
Benzo(a)anthracene	0.002	μg/L	ND	ND	ND	ND
Benzo(a)pyrene	ND	μg/L	ND	ND	ND	ND
Benzo(b)fluoranthene	0.002	μg/L	ND	ND	ND	ND
Benzo(g,h,i)perylene		μg/L	ND	ND	ND	ND
Benzo(k)fluoranthene	0.002	μg/L	ND	ND	ND	ND
Chrysene	0.002	μg/L	ND	ND	ND	ND
Dibenz(a,h)anthracene		μg/L	ND	ND	ND	ND
Fluoranthene	50	μg/L	ND	ND	ND	ND
Fluorene	50	μg/L	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	0.002	μg/L	ND	ND	ND	ND
2-Methylnapthalene		μg/L	ND	ND	0.14	ND
Naphthalene	10	μg/L	ND	ND	0.85	0.52
Phenanthrene	50	μg/L	ND	ND	ND	ND
Pyrene	50	μg/L	ND	ND	ND	ND
Inorganics						
Cyanide, Total	200	μg/L	160	64	67	41

#### Notes:

Results are presented in units of micrograms per liter ( $\mu g/L$ ).

E = Results exceeded calibration range

D = Compound quantitated using a secondary dilution

J = Analyte was detected at a concentration less than the laboratory reporting limit

ND (<#) = Not detected above laboratory reporting limit. # represents the laboratory reporting limit.



Table 2

MW-17R

	NYSDEC TOGS 1.1.1 Guidance Values	Units	09/25/14	10/18/17	07/14/20	10/01/20
втех						
Benzene	1	μg/L	ND	ND	ND	ND
Ethylbenzene	5	μg/L	ND	ND	ND	ND
Toluene	5	μg/L	ND	ND	ND	ND
Total Xylenes	5	μg/L	ND	ND	ND	ND
SVOCs						
Acenaphthene	20	μg/L	ND	ND	ND	ND
Acenaphthylene		μg/L	ND	ND	ND	ND
Anthracene	50	μg/L	ND	ND	ND	ND
Benzo(a)anthracene	0.002	μg/L	ND	ND	ND	ND
Benzo(a)pyrene	ND	μg/L	ND	ND	ND	ND
Benzo(b)fluoranthene	0.002	μg/L	ND	ND	ND	ND
Benzo(g,h,i)perylene		μg/L	ND	ND	ND	ND
Benzo(k)fluoranthene	0.002	μg/L	ND	ND	ND	ND
Chrysene	0.002	μg/L	ND	ND	ND	ND
Dibenz(a,h)anthracene		μg/L	ND	ND	ND	ND
Fluoranthene	50	μg/L	ND	ND	ND	ND
Fluorene	50	μg/L	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	0.002	μg/L	ND	ND	ND	ND
2-Methylnapthalene		μg/L	ND	ND	ND	ND
Naphthalene	10	μg/L	ND	ND	0.13	0.37
Phenanthrene	50	μg/L	ND	ND	ND	ND
Pyrene	50	μg/L	ND	ND	ND	ND
Inorganics						
Cyanide, Total	200	μg/L	ND	ND	ND	ND

#### Notes:

Results are presented in units of micrograms per liter (µg/L).

E = Results exceeded calibration range

D = Compound quantitated using a secondary dilution

J = Analyte was detected at a concentration less than the laboratory reporting limit

ND (<#) = Not detected above laboratory reporting limit. # represents the laboratory reporting limit.



Table 2

MW-17R

	NYSDEC TOGS 1.1.1 Guidance Values	Units	09/25/14	10/18/17	07/14/20	10/01/20
втех						
Benzene	1	μg/L	ND	ND	ND	ND
Ethylbenzene	5	μg/L	ND	ND	ND	ND
Toluene	5	μg/L	ND	ND	ND	ND
Total Xylenes	5	μg/L	ND	ND	ND	ND
SVOCs						
Acenaphthene	20	μg/L	ND	ND	ND	ND
Acenaphthylene		μg/L	ND	ND	ND	ND
Anthracene	50	μg/L	ND	ND	ND	ND
Benzo(a)anthracene	0.002	μg/L	ND	ND	ND	ND
Benzo(a)pyrene	ND	μg/L	ND	ND	ND	ND
Benzo(b)fluoranthene	0.002	μg/L	ND	ND	ND	ND
Benzo(g,h,i)perylene		μg/L	ND	ND	ND	ND
Benzo(k)fluoranthene	0.002	μg/L	ND	ND	ND	ND
Chrysene	0.002	μg/L	ND	ND	ND	ND
Dibenz(a,h)anthracene		μg/L	ND	ND	ND	ND
Fluoranthene	50	μg/L	ND	ND	ND	ND
Fluorene	50	μg/L	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	0.002	μg/L	ND	ND	ND	ND
2-Methylnapthalene		μg/L	ND	ND	ND	ND
Naphthalene	10	μg/L	ND	ND	0.30	0.12
Phenanthrene	50	μg/L	ND	ND	ND	ND
Pyrene	50	μg/L	ND	ND	ND	ND
Inorganics						
Cyanide, Total	200	μg/L	ND	ND	ND	ND

#### Notes:

Results are presented in units of micrograms per liter ( $\mu g/L$ ).

E = Results exceeded calibration range

D = Compound quantitated using a secondary dilution

J = Analyte was detected at a concentration less than the laboratory reporting limit

ND (<#) = Not detected above laboratory reporting limit. # represents the laboratory reporting limit.



Table 2

#### MW-20R

	NYSDEC TOGS 1.1.1 Guidance Values	Units	09/25/14	10/18/17	07/14/20	10/01/20
втех						
Benzene	1	μg/L	ND	ND	ND	ND
Ethylbenzene	5	μg/L	ND	ND	ND	ND
Toluene	5	μg/L	ND	ND	ND	ND
Total Xylenes	5	μg/L	ND	ND	ND	ND
SVOCs						
Acenaphthene	20	μg/L	ND	ND	ND	ND
Acenaphthylene		μg/L	ND	ND	ND	ND
Anthracene	50	μg/L	ND	ND	ND	ND
Benzo(a)anthracene	0.002	μg/L	ND	ND	ND	ND
Benzo(a)pyrene	ND	μg/L	ND	ND	ND	ND
Benzo(b)fluoranthene	0.002	μg/L	ND	ND	ND	ND
Benzo(g,h,i)perylene		μg/L	ND	ND	ND	ND
Benzo(k)fluoranthene	0.002	μg/L	ND	ND	ND	ND
Chrysene	0.002	μg/L	ND	ND	ND	ND
Dibenz(a,h)anthracene		μg/L	ND	ND	ND	ND
Fluoranthene	50	μg/L	ND	ND	ND	ND
Fluorene	50	μg/L	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	0.002	μg/L	ND	ND	ND	ND
2-Methylnapthalene		μg/L	ND	ND	0.14	ND
Naphthalene	10	μg/L	ND	ND	0.89	0.21
Phenanthrene	50	μg/L	ND	ND	ND	ND
Pyrene	50	μg/L	ND	ND	ND	ND
Inorganics						
Cyanide, Total	200	μg/L	ND	ND	ND	ND

#### Notes:

Results are presented in units of micrograms per liter ( $\mu g/L$ ).

E = Results exceeded calibration range

D = Compound quantitated using a secondary dilution

J = Analyte was detected at a concentration less than the laboratory reporting limit

ND (<#) = Not detected above laboratory reporting limit. # represents the laboratory reporting limit.



# **Appendix A – Field Inspection Reports**

# Site Management Plan Inspection Form Ogdensburg (King Street) Non-Owned Former MGP Site Ogdensburg, New York

Date:	10/1/2020	Ogdensburg, New York	Time:	8:30
Technician:	KL	NYSDEC Site No. V00479	Weather:	Cloudy 53

Site Wide					
Any repairs, maintenace or corrective actions since the last inspection?	YES	NO	COMMENTS:		
Are the requirements of the Site Management Plan being met?	YES	NO	COMMENTS:		
Any signs/evidence of use of the Site in a manner inconsistent with the deed restriction?	YES	NO	COMMENTS:		

Site Wide - SLG Responsible to Maintain					
Perimeter Fence and Gates intact?	YES	NO	COMMENTS:		
Have the lawns been mowed?	YES	NO	COMMENTS:		

Soil Cover System						
Any signs of ground-intrusive activities?	YES	NO	COMMENTS:			
Any soil disturbance regardless of quantity/extent?	YES	NO	COMMENTS:			
Any surface erosion?	YES	NO	COMMENTS:			
Any settlement?	YES	NO	COMMENTS:			
Bare or sparsely-vegetated areas?	YES	NO	COMMENTS:			
Any other conditions affecting the thickness or the integrity of the soil cover system?	YES	NO	COMMENTS:			

NG Owned Property on Lake Street - Not part of the SMP							
Any repairs, maintenace or corrective actions since the last inspection?	YES N		NO	COMMENTS:			
Have the lawns been mowed?	YES			NO	COMMENTS:		
Conditon of the sidewalks?	GOOD	FA	NR.	POOR	COMMENTS:		
Condition of the site trees?	GOOD	F/	ΝIR	POOR	COMMENTS:		
Are the boulders in place?	YES			NO	COMMENTS:		

Miscellaneous						
Evidence of Trespassing	YES		NO		COMMENTS:	
Litter	NONE	MIN	IOR	SIGNIFICANT	COMMENTS:	

Site Monitoring Wells					
Well ID.	Location Secure				
MW-2(R)	YES	NO			
MW-5R(R)	YES	NO			
MW-8R	YES	NO			
MW-9	YES	NO			
MW-10R	YES	NO			
MW-11	YES	NO			
MW-12R	YES	NO			
MW-14R	YES	NO			
MW-15	YES	NO			
MW-15RS	YES	NO			
MW-17R	YES	NO			
MW-19R	YES	NO			
MW-20R	YES	NO			

# General Comments:

# Site Management Plan Inspection Form Ogdensburg (King Street) Non-Owned Former MGP Site Ogdensburg, New York

Date:	7/14/2020	Ogdensburg, New York	Time:	9:00
Technician:	AJ	NYSDEC Site No. V00479	Weather:	Sunny 72

Site Wide					
Any repairs, maintenace or corrective actions since the last inspection?	YES	NO	COMMENTS:		
Are the requirements of the Site Management Plan being met?	YES	NO	COMMENTS:		
Any signs/evidence of use of the Site in a manner inconsistent with the deed restriction?	YES	NO	COMMENTS:		

Site Wide - SLG Responsible to Maintain					
Perimeter Fence and Gates intact?	YES	NO	COMMENTS:		
Have the lawns been mowed?	YES	NO	COMMENTS:		

Soil Cover System							
Any signs of ground-intrusive activities?	YES	NO	COMMENTS:				
Any soil disturbance regardless of quantity/extent?	YES	NO	COMMENTS:				
Any surface erosion?	YES	NO	COMMENTS:				
Any settlement?	YES	NO	COMMENTS:				
Bare or sparsely-vegetated areas?	YES	NO	COMMENTS:				
Any other conditions affecting the thickness or the integrity of the soil cover system?	YES	NO	COMMENTS:				

NG Owned Property on Lake Street - Not part of the SMP								
Any repairs, maintenace or corrective actions since the last inspection?	YES			NO	COMMENTS:			
Have the lawns been mowed?	YES			NO	COMMENTS:			
Conditon of the sidewalks?	GOOD	FAIR		POOR	COMMENTS:			
Condition of the site trees?	GOOD	FAIR		POOR	COMMENTS:			
Are the boulders in place?	YES			NO	COMMENTS:			

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

Site Monitoring Wells					
Well ID.	Location Secure				
MW-2(R)	YES NO				
MW-5R(R)	YES	NO			
MW-8R	YES NO				
MW-9	YES NO				
MW-10R	YES	NO			
MW-11	YES NO				
MW-12R	YES	NO			
MW-14R	YES NO				
MW-15	YES NO				
MW-15RS	YES NO				
MW-17R	YES NO				
MW-19R	YES NO				
MW-20R	YES	NO			

# **General Comments:**

# Site Management Plan Inspection Form Ogdensburg (King Street) Non-Owned Former MGP Site Ogdensburg New York

Date:	6/23/2020	Ogdensburg, New York	Time:	8:30
Technician:	KL/BH		Weather:	Sunny 70

Soil Cover System							
Any signs of ground-intrusive activities?	YES	NO	COMMENTS:				
Any soil disturbance regardless of quantity/extent?	YES	NO	COMMENTS:				
Any surface erosion?	YES	NO	COMMENTS:				
Any settlement?	YES	NO	COMMENTS:				
Bare or sparsely-vegetated areas?	YES	NO	COMMENTS:				
Excessive cracking or missing pavement?	YES	NO	COMMENTS:				
Any other conditions affecting the thickness or the integrity of the soil cover system?	YES	NO	COMMENTS:				

	Site Wide							
Any repairs, maintenace or corrective actions since the last inspection?	YES	YES NO		NO	COMMENTS:			
Have the lawns been mowed?	YES			NO	COMMENTS:			
Conditon of the asphalt pavement	GOOD	FAIR		POOR	COMMENTS: Lake St			
Conditon of the sidewalks?	GOOD	GOOD FAIR		POOR	COMMENTS: Lake St			
Condition of the site trees?	GOOD	GOOD FAIR		POOR	COMMENTS: Lake St			
Are the requirements of the Site Management Plan being met?	YES	YES		NO	COMMENTS:			
Any signs/evidence of use of the Site in a manner inconsistent with the deed restriction?	YES	YES		NO	COMMENTS:			
Are there any needed changes?	YES			NO	COMMENTS:			
Are the site records complete and up to date?	YES			NO	COMMENTS:			

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

Site Monitoring Wells					
Well ID.	Location Secure				
MW-2(R)	YES NO				
MW-5R(R)	YES	NO			
MW-8R	YES	NO			
MW-9	YES	NO			
MW-10R	YES	NO			
MW-11	YES NO				
MW-12R	YES	NO			
MW-14R	YES NO				
MW-15	YES NO				
MW-15RS	YES NO				
MW-17R	YES NO				
MW-19R	YES NO				
MW-20R	YES	NO			

# General Comments:

Hinge missing on St. Lawrence Gate.

Fenceline needs to be sprayed?

Rear of fence overgrown.

Installed GES MC-2 lock on gate.

Installed GES MC-2 locks on wells.

New well manways needed for MW-8R, MW-9R and MW-10R

Do we need NG Signs??



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

National Grid King Street Non-Owned Former MGP Site Ogdensburg, New York

	, INOW TOTA								
Sampling Pe	rsonnel:	175			Date:	7/14/20			
Job Number:	0603123-	136690-221			Weather:				
Well Id.	MW-2(R)				Time In:	1020	Time Out	: /115	
Well In	formation		TOC	Other	Mall Type			045-1-11-	
Depth to War	ter:	(feet)	4.82	Other	Well Type Well Lock		shmount Yes	Stick-Up No	
Depth to Bott		(feet)	6.35			Point Marked:	Yes	No	
Depth to Pro		(feet)	NP		Well Mate			her:	
Length of Wa		(feet)	1.53		Well Diam Comments		" 2"Ot	her:	
Three Well V		(gal) (gal)	2-7		Comment	5.			
		(9/			-				
	W003-1115								
Purging I	nformation	•							
Purging Meth	od.	Bailer	Peristaltio	Grund	fos Pump	1/61	Conversion 1" ID 2" ID		
Tubing/Bailer		Teflon			yethylene	gal/ft.	1 10 2 10	7 10 0 10	
Sampling Me		Bailer	Peristaltio	Grund	fos Pump	water	0.04 0.16	0.66 1.47	
	Average Pumping Rate: 200 (ml/min) 1 gallon=3.785L=3785mL=1337cu. feet								
Duration of P Total Volume		30 (min) 1,0 (gal)		oid well go dry?	Yes No	V			
	Water Quality N	(34-7)		No No	165110				
Horiba 0-52 N		wieter Osed?	res						
Time	DTW	Temp	рН	ORP	Conductivity	Turbidity	DO	TDS	
	(feet)	(°C)		(mV)	(mS/cm)	(NTU)	(mg/L)	(g/L)	
1025	5.62	21.41	7.01	-239	0.621	363	1.72	0.389	
1030	5.85	22.81	7.52	-206	0579	53.3	1.64	0322	
1040	6.25	22.70	9.32	-285	0.591	47.8	366	0377	
1045	6-28	22.76	10.51	-233	0.677	37.2	6-48	0.429	
1050	629	23.34	10.55	-214	0.810	22.3	642	6515	
1055	6-28	29,25	10-75	-218	0-110	14.2	6-10	0.281	
Sampling Inf	ormation:								
Camping in	offilation.	8							
EPA SW-84	6 Method 8270	SVOC P	AH's			2 - 1 liter ambe	ers Yes	No □	
EPA SW-84	46 Method 8260	VOC's B				3 - 40 ml vial:	s Yes	No No	
EPA SW-84	46 Method 9012	Total Cya	nide			1 - 250 ml plas	tic Yes	No∐	
Sample ID:	MW-2(R)-0	720 Dur	olicate?	Yes No X	Shi	pped: Pa	ace Courier Pick		
	A				On	ppou.	Ship to Pace	~~ <u> </u>	
Sample Time:	1100	IVIO.	UNIOD!	Yes No X			Ship to race		
Sample Time: Comments/No		IVIO	/W3D?	res No		Laboratory:	Pace Ana	alytical	

Ogdensburg, New York	
Sampling Personnel:	Date: 7/14/26
Job Number: 0603123-136690-221	Weather: 72°F, sunny
Well Id. MW-5R(R)	Time In: 0930 Time Out: 1015
Well Information  TOC Other  Depth to Water: (feet) 5./2  Depth to Bottom: (feet) 24.30  Depth to Product: (feet) NP  Length of Water Column: (feet) 17.18  Volume of Water in Well: (gal) 3.0  Three Well Volumes: (gal) 9.0	Well Type: Flushmount Stick-Up Well Locked: Yes No No Well Material: PVC SS Other: Well Diameter: 1" 2" Other: Comments:
Purging Information  Purging Method: Tubing/Bailer Material: Sampling Method: Bailer Peristaltic Stainless St. Polyett Peristaltic Grundfos Grundfos Grundfos Grundfos Grundfos Average Pumping Rate:  Duration of Pumping: Total Volume Removed:  Horiba U-52 Water Quality Meter Used?  Peristaltic Grundfos Grundf	hylene
(feet) (°C) (mV) 0935 6-15 20.50 8.35 -83 0940 6-19 1973 8.86 -140 0945 7.05 18.65 9.60 -245 0950 7.32 18.57 9.84 -3.63 0955 7.46 18.77 9.92 -286	Conductivity Turbidity DO TDS (mS/cm) (NTU) (mg/L) (g/L) (g/L) (D. 572 40.4 3.69 0.379 0.570 31.1 2.83 0.378 0.598 17.1 1.62 0.382 0.619 10.9 1.38 0.396 0.634 7.2 1.19 0.707 0.646 5.4 1.05 0.413 0.647 4.9 0.94 0.414
Sampling Information:  EPA SW-846 Method 8270 SVOC PAH's  EPA SW-846 Method 8260 VOC's BTEX  EPA SW-846 Method 9012 Total Cyanide  Sample ID: MW-5R(R)-0720 Duplicate? Yes No	2 - 1 liter ambers Yes No

Ogdensburg	, New York				7			
Sampling Pe	ersonnel: 3	A			Date: 07	114/20		
Job Number:		136690-221				7305, 500	nny	
Well Id.	MW-8R				Time In:	,	Time Ou	t: 1010
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: folumes:	(gal)	TOC 3.52 20.92 NP 7.40 2.78 8.34	Other	Well Type	e: Flu led: Point Marked: erial: PVC neter: 1	shmount Yes Yes X ss Or	Stick-Up No No No ther:
Purging Meth Tubing/Bailer Sampling Me Average Pun Duration of P Total Volume	Material: thod: nping Rate: 🏖 umping: 🏽 🏖	(min) (gal)	Stainless St. Peristaltic	. Pol	fos Pump yethylene fos Pump  Yes No		Conversion 1" ID 2" ID 0.04 0.16 don=3.785L=37856	4" ID 6" ID 0.66 1.47
Time	DTW	Temp	рН	ORP	Conductivity	Turbidity	DO	TDS
	(feet)	(°C)	P	(mV)	(mS/cm)	(NTU)	(mg/L)	(g/L)
0930	3.86	21.53	7.12	-63	0.561	2.0	5.90	0.361
0935	4.32	18.63	7.02	-305	0.578	0,9	3.67	0.368
0940	4.68	18.03	7.07	~ 333	0.578	2-8	2.39	0.369
0945	4.91	19.74	7.04	-341	0.564	3.8	1,89	0.360
0950	5,78	17.29	7.12	-349	0.592	8.4	1.72	0.378
0955	5.70	17.14	7.11	-349	0:590	0.0	1.57	0.378
1000	6.03	16.84	7.06	-351	0.591	0.0	1.45	06379
					9 70 (6)			
Sampling Inf	ormation:	_		27.075				
EPA SW-84 EPA SW-84	16 Method 8270 16 Method 8260 16 Method 9012 MS-0720 MV		BTEX anide			6 - 1 liter ambe 9 - 40 ml vials 3 - 250 ml plas	s Yes	No No
Sample ID: Sample Time:	MW-8R-07	<b>720</b> Dup	olicate?	Yes No No	Shi	pped: Pa	ace Courier Pick Ship to Pace	up 🔀
Comments/No	otes:			al.	3.	Laboratory:	Pace Ana	lytical

Greensburg, PA

				<u></u>				
Sampling Pe	rsonnel:	AS			Date:	7/14/20		
Job Number:		136690-221			Weather:		partlycle	nudu
Well Id.	MW-9				Time In:	1350	Time Out	
							11110	
Well In	formation							
		CONTRACTOR STATE	TOC	Other	Well Type			Stick-Up
Depth to Wat		(feet)	2/.88		Well Lock		Yes	No
Depth to Bott		(feet)	6.35		Measuring Well Mate	Point Marked:	Yes	No
Length of Wa		(feet)	1.47		Well Dian			her: her:
Volume of W		(gal)	0.23		Comment			
Three Well V		(gal)	0-7			······································		
Purging I	nformation							
Develop Moth	_1.					10.117200	Conversion	
Purging Meth Tubing/Bailer		Bailer Teflon			fos Pump yethylene	gal/ft.	1" ID 2" ID	4" ID 6" ID
Sampling Me		Bailer	H		fos Pump	of water	0.04 0.16	0.66 1.47
	nping Rate: 2¢		I onotates	orana.	os rump		on=3.785L=3785r	
Duration of P		30 (min)					011 011 012	100.00
Total Volume		(gal)	D	id well go dry?	Yes No			
Horiba U-52 \	Water Quality N	Meter Used?	Yes	No	II. <del>TTT</del>			
							<del> </del>	
Time	DTW	Temp	pН	ORP	Conductivity	Turbidity	DO	TDS
	(feet)	(°C)		(mV)	(mS/cm)	(NTU)	(mg/L)	(g/L)
1355	5.30	21.08	9.59	-301	0-740	119	1-21	0.459
1400	5.39	22.96	8-22	-229	Bi 1.05	378	1.40	0.670
1405	5.42	22.62	7.47	-251	1.05	174	0.50	0.071
1410	5.30	23.08	7.18	-278	1-08	48.4	0.28	1690
1415	5.55	23,70	1.01	-418	100	CKIL	00/4	B 1 W 1
11/0	1.16					411	0 20	
	5.55	24.00	7.08	- 312	1-06	41.1	0.20	0:480
1425	5.60					41.1	0.20	
		24.00	7.08	- 312	1-06	41.1	0.20	0:480
		24.00	7.08	- 312	1-06	41.1	0.20	0:480
		24.00	7.08	- 312	1-06	41.1	0.20	0:480
1425	5.60	24.00	7.08	- 312	1-06	41.1	0.20	0:480
	5.60	24.00	7.08	- 312	1-06	41.1	0.20	0:480
Sampling Inf	S. GO	24.00 24.19	7.08	- 312	1-06	41.1 34.1	0.20	0:480
Sampling Inf	Formation:	24.00 24.19 svoc p	7.08 7.09	- 312	1-06	41.1 34.1 2 - 1 liter ambe	0.20 0.18	0:480 0.677
Sampling Inf	5. (c o o o o o o o o o o o o o o o o o o	24.00 24.19 SVOC P VOC'S B	7.08 7-09	- 312	1-06	2 - 1 liter ambe 3 - 40 ml vials	0.20 0.18	0:480 0:480 No No
Sampling Inf	Formation:	24.00 24.19 svoc p	7.08 7-09	- 312	1-06	41.1 34.1 2 - 1 liter ambe	0.20 0.18	0:480 0.677
Sampling Inf	5. (c o o o o o o o o o o o o o o o o o o	SVOC P VOC's B Total Cya	7.08 7.09 7.09 PAH's BTEX anide	- 312	1.06	2 - 1 liter ambe 3 - 40 ml vials 1 - 250 ml plas	0.20 0.18	0:480 0:480 No No No
Sampling Inf EPA SW-84 EPA SW-84 EPA SW-84	Formation: 46 Method 8270 46 Method 8260 46 Method 9012	SVOC P VOC's B Total Cya	7.08 7-09 PAH's BTEX anide	- 312	1.06	2 - 1 liter ambe 3 - 40 ml vials 1 - 250 ml plas	o.2o o-18  ers Yes s Yes tic Yes	0:480 0:480 No No No
Sampling Inf EPA SW-84 EPA SW-84 EPA SW-84 Sample ID:	Formation:  46 Method 8270 46 Method 8260 46 Method 9012  MW-9-072	SVOC P VOC's B Total Cya	PAH's STEX anide olicate?	- 312 - 322 Yes No	1-06 1-06 Sh	2 - 1 liter ambe 3 - 40 ml vials 1 - 250 ml plas	ors Yes tic Yes ce Courier Pick	0:480 0:480 0:480 No No No No

Sampling Pe	ersonnel:	45			Date:	7/14/20	)	
Job Number	0603123-	136690-221			Weather:	79 %.	partly do	uda
Well Id.	MW-10R				Time In:	1360	Time Ou	()
Well In	formation							
			тос	Other	Well Type		shmount	Stick-Up
Depth to Wa		(feet)	1.14		Well Lock		Yes	No
Depth to Bot Depth to Pro		(feet)	22.50			Point Marked:	Yes	No
Length of Wa		(feet)	20.19		Well Mate Well Diam			ther:
Volume of W		(gal)	3.3		Comment			ther:
Three Well V	'olumes:	(gal)	9.9		Commone	0.		
Purging I	nformation	- 1 100		i and				
							Conversion	Factors
Purging Meth		Bailer	Peristaltion	Grund	fos Pump	gal/ft.	1" ID 2" ID	
Tubing/Bailer		Teflon	Stainless St	. Pol	yethylene	of		
Sampling Me		Bailer	Peristaltion	Grund	fos Pump	water		
	ping Rate: 2					1 gal	lon=3.785L=3785	mL=1337cu. feet
Duration of P Total Volume		30 (min) 30 (gal)		صمامه المبيانا	V N-			
		7	***	id well go dry?	Yes No			
Horiba U-52 \	Water Quality N	Meter Used?	Yes	No No		7112		
Time	DTW	Temp	рН	ORP	Conductivity	Turbidity	DO	TDS
	(feet)	(°C)		(mV)	(mS/cm)	(NTU)	(mg/L)	(g/L)
1305	231	24.76	8.47	-375	0.408	160	0.39	0.244
1310	2.64	22.63	1028	-390	0.454	546	0.49	0.293
1315	2.98	21.88	10:77	-381	0.514	243	0.50	0.328
1320	3,37	20-48	10.71	-573	0.549	le5.2	0.48	0-350
1330	375	20.27	10.39	-3(e4	0.574	29.4	0.46	0367
1335	3.90	20.01	10-32	-362	0-579	20.7	0.43	0-371
	7.10	11.00	10.00		0-370		0.15	0 243
Sampling Info	ormation:							
Sampling IIII	omidion.							
EPA SW-84	6 Method 8270	SVOC PA	AH's			2 - 1 liter ambe	ers Yes	No
	6 Method 8260	VOC's B				3 - 40 ml vials	yes Yes	No No
	6 Method 9012	Total Cya	nide			1 - 250 ml plas	tic Yes	No No
FD-0		700 5	linate O	, M. —	27.0			
Sample ID: Sample Time:	MW-10R-07			res No No No	Ship	pped: Pa	ce Courier Pick Ship to Pace	up 🗡 📗
Comments/No						_aboratorv:	Pace Ana	lytical

Greensburg, PA

Ogdensburg, New York	
Sampling Personnel: A3	Date: 7/14/20
Job Number: 0603123-136690-221	Weather: 75°F, synny
Well ld. MW-11	Time In: 1/20 Time Out: 1205
Well Information	
Depth to Water: (feet) 362	Well Type: Flushmount Stick-Up
Depth to Water: (feet) \$6.2  Depth to Bottom: (feet) 6.51	Well Locked: Yes No No No No
Depth to Product: (feet) $\mathcal{NP}$	Measuring Point Marked: Yes No No Other:
Length of Water Column: (feet) 2.89	Well Diameter: 1" 2" Other:
Volume of Water in Well: (gal) 0.46	Comments:
Three Well Volumes: (gal) 1.3	
10 / [ * ]	
Purging Information	Conversion Factors
Purging Method: Bailer Peristaltic Grur	
	olyethylene gal/ft. 1" ID 2" ID 4" ID 6" ID
	ndfos Pump   water   0.04   0.16   0.66   1.47
Average Pumping Rate: 200 (ml/min)	1 gallon=3.785L=3785mL=1337cu. feet
Duration of Pumping: 30 (min)	- gallott 6.7662 0766IIIE-150764.1660
Total Volume Removed: 10 (gal) Did well go dry	? Yes No X
Horiba U-52 Water Quality Meter Used?	
Tromba 6 32 Water Quality Weter 6 sed:	
Time DTW Temp pH ORP	Conductivity Turbidity DO TDS
(feet) (°C) (mV)	(mS/cm) (NTU) (mg/L) (g/L)
1125 3.91 23.53 9.97 -240	1.05 64.8 3.95 O. Way
1130 3.75 22.59 8.35 -217	1.17 977 1.10 1.750
1135 3.72 21.92 7.54 -172	1.23 493 0.62 0.784
1140 3.73 20.39 6.74 -136	1-26 154 0.65 0.806
1145 3.75 20.09 6.46 -154	1.26 140 0.64 0.807
1150 3.76 1954 6.53 -131	1.27 113 002 0.810
1155 3.77 19,23 6.50 -131	1.28 90.3 058 0.519
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-11-0720 Duplicate? Yes No	Shipped: Pace Courier Pickup
Sample Time: 1200 MS/MSD? Yes No	Ship to Pace
Comments/Notes:	Laboratory: Pace Analytical
	Greensburg, PA

Ogdensburg	, New York							
Sampling Pe	rsonnel:	45	100		Date:	7/14/20		
Job Number:	0603123-	136690-221		3	Weather:	1	eartly dow	1
Well Id.	MW-12R				Time In:	1210	Time Out:	0
					71110 111.		Time Out.	1000
Well In	formation	_		*				
			TOC	Other	Well Type		shmount S	tick-Up
Depth to Wat		(feet)	10-32		Well Lock		Yes	No
Depth to Bott Depth to Prod		(feet)	21.40		-	Point Marked:	Yes	No
Length of Wa		(feet)	11.08		Well Mate Well Dian		SS Othe	
Volume of W		(gal)	1.77		Comment		L 2 Motifie	···
Three Well V	olumes:	(gal)	5.3					
	114 A 2 A 2 A 2 A 2 A 2 A 2 A 2 A 2 A 2 A							
				97 V6500	****			
Purging I	nformation	-						
Purging Meth	od:					1,000,00	Conversion Fa	
Tubing/Bailer		Baile Teflor			fos Pump yethylene	gal/ft.	1" ID 2" ID	4" ID   6" ID
Sampling Met		Baile			fos Pump	of water	0.04 0.16	0.66 1.47
Average Pum		O (ml/min)					on=3.785L=3785mL	
Duration of P		30 (min)						
Total Volume	Removed:	2_0 (gal)		id well go dry?	Yes No	×		
Horiba U-52 V	Water Quality I	Meter Used?	Yes	No 🗌				
Time	DTW	Temp	рН	ORP	Conductivity	Turbidity	DO	TDS
1015	(feet)	(°C)	/ 20	(mV)	(mS/cm)	(NTU)	(mg/L)	(g/L)
1220	10.86	2434	7.30	-173	0.533	597	0-67	5.647
1225	11.79	26-31	7.50	-311	0.333	540	0-60 0	) 351 > 284
1230	12.22	25.96	7.59	-332	0-405	242		244
1235	12.55	25.81	7.62	-3411	0.402	149	0-30 0	
1240	12.89	25.75	7.65	- 357	0.403	83.0	031 (	262
1245	13.20	25.97	7.104	- 357	0401	58.5	0.32 (	7.24j
						,		
Sampling Info	ormation:							
	6 Method 8270	SVOC F				2 - 1 liter ambe	K-	No No
	6 Method 8260	VOC's E				3 - 40 ml vials	<b>←</b>	No No
EPA 5VV-84	6 Method 9012	Total Cya	anide			1 - 250 ml plas	tic Yes	
Sample ID:	MW-12R-0	<b>720</b> Dui	olicate?	Yes No X	Shi	ipped: Pa	ce Courier Pickup	$\boxtimes$
Sample Time:	1250			Yes No	Om		Ship to Pace	
	too					Laboratory:	Pace Analyt	
Comments/No	ies:							1001

Ogdensburg	, New York							
Sampling Pe	rsonnel: BW				Date:07	-114170		
Job Number:		36690-221				750=, SIN	M	
Well Id.	MW-14R				Time In:	1055	Time Ou	t: 1135
Well In	formation							
77011111	TOTTHICKTOTT	•	TOC	Other	Well Type	e: Flu	shmount	Stick-Up
Depth to Wa		(feet)	2.47		Well Lock		Yes	No
Depth to Bott		(feet)	50.80		**************************************	Point Marked:	Yes	No
Depth to Prod		(feet)	NP		Well Mate			ther:
Length of Wa		(feet)	48.33		Well Diam		' <u> </u>	ther:
Three Well V		(gal)	7.8	,	Comment	s:		
Three well v	olumes:	(gal)	2304		-			
Purging I	nformation			537				
D. main a Math							Conversion	
Purging Meth		Bailer	Peristaltio		fos Pump	gal/ft.	1" ID 2" ID	4" ID 6" ID
Tubing/Bailer		Teflon	Stainless St.		yethylene	of	004 040	0.00 4.47
Sampling Me		Bailer	Peristaltic	Grund	fos Pump	water		
Duration of P	ping Rate: 20					1 gall	on=3.785L=3785	mL=1337cu. feet
Total Volume				المسامة المسامة	Van 🗆 Na			
				id well go dry?	Yes No	ĹΛ.		
Horiba U-52 \	Water Quality M	leter Used?	Yes	No				
Time	DTW	Temp	рН	ORP	Conductivity	Turbidity	DO	TDS
	(feet)	(°C)	a.	(mV)	(mS/cm)	(NTU)	(mg/L)	(g/L)
1100	23-2.65	22.82	7.33	- 282	0.480	0.3	1.19	0.309
1105	2.78	22.23	7.30	- 304	0.471	0.2	0.99	0.306
1110	2.36	21.85	7.28	-311	0.469	0,0	0,93	0,305
1115	2.92	21.48	7.25	-316	0.469	0.0	0.89	0.304
11.50	7.94	71.36	7.24	-317	0.467	ల ్	0.89	0:305
1125	2.95	70.01	7.21	-317	0,478	0.0	1800	0,309
1130	2.97	20.88	7.28	-322	0.469	0.0	0.87	0, 305
Sampling Inf	ormation:							
	6 Method 8270	SVOC P				2 - 1 liter ambe	ers Yes	No No
EPA SW-84	16 Method 8260	VOC's B	TEX			3 - 40 ml vials	s Yes	No No
EPA SW-84	16 Method 9012	Total Cya	nide			1 - 250 ml plas	tic Yes	No No
Sample ID:	MW-14R-07	<b>20</b> Dun	licate?	Yes No X	Shi	pped: Pa	ice Courier Pick	un 🔽 📗
Sample Time:	1130			Yes No No	5111	PP-04. 10	Ship to Pace	
Comments/No	otes:					Laboratory:	Pace Ana	alvtical

Greensburg, PA

Date: 07/14/20   Date	Ogaensburg,	IVEW TOIK							
Well Information	Sampling Per	rsonnel: 3	A			Date: 0	1/14/20		
Well Information	Job Number:	0603123-	136690-221			Weather:	800,F, 541	my	
ToC   Other   Well Type:   Flushmourn   Stick-Up   Depth to Bottom: (feet)   5:2Z   Well Locked: Yes   No   Depth to Bottom: (feet)   No   Depth to Product: (feet)   No   Well Material: PV (see   No   No   Well Material: PV (see   No   No   No   No   Well Material: PV (see   No   No   No   No   No   No   Well Material: PV (see   No   No   No   No   No   No   No	Well Id.	MW-15							: /350
Depth to Water:	Well In	formation	_			September of the Indiana			
Depth to Bottom:					Other				
Depth to Product:									H
Length of Water Column: (feet)									
Purging Information									
Purging Information	Volume of Wa	ater in Well:	(gal)	0013		Comments	S: /.		
Conversion Factors   Grundfos Pump   Grundf	Three Well V	olumes:	(gal)	0.39		LOW WE	tu, sample	d early	
Conversion Factors						19,000			
Purging Method:	Purging I	nformation	•				·		
Tubing/Bailer Material:   Teflon   Stainless St.   Polyethylene   Grundfos Pump   Water   0.04   0.16   0.66   1.47	Di Math	- d.						T	
Sampling Method:   Saller   Peristatitic   Srundfos Pump     Water   0.04   0.16   0.66   1.47     1 gallon=3.785L=3785mL=1337cu. feet     1 gallon=3.785L=3785mL=13								1"10   2"10	4"10 6"10
Average Pumping Rate: 120 (milmin)   1 gallon=3.785L=3785mL=1337cu feet							1	0.04 0.16	0.66 1.47
Total Volume Removed:						•	1 gal	lon=3.785L=3785r	nL=1337cu. feet
Time   DTW   Temp   pH   ORP   Conductivity   Turbidity   DO   (feet)   (							<del>/-</del> 1		
Time	Total Volume	Removed: 🕖	75 (gal)			Yes No			
(feet)	Horiba U-52 V	Vater Quality N	leter Used?	Ye	es No				
(feet)						_			e ex
1315	Time	200249 ADVO		pН	200 200 200 200 200 200 200 200 200 200	100		AV 0000 00	
1320   8.32   26.80   6.49   -lo2   0.721   1000   1.42   0.496   1325   9.39   26.46   6.40   -ll8   0.768   998   0.86   0.490   1330   3.45   26.55   6.36   -l27   0.763   6.35   0.82   0.488   1335   8.50   24.91   6.34   -l32   0.910   960   0.65   0.519   1340   8.54   24.69   6.35   -l31   0.821   1000   1.03   0.525   0.525   0.82   0.00   1.03   0.525   0.525   0.82   0.00   1.03   0.525   0.525   0.82   0.00   0.05   0.525   0.00   0.05   0.525   0.00   0.05   0.05   0.525   0.05	1314			651					
1325   5.39   26.46   6.40   -118   0.768   998   0.86   0.490     1330   3.45   26.55   6.36   -127   0.763   635   0.82   0.488     1335   8.60   24.91   6.34   -132   0.80   960   0.65   0.519     1340   8.54   24.69   6.35   -131   0.921   1000   1.03   0.525									
1335   8 0 50   2 H 0 1   6 3 4   -132   0 0 8 10   960   0.65   0 0 5 19     1340   8 0 5 4   2 4 0 6 0 3 5   -131   0 0 2 1   1000   1 0 0 3   0 0 5 2 5								The second second	
Sampling Information:    EPA SW-846 Method 8270   SVOC PAH's   SVOC		8.45			-127	0.763		0.82	0.488
Sampling Information:  EPA SW-846 Method 8270 SVOC PAH's EPA SW-846 Method 8260 VOC's BTEX EPA SW-846 Method 8260 VOC's BTEX EPA SW-846 Method 9012 Total Cyanide  Sample ID: MW-15-0720 Duplicate? Yes No Sample Time: 1340 MS/MSD? Yes No Shipped: Pace Courier Pickup Ship to Pace  Comments/Notes: Laboratory: Pace Analytical									0.519
EPA SW-846 Method 8270 SVOC PAH's  EPA SW-846 Method 8260 VOC's BTEX  EPA SW-846 Method 9012 Total Cyanide  Sample ID: MW-15-0720 Duplicate? Yes No Sample Time: 1340 MS/MSD? Yes No Shipped: Pace Courier Pickup Ship to Pace  Comments/Notes: Laboratory: Pace Analytical	1340	8054	24,69	6.35	-131	0.821	1000	1.03	0.525
EPA SW-846 Method 8270 SVOC PAH's  EPA SW-846 Method 8260 VOC's BTEX  EPA SW-846 Method 9012 Total Cyanide  Sample ID: MW-15-0720 Duplicate? Yes No Sample Time: 1340 MS/MSD? Yes No Shipped: Pace Courier Pickup Ship to Pace  Comments/Notes: Laboratory: Pace Analytical									ar .
EPA SW-846 Method 8270 SVOC PAH's  EPA SW-846 Method 8260 VOC's BTEX  EPA SW-846 Method 9012 Total Cyanide  Sample ID: MW-15-0720 Duplicate? Yes No Shipped: Pace Courier Pickup Sample Time: 1340 MS/MSD? Yes No Ship to Pace  Comments/Notes: Laboratory: Pace Analytical									
EPA SW-846 Method 8270 SVOC PAH's  EPA SW-846 Method 8260 VOC's BTEX  EPA SW-846 Method 9012 Total Cyanide  Sample ID: MW-15-0720 Duplicate? Yes No Sample Time: 1340 MS/MSD? Yes No Shipped: Pace Courier Pickup Ship to Pace  Comments/Notes: Laboratory: Pace Analytical									
EPA SW-846 Method 8270 SVOC PAH's  EPA SW-846 Method 8260 VOC's BTEX  EPA SW-846 Method 9012 Total Cyanide  Sample ID: MW-15-0720 Duplicate? Yes No Sample Time: 1340 MS/MSD? Yes No Shipped: Pace Courier Pickup Ship to Pace  Comments/Notes: Laboratory: Pace Analytical									
EPA SW-846 Method 8260 VOC's BTEX EPA SW-846 Method 9012 Total Cyanide  Sample ID: MW-15-0720 Duplicate? Yes No Shipped: Pace Courier Pickup Sample Time: 1340 MS/MSD? Yes No Laboratory: Pace Analytical	Sampling Inf	ormation:							
EPA SW-846 Method 8260 VOC's BTEX EPA SW-846 Method 9012 Total Cyanide 1 - 250 ml plastic Yes No Sample ID: MW-15-0720 Duplicate? Yes No Sample Time: 1340 MS/MSD? Yes No Comments/Notes: Laboratory: Pace Analytical	EPA SW-84	16 Method 8270	SVOC I	PAH's			2 - 1 liter ambe	ers Yes	$\bowtie_{No}$
Sample ID: MW-15-0720 Duplicate? Yes No Shipped: Pace Courier Pickup Ship to Pace  Comments/Notes: Laboratory: Pace Analytical	EPA SW-8	46 Method 8260	VOC's I	BTEX			3 - 40 ml vial	s Yes	No -
Sample Time: 1340 MS/MSD? Yes No Ship to Pace  Comments/Notes: Laboratory: Pace Analytical	EPA SW-8	46 Method 9012	Total Cy	anide			1 - 250 ml plas	tic Yes	No □
Sample Time: 1340 MS/MSD? Yes No Ship to Pace  Comments/Notes: Laboratory: Pace Analytical	Sample ID:	MW-15-07	<b>20</b> Du	plicate?	Yes No X	Sh	ipped: Pa	ace Courier Pick	up 🖂 📗
				-			on it		
Greensburg, PA	Comments/No	otes:					Laboratory:	Pace Ana	lytical

egdones ang, non ronk							
Sampling Personnel: 3	514			Date: 0	7/14/20		
Job Number: 060312	3-136690-221				750 F, WE	reast	
Well Id. MW-15RS				Time In:	1350	Time Out	1430
Well Information							
		TOC	Other	Well Type		ushmount	Stick-Up
Depth to Water:  Depth to Bottom:	(feet)	7.33		Well Lock		Yes	No
Depth to Product:	(feet)	23.65 NP		Measuring Well Mate	Point Marked:	Yes X CX SS Ot	No her:
Length of Water Column		6.32	10	Well Dian			her:
Volume of Water in Well:		0.65		Comment	s:, , ,		
Three Well Volumes:	(gal)	1.95		Dunetn	too small to	or probe & A	bing
			AND MINE	3 imuHa	recordly.		
Purging Information							
Targing information						Conversion I	actors
Purging Method:	Baile	r Peristalti	c Grund	Ifos Pump	gal/ft.		4" ID 6" ID
Tubing/Bailer Material:	Teflor	Stainless St		lyethylene	of		
Sampling Method:	Baile	r Peristalti	c Grund	lfos Pump	water	0.04 0.16	0.66 1.47
Average Pumping Rate:					1 gal	llon=3.785L=3785n	nL=1337cu. feet
Duration of Pumping: Total Volume Removed:	30 (min)		Did well go dry?	Yes No	<b>₩</b>		
				YesINO	N.		
Horiba U-52 Water Qualit	y Meter Used?	Yes	s No No				
Time DTW	Temp	рН	ORP	Conductivity	Turbidity	T 50	TD0 I
(feet)	(°C)	pri	(mV)	(mS/cm)	(NTU)	DO (mg/L)	TDS (g/L)
1355	23.42	6.74	-330	0.719	28.1	1.19	0.461
1400	23,10	6.69	-321	0.702	21.0	1-12	0.454
1405	22.96	6.67	-301	0.694	18.4	1017	0.443
1410	22.72	6.66	-296	0.681	19.1	1.25	0.436
1420	22.19	6,63	-295 -311	0.824	13.2	0.91	0.489 0.521
1425	21:16	6.70	-370	0.887	10.5	0.76	0.569
					1,500	0.40	0:35
Compling Information:							
Sampling Information:		`					
EPA SW-846 Method 827	70 SVOC F	PAH's			2 - 1 liter ambe	ers Yes	$\sum_{N_0}$
EPA SW-846 Method 82					3 - 40 ml vial	000000	
EPA SW-846 Method 90	12 Total Cy	anide			1 - 250 ml plas		No I
		20 0 20				- 1	
Sample ID: MW-15RS		A CONTRACTOR OF THE CONTRACTOR	Yes No	Shi	pped: Pa	ace Courier Pick	ap 🛛 📗
Sample Time: 142	<b>5</b> MS	/MSD?	Yes No X			Ship to Pace	
Comments/Notes:					_aboratory:	Pace Ana	lytical
						Greensbui	g, PA

Ogdensburg,	New York							
Sampling Per	rsonnel:	A			Date: 07	114/20		
Job Number:		136690-221				7505 su	nny	
Well Id.	MW-17R				Time In:	1010	Time Out	: 1050
Depth to Wat Depth to Bott Depth to Proc Length of Wat Volume of Wat Three Well V	om: duct: ater Column: ater in Well:	(gal)	TOC 7.48 26.90 NP 9.42 3.1	Other	Well Type Well Lock Measuring Well Mate Well Dian Comment	ed: Point Marked: erial: PVC neter: 1"	Yes Yes SS Of	Stick-Up No
Purging Meth Tubing/Bailer Sampling Met Average Pum Duration of Portion of Portion Volume	Material: thod: ping Rate: Zu umping:	(gal)	Stainless St. Peristaltic	Pol	fos Pump yethylene fos Pump  Yes No		Conversion 1" ID 2" ID 0.04 0.16 on=3.785L=3785r	4" ID 6" ID 0.66 1.47
Time	DTW	Temp	рН	ORP	Conductivity	Turbidity	DO	TDS
	(feet)	(°C)	7 117	(mV)	(mS/cm)	(NTU)	(mg/L)	(g/L)
1015	7.67	19.62	7.47	-298	0.819	18.3	1.60	0.525
1020	805	16.45		-291	0.862	8.7	1.37	0.552
1025	8.76	15.87	6.92	-276	0.870	0.6	1.30	0.554
1030	9.01	16.04	6.84	-273	0.865	0.0	1.26	0.553
1040	9.17	15.86	6.30	-271	0.866	0.0	1.21	0.555
1045	9.39	15.74	6.78	-270	0.365	0.0	1.18	0.552
								1 0
2 /								
U								
EPA SW-84	ormation: 6 Method 8270 6 Method 8260 6 Method 9012	SVOC F VOC's E Total Cy	BTEX	*		2 - 1 liter ambe 3 - 40 ml vial 1 - 250 ml plas	s Yes	
Sample ID: Sample Time:	MW-17R-0		•••••••••••••••••••••••••••••••••••••••	Yes No No	Sh	ipped: Pa	ace Courier Pick Ship to Pace	sup
Comments/No	otes:					Laboratory:	Pace Ana	alytical

Greensburg, PA

National Grid King Street Non-Owned Former MGP Site

Ogdensburg	, New York							
Sampling Pe	rsonnel: 3	+			Date: 0	7/14/20		
Job Number:	W WA-COM MANAGE	136690-221				80 0 F , Sunn	4	
Well Id.	MW-19R				Time In:		_	it: 1305
Well In	formation	_						
			TOC	Other	Well Type		shmount	Stick-Up
Depth to Wa		(feet)	6.34		Well Lock		Yes	No
Depth to Bot		(feet)	38.05		-	Point Marked:	Yes	No
Depth to Pro		(feet)	NP		Well Mate			ther:
Length of Wa			731.71		Well Dian		" <u> </u>	ther:
Volume of W		(gal)	5.1		Comment	s:		
Three Well V	olumes:	(gal)	15.3		-			
				20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				
Purging I	nformation	•						
Division Matte						-	Conversion	
Purging Meth		Bailer			fos Pump	gal/ft.	1" ID 2" ID	4" ID 6" ID
Tubing/Bailer		Teflon			yethylene	of		
Sampling Me		Bailer	Peristaltic	Grund	fos Pump	water		
	ping Rate: 20					1 gal	lon=3.785L=3785	mL=1337cu. feet
Duration of P	and the same of th					[A		
Total Volume	Removed:	2 (gal)	D	id well go dry?	Yes No	M		
Horiba U-52 \	Water Quality I	Meter Used?	Yes	No				
					A STATE OF THE STA			
Time	DTW	Tanan	T all	I ODD	T C	T	T 50	T TD0 1
Time	Service Proper	Temp	pН	ORP	Conductivity	Turbidity	DO	TDS
127	(feet)	(°C)	7 7-	(mV)	(mS/cm)	(NTU)	(mg/L)	(g/L)
1230	6.46	22.96	7.33	-230	0.370	14.8	1.43	0.234
1235	7.32	23.2G	7.32	-241	0.263	6.6	0.83	0.171
1240	8.01	22.25	7.28	~243	0-270	702	0.81	0-176
1245	8.77	21.88	7.27	-243	0.273	4.1	0.79	0.178
1250	9.52	71.74	7.26	-243	0.275	2.1	0.77	0.179
1255	10.29	21.04	7.25	-243	0.282	9.8	0.79	0.183
1300	10.98	21.68	7.23	-242	0.281	4.0	0.77	0.182
					Walter Control			
Sampling Inf	iornation:		-					
Sampling in	ormation.							
			. (Annual Carlot					
	6 Method 8270	SVOC P				2 - 1 liter ambe		No No
	46 Method 8260	VOC's B				3 - 40 ml vial		
EPA SW-84	16 Method 9012	Total Cya	anide			1 - 250 ml plas	tic Yes	
Sample ID:	MW-19R-0	720 Dur	olicate?	Yes No X	Shi	pped: Pa	ace Courier Pick	
Sample Time:				res No	3111	pped. Pa	Ship to Pace	ا ا
	1300		WOD:				Ship to Pace	
Comments/No	otes:					Laboratory:	Pace Ana	alvtical

Laboratory:

Pace Analytical Greensburg, PA

Ogdensburg								
Sampling Pe	ersonnel: Bh	+		7	Date: 37	114/20		
Job Number:	: 0603123-	136690-221			Weather:	7805,5	unny	
Well Id.	MW-20R				Time In:		Time Out	1220
Well In	formation	-		£ 11				
5 11 1 10/		T	TOC	Other	Well Type		shmount	Stick-Up
Depth to Wa	***	(feet)	1.38		Well Lock		Yes	No
Depth to Bot	To the second se	(feet)	28.40		10 mg 100 mg	Point Marked:	Yes X Ot	No
Depth to Pro Length of Wa		(feet)	Z7.0Z	*	Well Mate Well Diam			her:
Volume of W			4.3		Comment			her:
Three Well V			12-9		Confinent	S.		
THICC VVCII V	olamos.	(gai)	1257			- AM		
			2"					
Purging I	Information		ш.					
		•					Conversion I	Factors
Purging Meth	nod:	Bailer	Peristalti	Grund	fos Pump	gal/ft.	1" ID 2" ID	
Tubing/Bailer		Teflon		- Common of the	yethylene	of		
Sampling Me		Bailer			os Pump	water	0.04 0.16	0.66 1.47
Average Pun		(ml/min)					on=3.785L=3785r	
Duration of P	umping:	(min)					20	
Total Volume	Removed:	(gal)	-	oid well go dry?	Yes No	M		
Horiba U-52	Water Quality N	Meter Used?		No		<del></del>		
1101104 0 02	vator addity i	Wicter 6364:	163	· MINOL				1302
Time	DTW	Temp	рН	ORP	Conductivity	Turbidity .	DO	TDS
Time	(feet)	(°C)	ρπ	(mV)	(mS/cm)	(NTU)	(mg/L)	(g/L)
1145	1.41	24.75	7,40	-252	0.494	7.2	1.72	0.321
1150	1093	23,43	7.32	-247	0.484	3.7	1.02	0.318
1155	2.60	22.64	7.19	-254	0,4196	6.0	0.84	0.322
12001100	3,38	ZZ.83	7.17	- 255	0.498	7.2	0.82	0.323
1205	4.02	23.19	7.16	-255		5.1	0.83	0.323
1210	4.69	23.35	7.15	-255		4.0	0.83	0.322
1215	5.12	22.98	7.14	-254	0.496	3,3	0.83	0.321
7.		46	4	8/4	F 1 1			
THE STATE OF THE S	7 1		-	She I I		A Comment	- a	
2000				1 1		-		
8								
Sampling Inf	formation:			1.00				
Camping in	officion.							
		SVOC P	AH's			2 - 1 liter ambe	are Voe	No
EPA SW-84	46 Method 8270	0,000 1	AIIS					$\longrightarrow$
EPA SW-84		VOC's B	TEX					
EPA SW-8	46 Method 8260	VOC's B				3 - 40 ml vials		
EPA SW-8		VOC's B				1 - 250 ml plas		No
EPA SW-84	46 Method 8260 46 Method 9012	Total Cya	anide	Yes No No	Shi	1 - 250 ml plas	tic Yes	No 🗌
EPA SW-8	46 Method 8260	Total Cya	anide  Dlicate?	Yes No X	Shi	1 - 250 ml plas		No 🗌
EPA SW-84 EPA SW-84 Sample ID:	46 Method 8260 46 Method 9012 MW-20R-0	Total Cya	anide  Dlicate?			1 - 250 ml plas	tic Yes	No U



# 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																			F	Page:	1 of	f 1
Required Client Information:  Company: GES - Syracuse	Required Project Information: Report To: Devin Shay (GES)			Invoice Info		uable ole en	-11 -1 1								_											
Address: 5 Technology Place, Suite 4	dshay@gesonline.com  Report To: Tim Beaumont (GES	21			_		ail at ges-inv			om										R	EGUL	ATOR	Y AC	GENCY		
	tbeaumont@gesonline.com	,,														NP NP	DES		ROUN	ND WA	ATER	FRI	INKIN	IG WATE	ER.	
East Syracuse, New York 13057							4, East Syrad	cuse, NY 1	13057							□ US	ST	L E	RCRA			Γ',Τ	THER_		_	
Email To: dshay@gesonline.com	Purchase Order No.:				e Reference:										7			SITE			GA	FL		1	۲.,	f***
Phone: 800.220.3069 Fax: None x4051	Project Name: National Grid - C King Street Ogdensburg, NY	gdensbu	rg	Pace Proje	ct Manager:	Rachel Chris	tner								٦	LOC	ATIO	IN			Г эн	Γ;	ic 1	Πn	T THE	R
Requested Due Date/TAT: Standard	Project Number: 0603123-136690-221-1106			Pace Profil	e#:		Semi-A	nnual	GWS			***	A		1	Filtered	(Y/N)		164 144			77	77	11	7//	777
Section D Required Client Inform	2000	1			COLL	ECTED				П	P	reser	vative	s		Request	ed				1	//	//	-/	///	+
SAMPLE ID  One Character per box. (A-Z, 0-9 / ,-)  Samples IDs MUST BE UNIQUE	CREATE WITER  WASTE WITER  OLD  OLD  OLD  OLD  OLD  OLD  OLD  OL	MATRIX CODE	G+GRAB C=COMP	COLUPCISITE ST	TART	g kan		SAMPLE TEMP AT COLLECTION	CONTAINERS							Analysis	::		,	//			//		///	$^{\prime }\mid$
ITEM #		MATRI	SAMPLE TYPE	DATE	TIME	DATE	TIME	SAMPLE TEMP	#OF CON	npreserved	H;SO <sub>4</sub>	ICI	NaOH	Va <sub>2</sub> S <sub>2</sub> O <sub>5</sub>	her		,							//	/ P	ace Project Number
	(R)-0720	WT	G			-	01100		7	2	I	3	ž	Ž Ž	ō	-	$\dashv$	7	101	+	H	+	4			Lab I.D.
	R(R)-0720	WT				1111/2	1010		7	2	2		1	+	+			3 2	1			+++	+			-
	3R-0720	WT					1000		7	2	- 1/2	-	1	+	+			3 2	1	_	+++	+	+			$\overline{}$
	-MS-0720	WT					1000		7	2	300	3	1	+	+			3 2	1	-	++	++	+			
(100,000)	MSD-0720	WT					1000		7	2	4		1	+	+			3 2	1	+	+	++	+			-
	9-0720	WT					1430		7	2	2		1	+	+	_		3 2	1		$\forall$	+	+	-		-
7 MW-1	0R-0720	WT					1340		7	2	3		1	+	+	$\vdash$		3 2		+	+	++	$\dashv$		-	
8 MW-	11-0720	WT	G				1200		7	2	3		1		+			3 2	1	-		++	+	_		
9 MW-1	2R-0720	WT					1250		7	2	8	3	1	+	+			3 2	1	_	+++	+	+			
10 MW-1	4R-0720	WT	G				1130		7	2	3		1	+	-			3 2	1		++	+	+			
11 MW-	15-0720	WT					1340		7	2	4	3	1	+	+				1	+	+	+	+			-
12 MW-15	5RS-0720	WT					1425		7	2	4		Ė	+	+			$\top$	1	+	+	++	+			-
	7R-0720	WT	G				1045		7	2	4		1	+	+	-		3 2	1	-	++	++	+			-
14 MW-1	9R-0720	WT					1300		7	2	3		1	+	+			3 2	1	+	+	++	+			$\overline{}$
15 MW-2	0R-0720	WT	G				1215		7	2	4		1		+	-		3 2	1	1	+	++	$\pm$			
16 FD	-0720	WT	G			J	12.5		7	2	- G	_	4	+	+				1		+	++	+			-
17 Trip	Blanks	WT	G						2		4	_	-		+	_		3 2	++	+	+	++	+			
Additional Comments:		RELI	NQUIS	SHED BY /	AFFILIATIO	V	DATE	TIME	ACCEF	TED	BY / AF	-	OITA	1	NE UN		BB		DATE		TIME	SAL	MPL	E CON	DITION	JS.
SAMPLES WILL ARRIVE IN #	COOLERS.	a	Ver	inff	en	657	Plybo	1800	Co	E	9	F	nic.	15-	_				4/20	150	fai	O/All	T	× ×	Z Z	Z Z
							, ,,							)			-	1/	1	+		+	$\top$	N X	N.	× ×
Please send reports to: dshay@gesonlin	e.com, tbeaumont@gesonline.com																	$\top$					+	N.	N.	Z ×
NERegion@gesonline.com, ges@equis	online.com																	$\top$		T			$\top$	N.	× ×	Z Z
SPECIFIC EDD NAME:					SAMPLER PRINT Name of		SIGNATUR	RE														ပ်	<u> </u>	u <sub>0</sub>	<u>p</u>	
NGOgdensburg-labnumber.28351.E	OFDD zin				SIGNATURE of								DATE	Signed	(MM / I	DD / YY)						Temp in	5	Received	Custody ealed Cool	amples Intact
	/h				I								1										1.1	DC	9	1 00

		<del>, , ,</del>						
Sampling Per	sonnel:	2 6	£	··· <del>····</del>	Date:	10/1/2	)	
Job Number:	0603209-1	36690-221			Weather:	Smy	70	
Well Id.	MW-2(R)	<u> </u>			Time In:	13:40	Time Out:	14:0
						, <u>Je-</u>		
Well inf	ormation							
		• •	TOC	Other	Well Type	e: Flu	shmount 🔀 🔞	Stick-Up
Depth to Wate	er:	(feet)			Well Lock	ed:	Yes	No
Depth to Botto		(feet)	6.35		_	Point Marked:	Yes	No
Depth to Proc		(feet)	NE		Well Mate		SSOth	
Length of Wa	•	(feet)	3 6		Well Dian		' 2"Oth	ner:
Volume of Wa		(gal) (	36		Comment	S:		
Timee vveir vo	olumes.	(gal)	1.14					<u> </u>
<u> </u>						<del>.</del>	· · · · · · · · · · · · · · · · · · ·	
Puraina I	nformation			<del> </del>		<u> </u>		
						•	Conversion F	actors
Purging Meth	od:	Bailer	Peristaltic	Grund	os Pump	gal/ft.	1" ID 2" ID	4" ID 6" ID
Tubing/Bailer		Teflon	<del>  </del>	<u> </u>	yethylene	of		
Sampling Met	thod:	Bailer	Peristaltic	<del></del>	os Pump	water	0.04 0.16	0.66   1.47
Average Pum	ping Rate:	(ml/min)	200	<del></del>		1 gal	lon=3.785L=3785m	nL=1337cu. feet
Duration of P	<del></del>	(min)	30			_		
Total Volume	Removed:	(gal)	D	id well go dry?	Yes No	<u> </u>		
Horiba U-52 \	Nater Quality N	/leter Used?	Yes	N∘∏	U			
	<u></u>							
Time	DTW	Temp	рН	ORP	Conductivity	Turbidity	DO	TDS T
Time	DTW (feet)	Temp (°C)	рН	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	1 11
Time /3:45		(°C)	7.04	i		1	1	TDS' (g/L)
	(feet) 5.25 5.40	(°C) 17.18 16.18	7.04	(mV) -330	(mS/cm) 0.780 0-733	(NTU)	(mg/L)	(g/L)
13:45	(feet) 5, 25	(°C)	7.04	(mV)	(mS/cm) 0.780	(NTU) 40.5	(mg/L)	(g/L) 0,493
13:45 13:50 13:55 14:02	(feet) 5.25 5.40	(°C) 17.18 16.18	7.04	(mV) -330	(mS/cm) 0.780 0-733	(NTU) 40.5	(mg/L) 0.79 4.62	(g/L) 0.493 0.45
13:45 13:50 13:55 14:05	(feet) 5.25 5.40	(°C) 17.18 16.18	7.04	(mV) -330	(mS/cm) 0.780 0-733	(NTU) 40.5	(mg/L) 0.79 4.62	(g/L) 0.493 0.45
13:45 13:50 13:55 14:05 14:10	(feet) 5.25 5.40	(°C) 17.18 16.18	7.04	(mV) -330	(mS/cm) 0.780 0-733	(NTU) 40.5	(mg/L) 0.79 4.62	(g/L) 0.493 0.45
13:45 13:55 13:55 14:05	(feet) 5.25 5.40	(°C) 17.18 16.18	7.04	(mV) -330	(mS/cm) 0.780 0-733	(NTU) 40.5	(mg/L) 0.79 4.62	(g/L) 0.493 0.45
13:45 13:50 13:55 14:05 14:10	(feet) 5.25 5.40	(°C) 17.18 16.18	7.04	(mV) -330	(mS/cm) 0.780 0-733	(NTU) 40.5	(mg/L) 0.79 4.62	(g/L) 0.493 0.45
13:45 13:50 13:55 14:05 14:10	(feet) 5.25 5.40	(°C) 17.18 16.18	7.04	(mV) -330	(mS/cm) 0.780 0-733	(NTU) 40.5	(mg/L) 0.79 4.62	(g/L) 0.493 0.45
13:45 13:50 13:55 14:05 14:10	(feet) 5.25 5.40	(°C) 17.18 16.18	7.04	(mV) -330	(mS/cm) 0.780 0-733	(NTU) 40.5	(mg/L) 0.79 4.62	(g/L) 0.493 0.45
13:45 13:55 14:55 14:05 14:10	(feet) 5.25 5.40	(°C) 17.18 16.18	7.04	(mV) -330	(mS/cm) 0.780 0-733	(NTU) 40.5	(mg/L) 0.79 4.62	(g/L) 0.493 0.45
13:45 13:50 13:55 14:05 14:10 14:15	(feet) 5.25 5.40 5.98	(°C) 17.18 16.18	7.04	(mV) -330	(mS/cm) 0.780 0-733	(NTU) 40.5	(mg/L) 0.79 4.62	(g/L) 0.493 0.45
13:45 13:50 13:55 14:05 14:10	(feet) 5.25 5.40 5.98	(°C) 17.18 16.18	7.04	(mV) -330	(mS/cm) 0.780 0-733	(NTU) 40.5	(mg/L) 0.79 4.62	(g/L) 0.493 0.45
13:45 13:55 14:85 14:15 14:15	(feet) 5.25 5.40 5.98	(°C) 17.18 16.18 16.97	7.04 2.35 move	(mV) -330	(mS/cm) 0.780 0-733	(NTU) 40.5	(mg/L) 5.79 4.62 4.64	(g/L) 0.493 0.450 0.427
13:45 (3:50 (3:55 14:05 14:05 14:15 Sampling In	(feet) 5, 25 5, 40 5, 98  formation:	(°C) 17.18 16.18 16.97	7.04 7.31 8.55 MDCE	(mV) -330	(mS/cm) 0.780 0-733	(NTU) 40.5 27.4 23.3 5/N/	(mg/L) 5.79 4.62 7.64	(g/L) 0,493 0-450 0-427
13:45 (3:55 (3:55 (4:05 (4:05 (4:05 (4:05 (4:05 (4:05 (4:05 (4:05) (4:05 (4:05)	(feet) 5.25 5.40 5.98 formation:	(°C) 17.18 16.18 16.18 16.18 16.18 16.18 16.18	7.04 7.31 8.55 mDCE PAH's BTEX	(mV) -330	(mS/cm) 0.780 0-733	(NTU) 40.5 27.4 23.3 2-100 ml aml	(mg/L)  5.79  4.62  4.64  Description of the second of the	(g/L) 0.493 0.453 0.427
13:45 (3:55 (3:55 (4:05 (4:05 (4:05 (4:05 (4:05 (4:05 (4:05 (4:05) (4:05 (4:05)	(feet) 5.25 5.40 5.98  formation: 46 Method 8270 846 Method 8260	(°C) 17.18 16.18 16.18 16.18 16.18 16.18 16.18	7.04 7.31 8.55 mDCE PAH's BTEX	(mV) -330	(mS/cm) 0.780 0-733	(NTU) 40.5 37.4 2-100 ml aml 3-40 ml via	(mg/L)  5.79  4.62  4.64  Description of the second of the	(g/L) 0.493 0.453 0.427
13:45 (3:55 (3:55 (4:05 (4:05 (4:05 (4:05 (4:05 (4:05 (4:05 (4:05) (4:05 (4:05)	(feet)  5.75  5.40  5.98  formation:  46 Method 8270  846 Method 8260  846 Method 9012  MW-2(R)-	(°C) 17.18 16.	PAH's BTEX ranide	(mV) -330	(mS/cm) 0.780 0.433 0.673	2 - 100 ml aml 3 - 40 ml via 1 - 250 ml pla	(mg/L)  5.79  4.62  4.64  Description of the second of the	(g/L) 0.493 0.453 0.427
13:45 13:55 14:05 14:05 14:15 14:15 EPA SW-8 EPA SW-8	(feet)  5.75  5.40  5.98  formation:  46 Method 8270  346 Method 8260  346 Method 9012	(°C) 17.18 16.	PAH's BTEX vanide uplicate?	(mV) -330 -369 EARC	(mS/cm) 0.780 0.433 0.673	2 - 100 ml aml 3 - 40 ml via 1 - 250 ml pla	bers Yes	(g/L) 0.493 0.453 0.427
Sampling In  EPA SW-8  EPA SW-8  EPA SW-8  Sample ID:  Sample Time:	(feet)  5.75  5.40  5.98  formation:  46 Method 8270  846 Method 8260  846 Method 9012  MW-2(R)-	(°C) 17.18 16.	PAH's BTEX vanide uplicate?	(mV) -330 -311 -369369369369369	(mS/cm) 0.780 0.433 0.673	2 - 100 ml aml 3 - 40 ml via 1 - 250 ml pla	bers Yes stic Yes Ship to Pace	(g/L) 0.493 0.453 0.453 0.453 0.453 0.453
13:45   13:50   13:55   14:55   14:10   14:15   14:15   EPA SW-8   EPA SW-8   EPA SW-8   Sample ID:	(feet)  5.75  5.40  5.98  formation:  46 Method 8270  846 Method 8260  846 Method 9012  MW-2(R)-	(°C) 17.18 16.	PAH's BTEX vanide uplicate?	(mV) -330 -311 -369369369369369	(mS/cm) 0.780 0.433 0.673	2 - 100 ml aml 3 - 40 ml via 1 - 250 ml pla	bers Yes stic Yes	(g/L) 0.493 0.493 0.427 0.427 0.427 0.427 0.427

Sampling Personnel:	Date: 10/1/20
	Weather: 5mm to
	Fime In: 14:45 Time Out: 14:45
verila. Hiss-Sign)	Time and Type
Depth to Water: (feet) 2,75  Depth to Bottom: (feet) 24.30  Depth to Product: (feet) 1.35  Length of Water Column: (feet) 21.35	Well Type: Flushmount Stick-Up Well Locked: Yes No Measuring Point Marked: Yes No Well Material: PVC SS Other: Well Diameter: 1" 2" Other: Comments:
Purging Information  Purging Method: Tubing/Bailer Material: Sampling Method: Bailer Peristaltic Grundfos Purging Method: Bailer Peristaltic Grundfos Purging Method:  Average Pumping Rate: Duration of Pumping: Total Volume Removed: (gal) Did well go dry?  Horiba U-52 Water Quality Meter Used?  Peristaltic Grundfos Purging Grund	ene of
(feet) (°C) (mV) ((mV) (14:05 4.29 (6.70 9.48 -412 0) (4:10 5.71 16.18 9.55 -416 0) (4:15 6.57 16.38 9.62 -421 0) (4:20 7.13 15.85 9.76 -430 0) (4:25 7.84 15.50 9.97 -438 0) (4:30 8.19 15.34 10.05 -442 0)	.923 23.5 0.67 0.590 .884 22.8 0.64 0.565 .826 20.0 0.69 0.527
Sampling Information:	
EPA SW-846 Method 8270 SVOC PAH's EPA SW-846 Method 8260 VOC's BTEX EPA SW-846 Method 9012 Total Cyanide	2 - 100 ml ambers Yes No No No 1 - 250 ml plastic Yes No No No No
Sample ID: MW-5R(R)-1020 Duplicate? Yes No Sample Time: MS/MSD? Yes No Comments/Notes:	Shipped: Pace Courier Pickup Ship to Pace  Laboratory: Pace Analytical Greensburg, PA

Ogdensburg, New York	
Sampling Personnel: LL 6E	Date: 10/1/20
Job Number: 0603200-136690-221	Weather: PC 60
Well Id. MW-8R	Time In: 10.30 Time Out:
Well Information	
TOC Other	Well Type: Flushmount Stick-Up
Depth to Water: (feet) 2,20	Well Locked: Yes No
Depth to Bottom: (feet) 20.92	Measuring Point Marked: Yes No No Well Material: PVC SS Other:
Depth to Product: (feet) // P  Length of Water Column: (feet) // 2,72	Well Diameter: 1" 2" Other:
Volume of Water in Well: (gal) 2-99	
Three Well Volumes: (gal) 9 - 9 0	Product in Tubing ~ 2 inside
Purging Information	
	Conversion Factors  S Pump   Conversion Factors   Conversion Factor   Conversion Factor
Purging Method: Bailer Peristaltic Grundfor	gai/it.
	of
Sampling Method: Bailer Peristaltic Grundform  Average Pumping Rate: (ml/min) 200	1 gallon=3.785L=3785mL=1337cu. feet
Duration of Pumping: (min) 30	
Total Volume Removed: (gal) 7 Did well go dry?	Yes No
Horiba U-52 Water Quality Meter Used?	
Florida 0-32 vvaler Quality wieter osed:	
Time DTW Temp DH ORP	Conductivity Turbidity DO TDS
Time DTW Temp pH ORP (feet) (°C) (mV)	Conductivity Turbidity DO TDS (mS/cm) (NTU) (mg/L) (g/L)
(feet) (°C) (mV)	(mS/cm) (NTU) (mg/L) (g/L) 0,658 79,0 2,38 0,418
(feet) (°C) (mV)  10:45 2.87 19.82 7.70 -280	(mS/cm)         (NTU)         (mg/L)         (g/L)           0.658         79.0         2.38         0.418           0.660         53.9         2.04         0.422
(feet) (°C) (mV) 10:45 2.89 19.82 7.70 -280 10:40 4.73 18.16 7.42 -360 12:45 5.23 18.40 7.40 -368	(mS/cm)         (NTU)         (mg/L)         (g/L)           0.658         79.0         2.38         0.418           0.660         53.9         2.04         0.422           0.658         51.3         2.10         0.421
(feet) (°C) (mV)  10:45 2.89 19.82 7.70 -280  10:40 4.73 18.16 7.42 -360  10:45 5.23 18.40 7.40 -368  (\$1.00 6.06 18.32 7.36 -380	(mS/cm)         (NTU)         (mg/L)         (g/L)           0.658         79.0         2.38         0.418           0.660         53.9         2.04         0.422           0.658         51.3         2.10         0.421           0.669         29.0         2.17         0.428
(feet) (°C) (mV)  10:45 2.89 19.82 7.70 -280  10:40 4.73 18.16 7.42 -360  10:45 5.23 18.40 7.40 -368  11:60 6.06 18.32 7.36 -386	(mS/cm)         (NTU)         (mg/L)         (g/L)           0.658         79.0         2.38         0.418           0.660         53.9         2.04         0.422           0.658         57.3         2.10         0.421           0.669         29.0         2.17         0.428           0.675         30.1         2.18         0.431
(feet) (°C) (mV)  10:45 2.89 19.82 7.70 -280  10:40 4.73 18.16 7.42 -360  10:45 5.23 18.40 7.40 -368  11:40 6.06 18.32 7.36 -386  11:40 7.26 18.12 7.36 -393	(mS/cm)         (NTU)         (mg/L)         (g/L)           0,658         79.0         2.38         0.418           0,660         53.9         2.04         0,422           0.658         51.3         2.10         0,421           0.669         29.0         2.17         0,428           0,675         30.1         2.18         0,431           0,678         12.0         2.20         0,433
(feet) (°C) (mV)  10:45 2.89 19.82 7.70 -280  10:40 4.73 18.16 7.42 -360  10:45 5.23 18.40 7.40 -368  11:40 6.06 18.32 7.36 -386  11:40 7.26 18.12 7.36 -393  11:45 7.48 18.18 7.34 -385	(mS/cm)         (NTU)         (mg/L)         (g/L)           0.658         79.0         2.38         0.418           0.660         53.9         2.04         0.422           0.658         51.3         2.10         0.421           0.669         29.0         2.17         0.428           0.675         30.1         2.18         0.431           0.678         12.0         2.20         0.433           0.681         (0.1         2.14         0.436
(feet) (°C) (mV)  10:45 2.89 19.82 7.70 -280  10:40 4.73 18.16 7.42 -360  10:45 5.23 18.40 7.40 -368  11:40 6.06 18.32 7.36 -386  11:40 7.26 18.12 7.36 -393	(mS/cm)         (NTU)         (mg/L)         (g/L)           0,658         79.0         2.38         0.418           0,660         53.9         2.04         0,422           0.658         51.3         2.10         0,421           0.669         29.0         2.17         0,428           0,675         30.1         2.18         0,431           0,678         12.0         2.20         0,433
(feet) (°C) (mV)  10:45 2.89 19.82 7.70 -280  10:40 4.73 18.16 7.42 -360  10:45 5.23 18.40 7.40 -368  11:40 6.06 18.32 7.36 -386  11:40 7.26 18.12 7.36 -393  11:45 7.48 18.18 7.34 -385	(mS/cm)         (NTU)         (mg/L)         (g/L)           0.658         79.0         2.38         0.418           0.660         53.9         2.04         0.422           0.658         51.3         2.10         0.421           0.669         29.0         2.17         0.428           0.675         30.1         2.18         0.431           0.678         12.0         2.20         0.433           0.681         (0.1         2.14         0.436
(feet) (°C) (mV)  10:45 2.89 19.82 7.70 -280  10:40 4.73 18.16 7.42 -360  10:45 5.23 18.40 7.40 -368  11:40 6.06 18.32 7.36 -386  11:40 7.26 18.12 7.36 -393  11:45 7.48 18.18 7.34 -385	(mS/cm)         (NTU)         (mg/L)         (g/L)           0.658         79.0         2.38         0.418           0.660         53.9         2.04         0.422           0.658         51.3         2.10         0.421           0.669         29.0         2.17         0.428           0.675         30.1         2.18         0.431           0.678         12.0         2.20         0.433           0.681         (0.1         2.14         0.436
(feet) (°C) (mV)  10:45 2.89 19.82 7.70 -280  10:40 4.73 18.16 7.42 -360  10:45 5.23 18.40 7.40 -368  11:40 6.06 18.32 7.36 -386  11:40 7.26 18.12 7.36 -393  11:45 7.48 18.18 7.34 -385	(mS/cm)         (NTU)         (mg/L)         (g/L)           0.658         79.0         2.38         0.418           0.660         53.9         2.04         0.422           0.658         51.3         2.10         0.421           0.669         29.0         2.17         0.428           0.675         30.1         2.18         0.431           0.678         12.0         2.20         0.433           0.681         (0.1         2.14         0.436
(feet) (°C) (mV)  10:45 2.89 19.82 7.70 -280  10:40 4.73 18.16 7.42 -360  10:45 5.23 18.40 7.40 -368  11:40 6.06 18.32 7.36 -386  11:40 7.26 18.12 7.36 -393  11:45 7.48 18.18 7.34 -385	(mS/cm)         (NTU)         (mg/L)         (g/L)           0.658         79.0         2.38         0.418           0.660         53.9         2.04         0.422           0.658         51.3         2.10         0.421           0.669         29.0         2.17         0.428           0.675         30.1         2.18         0.431           0.678         12.0         2.20         0.433           0.681         (0.1         2.14         0.436
(feet) (°C) (mV)  10:45 2.87 19.82 7.70 -280  10:40 4.73 18.16 7.42 -360  10:35 5.23 18.40 7.40 -368  11:40 6.06 18.32 7.36 -386  11:40 7.26 18.12 7.36 -393  11:15 7.48 18.18 7.34 -395  11:120 7.75 18.17 7.33 -397	(mS/cm) (NTU) (mg/L) (g/L)  0.658 79.0 2.38 0.418  0.660 53.9 2.04 0.422  0.658 57.3 2.10 0.421  0.669 29.0 2.17 0.428  0.675 30.1 2.18 0.431  0.678 12.0 2.20 0.433  0.681 (0.1 2.14 0.436  0.684 9.7 2.14 0.438
(feet) (°C) (mV)  10:45	(mS/cm) (NTU) (mg/L) (g/L)  0.658 79.0 2.38 0.418  0.660 53.9 2.04 0.422  0.658 57.3 2.10 0.421  0.669 29.0 2.17 0.428  0.675 30.1 2.18 0.431  0.678 12.0 2.20 0.433  0.681 (0.1 2.14 0.436  0.684 9.7 2.14 0.438
(feet) (°C) (mV)  10:45	(mS/cm) (NTU) (mg/L) (g/L)  0.658 79.0 2.38 0.418  0.660 53.9 2.04 0.422  0.658 57.3 2.10 0.42/  0.669 29.0 2.17 0.428  0.675 30.1 2.18 0.431  0.678 (2.0 2.20 0.433  0.681 (0.1 2.14 0.436  0.684 9.7 2.14 0.436  0.684 9.7 2.14 0.438
(feet) (°C) (mV)   (0.45   2.89   19.82   7.70   -280   10.50   4.73   18.76   7.42   -3.60   10.55   5.23   7.40   7.40   -3.68   7.20   6.06   7.32   7.36   -3.86   7.26   7.26   7.34   -3.86   7.26   7.26   7.34   -3.93   7.36   -3.93   7.36   -3.93   7.36   7.37	(mS/cm) (NTU) (mg/L) (g/L)  0.658 79.0 2.38 0.418  0.660 53.9 2.04 0.422  0.658 57.3 2.10 0.421  0.669 29.0 2.17 0.428  0.675 30.1 2.18 0.431  0.678 12.0 2.20 0.433  0.681 (0.1 2.14 0.436  0.684 9.7 2.14 0.438
(feet)	(mS/cm) (NTU) (mg/L) (g/L)  0.658 79.0 2.38 0.418  0.660 53.9 2.04 0.421  0.658 57.3 2.10 0.421  0.669 29.0 2.17 0.428  0.675 30.1 2.18 0.431  0.678 12.0 2.20 0.433  0.681 (0.1 2.14 0.436  0.684 9.7 2.14 0.436  0.684 9.7 2.14 0.438
(feet)	(mS/cm) (NTU) (mg/L) (g/L)  0.658 79.0 2.38 0.418  0.660 53.9 2.04 0.422  0.658 57.3 2.10 0.421  0.669 29.0 2.17 0.428  0.675 30.1 2.18 0.431  0.678 (2.0 2.20 0.433  0.681 (0.1 2.14 0.436  0.684 9.7 2.14 0.436  0.684 9.7 2.14 0.438
(feet) (°C) (mV)  (0.15	(mS/cm) (NTU) (mg/L) (g/L)  0.658 79.0 2.38 0.418  0.660 53.9 2.04 0.421  0.669 29.0 2.17 0.428  0.675 30.1 2.18 0.431  0.678 12.0 2.20 0.433  0.681 (0.1 2.14 0.436  0.684 9.7 2.14 0.436  0.684 9.7 2.14 0.438  Shipped: Pace Courier Pickup Ship to Pace
(feet)	(mS/cm) (NTU) (mg/L) (g/L)  0.658 79.0 2.38 0.418  0.660 53.9 2.04 0.422  0.658 57.3 2.10 0.421  0.669 29.0 2.17 0.428  0.675 30.1 2.18 0.431  0.678 12.0 2.20 0.433  0.681 (0.1 2.14 0.436  0.684 9.7 2.14 0.436  0.684 9.7 2.14 0.438  Shipped: Pace Courier Pickup

	<del></del>					, ,		***
Sampling Person	onnel:	<u> </u>	<u>E</u>	<del> </del>	Date:	10/1/20	<u> </u>	
Job Number:	0603200-13	86690-221			Weather:	PC S	· }	
Well ld.	MW-9			· · · · · · · · · · · · · · · · · · ·	Time In:	79:40	Time Out:	
VVCII Id.	11111-0			·				<u>.</u>
Well Info	rmation		TOC	Other	Well Type:		hmount	Stick-Up
Depth to Water	r:	(feet)	1.85		Well Locke		Yes	No
Depth to Botton		(feet)	6.35		•	oint Marked:	Yes	No
Depth to Produ		(feet)	NP		Well Mater			
Length of Wate	· · · · · · · · · · · · · · · · · · ·	(feet)	45		Well Diame		2" \( \sum \) Oth	ier:
Volume of Wat		(gal) T	2.232		Comments	:		
Three Well Vol	lumes:	(gal)	2-690	<u></u>				
		·····			<del></del>			1
Purging In	formation					<del> </del>		···
		_				<u> </u>	Conversion F	<del>, , , , , ,</del> , ,
Purging Metho		Bailer	$\vdash$	k	os Pump	gal/ft.	1" ID 2" ID	4" ID 6" ID
Tubing/Bailer I		Teflon	<del></del>	<del></del>	ethylene	of		0 66 4 47
Sampling Meth		Bailer	L	Grundfo	os Pump	water	0.04 0.16	
Average Pump		(ml/min)	200			1 gal	on=3.785L=3785n	nL=1337cu. feet
Duration of Pu		(min)	~ 10 min		57			
Total Volume I	Removed:	(gal)	D	id well go dry?	Yes X No			
Horiba U-52 W	Vater Quality M	leter Used?	Yes	N₀	•			
1			**=# <u>-</u>				· · · · · · · · · · · · · · · · · · ·	
Time	DTW	Temp	Ha	ORP	Conductivity	Turbidity	DO	TDS
Time	DTW (feet)	Temp (°C)	pН	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	}	TDS (g/L)
Time	DTW (feet)	Temp (°C)	pH	ORP (mV)	· ·	•	DO (mg/L)	
10:00	(feet)	(°C)		(mV)	· ·	•	}	
10:05	(feet)	•	8.82	(mV) -227	(mS/cm)	(NTU)	(mg/L)	(g/L)
10:00	(feet)	(°C)		(mV) -227	(mS/cm)	(NTU)	(mg/L)	(g/L)
10:05	(feet)	(°C)	8.82	(mV) -227	(mS/cm)	(NTU)	(mg/L)	(g/L)
10:05 10:10 10:15 10:20	(feet)	(°C)	8.82	(mV) -227	(mS/cm)	(NTU)	(mg/L)	(g/L)
10:05 10:10 10:15	(feet)	(°C)	8.82	(mV) -227	(mS/cm)	(NTU)	(mg/L)	(g/L)
10:05 10:10 10:15 10:25 10:25	(feet)	(°C)	8.82	(mV) -227	(mS/cm)	(NTU)	(mg/L)	(g/L)
10:05 10:10 10:15 10:25 10:25	(feet)	(°C)	8.82	(mV) -227	(mS/cm)	(NTU)	(mg/L)	(g/L)
10:05 10:10 10:15 10:25 10:25	(feet)	(°C)	8.82	(mV) -227	(mS/cm)	(NTU)	(mg/L)	(g/L)
10:05 10:10 10:15 10:25 10:25	(feet)	(°C)	8.82	(mV) -227	(mS/cm)	(NTU)	(mg/L)	(g/L)
10:05 10:10 10:15 10:25 10:25	(feet)	(°C)	8.82	(mV) -227	(mS/cm)	(NTU)	(mg/L)	(g/L)
10:05 10:10 10:15 10:25 10:25	(feet)	(°C)	8.82	(mV) -227	(mS/cm)	(NTU)	(mg/L)	(g/L)
10:05 10:10 10:15 10:25 10:30 10:35	(feet)	(°C)	8.82	(mV) -227	(mS/cm)	(NTU)	(mg/L)	(g/L)
10:05 10:10 10:15 10:25 10:30 10:35	(feet)	(°C)	8.82 Vell 901	(mV) -227	(mS/cm)	(NTU)	(mg/L)	(g/L)
10:05 10:10 10:15 10:25 10:30 10:35 Sampling Inf	(feet)	(°C)  /6.66 /ed - U	8.82 Vell 901	(mV) -227	(mS/cm)	(NTU) /60	(mg/L)	(g/L) 0.848
10:05 10:10 10:15 10:25 10:30 10:35 Sampling Inf	formation:  46 Method 8270 46 Method 8260	(°C)  /6.66  /ed - U  svoc  voc's	8.82 Vell 901 PAH's BTEX	(mV) -227	(mS/cm)	(NTU) /60 2 - 100 ml aml	eers Yels Yels	(g/L)  0.848  s No No No
10:05   10:10   10:15   10:25   10:30   10:35   EPA SW-84   EPA SW-84	formation:  46 Method 8270	SVOC VOC'S Total C	PAH's BTEX yanide uplicate?	(mV) -227	(mS/cm)	2 - 100 ml aml 3 - 40 ml via 1 - 250 ml pla	oers Yestic Yestic Yestic Yestic Yestic Pace Courier Pic	(g/L)  0.848  s No
10:05   10:10   10:15   10:25   10:30   10:35   10:35   10:35   EPA SW-8   EPA SW-8	formation:  46 Method 8270 46 Method 8260 46 Method 9012	SVOC VOC'S Total C	PAH's BTEX yanide uplicate?	(mV) -227 15 dry	(mS/cm)	2 - 100 ml aml 3 - 40 ml via 1 - 250 ml pla	pers Yestic Yestic Yes	(g/L)  0.848  s No
10:05   10:15   10:25   10:25   10:30   10:35   10:3	feet)  5,85  6 Method 8270  46 Method 8260  46 Method 9012  MW-9-10	SVOC VOC'S Total C	PAH's BTEX yanide uplicate?	Yes No	(mS/cm)	2 - 100 ml amb 3 - 40 ml via 1 - 250 ml pla	oers Yestic Yestic Yestic Pace Courier Pic	(g/L)  0.848  s No
10:05   10:15   10:15   10:25   10:30   10:35   10:35   10:35   EPA SW-8   EPA SW-8   EPA SW-8   EPA SW-8	feet)  5,85  6 Method 8270  46 Method 8260  46 Method 9012  MW-9-10	SVOC VOC'S Total C	PAH's BTEX yanide uplicate?	Yes No	(mS/cm)	2 - 100 ml aml 3 - 40 ml via 1 - 250 ml pla	oers Yestic Yestic Yestic Yestic Yestic Pace Courier Pic	s No

Sampling Personnel:	-6-			Date:	10/1/2	2020	
Number: 0603200-1	36690-221			Weather:	Clear	50'5	<del>,</del>
					_		09:40
Well ld. MW-10R				Time In: 0	7.00	Hille Out.	
Well Information					· · · · · · · · · · · · · · · · · · ·		
vveii iriioimation		тос	Other	Well Type:	Flue	hmount	Stick-Up
Depth to Water:	(feet)	0.50	Otilei	Well Locker		Yes	No
Depth to Bottom:	<del>``</del>	22.50		Measuring Po		Yes	No
Depth to Product:	(feet)	<del>) p</del>		Well Materi	ı		
Length of Water Column:		22.0		Well Diame		2" 🗙 🔾 🔾	ner:
Volume of Water in Well:	(gal)	3-52		Comments:	•		
Three Well Volumes:	1 4	0.50					1
	(0-7   1/2)	7.7.4					_
Purging Information	-						
	•					Conversion F	actors
Purging Method:	Bailer	Peristaltic	Grund	fos Pump	gal/ft.	1" ID 2" ID	4" ID 6" ID
Tubing/Bailer Material:	Teflon	Stainless St.	<u></u>	yethylene	gaint. of		
Sampling Method:	Bailer	Peristaltic		fos Pump	water	0.04 0.16	0.66 1.47
Average Pumping Rate:		200	<u> </u>	" langed	1 gall	on=3.785L=3785n	nL=1337cu. feet
Duration of Pumping:	(min)	<u>30</u>					
Total Volume Removed:	(gal)		id well go dry?	Yes No	$\overline{\times}$		
بر باعتان riba U-52 Water Quality I			No∏	,	<u></u>		
Da O-52 Water Quality	Merel Ozedi	165		<u></u>			
		11		I C	To such it all for a	<u> </u>	T TOO I
Time DTW	Temp	pН	ORP	Conductivity	Turbidity	DO (mg/L)	TDS (g/L)
(feet)	(°C)	•	(mV)	(mS/cm)	(NTU)	(mg/L)	(g/L)
(feet) 09:05 1.37	(°C) 16.62	7.63	(mV) ~123	(mS/cm)	(NTU)	(mg/L)	(g/L) 6.374
09:05 1:37 09:10 2.20	(°C) 16.67 16.58	7.63	(mV) -123 -215	(mS/cm) 0.596 0.603	(NTU) 12 & 5.9	(mg/L) 1.36	(g/L) 6.374 0.388
09:05 1:37 09:10 2,30 09:15 2,49	(°C) 16.58 16.39	7.83 9.35 9.17	(mV) -123 -215 -273	(mS/cm) 0.586 0.603 0.698	(NTU) 12 B 5.9 3.8	(mg/L) 1.36 1.50 0.83	(g/L) 0.374 0.388 0,449
(feet) 09:05 1:37 09:10 2.30 09:15 2.49 08:20 2.85	(°C) 16.58 16.39 16.39	7.83 9.35 9.77 9.95	(mV) -123 -215 -273 -304	(mS/cm) 0.586 0.693 0.698 0.743	(NTU) 12 % 5,9 3,8	(mg/L) 1.36 1.30 0.83 0.78	(g/L) 0.374 0.388 0.449 0.476
(feet) 09:08 1:37 09:10 2,30 09:15 2,49 08:20 2,85 04:25 3.07	(°C) 16.58 16.39 16.39 16.10 15.94	7.83 9.35 9.17 9.95 9.93	(mV) -123 -215 -273 -304 -315	(mS/cm) 0.596 0.603 0.698 0.743	(NTU) 12 % 5.9 3.8 0.0	(mg/L)  1.36  1.30  0.83  0.78  6.78	(g/L) 6.374 0.388 0.449 0.476 0.474
(feet) 09:05 1:37 09:10 2,30 09:15 2,49 09:25 3.67 09:30 3.35	(°C) 16.58 16.39 16.10 15.94 15.87	7.83 9.35 9.17 9.95 9.93 9.24	(mV) -123 -215 -273 -304 -315 -330	(mS/cm) 0.596 0.603 0.698 0.743 0.741 0.740	(NTU) 12 % 5.9 3.8 0.0 0.0	(mg/L) 1.36 1.30 0.83 0.78 0.78 0.80	(g/L) 6.374 0.388 0.449 0.476 0.474 0.473
(feet) 09:08 1:37 09:10 2,30 09:15 2,49 08:20 2,85 04:25 3.07	(°C) 16.58 16.39 16.39 16.10 15.94	7.83 9.35 9.17 9.95 9.93	(mV) -123 -215 -273 -304 -315	(mS/cm) 0.596 0.603 0.698 0.743	(NTU) 12 % 5.9 3.8 0.0	(mg/L)  1.36  1.30  0.83  0.78  6.78	(g/L) 6.374 0.388 0.449 0.476 0.474
(feet) 09:05 1:37 09:10 2,30 09:15 2,49 09:25 3.67 09:30 3.35	(°C) 16.58 16.39 16.10 15.94 15.87	7.83 9.35 9.17 9.95 9.93 9.24	(mV) -123 -215 -273 -304 -315 -330	(mS/cm) 0.596 0.603 0.698 0.743 0.741 0.740	(NTU) 12 % 5.9 3.8 0.0 0.0	(mg/L) 1.36 1.30 0.83 0.78 0.78 0.80	(g/L) 6.374 0.388 0,449 0,476 0,474 0,473
(feet) 09:05 1:37 09:10 2,30 09:15 2,49 09:25 3.67 09:30 3.35	(°C) 16.58 16.39 16.10 15.94 15.87	7.83 9.35 9.17 9.95 9.93 9.24	(mV) -123 -215 -273 -304 -315 -330	(mS/cm) 0.596 0.603 0.698 0.743 0.741 0.740	(NTU) 12 % 5.9 3.8 0.0 0.0	(mg/L) 1.36 1.30 0.83 0.78 0.78 0.80	(g/L) 6.374 0.388 0,449 0,476 0,474 0,473
(feet) 09:05 1:37 09:10 2,30 09:15 2,49 09:25 3.67 09:30 3.35	(°C) 16.58 16.39 16.10 15.94 15.87	7.83 9.35 9.17 9.95 9.93 9.24	(mV) -123 -215 -273 -304 -315 -330	(mS/cm) 0.596 0.603 0.698 0.743 0.741 0.740	(NTU) 12 % 5.9 3.8 0.0 0.0	(mg/L) 1.36 1.30 0.83 0.78 0.78 0.80	(g/L) 6.374 0.388 0,449 0,476 0,474 0,473
(feet) 09:05 1:37 09:10 2,30 09:15 2,49 09:25 3.67 09:30 3.35	(°C) 16.58 16.39 16.10 15.94 15.87	7.83 9.35 9.17 9.95 9.93 9.24	(mV) -123 -215 -273 -304 -315 -330	(mS/cm) 0.596 0.603 0.698 0.743 0.741 0.740	(NTU) 12 % 5.9 3.8 0.0 0.0	(mg/L) 1.36 1.30 0.83 0.78 0.78 0.80	(g/L) 6.374 0.388 0,449 0,476 0,474 0,473
(feet) 09:05 1:37 09:10 2,30 09:15 2,49 08:20 2,85 08:25 3.07 09:36 3,35	(°C) 16.58 16.39 16.10 15.94 15.87	7.83 9.35 9.17 9.95 9.93 9.24	(mV) -123 -215 -273 -304 -315 -330	(mS/cm) 0.596 0.603 0.698 0.743 0.741 0.740	(NTU) 12 % 5.9 3.8 0.0 0.0	(mg/L) 1.36 1.30 0.83 0.78 0.78 0.80	(g/L) 6.374 0.388 0,449 0,476 0,474 0,473
(feet) 09:05 1:37 09:10 2,30 09:15 2,49 09:25 3.67 09:30 3.35	(°C) 16.58 16.39 16.10 15.94 15.87	7.83 9.35 9.17 9.95 9.93 9.24	(mV) -123 -215 -273 -304 -315 -330	(mS/cm) 0.596 0.603 0.698 0.743 0.741 0.740	(NTU) 12 % 5.9 3.8 0.0 0.0	(mg/L) 1.36 1.30 0.83 0.78 0.78 0.80	(g/L) 6.374 0.388 0,449 0,476 0,474 0,473
(feet) (9:05 1.37 (9:10 2.32 (9:10 2.49 (8:20 2.85 (9:25 3.67 (9:30 3.35 (9:35 3.54) (9:35 3.54)	(°C) 16.58 16.39 16.10 15.94 15.87 15.80	7.63 9.35 9.17 9.95 9.93 9.94 2.93	(mV) -123 -215 -273 -304 -315 -330	(mS/cm) 0.596 0.603 0.698 0.743 0.741 0.740	(NTU) 12. % 5.9 3.8 0.0 0.0 0.0	(mg/L) 1.36 1.30 0.83 0.78 0.78 0.80 0.79	(g/L) 6.374 0.388 0.449 0.476 0.474 0.473 0.473
(feet) (79:10 1.37 (79:10 2.30 (79:10 2.30 (79:20 2.85 (79:20 3.35 (79:30 3.35 (79:30 3.54) (9:35 3.54)  Sampling Information:  EPA SW-846 Method 827	(°C) 16.58 16.39 16.10 15.94 15.87 15.80	7.63 9.35 9.17 9.93 9.94 2.93	(mV) -123 -215 -273 -304 -315 -330	(mS/cm) 0.596 0.603 0.698 0.743 0.741 0.740	(NTU) 12-86 5.9 3.8 0.0 0.0 0.0 0.0 4-100 ml amt	(mg/L)  1.36  1.30  0.83  0.78  0.80  0.79  Ders Yes	(g/L) 6.374 0.388 0.449 0.476 0.474 0.473
(feet) (9:05 1.37 (9:10 2.30 (9:15 2.49 (8:20 2.85 (9:25 3.67 (9:36 3.54 (9:36 3.54 (9:36 3.54 (9:36 846 Method 827) (EPA SW-846 Method 826	(°C) 16.58 16.39 16.10 15.94 15.87 15.80 SVOC F	7.63 9.35 9.77 9.93 9.94 2.93	(mV) -123 -215 -273 -304 -315 -330	(mS/cm) 0.596 0.603 0.698 0.743 0.741 0.740	(NTU) 12-86 5.9 3.8 0.0 0.0 0.0 0.0 0.0 4-100 ml aml 6-40 ml via	(mg/L)  1.36  1.30  0.83  0.78  0.80  0.79  Ders Years	(g/L) 0.374 0.388 0.449 0.474 0.473 0.473
(feet)   (737   (79.10   1.37   (79.10   2.30   2.49   (79.10   2.85   2.49   (79.10   2.30   3.35   (79.30	(°C) 16.58 16.39 16.10 15.94 15.87 15.80 SVOC F	7.63 9.35 9.77 9.93 9.94 2.93	(mV) -123 -215 -273 -304 -315 -330	(mS/cm) 0.596 0.603 0.698 0.743 0.741 0.740	(NTU) 12-86 5.9 3.8 0.0 0.0 0.0 0.0 4-100 ml amt	(mg/L)  1.36  1.30  0.83  0.78  0.80  0.79  Ders Years	(g/L) 0.374 0.388 0.449 0.474 0.474 0.473 0.473
(feet)   (737   (79:10   1.37   (79:10   2.32   2.85   (79:20   2.85   (79:20   3.35   (79:30   3.35   (79:35   3.54   (79:3	(°C) 16.58 16.39 16.10 15.94 15.87 15.80 SVOC F VOC's E 2 Total Cys	9, 35 9, 35 9, 17 9, 93 9, 94 2, 93	(mV) -123 -215 -273 -304 -315 -330 -339	(mS/cm) 0.596 0.603 0.698 0.743 0.740 0.740	(NTU) 12- % 5.9 3.8 0.0 0.0 0.0 0.0 0.0 4-100 ml amt 6-40 ml via 2-250 ml pla	(mg/L)  1.36  1.30  0.83  0.78  0.80  0.79  0.79  Ders Yestic Yestic Yestic	(g/L) 6.374 0.388 0.449 0.476 0.474 0.473 0.473 s No s No
(feet)   (737   (79.10   1.37   (79.10   2.30   2.49   (79.20   2.85   2.49   (79.30   3.35	(°C) 16.58 16.39 16.10 15.94 15.87 15.80 SVOC F VOC's E 2 Total Cy:	9,35 9,35 9,77 9,93 9,94 2,93 PAH's BTEX anide	(mV) -123 -215 -273 -304 -315 -330 -339	(mS/cm) 0.596 0.603 0.698 0.743 0.740 0.740	(NTU) 12- % 5.9 3.8 0.0 0.0 0.0 0.0 0.0 4-100 ml amt 6-40 ml via 2-250 ml pla	(mg/L)  1.3 (a)  1.3	(g/L) (G.3.74) (G.3.74) (G.3.74) (G.3.74) (G.3.74) (G.4.73) (G.4.7
(feet)   (737   (79.10   1.37   (79.10   2.30   2.49   (79.20   2.85   2.49   (79.30   3.35	(°C) 16.58 16.39 16.10 15.94 15.87 15.80 SVOC FOR VOC'S ED TOTAL CYC.	9, 35 9, 35 9, 17 9, 93 9, 94 2, 93	(mV) -123 -215 -273 -304 -315 -330 -339	(mS/cm) 0.596 0.603 0.698 0.743 0.740 0.740	(NTU) 12- % 3. 8 0.0 0.0 0.0 0.0 0.0 0.0 4-100 ml amt 6-40 ml via 2-250 ml pla	oers Yestic Yestic Ship to Pace	(g/L) (
(feet)   (737   (79.10   1.37   (79.10   2.30   2.49   (79.20   2.85   2.49   (79.30   3.35	(°C) 16.58 16.39 16.10 15.94 15.87 15.80 SVOC F VOC's E 2 Total Cy:	9,35 9,35 9,77 9,93 9,94 2,93 PAH's BTEX anide	(mV) -123 -215 -273 -304 -315 -330 -339	(mS/cm) 0.596 0.603 0.698 0.743 0.740 0.740	(NTU) 12- % 5.9 3.8 0.0 0.0 0.0 0.0 0.0 4-100 ml amt 6-40 ml via 2-250 ml pla	(mg/L)  1.3 (a)  1.3	(g/L) (

Siling Baranah	GE.	<del></del>	<del></del>	Date:	10/1/20	·····	
mpling Personnel:					7//	60'5	
Jub Number: 060320	0-136690-221			Weather:	Clear		
Well Id. MW-11			<u></u>	Time In:	12:45	Time Out:	
			<del></del>				
Well Information	<del></del>	тос	Other	Well Type	: Flus	hmount	Stick-Up
Depth to Water:	(feet)	3,49		Well Lock		Yes	No
Depth to Bottom:	(feet)	6.51		Measuring	Point Marked:	Yes 🔀	No
Depth to Product:	(feet)	NP		Well Mate	rial: PVC	⊠ssoth	
Length of Water Column:	(feet) 2	.07_		Well Diam	eter: 1"	2" \_Oth	ner:
Volume of Water in Well:	(gal) $\hat{\mathcal{O}}$	49		Comment	3:		
Three Well Volumes:	(gal)	14					
		· (					
1					<del></del>		
Purging Information					<del> </del>	0	
<b></b>		<u> </u>	<b>N</b> -	🗀	<u> </u>	Conversion F	11
Purging Method:	Bailer	Peristaltic	<del>- 1</del>	os Pump	gal/ft.	1" ID 2" ID	4" ID 6" ID
Tubing/Bailer Material:	Teflon	<b>—</b>	<del>- 3</del>	ethylene X	of	0.04 0.16	0.66 1.47
Sampling Method:	Bailer	Peristaltic	Grundi	os Pump	water	· · · · · · · · · · · · · · · · · · ·	• •
Average Pumping Rate:		200			1 gail	on=3.785L=3785n	nL=1337cu. feet
Duration of Pumping:	(min)		id well go dry?	Yes No			
Total Volume Removed:	(gal)			resn	'L		
iba U-52 Water Quali	ty Meter Used?	Yes	No □				
Time DTW	Temp	рН	ORP	Conductivity	Turbidity	DO	TDS
Time DTW (feet)	(°C)		(mV)	(mS/cm)	(NTU)	(mg/L)	(g/L)
11 1	(°C) 7 15.48	7.72	i	(mS/cm)	(NTU) 20,2	(mg/L)	(g/L) 0,857
(feet) (2:55 3.77 (3:00 3.77	(°C) 7 15.48 7 15.07	7.72	(mV) -346 -325	(mS/cm)	(NTU)	(mg/L) 1,52 0,98	(g/L) 0,857 0.987
(feet) (2:55 3.77 (3:00 3.77 (3:05 3.86	(°C) 7 15.48 9 15.07 9 14-89	7.72 7.20 7.02	(mV) -346 -325 -320	(mS/cm)	(NTU) 20,2 17.4 16.4	(mg/L) 1,52 0,98 0,89	(g/L) 0,857 0.987
(feet) (2:55 3.77 (3:05 3.77 (3:05 3.86 (3:10 7.8)	(°C) 7 15.48 9 15.07 9 14.89 2 14.77	7.72 7.20 7.02 6.89	(mV) -746 -725 -320 -318	(mS/cm) 1,31 1,54 1,57	(NTU) 20,2 17.4 16.4 14.9	(mg/L) 1,52 0,58 0,89 0,81	(g/L) 0.857 0.987 1.01
(feet) (2:55 3.77 (3:05 3.76 (3:05 3.86 (3:15 3.86	(°C) 7 15.48 9 15.97 9 14-89 2 14.77 3 14.80	7.72 7.20 7.02 6.89 6.85	(mV) -346 -325 -320 -318 -317	(mS/cm) 1,31 1,54 1,57 1,58	(NTU) 20.2 17.4 16.4 14.9 14.7	(mg/L) 1,52 0,58 0,89 0,81 0,79	(g/L) 0.857 0.987 1.01 1.01
(feet) (2:55 3.77 (3:00 3.77 (3:05 3.86 (3:15 3.86 (3:20 3.84	(°C) 7 15.48 9 15.07 9 14.89 2 14.77 8 14.80 ( 14.70	7.72 7.20 7.02 6.89	(mV) -346 -325 -320 -318 -317 -317	(mS/cm) 1.31 1.54 1.57 1.58 1.58	(NTU) 20.2 17.4 16.4 14.9 14.7 12.4	(mg/L)  1,52  3,98  0,89  0,81  0,79  0,78	(g/L) 0.857 0.987 1.01 1.01 1.01
(feet) (2:55 3.77 (3:05 3.76 (3:05 3.86 (3:15 3.86	(°C) 7 15.48 9 15.97 9 14-89 2 14.77 3 14.80	7.72 7.20 7.02 6.89 6.85	(mV) -346 -325 -320 -318 -317	(mS/cm) 1,31 1,54 1,57 1,58	(NTU) 20.2 17.4 16.4 14.9 14.7	(mg/L) 1,52 0,58 0,89 0,81 0,79	(g/L) 0.857 0.987 1.01 1.01
(feet) (2:55 3.77 (3:00 3.77 (3:05 3.86 (3:15 3.86 (3:20 3.84	(°C) 7 15.48 9 15.07 9 14.89 2 14.77 8 14.80 ( 14.70	7.72 7.20 7.02 6.89 6.85	(mV) -346 -325 -320 -318 -317 -317	(mS/cm) 1.31 1.54 1.57 1.58 1.58	(NTU) 20.2 17.4 16.4 14.9 14.7 12.4	(mg/L)  1,52  3,98  0,89  0,81  0,79  0,78	(g/L) 0.857 0.987 1.01 1.01 1.01
(feet) (2:55 3.77 (3:00 3.77 (3:05 3.86 (3:15 3.86 (3:20 3.84	(°C) 7 15.48 9 15.07 9 14.89 2 14.77 8 14.80 ( 14.70	7.72 7.20 7.02 6.89 6.85	(mV) -346 -325 -320 -318 -317 -317	(mS/cm) 1.31 1.54 1.57 1.58 1.58	(NTU) 20.2 17.4 16.4 14.9 14.7 12.4	(mg/L)  1,52  3,98  0,89  0,81  0,79  0,78	(g/L) 0.857 0.987 1.01 1.01 1.01
(feet) (2:55 3.77 (3:00 3.77 (3:05 3.86 (3:15 3.86 (3:20 3.84	(°C) 7 15.48 9 15.07 9 14.89 2 14.77 8 14.80 ( 14.70	7.72 7.20 7.02 6.89 6.85	(mV) -346 -325 -320 -318 -317 -317	(mS/cm) 1.31 1.54 1.57 1.58 1.58	(NTU) 20.2 17.4 16.4 14.9 14.7 12.4	(mg/L)  1,52  3,98  0,89  0,81  0,79  0,78	(g/L) 0.857 0.987 1.01 1.01 1.01
(feet) (2:55 3.77 (3:00 3.77 (3:05 3.86 (3:15 3.86 (3:20 3.84	(°C) 7 15.48 9 15.07 9 14.89 2 14.77 8 14.80 ( 14.70	7.72 7.20 7.02 6.89 6.85	(mV) -346 -325 -320 -318 -317 -317	(mS/cm) 1.31 1.54 1.57 1.58 1.58	(NTU) 20.2 17.4 16.4 14.9 14.7 12.4	(mg/L)  1,52  3,98  0,89  0,81  0,79  0,78	(g/L) 0.857 0.987 1.01 1.01 1.01
(feet) (2:55 3.77 (3:00 3.77 (3:05 3.82 (3:05 3.82 (3:20 3.84 (3:25 3.84	(°C) 7 15.48 9 15.07 9 14.89 2 14.77 8 14.80 ( 14.70	7.72 7.20 7.02 6.89 6.85	(mV) -346 -325 -320 -318 -317 -317	(mS/cm) 1.31 1.54 1.57 1.58 1.58	(NTU) 20.2 17.4 16.4 14.9 14.7 12.4	(mg/L)  1,52  3,98  0,89  0,81  0,79  0,78	(g/L) 0.857 0.987 1.01 1.01 1.01
(feet) (2:55 3.77 (3:00 3.77 (3:05 3.86 (3:15 3.86 (3:20 3.84	(°C) 7 15.48 9 15.07 9 14.89 2 14.77 8 14.80 ( 14.70	7.72 7.20 7.02 6.89 6.85	(mV) -346 -325 -320 -318 -317 -317	(mS/cm) 1.31 1.54 1.57 1.58 1.58	(NTU) 20.2 17.4 16.4 14.9 14.7 12.4	(mg/L)  1,52  3,98  0,89  0,81  0,79  0,78	(g/L) 0.857 0.987 1.01 1.01 1.01
(feet) (2:55 3.77 (3:00 3.77 (3:05 3.86 (3:15 3.85 (3:15 3.85 (3:25 3.84 (3:25 3.84	(°C) 7 15.48 9 15.07 9 14.89 2 14.77 8 14.80 9 14.70 9 14.65	7.72 7.20 7.02 6.89 6.85 6.80 6.77	(mV) -346 -325 -320 -318 -317 -317	(mS/cm) 1.31 1.54 1.57 1.58 1.58	(NTU) 20.2 17.4 16.4 14.9 14.7 12.4	(mg/L) /(52 8,98 0,89 0,8/ 0,79 0,78 0,74	(g/L) 0.857 0.987 1.01 1.01 1.01 1.01
(feet) (2:55 3,77 (3:00 3,77 (3:05 3,83 (3:15 3,83 (3:20 3,84 (3:20 3,84 (3:25 3,84 (3:28 3,84 (3:2	(°C) 7 15.48 9 15.07 9 14.89 2 14.77 8 14.80 9 14.70 14.65	7.72 7.20 7.02 6.89 6.85 6.80 6.77	(mV) -346 -325 -320 -318 -317 -317	(mS/cm) 1.31 1.54 1.57 1.58 1.58	(NTU) 20,2 17.4 16.4 14.9 14.7 12.4 21.1	(mg/L) /c 52 8, 98 0, 89 0, 87 0, 79 0, 78 0, 74	(g/L) 0.857 0.987 1.01 1.01 1.01 1.02
(feet) (2:55 3.77 (3:00 3.77 (3:05 3.86 (3:15 3.86 (3:25 3.87 (3:2	(°C) 7 15.48 9 15.07 9 14.89 2 14.77 8 14.80 9 14.70 9 14.65 270 SVOC F	7.72 7.20 7.02 6.87 6.85 6.80 6.77	(mV) -346 -325 -320 -318 -317 -317	(mS/cm) 1.31 1.54 1.57 1.58 1.58	(NTU) 20, 2 17, 4 16, 4 14, 9 14, 7 12, 4 21. 1	(mg/L) /c \$72 8, 98 0, 89 0, 87 0, 79 0, 78 0, 74  pers Yes	(g/L) 0,857 0,987 1,01 1,01 1,01 1,02
(feet) (2:55 3,77 (3:00 3,77 (3:05 3,83 (3:15 3,83 (3:29 3,84 (3:29 3,84 (3:25 3,84 (3:28 3,84 (3:2	(°C) 7 15.48 7 15.07 9 14.89 2 14.77 8 14.80 7 14.65 270 SVOC F	7.72 7.20 7.02 6.87 6.85 6.80 6.77	(mV) -346 -325 -320 -318 -317 -317	(mS/cm) 1.31 1.54 1.57 1.58 1.58	(NTU) 20,2 17.4 16.4 14.9 14.7 12.4 21.1	(mg/L) /c \$72 8, 98 0, 89 0, 87 0, 79 0, 78 0, 74  pers Yes	(g/L) 0,857 0,987 1,01 1,01 1,01 1,02
(feet) (2.55 3.77 (3.00 3.77 (3.05 3.86 (3.15 3.85 (3.1	(°C) 7 15.48 9 15.97 9 14.89 12 14.77 8 14.80 14.65 14.65 270 SVOC F 8260 VOC's F 9012 Total Cy	7.72 7.20 7.02 6.89 6.85 6.80 6.77	(mV) -346 -325 -320 -318 -317 -316	(mS/cm) 1,31 1,54 1,57 1,58 1,59 1,59	(NTU) 20, 2 17. 4 16. 4 14. 9 14. 7 12. 4 21. 1	(mg/L) /c \$72 8, 98 0, 89 0, 87 0, 79 0, 78 0, 74  pers Yes	(g/L) 0,857 0,987 1,01 1,01 1,01 1,01 1,01 1,00
(feet)   (2.55   3.77   3.00   3.77   3.00   3.77   3.00   3.77   3.00	(°C) 7	7.72 7.20 7.02 6.87 6.85 6.80 6.77	(mV) -346 -325 -320 -318 -317 -316	(mS/cm) 1,31 1,54 1,57 1,58 1,59 1,59	(NTU) 20, 2 17, 4 16, 4 14, 9 14, 7 12, 4 21. 1	(mg/L) /(52 8/98 0.89 0.89 0.79 0.78 0.74  Ders Yestic Yes	(g/L) 0,857 0,987 1,01 1,01 1,01 1,02 s No s No s No s No s
(feet)   (2.55   3.77   3.00   3.77   3.00   3.77   3.00   3.77   3.00   3.77   3.00	(°C) 7	7.72 7.20 7.02 6.87 6.85 6.80 6.77	(mV) - 346 - 325 - 320 - 378 - 377 - 376	(mS/cm) 1,31 1,54 1,57 1,58 1,59 1,59	(NTU) 20, 2 17, 4 16, 4 14, 9 14, 7 12, 4 21. 1  2 - 100 ml aml 3 - 40 ml via 1 - 250 ml pla  Shipped:	oers Yestic Yestic Ship to Pace	(g/L) 0,857 0,987 1,01 1,01 1,01 1,01 1,01 1,01 1,01 1,0
(feet)   (2.55   3.77   3.00   3.77   3.00   3.77   3.00   3.77   3.00	(°C) 7	7.72 7.20 7.02 6.87 6.85 6.80 6.77	(mV) - 346 - 325 - 320 - 378 - 377 - 376	(mS/cm) 1,31 1,54 1,57 1,58 1,59 1,59	(NTU) 20, 2 17. 4 16. 4 14. 9 14. 7 12. 4 21. 1	(mg/L) /c 52 8, 58 0, 89 0, 87 0, 79 0, 78 0, 74  Ders Yestic Yestic Yes	(g/L) 0,857 0,987 1,01 1,01 1,01 1,02 s No

mpling Personnel: LL (4)	Date: /2/1/22
Upp Number: 0603200-136690-221	Weather: Clean 60'S
Well ld. MW-12R	Time In: (2:40) Time Out: (2:40)
Well Information	
TOC Other	Well Type: Flushmount Stick-Up
Depth to Water: (feet) 9,34	Well Locked: Yes No
Depth to Bottom: (feet) 21.40	Measuring Point Marked: Yes No No Well Material: PVC SS Other:
Depth to Product: (feet) NP  Length of Water Column: (feet) 12.09	Well Diameter: 1" 2" Other:
Volume of Water in Well: (gal) 1.92	Comments:
Three Well Volumes: (gal) 5-76	
Purging Information	
	Conversion Factors
	dfos Pump gal/ft. 1" ID 2" ID 4" ID 6" ID
	of
	dfos Pump water 0.04 0.16 0.66 1.47 gallon=3.785L=3785mL=1337cu. feet
Average Pumping Rate: (ml/min) 200  Duration of Pumping: (min) 30	1 gallott=3.705E=3703HE=7037Cd. leet
Total Volume Removed: (gal) 7 Did well go dry'	? Yes No
iba U-52 Water Quality Meter Used? Yes No	
	Conductivity Turbidity DO TDS
Time	Conductivity Turbidity DO TDS (mS/cm) (NTU) (mg/L) (g/L)
(feet) (°C) (mV)	0.536 17.8 1.84 0.343
81 17.45 1 12.27 1 18.48 1 7.67 1 - 426	0537 10.6 188 0344
1205 12.27 18.48 7.67 -426	0.537 10.6 1.88 0.344
1210 13.05 18.26 7,64 - 427	
1210 13.05 18.26 7.64 - 427	0.540 7.4 1.88 0.346 0.540 8.1 1.88 0.346 0.544 7.4 1.86 0.348
1210 13.05 18.26 7.64 - 427	0.540 7.4 1.88 0.346 0.540 8.1 1.88 0.346 0.544 7.4 1.86 0.348 0.5 <b>3</b> 3 7.9 1.83 0.354
1210 13.05 18.26 7.64 - 427 1215 13.77 18.14 7.64 - 429 1220 14.35 18.06 7.62 - 428	0.540 7.4 1.88 0.346 0.540 8.1 1.88 0.346 0.544 7.4 1.86 0.348
1210 13.05 18.26 7.64 - 427 1215 13.77 18.14 7.64 - 429 1220 14.35 18.06 7.62 - 428 1225 +715.44 17.95 7.60 - 434	0.540 7.4 1.88 0.346 0.540 8.1 1.88 0.346 0.544 7.4 1.86 0.348 0.5 <b>3</b> 3 7.9 1.83 0.354
1210 13.05 18.26 7.64 - 427 1215 13.77 18.14 7.64 - 429 1220 14.35 18.06 7.62 - 428 1225 +715.44 17.95 7.60 - 434	0.540 7.4 1.88 0.346 0.540 8.1 1.88 0.346 0.544 7.4 1.86 0.348 0.5 <b>3</b> 3 7.9 1.83 0.354
1210 13.05 18.26 7.64 - 427 1215 13.77 18.14 7.64 - 429 1220 14.35 18.06 7.62 - 428 1225 +715.44 17.95 7.60 - 434	0.540 7.4 1.88 0.346 0.540 8.1 1.88 0.346 0.544 7.4 1.86 0.348 0.5 <b>3</b> 3 7.9 1.83 0.354
1210 13.05 18.26 7.64 - 427 1215 13.77 18.14 7.64 - 429 1220 14.35 18.06 7.62 - 428 1225 +715.44 17.95 7.60 - 434	0.540 7.4 1.88 0.346 0.540 8.1 1.88 0.346 0.544 7.4 1.86 0.348 0.5 <b>3</b> 3 7.9 1.83 0.354
1210 13.05 18.26 7.64 - 427 1215 13.77 18.14 7.64 - 429 1220 14.35 18.06 7.62 - 428 1225 47/5.44 17.95 7.60 - 434 1230 16.48 17.95 7.59 - 431	0.540 7.4 1.88 0.346 0.540 8.1 1.88 0.346 0.544 7.4 1.86 0.348 0.5 <b>3</b> 3 7.9 1.83 0.354
1210 13.05 18.26 7.64 - 427 1215 13.77 18.14 7.64 - 429 1220 14.35 18.06 7.62 - 428 1225 +715.44 17.95 7.60 - 434	0.540 7.4 1.88 0.346 0.540 8.1 1.88 0.346 0.544 7.4 1.86 0.348 0.5 <b>3</b> 3 7.9 1.83 0.354
(210 13.05 18.26 7.64 - 427 (215 13.77 18.14 7.64 - 429 (220 14.35 18.06 7.62 - 428 (225 17.44 17.95 7.60 - 434 (230 16.48 17.95 7.59 - 431 Sampling Information:	0.540 7.4 1.88 0.346 0.540 8.1 1.88 0.346 0.544 7.4 1.86 0.348 0.5 <b>3</b> 3 7.9 1.83 0.354
1210 13.05 18.26 7.64 - 427 1215 13.77 18.14 7.64 - 429 1220 14.35 18.06 7.62 - 428 1225 47/5.44 17.95 7.60 - 434 1230 16.48 17.95 7.59 - 431	0.540 7.4 1.88 0.346 0.540 8.1 1.88 0.346 0.544 7.4 1.86 0.348 0.533 7.9 1.83 0.354 0.551 7.0 1.77 0.352
12   0   13.05   18.26   7.64   - 427     12   15   13.77   18.14   7.64   - 429     12   20   14.35   18.06   7.62   - 428     12   25   17/5,44   17.95   7.60   - 434     12   30   16.48   17.95   7.59   - 431     Sampling Information:    EPA SW-846 Method 8270   SVOC PAH's	0.540 7.4 1.88 0.346 0.540 8.1 1.88 0.346 0.544 7.4 1.86 0.348 0.533 7.9 1.83 0.354 0.551 7.0 1.77 0.352
12   0   13.05   18.26   7.64   - 427     12   13.77   18.14   7.64   - 429     12   20   14.35   18.06   7.62   - 428     12   25   14/5,44   17.95   7.60   - 434     12   30   16.48   17.95   7.59   - 431	2 - 100 ml ambers Yes No No 1 - 250 ml plastic Yes No No
(2   0   13.05   18.26   7,64   - 427     (2   5   13.77   18.14   7.64   - 429     (2   20   14.35   18.06   7,62   - 428     (2   25   1475,44   17.95   7.60   - 434     (2   30   16.48   17.95   7.59   - 431	2 - 100 ml ambers Yes No No 1 - 250 ml plastic Yes No Shipped: Pace Courier Pickup
12   0   13.05   18.26   7.64   - 427     12   13.77   18.14   7.64   - 429     12   20   14.35   18.06   7.62   - 428     12   25   14/5.44   17.95   7.60   - 434     12   30   16.48   17.95   7.59   - 431	2 - 100 ml ambers Yes No No 1 - 250 ml plastic Yes No Shipped: Pace Courier Pickup
(2   0   13.05   18.26   7,64   - 427     (2   5   13.77   18.14   7.64   - 429     (2   20   14.35   18.06   7,62   - 428     (2   25   17/5.44   17.25   7.60   - 434     (2   30   16.48   17.25   7.59   - 431	2 - 100 ml ambers Yes No No 1 - 250 ml plastic Yes No Shipped: Pace Courier Pickup

mpling Personnel: JA	M WALKE	<u> </u>			-1-20	(°	
<b>Jub Number:</b> 0603200-1	136690-221			Weather:	Clarry	65°	
Well ld. MW-14R				Time In: /	035	Time Out:	1190
Well Information	_		0.11	\			
Double to Materia	/FN   <del>-</del>	TOC	Other	Well Type Well Lock		hmount S	tick-Up No
Depth to Water: Depth to Bottom:	(feet)	50.80			Point Marked:	Yes	No
Depth to Product:		V17		Well Mate		SS Othe	
Length of Water Column:	(feet) S	0.80		Well Diam	eter: 1"	2"Othe	er:
Volume of Water in Well:	(gal)			Comment	s:		
Three Well Volumes:	(gal) 2	4.381					
		<del>==</del>			· · · · · · · · · · · · · · · · · · ·		
Durging Information	i ,=uī	****········					
Purging Information	-					Conversion F	actors
Purging Method:	Bailer	Peristaltic	Grundf	os Pump	gal/ft.	1" ID 2" ID	4" ID 6" ID
Tubing/Bailer Material:	Teflon	Stainless St.	<del>- 1</del>	ethylene	of		
Sampling Method:	Bailer	Peristaltic	Grundf	os Pump	water	0.04 0.16	0.66 1.47
Average Pumping Rate:	· · · · · · · · · · · · · · · · · · ·	<u> </u>			1 gall	on=3.785L=3785m	L=1337cu. feet
Duration of Pumping:		30		🗀			
Total Volume Removed:	(gal)		id well go dry?	Yes No			
iba U-52 Water Quality	Meter Used?	Yes	No □				Į,
Time DTW	Temp	рН	ORP	Conductivity		DO	TDS
(feet)	(°C)		(mV)	(mS/cm)	(NTU)	(mg/L)	(g/L)
(feet) 1040 TSC	(°C) 13.06	7.68	(mV) - 246	(mS/cm) .657	(NTU)	(mg/L)	1 11
(feet) 1040 ToC 1045 ToC	(°C) 13.06 12.47	7.68	(mV) -246 -294	(mS/cm) , 657 , 643	(NTU)	1.22 (mg/L)	(g/L)
(feet) 1040 TOC 1045 TOC 1050 TOC	(°C) 13.06 12.47 12.54	7.68 7.68 7.66	(mV) -246 -294 -311	(mS/cm) .657	(NTU) 0.0	(mg/L) 6.68 1.55 1.46	(g/L)
(feet) 1040 ToC 1045 ToC	(°C) 13.06 12.47 12.54	7.68 7.68 7.66 7.66	(mV) -246 -294	(mS/cm) ,657 ,643 ,640 ,637	(NTU) 0.0 0.0 0.0 0.0	(mg/L) 6.68 1.55 1.46 1.34	(g/L) .420 .4(1 .4(1 .408 .408
(feet)  1040 TSC  1045 TOC  1050 TOC  1055 TOC  1100 TOC  1105 TOC	(°C) 13.06 12.47 12.54 12.54 12.48 10.45	7.68 7.68 7.66 7.66 7.80 7.81	(mV) -246 -394 -311 -304 -343 -340	(mS/cm) .657 .643 .640 .637 .638	(NTU) 0.0 0.0 0.0 0.0 0.0	(mg/L) 6.68 1.55 1.46 1.34 1.08	(g/L) .420 .4(1 .4(1 .408 .408
(feet) 1040 TSC 1045 TOC 1050 TOC 1055 TOC 1100 TSC	(°C) 13.06 12.47 12.54	7.68 7.68 7.66 7.66	(mV) -246 -294 -311 -304 -343	(mS/cm) ,657 ,643 ,640 ,637	(NTU) 0.0 0.0 0.0 0.0	(mg/L) 6.68 1.55 1.46 1.34	(g/L) .420 .4(1 .4(1 .408 .408
(feet)  1040 TSC  1045 TOC  1050 TOC  1055 TOC  1100 TOC  1105 TOC	(°C) 13.06 12.47 12.54 12.54 12.48 10.45	7.68 7.68 7.66 7.66 7.80 7.81	(mV) -246 -394 -311 -304 -343 -340	(mS/cm) .657 .643 .640 .637 .638	(NTU) 0.0 0.0 0.0 0.0 0.0	(mg/L) 6.68 1.55 1.46 1.34 1.08	(g/L) .420 .4(1 .4(1 .408 .408
(feet)  1040 TSC  1045 TOC  1050 TOC  1055 TOC  1100 TOC  1105 TOC	(°C) 13.06 12.47 12.54 12.54 12.48 10.45	7.68 7.68 7.66 7.66 7.80 7.81	(mV) -246 -394 -311 -304 -343 -340	(mS/cm) .657 .643 .640 .637 .638	(NTU) 0.0 0.0 0.0 0.0 0.0	(mg/L) 6.68 1.55 1.46 1.34 1.08	(g/L) .420 .4(1 .4(1 .408 .408
(feet)  1040 TSC  1045 TOC  1050 TOC  1055 TOC  1100 TOC  1105 TOC	(°C) 13.06 12.47 12.54 12.54 12.48 10.45	7.68 7.68 7.66 7.66 7.80 7.81	(mV) -246 -394 -311 -304 -343 -340	(mS/cm) .657 .643 .640 .637 .638	(NTU) 0.0 0.0 0.0 0.0 0.0	(mg/L) 6.68 1.55 1.46 1.34 1.08	(g/L) .420 .4(1 .4(1 .408 .408
(feet)  1040 TSC  1045 TOC  1050 TOC  1055 TOC  1100 TOC  1105 TOC	(°C) 13.06 12.47 12.54 12.54 12.48 10.45	7.68 7.68 7.66 7.66 7.80 7.81	(mV) -246 -394 -311 -304 -343 -340	(mS/cm) .657 .643 .640 .637 .638	(NTU) 0.0 0.0 0.0 0.0 0.0	(mg/L) 6.68 1.55 1.46 1.34 1.08	(g/L) .420 .4(1 .4(1 .408 .408
(feet)  1040 TSC  1045 TOC  1050 TOC  1055 TOC  1100 TOC  1105 TOC	(°C) 13.06 12.47 12.54 12.54 12.48 10.45	7.68 7.68 7.66 7.66 7.80 7.81	(mV) -246 -394 -311 -304 -343 -340	(mS/cm) .657 .643 .640 .637 .638	(NTU) 0.0 0.0 0.0 0.0 0.0	(mg/L) 6.68 1.55 1.46 1.34 1.08	(g/L) .420 .4(1 .4(1 .408 .408
(feet) 1040 TSC 1045 TOC 1050 TOC 1055 TOC 1100 TOC 1100 TOC 1110 TOC	(°C) 13.06 12.47 12.54 12.54 12.48 10.45	7.68 7.68 7.66 7.66 7.80 7.81	(mV) -246 -394 -311 -304 -343 -340	(mS/cm) .657 .643 .640 .637 .638	(NTU) 0.0 0.0 0.0 0.0 0.0	(mg/L) 6.68 1.35 1.46 1.34 1.28 1.28	(g/L) .420 .411 .408 .408 .408
(feet) 1040 TSC 1045 TOC 1050 TOC 1055 TOC 1100 TOC 1100 TOC 1110 TOC	(°C) 13.06 12.54 12.54 12.48 10.45 10.45	7.68 7.68 7.66 7.66 7.80 7.81 7.77	(mV) -246 -394 -311 -304 -343 -340	(mS/cm) .657 .643 .640 .637 .638	(NTU) 0.0 0.0 0.0 0.0 0.0	(mg/L) 6.68 1.55 1.46 1.34 1.08 1.08	(g/L) .420 .411 .4(1 .408 .408 .408
(feet)  1040 ToC  1045 ToC  1050 ToC  1055 ToC  1100 ToC  1105 ToC  1110 ToC  Sampling Information:  EPA SW-846 Method 827  EPA SW-846 Method 826	(°C) 13.06 13.47 13.54 13.45 13.45 13.45 13.45 13.45 10.45 10.45 10.45	7.68 7.66 7.66 7.66 7.87 7.81 7.77	(mV) -246 -394 -311 -304 -343 -340	(mS/cm) .657 .643 .640 .637 .638	(NTU) (O . O O . O	(mg/L) 6.68 1.35 1.46 1.38 1.38 1.38 1.38 1.38	(g/L) .420 .411 .4(1 .408 .408 .407
(feet)  1040 TSC  1045 TOC  1050 TOC  1055 TOC  1100 TOC  1105 TOC  1110 TOC  Sampling Information:  EPA SW-846 Method 827	(°C) 13.06 13.47 13.54 13.48 13.45 13.45 13.45 13.45 13.45 13.45 13.45 13.45 13.45 13.45 13.45	7.68 7.66 7.66 7.66 7.87 7.81 7.77	(mV) -246 -394 -311 -304 -343 -340	(mS/cm) .657 .643 .640 .637 .638	(NTU) 0.0 0.0 0.0 0.0 0.0	(mg/L) 6.68 1.35 1.46 1.38 1.38 1.38 1.38 1.38	(g/L) .420 .411 .4(1 .408 .408 .407
(feet)  1040 T6C  1045 T0C  1050 T0C  1055 T0C  1100 T0C  1110 T0C  Sampling Information:  EPA SW-846 Method 827  EPA SW-846 Method 901	(°C) 13.06 13.47 13.54 13.54 13.45 13.45 13.45 13.45 10.	7.68 7.66 7.66 7.66 7.80 7.81 7.77	(mV) -246 -394 -311 -304 -343 -340 -339	(mS/cm) ,657 ,643 ,640 ,637 ,638 ,639	(NTU) (O O O O O O O O O O O O O O O O O O O	mg/L) 6.68 1.34 1.34 1.38 1.38 1.38 1.38 1.38 Yes	(g/L) .420 .411 .408 .408 .408 .407
(feet)  1040 T6C  1045 T0C  1050 T0C  1055 T0C  1100 T0C  1100 T0C  1110 T0C  Sampling Information:  EPA SW-846 Method 827  EPA SW-846 Method 901  nple ID: MW-14R	(°C) 13.06 13.47 13.54 13.48 13.45 13.45 13.45 13.45 10.	7.68 7.66 7.66 7.66 7.87 7.81 7.77	(mV) -246 -394 -311 -304 -343 -340	(mS/cm) ,657 ,643 ,640 ,637 ,638 ,639	(NTU) (O O O O O O O O O O O O O O O O O O O	(mg/L) 6.68 1.35 1.46 1.38 1.38 1.38 1.38 1.38	(g/L) .420 .411 .408 .408 .408 .407
(feet)   1040   T6C   1045   T0C   1050   T0C   1100   T0C   1100   T0C   1110   T0C   1110	(°C) 13.06 13.47 13.54 13.48 13.45 13.45 13.45 13.45 10.	7.68 7.66 7.66 7.66 7.77 7.77	(mV) -246 -394 -311 -304 -343 -340 -339	(mS/cm) ,657 ,643 ,640 ,637 ,638 ,639	(NTU) (O O O O O O O O O O O O O O O O O O O	mg/L) 6.68 1.34 1.34 1.38 1.08 1.08 1.08 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2	(g/L) .420 .411 .408 .408 .408 .408 .407

Ogdensburg, New York	
mpling Personnel: CIAM WAKKA	Date: 10 -1 - 2 0
Jup Number: 0603200-136690-221	Weather: Clocoly 65
Well Id. MW-15	Time In: 1355 Time Out:
Well Information  TOC Other  Depth to Water: (feet) 9.04  Depth to Product: (feet) 9.04  Length of Water Column: (feet) 9.04  Volume of Water in Well: (gal) 115  Three Well Volumes: (gal) 147	Well Type: Flushmount Stick-Up Well Locked: Yes Measuring Point Marked: Yes Well Material: PVC SS Well Diameter: 1" 2" Other: Comments:
Tubing/Bailer Material: Teflon Stainless St.	Conversion Factors   gal/ft.   1" ID   2" ID   4" ID   6" ID   of   water   0.04   0.16   0.66   1.47   1 gallon=3.785L=3785mL=1337cu. feet
Time DTW Temp pH ORF	Conductivity Turbidity DO TDS
(feet) (°C) (mV 1400 8.27 16.76 7.13 -26	(mS/cm) (NTU) (mg/L) (g/L)  5 1.32 1000 4.23 .783  6 1.32 520 2.20 .783  6 1.22 309 1.65 .782  9 1.32 87.8 1.42 .779  1 1.30 110 1.87 .768  2 1.32 875 2.30 .783
Sample Time: 1445 MS/MSD? Yes N	2 - 100 ml ambers Yes No No 3 - 40 ml vials Yes No No 1 - 250 ml plastic Yes No Shipped: Pace Courier Pickup Ship to Pace
- <u>Comments/Notes:</u> Well Run DRY @ 30 U - AWAIT recharge + cellect samp	ii Giechabulu, i A i
\\svrrmt88-vm3\syracuse-01\Dashboard\Planning\854843.xlsm	Page 15 of

mpling Personnel: UHW WAMAR	
noming recognition of the control of	Date: 10-1-20
Jub Number: 0603200-136690-221	Weather: Cloudy 65°
Weil Id. MW-15RS	Time In: 1310 Time Out: 1355
Well Information	
Depth to Water: (feet) \$40	Well Type: Flushmount Stick-Up
	Well Locked: Yes No
Depth to Bottom: (feet) 23.65  Depth to Product: (feet)	Measuring Point Marked: Yes No No Other:
Length of Water Column: (feet) 15.25	Well Diameter: 1" 2" Other:
Volume of Water in Well: (gal) (61	Comments:
Three Well Volumes: (gal) 1, 83	
Purging Information	[
	Conversion Factors
	gal/ft. 1" ID 2" ID 4" ID 6" ID
	ethylene of
Average Pumping Rate: (ml/min)	1 gallon=3.785L=3785mL=1337cu. feet
Duration of Pumping: (min) 30	1 gallott-5.765E-5765InE-1557Ed. leet
Total Volume Removed: (gal) 1.0 Did well go dry?	Yes No X
iba U-52 Water Quality Meter Used?	· ·
iba 0-32 water Quality Meter Osed: Tes 140	
Time DTW Temp pH ORP	Conductivity Turbidity DO TDS
(feet) (°C) (mV)	(mS/cm) (NTU) (mg/L) (g/L)
1315 8.88 491 744 -321	
	1.26 16.1 5.33 .813 1.28 13.4 2.86 .818
1320 9.22 14.83 7.38 -344 1325 9.79 14.63 7.41 -362	1.26 16.1 5.33 .813 1.28 13.4 2.86 .818 1.28 5.9 1.63 .823
1320 9.22 14.85 7.38 -344	1.26 16.1 5.33 .813 1.28 13.4 2.86 .818 1.28 5.9 1.63 .823 1.31 1.2 1.31 .839
1320 9.22 14.85 7.38 -344 1325 9.79 14.63 7.41 -362 1330 10.56 14.72 7.42 -367 1335 11.19 14.73 7.40 -367	1.26 16.1 5.33 .813 1.28 13.4 2.86 .818 1.28 5.9 1.63 .823
1320 9.22 14.85 7.38 -344 1325 9.79 14.63 7.41 -362 1330 10.56 14.72 7.42 -367 1335 11.19 14.73 7.40 -367	1.26 16.1 5.33 .813 1.28 13.4 2.86 .818 1.28 5.9 1.63 .823 1.31 1.2 1.31 .839 1.34 .7 1.18 .257
1320 9.22 14.85 7.38 -344 1325 9.79 14.63 7.41 -362 1330 10.56 14.72 7.42 -367 1335 11.19 14.73 7.40 -367	1.26 16.1 5.33 .813 1.28 13.4 2.86 .818 1.28 5.9 1.63 .823 1.31 1.2 1.31 .839 1.34 .7 1.18 .857
1320 9.22 14.85 7.38 -344 1325 9.79 14.63 7.41 -362 1330 10.56 14.72 7.42 -367 1335 11.19 14.73 7.40 -367	1.26 16.1 5.33 .813 1.28 13.4 2.86 .818 1.28 5.9 1.63 .823 1.31 1.2 1.31 .839 1.34 .7 1.18 .257
1300 9.00 14.85 7.38 -344 1305 9.79 14.63 7.41 -362 1330 10.56 14.70 7.40 -367 1335 11.19 14.73 7.40 -367	1.26 16.1 5.33 .813 1.28 13.4 2.86 .818 1.28 5.9 1.63 .823 1.31 1.2 1.31 .839 1.34 .7 1.18 .257
1300 9.00 14.85 7.38 -344 1305 9.79 14.63 7.41 -362 1330 10.56 14.70 7.40 -367 1335 11.19 14.73 7.40 -367	1.26 16.1 5.33 .813 1.28 13.4 2.86 .818 1.28 5.9 1.63 .823 1.31 1.2 1.31 .839 1.34 .7 1.18 .257
1320 9.22 14.85 7.38 -344 1325 9.79 14.63 7.41 -362 1330 10.56 14.72 7.42 -367 1335 11.19 14.73 7.40 -367	1.26 16.1 5.33 .813 1.28 13.4 2.86 .818 1.28 5.9 1.63 .823 1.31 1.2 1.31 .839 1.34 .7 1.18 .257
1320 9.22 14.85 7.38 -344 1325 9.79 14.63 7.41 -362 1330 10.56 14.72 7.42 -367 1335 11.19 14.73 7.40 -367 1340 12.47 14.74 7.42 -369 1345 13.90 14.79 7.40 -371	1.26 16.1 5.33 .813 1.28 13.4 2.86 .818 1.28 5.9 1.63 .823 1.31 1.2 1.31 .839 1.34 .7 1.18 .257
1320 9.22 14.85 7.38 -344 1325 9.79 14.63 7.41 -362 1330 10.56 14.72 7.42 -367 1335 11.19 14.73 7.40 -367	1.26 16.1 5.33 .813 1.28 13.4 2.86 .818 1.28 5.9 1.63 .823 1.31 1.2 1.31 .839 1.34 .7 1.18 .257
1300 9.32 14.85 7.38 -344 1305 9.79 14.63 7.41 -362 1330 10.56 14.72 7.42 -367 1335 11.19 14.73 7.40 -367 1345 13.90 14.79 7.40 -371	1.26 16.1 5.33 .813 1.28 13.4 2.86 .818 1.38 5.9 1.63 .823 1.31 1.2 1.31 .839 1.34 .7 1.18 .257 1.34 0.0 1.21 .857 1.34 0.0 1.24 .858
1300 9.32   14.85   7.38   344   1305   9.79   14.63   7.41   -362   1330   10.56   14.72   7.42   -367   1335   11.19   14.73   7.40   -367   1340   13.47   14.74   7.42   -369   1345   13.90   14.79   7.40   -371	1.26 16.1 5.33 .813 1.28 13.4 2.86 .818 1.38 5.9 1.63 .823 1.31 1.2 1.31 .839 1.34 0.0 1.21 .857 1.34 0.0 1.21 .857 1.34 0.0 1.24 .858
1300   9.32   14.85   7.38   -344   1305   9.79   14.63   7.41   -362   1330   10.56   14.72   7.42   -367   1345   13.90   14.74   7.42   -369   1345   13.90   14.79   7.40   -371	1.26 16.1 5.33 .813 1.28 13.4 2.86 .818 1.38 5.9 1.63 .823 1.31 1.2 1.31 .839 1.34 .7 1.18 .257 1.34 0.0 1.21 .857 1.34 0.0 1.24 .858
1300   9.32   14.85   7.38   -344   1305   9.79   14.63   7.41   -362   1330   10.56   14.72   7.42   -367   1345   13.47   14.74   7.42   -367   1345   13.90   14.79   7.40   -371   14.74   7.40   -371   1540	1.26 16.1 5.33 .873 1.28 13.4 2.86 .878 1.38 5.9 1.63 .839 1.34 1.7 1.18 .257 1.34 0.0 1.21 .857 1.34 0.0 1.24 .838
Sampling Information:    Sampling Information:   Sampling Information:   Sampling Information:   Sampling Information:   Sampling Information:   Sampling Information:   Sampling Information:   Syoc Pah's   EPA SW-846 Method 8260   VOC's BTEX   EPA SW-846 Method 9012   Total Cyanide   Total Cyanide   Syoc Pah's   S	1.26 16.1 5.33 .813 1.28 13.4 2.86 .818 1.38 5.9 1.63 .823 1.31 1.2 1.3 ( .839 1.34 .7 1.18 .257 1.34 0.0 1.21 .857 1.34 0.0 1.24 .838
Sampling Information:   Sampling Information:   Sampling Information   Sampling Information   SVOC PAH's   EPA SW-846 Method 8260   VOC's BTEX   EPA SW-846 Method 9012   Total Cyanide   SVA   Total Cyanide   VOC's BTEX   EPA SW-846 Method 9012   Total Cyanide   EPA SW-846 Method 9012   EPA SW-846 Method 9012   Total Cyanide   EPA SW-846 Method 9012   EPA SW-846 Method 9012   Total Cyanide   EPA SW-846 Method 9012   EPA	2-100 ml ambers Yes No No 1-250 ml plastic Yes No No
1300   7.32   14.85   7.38   344   1305   9.79   14.63   7.41   -362   1330   10.56   14.72   7.42   -367   1340   13.47   14.74   7.42   -369   1345   13.90   14.79   7.40   -371   14.74   7.40   -371   14.74   7.40   -371   14.79   7.40   -371   14.79   7.40   -371   14.79   7.40   -371   14.79   7.40   -371   14.79   7.40   -371   14.79   7.40   -371   14.79   7.40   -371   14.79   7.40   -371   14.79   7.40   -371   14.79   7.40   -371   14.79   7.40   -371   14.79   7.40   -367   15.40   14.79   7.40   -367   15.40   14.79   7.40   -367   15.40   14.79   7.40   -367   15.40   14.79   7.40   -367   15.40   14.79   7.40   -367   15.40   15.4	2 - 100 ml ambers Yes No 1 - 250 ml plastic Yes No Shipped: Pace Courier Pickup Ship to Pace
Sampling Information:   Sampling Information:   Sample ID:   MW-15RS-1020   Duplicate?   Yes   No   Sample Time:   MS/MSD?   Yes   No   No   Sample Time:   MS/MSD?   Yes   No   Xes   X	2-100 ml ambers Yes No No 1-250 ml plastic Yes No Shipped: Pace Courier Pickup

Timpling Demonstral I May 1 May 10	
mpling Personnel: UMW WAHER	Date: 10-1-26
550 Number: 0603200-136690-221	Weather: OUCL AST 606
Well ld. MW-17R	Time In: 0900 Time Out: 1000
Well Information	
Depth to Water: (feet) 7 1 6	Well Type: Flushmount Stick-Up
	Well Locked: Yes No No
Depth to Bottom: (feet) 26.90  Depth to Product: (feet)	Measuring Point Marked: Yes No
Length of Water Column: (feet) 19.74	Well Material: PVC SS Other: Use SS Other: 2" Other:
Volume of Water in Well: (gal) 3.15	Well Diameter: 1" 2" Other:
Three Well Volumes: (gal) 4.47	Comments.
Purging Information	
	Conversion Factors
Tuels in a ID attack to the	gal/ft. 1" ID 2" ID 4" ID 6" ID
	ethylene of
Sampling Method: Bailer Peristaltic Grundfo	water 0.04 0.16 0.66 1.47
Duration of Pumping: (min) 35	1 gallon=3.785L=3785mL=1337cu. feet
Total Volume Removed: (gal) (, O Did well go dry?	Yes No No
is-77 (10 Dia non go dry)	Les I NO O
iba U-52 Water Quality Meter Used? Yes No	
Time DTW Temp pH ORP I	
pr.   Old	Conductivity Turbidity DO TDS
0935 8.04 14.59 6.76 -117	(mS/cm) (NTU) (mg/L) (g/L) (1.07 15.5 3.72 .682
0940 8.72 14.40 6.96 -161	
0945 896 14.53 7.11 -175	1.03 9.3 1.53 .662
0950 9.23 14.38 7.10 -179	1.03 7.8 1.25 1.662
0955 9.42 14.35 7.20 -189	1.03 8.2 1.03 .658
1000 9.49 14.60 7.28 -195	1.03 8.8 1.05 1.659
1005 9.56 14.63 7.30 -199	1.03 9.0 1.04 .657
1610 9.61 14.72 7.31 -206	1.02 8.7 1.02 .658
Sampling Information:	
EPA SW-846 Method 8270 SVOC PAH's	2 - 100 ml ambers Yes No
EPA SW-846 Method 8260 VOC's BTEX	
EPA SW-846 Method 9012 Total Cyanide	3 - 40 ml vials Yes No 1 - 250 ml plastic Yes No
aple ID: MW-17R-1020 Duplicate? Yes No	Shipped: Pace Courier Pickup
Sample Time: OS MS/MSD? Yes No	Ship to Pace
Comments/Notes:	Laboratory: Pace Analytical Greensburg, PA

Sampling Personnel: (JAM WARES Date: \C	0.1.30								
Job Number: 0603200-136690-221 Weather	: Cloudy - 650								
Well Id. MW-19R Time In:	1226 Time Out: 1305								
Well Information	e: Flushmount Stick-Up								
TOC Other Well Typ  Depth to Water: (feet) A-32 Well Loc									
	g Point Marked: Yes No								
Depth to Product: (feet)									
Length of Water Column: (feet) 5.34 33.73 Well Dia									
Volume of Water in Well: (gal) 5.39 Commer	nts:								
Three Well Volumes: (gal) 16.19									
Purging 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 water 0.04 0.16 0.66 1.47								
Sampling Method:  Bailer Peristaltic Grundfos Pump  Average Pumping Rate: (ml/min)	water   0.04   0.16   0.66   1.47   1   1   1   1   1   1   1   1   1								
Average Pumping Rate: (ml/min) 20 Duration of Pumping: (min) 30	1 gallon - 0.7 002 - 07 00 mg 1 000 1 au 1 1000								
Total Volume Removed: (gal) ( ( ) Did well go dry? Yes	No S								
Horiba U-52 Water Quality Meter Used?									
THOTIDA 0-32 VVAIGE QUAITY METER OSCU:									
Time DTW Temp pH ORP Conductivi	ty Turbidity DO TDS								
(feet) (°C) (mV) (mS/cm)	(NTU) (mg/L) (g/L)								
1225 5.95 14.97 7.99 -214 ,503	0.0 2.25 .323								
1235 8.90 15.28 8.20 -259 1.50	0.0 1.50 ,321								
1235 8.90 15.28 8.24 -259 15/2	0.0 1.11 322								
1345 1135 1496 1799 1-207 1.472	0.0 1.97   306								
1300 1206 14.95 7.99 1-222 1.472	0.0 198 361								
1855 18.49 14.97 7.98 -217 .470	0.0 ,98 ,298								
Sampling Information:									
EPA SW-846 Method 8270 SVOC PAH's	2 - 100 ml ambers Yes No No No No								
EPA SW-846 Method 8260 VOC's BTEX  EPA SW-846 Method 9012 Total Cyanide	1 - 250 ml plastic Yes No								
EPA SW-846 Method 9012 Total Cyanide									
Sample ID: MW-19R-1020 Duplicate? Yes No	Shipped: Pace Courier Pickup								
Sample Time: 1300 MS/MSD? Yes No	Ship to Pace								
Comments/Notes: Laboratory: Pace Analytical									
	Greensburg, PA								

Date:   O (   O   O   O
Well Information
TOC   Other   Well Type:   Flushmount   Stick-Up   Depth to Water: (feet)   To C   Well Locked:   Yes   No   Depth to Bottom: (feet)   28.40   Measuring Point Marked:   Yes   No   No   Depth to Product: (feet)   A P A O   Well Material:   PVC   SS   Other:   Volume of Water Column: (feet)   A P A O   Well Material:   PVC   SS   Other:   Volume of Water in Well: (gal)   4.5.4   Three Well Volumes: (gal)   1/3.6/3   Well Diameter:   1"   2"   Other:   Other
TOC Other   Well Type:   Flushmount   Stick-Up   Depth to Water:   (feet)   To C     Well Locked:   Yes   No   Depth to Bottom:   (feet)   28.40   Measuring Point Marked:   Yes   No   No   Depth to Product:   (feet)   No   Well Material:   PVC   SS   Other:   Under Column:   (feet)   29.40   Well Material:   PVC   SS   Other:   Othe
TOC Other   Well Type:   Flushmount   Stick-Up   Depth to Water:   (feet)   To C     Well Locked:   Yes   No   Depth to Bottom:   (feet)   28.40   Measuring Point Marked:   Yes   No   No   Depth to Product:   (feet)   No   Well Material:   PVC   SS   Other:   Under Column:   (feet)   29.40   Well Material:   PVC   SS   Other:   Othe
Depth to Water:
Depth to Bottom:
Depth to Product:
Length of Water Column:
Volume of Water in Well:         (gal)         4.54         Comments:           Three Well Volumes:         (gal)         I/3.63         Comments:    Purging Information  Purging Method:  Tubing/Bailer Material:  Sampling Method:  Bailer Peristaltic Stainless St. Polyethylene Polyethylene Peristaltic Stainless St. Polye
Purging Information
Purging Information  Purging Method: Tubing/Bailer Material: Sampling Method: Bailer Peristaltic Stainless St. Polyethylene Sampling Method: Bailer Peristaltic Stainless St. Polyethylene Stainless St. Peristaltic Stainless St. Polyethylene Stainless St. Peristaltic Stainless S
Conversion Factors
Conversion Factors
Conversion Factors
Purging Method:         Bailer Tubing/Bailer Material:         Peristaltic Stainless St.         Grundfos Pump Polyethylene Stainless St.         gal/ft.         1" ID         2" ID         4" ID         6" ID           Sampling Method:         Bailer Peristaltic Stainless St.         Polyethylene St.         Grundfos Pump         9 dr.         4" ID         4" ID         6" ID         6" ID
Tubing/Bailer Material:         Teflon Sampling Method:         Stainless St. Polyethylene Grundfos Pump         Polyethylene Water         Of water         0.04         0.16         0.66         1.47           Average Pumping Rate:         (ml/min) 3 0         Total Volume Removed:         (gal) () Did well go dry? Yes No         No         No         No         Image: Conductivity of the polyethylene Water of the polyethyl
Sampling Method:       Bailer       Peristaltic       Grundfos Pump         Average Pumping Rate:       (ml/min)       QCO       1 gallon=3.785L=3785mL=1337cu. feet         Duration of Pumping:       (min)       QO         Total Volume Removed:       (gal)       CO       Did well go dry?       Yes       No         Horiba U-52 Water Quality Meter Used?       Yes       No       No       Turbidity       DO       TDS         (feet)       (°C)       (mV)       (mS/cm)       (NTU)       (mg/L)       (g/L)         113S       1.59       150       7.69       -206       664       1.8       1.27       425         1(40       2.62       15.03       7.56       -201       664       1.8       1.27       425         1(45       3.62       15.25       7.46       -196       662       1.8       1.2       7.2       425
Average Pumping Rate:       (ml/min)       QCO       1 gallon=3.785L=3785mL=1337cu. feet         Duration of Pumping:       (min)       QO       7       Yes       No       No         Horiba U-52 Water Quality Meter Used?       Yes       No       No       No       Time       DTW       Temp       pH       ORP       Conductivity       Turbidity       DO       TDS         (feet)       (°C)       (mV)       (mS/cm)       (NTU)       (mg/L)       (g/L)         1135       1.59       15.01       7.69       -206       664       1.8       1.27       425         145       3.62       15.25       7.46       -196       662       1.8       1.21       425
Duration of Pumping:         (min)         3 O           Total Volume Removed:         (gal)         1 C)         Did well go dry?         Yes No           Horiba U-52 Water Quality Meter Used?         Yes No         No    Time DTW Temp (feet) (°C) (°C) (mV) (mS/cm) (NTU) (mg/L) (g/L)  I13S I.59 IS.01 7.69 - 206 (668 I7.9 2.88 .427)  I140 3.91 IS.07 7.56 - 201 (664 I.8 I.27 .425)  I145 3.62 IS.05 7.46 - 196 (662 I.8 I.27 .425)  I145 3.62 IS.05 7.46 - 196 (662 I.8 I.27 .425)  I145 3.62 IS.05 7.46 - 196 (662 I.8 I.27 .425)  II45 II45 II45 II45 II45 II45 II45 II4
Horiba U-52 Water Quality Meter Used?         Yes No           Time         DTW         Temp (feet)         pH         ORP (mV)         Conductivity         Turbidity         DO (mg/L)         TDS (mg/L)         (g/L)         (g/L)         113S         1.S9         15.01         7.69         - 206         668         17.9         2.88         .427         140         1145         3.62         15.25         7.46         - 201         .664         1.8         1.27         .425         1145         3.62         15.25         7.46         - 196         .662         1.8         1.21         .425
Time   DTW   Temp   pH   ORP   Conductivity   Turbidity   DO   TDS   (feet)   (°C)   (mV)   (mS/cm)   (NTU)   (mg/L)   (g/L)   (135   1.57   15.01   7.69   -206   668   7.9   2.88   .407   (140   2.91   15.07   7.56   -201   .664   1.8   1.27   .425   (145   3.62   1.83   1.27   .425   (145   3.62   1.83   1.21   .425   (147   3.62   1.83   1.21   .425
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$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
1135 1.59 15.01 7.69 -206 .668 17.9 2.88 .427 1140 2.91 15.07 7.56 -201 .664 1.8 1.27 .425 1145 3.62 15.25 7.46 -196 .662 1.8 1.21 .425
1140 9.91 15.07 7.56 -201 1.664 1.8 1.27 1.425 1145 3.62 15.25 7.46 -196 1.662 1.8 1.21 1.425
1145 3.62 15.25 7.46 -196 .662 1.8 1.21 .425
1130 A.2S 1/5.26 1/59 1-204 1/663 1/3 11.15 1.425 11
1150 4.25 15.66 1.59 -204 1.663 1.3 1.15 1.425
1200 5.41 15.42 7.63 -207 1.661 0.0 1.04 1.423
1205 5.69 15.49 7.62 -203 1.662 0.0 1.01 1423
Sampling Information:
l l
EPA SW-846 Method 8270 SVOC PAH's 2 - 100 ml ambers Yes No
EPA SW-846 Method 8270 SVOC PAH's 2 - 100 ml ambers Yes No PAH SW-846 Method 8260 VOC's BTEX 3 - 40 ml vials Yes
EPA SW-846 Method 8260 VOC's BTEX 3 - 40 ml vials Yes No Per SW-846 Method 9012 Total Cyanide 1 - 250 ml plastic Yes No Per SW-846 Method 9012 Total Cyanide
EPA SW-846 Method 8260 VOC's BTEX  EPA SW-846 Method 9012 Total Cyanide  Sample ID: MW-20R-1020 Duplicate? Yes No Shipped: Pace Courier Pickup
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
EPA SW-846 Method 8260 VOC's BTEX  EPA SW-846 Method 9012 Total Cyanide  Sample ID: MW-20R-1020 Duplicate? Yes No Shipped: Pace Courier Pickup



# CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:	Section B Required Project Information:			Section C Invoice information:																	-	Page:	1 of	1
Company: GES - Syracuse Report To: Devin Shay (GES)				Attention: Accounts Payable via email at ges-invoices@gesonline.com								REGULATORY AGE					GENCY	/						
Address: 5 Technology Place, Suite 4	dshay@gesonline.com  Report To: Tim Beaumont (GES)			Company Name: Grou	indwater & E	nvironmental S	ervices,	Inc.					$\dashv$	[" NP	DES	Γ:	ROUN					NG WATE		
East Syracuse, New York 13057	tbeaumont@gesonline.com		$\dashv$	Address; 5 Technology	Place, Suite	4, East Syraci	use, NY	13057					$\dashv$	□ us			CRA				THER			
Email To: dshay@gesonline.com	Purchase Order No.:			Pace Quote Reference	C.											SITE		٦	- GA					r-
Phone: 800,220,3069	Project Name: National Grid - Og	densbu	ırgı	Pace Project Manager.	Rachel Chri	stner							-										, HER	
x4051 Requested Due Date/TAT: Standard	King Street Ogdensburg, NY Project Number:						mual	CIME					_	l.OC					JH	<del>,</del> -	,c 77	, <u>, , , , , , , , , , , , , , , , , , </u>	7 //	 7
Requested Due Date/TX1. Standard	0603200-136890-221-1106			Pace Profile #:		Semi-An	inuai	GVVS						Filtered	(Y/N)				_/		4		<i>]  </i>	_//
Section D Required Client Information SAMPLE ID One Character per box. (AZ, 0.91) Samples IDs MUST BE UNIQUE	Valid Mark Codes  MATRIX CODE  BRICKING WATER  OW  WATER  WATER	MATRIX CODE	SAMPLE TYPE G+GRAB C=COMP	COMPOSITE START	GRAS		SAMPLE TEMP AT COLLECTION	#OF CONTAINERS	rpreserved		eserval HOP		Vettano!	Request Analysis	<b>3:</b>								Pa	ce Projeci Number
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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

August 13, 2020

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

RE: Data Usability Summary Report for National Grid - Ogdensburg: Data Packages Pace Analytical Job No. **30372824** 

Review has been completed for the data packages generated by Pace Analytical that pertain to monitoring well samples collected during the July 2020 sampling event at the National Grid Ogdensburg site. Thirteen aqueous samples, 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). One trip blank was analyzed for volatiles with the samples. The trip blank is used to determine if there is BTEX contamination caused by transporting the samples.

Analytical methodologies are those of the USEPA 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.

# BTEX and TCL Volatiles by EPA 8260C/NYSDEC ASP

Sample holding times for groundwater and instrumental tune fragmentations are within acceptance ranges. Surrogate and internal standard recoveries are within required limits. Calibrations standards show acceptable responses within analytical protocol and validation action limits. An MS/MSD was analyzed using **MW-8R** as the matrix. All QC elements fell within project criteria. The blind field duplicate correlations of **MW-10R** were within the project specification of ≤25%.

# PAHs by EPA8270D/NYSDEC ASP

Holding times were met. Instrumental tune fragmentations are within acceptance ranges. Blanks no above RL concentrations, with the exception of low concentrations of 2-methylnaphthalene and naphthalene in the method blank. Sample locations that reported positively detected concentrations less than 5x the concentration in the blank cannot be attributed to the sampling location, and must be qualified as unreliable/unusable. This occurred in the following samples:

- MW-11, MW-14R, MW15RS, MW-20R for both naphthalene and 2-methylnaphthalene
- MW-17R, MW-19R for naphthalene only

Calibration standards, both initial and continuing, show acceptable responses within analytical method protocols and validation guidelines. that Benzo(b)fluoranthene and benzo(k)fluoranthene were separated in the check standard but did not meet the resolution criteria in SW846 Method 8270D. Although sample results included are reported as individual isomers, the lab and the customer must recognize them as an isomeric pair, and the results cannot be considered accurate for the following samples:

- FD-0720 (Lab ID: 30372824014)
- MW-12R-0720 (Lab ID: 30372824007)
- MW-5R(R)-0720 (Lab ID: 30372824002)

The field duplicate (FD) was collected at location MW-10R. Whereas the original sample at MW-10R was quantitated with sufficient resolution, the FD sample does not require qualification, as it agrees with the concentrations in the original sample. MW-12R and MW-5R are qualified as estimated non-detect.

The laboratory control spike recoveries and precision indicate the method is within laboratory control. Matrix spike and matrix spike recoveries were within laboratory specified criteria, with the exception of 2-methylnpthalene and fluorene. The original concentrations of these two analytes were > 4x the spiking concentrations, so accuracy cannot be determined from the spike recovery, and, therefore, no qualifications were required. The blind field duplicate correlations of **MW-10R** were within project specification of RPD ≤ 25%.

Surrogate Terphenyl d-14 was low for sample MW-15.

# 1 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.

Data Usability Report National Grid Saratoga Springs – July 2020 Excelsior Site

Sincerely,



Bonnie Janowiak, Ph.D. Senior Chemist



# **SAMPLE SUMMARY**

Project: National Grid - Ogdensburg Kin

Pace Project No.: 30372824

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30372824001	MW-2(R)-0720	Water	07/14/20 11:00	07/16/20 09:30
30372824002	MW-5R(R)-0720	Water	07/14/20 10:10	07/16/20 09:30
30372824003	MW-8R-0720	Water	07/14/20 10:00	07/16/20 09:30
30372824004	MW-9-0720	Water	07/14/20 14:30	07/16/20 09:30
30372824005	MW-10R-0720	Water	07/14/20 13:40	07/16/20 09:30
30372824006	MW-11-0720	Water	07/14/20 12:00	07/16/20 09:30
30372824007	MW-12R-0720	Water	07/14/20 12:50	07/16/20 09:30
30372824008	MW-14R-0720	Water	07/14/20 11:30	07/16/20 09:30
30372824009	MW-15-0720	Water	07/14/20 13:40	07/16/20 09:30
30372824010	MW-15RS-0720	Water	07/14/20 14:25	07/16/20 09:30
30372824011	MW-17R-0720	Water	07/14/20 10:45	07/16/20 09:30
30372824012	MW-19R-0720	Water	07/14/20 13:00	07/16/20 09:30
30372824013	MW-20R-0720	Water	07/14/20 12:15	07/16/20 09:30
30372824014	FD-0720	Water	07/14/20 00:01	07/16/20 09:30
30372824015	Trip Blanks	Water	07/14/20 00:01	07/16/20 09:30

# **REPORT OF LABORATORY ANALYSIS**

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, LLC.

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



## **PROJECT NARRATIVE**

Project: National Grid - Ogdensburg Kin

Pace Project No.: 30372824

Method: EPA 8270D by SIM

Description: 8270D PAH SIM Reduced Volume

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

**Date:** July 28, 2020

#### **General Information:**

14 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.

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

• FD-0720 (Lab ID: 30372824014)

• MW-12R-0720 (Lab ID: 30372824007)

• MW-5R(R)-0720 (Lab ID: 30372824002)

#### **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: 405747

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

• MW-15-0720 (Lab ID: 30372824009)

• Terphenyl-d14 (S)

## Method Blank:

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

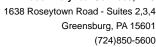
QC Batch: 405747

B: Analyte was detected in the associated method blank.

- BLANK for HBN 405747 [OEXT/416 (Lab ID: 1963756)
  - 2-Methylnaphthalene
  - Naphthalene

## **REPORT OF LABORATORY ANALYSIS**

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Project: National Grid - Ogdensburg Kin

Pace Project No.: 30372824

Method: EPA 8270D by SIM

Description: 8270D PAH SIM Reduced Volume

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

Date: July 28, 2020

## **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: 405747

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30372824003

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

MS (Lab ID: 1963758)
2-Methylnaphthalene
MSD (Lab ID: 1963759)

• Fluorene

## **Additional Comments:**

**Analyte Comments:** 

QC Batch: 405747

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

- MW-15-0720 (Lab ID: 30372824009)
  - Terphenyl-d14 (S)

## **REPORT OF LABORATORY ANALYSIS**

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, LLC.



Project: National Grid - Ogdensburg Kin

Pace Project No.: 30372824

Method: EPA 8260C Description: 8260C MSV

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

Date: July 28, 2020

## **General Information:**

15 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:

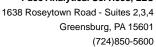
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 406825

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

#### **Additional Comments:**

## **REPORT OF LABORATORY ANALYSIS**





Project: National Grid - Ogdensburg Kin

Pace Project No.: 30372824

Method: EPA 9012B

Description: 9012B Cyanide, Total

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

Date: July 28, 2020

## **General Information:**

14 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.

## **REPORT OF LABORATORY ANALYSIS**



Groundwater & Environmental Services, Inc.

708 North Main Street, Suite 201 Blacksburg, VA 24060

T. 800.662.5067

December 14, 2020

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

RE: Data Usability Summary Report for National Grid - Ogdensburg: Data Packages Pace Analytical Job No. **30372824** 

Review has been completed for the data packages generated by Pace Analytical that pertain to monitoring well samples collected during the July 2020 sampling event at the National Grid Ogdensburg site. Twelve aqueous samples, 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 polycyclic aromatic hydrocarbons (PAHs). One trip blank was analyzed for volatiles with the samples. The trip blank is used to determine if there is BTEX contamination caused by transporting the samples.

Analytical methodologies are those of the USEPA 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
- 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.

# BTEX and TCL Volatiles by EPA 8260C/NYSDEC ASP

Sample holding times for groundwater and instrumental tune fragmentations are within acceptance ranges. Surrogate and internal standard recoveries are within required limits. Calibrations standards show acceptable responses within analytical protocol and validation action limits. An MS/MSD was analyzed using **MW-8R** as the matrix. All QC elements fell within project criteria. The blind field duplicate correlations of **MW-10R** were within the project specification of ≤25%.

# Cyanide by EPA 9012A/NYDESC 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 MW-2R. The original concentration was > 4x that of the spike, so the out-of-specification recovery does not indicate an issue with method efficacy. The blind field duplicate correlations of **MW-10R** were within project criteria. No data was qualified.

# PAHs by EPA8270D/NYSDEC ASP

Holding times were met. Instrumental tune fragmentations are within acceptance ranges. Blanks no above RL concentrations, with the exception of low concentrations of naphthalene in the method blank. Sample locations that reported positively detected concentrations less than 5x the concentration in the blank cannot be attributed to the sampling location, and must be qualified as unreliable/unusable. This occurred in the following samples:

MW-11. MW15, MW-17R, MW-19R, and MW-20R

Surrogates were within specification for all samples. 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. Matrix spike and matrix spike recoveries were within laboratory specified criteria. The blind field duplicate correlations of **MW-10R** were within project specification of RPD  $\leq$  25%.

# 1 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. Senior Chemist, NRCC Certified

anowisk >



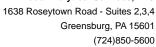
# **SAMPLE SUMMARY**

Project: National Grid - Ogdensburg Kin

Pace Project No.: 30385450

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30385450001	MW-2(R)-1020	Water	10/01/20 13:55	10/03/20 09:45
30385450002	MW-5(R)-1020	Water	10/01/20 14:40	10/03/20 09:45
30385450003	MW-8R-1020	Water	10/01/20 11:20	10/03/20 09:45
30385450004	MW-8R-MS-1020	Water	10/01/20 11:20	10/03/20 09:45
30385450005	MW-8R-MSD-1020	Water	10/01/20 11:20	10/03/20 09:45
30385450006	MW-9-1020	Water	10/01/20 10:10	10/03/20 09:45
30385450007	MW-10R-1020	Water	10/01/20 09:40	10/03/20 09:45
30385450008	MW-11-1020	Water	10/01/20 13:30	10/03/20 09:45
30385450009	MW-12R-1020	Water	10/01/20 12:35	10/03/20 09:45
30385450010	MW-14R-1020	Water	10/01/20 11:15	10/03/20 09:45
30385450011	MW-15-1020	Water	10/01/20 14:45	10/03/20 09:45
30385450012	MW-15RS-1020	Water	10/01/20 13:50	10/03/20 09:45
30385450013	MW-17R-1020	Water	10/01/20 10:15	10/03/20 09:45
30385450014	MW-19R-1020	Water	10/01/20 13:00	10/03/20 09:45
30385450015	MW-20R-1020	Water	10/01/20 12:10	10/03/20 09:45
30385450016	FD-1020	Water	10/01/20 09:40	10/03/20 09:45
30385450017	TRIP BLANKS	Water	10/01/20 15:00	10/03/20 09:45

# **REPORT OF LABORATORY ANALYSIS**





Project: National Grid - Ogdensburg Kin

Pace Project No.: 30385450

Method: EPA 8270D by SIM

Description: 8270D PAH SIM Reduced Volume

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

**Date:** October 13, 2020

## **General Information:**

16 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: 417519

- B: Analyte was detected in the associated method blank.
  - BLANK for HBN 417519 [OEXT/422 (Lab ID: 2018572)
    - 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.

QC Batch: 417519

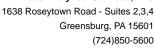
A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30385450003

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

- MSD (Lab ID: 2018575)
  - Acenaphthylene

#### **Additional Comments:**

## **REPORT OF LABORATORY ANALYSIS**





Project: National Grid - Ogdensburg Kin

Pace Project No.: 30385450

Method: EPA 8260C Description: 8260C MSV

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

**Date:** October 13, 2020

## **General Information:**

17 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.

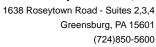
## Laboratory Control Spike:

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 - Ogdensburg Kin

Pace Project No.: 30385450

Method: EPA 9012B

Description: 9012B Cyanide, Total

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

Date: October 13, 2020

## **General Information:**

16 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: 417172

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30385450001,30385450003

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

- MS (Lab ID: 2016972)
  - Cvanide
- MSD (Lab ID: 2016973)
  - Cyanide

## **Additional Comments:**

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

## **REPORT OF LABORATORY ANALYSIS**