AECOM

September 17, 2021

Mr. Gerald H Pratt
Division of Environmental Remediation
New York State Department of
Environmental Conservation
625 Broadway,12th Floor
Albany, NY 12233

Groundwater Monitoring Event Report - 2021 Q2
Penn Yan Water Street Former MGP Site
Penn Yan, New York
NYSDEC Site: 8-62-009

Dear Mr. Pratt

On behalf of New York State Electric and Gas (NYSEG), AECOM USA, Inc. (AECOM) is pleased to present this Groundwater Monitoring Event (GME) report for the former Penn Yan Water Street Manufactured Gas Plant (MGP) site in Penn Yan, New York (the "Site"). **Figure 1** attached shows the Site Location Plan.

This correspondence presents the findings of the GME completed over the period May 24 – 26, 2021 (2021 Q2 GME) which was undertaken in accordance with the Draft Interim Site Management Plan (ISMP; AECOM, 2020a).

Results from the 2021 Q2 GME will be incorporated into the ongoing groundwater monitoring dataset in accordance with the requirements of the Draft ISMP.

1. Background

The Site is an approximate 0.815-acre area located in the Village of Penn Yan, Town of Milo, Yates County, New York as shown in **Figure 2** attached. An off-Site area consists of an approximate 1.7-acre portion of the Keuka Lake Outlet which is a Class C waterway. This off-Site area consists of submerged sediments beneath the Keuka Lake Outlet claimed by the State of New York.

The primary constituents of concern at the Site are benzene, toluene, ethylbenzene, and xylenes (BTEX), polycyclic aromatic hydrocarbons (PAHs) and cyanide. The Site has undergone extensive remedial investigation, numerous interim remedial measures and remedial actions including excavation of impacted soils and removal of former MGP structures. A history of the remedial investigations and actions completed at the Site is provided in the Draft ISMP.

The Draft ISMP was submitted to the New York State Department of Environmental Conservation (NYSDEC) in December 2020 and is pending approval. The Draft ISMP outlines the monitoring requirements for the Site which include quarterly groundwater monitoring for 12 locations across the Site to establish baseline conditions and to evaluate the potential for seasonal fluctuations in constituent concentrations.

The 2021 Q2 GME is the second GME to be completed since submission of the Draft ISMP to NYSDEC in December 2020. The outcomes of the 2021 Q1 GME (February 2021) are presented in AECOM, 2021.

2. Scope of Work

The scope of work completed for the 2021 Q2 GME included the following:

- On May 24, 2021, water level gauging was completed at the 11 groundwater wells specified for monitoring by the Draft ISMP, namely; PRMW-1S, PRMW-2S, PRMW-2D, PRMW-3S, PRMW-3D, PRMW-4S, PRMW -5S, PRMW-5D, PRMW-6S, PRMW-6D, TMW-1D, and TMW-2D. Groundwater monitoring well locations are presented in **Figure 2** attached.
- A suspected blockage previously identified as part of AECOM, 2021 was investigated at TMW-2D and attempt made to remove the blockage.
- Each well was gauged for the presence of non-aqueous phase liquid (NAPL) using an oil-water interface probe.
- Over the period May 24 - 26, 2021, total of 11 groundwater wells (PRMW-1S, PRMW-2S, PRMW-2D, PRMW-3S, PRMW-3D, PRMW-4S, PRMW-5S, PRMW-5D, PRMW-6S, PRMW-6D, and TMW-1D) were sampled in accordance with the Draft ISMP. The following groundwater sampling activities were conducted:
    - Water level measurements were taken at each well prior to purging and sampling.
    - Each well was purged and sampled using low-stress (low flow) groundwater sampling methods by use of a peristaltic pump.
    - Field parameters, including pH, oxidation/reduction potential (ORP), dissolved oxygen (DO), and turbidity, were monitored and documented prior to sample collection. The following stabilization criteria were met for each parameter before sampling:
        - Temperature ±3%
        - pH ±1.0 unit
        - Dissolved Oxygen ±10%
        - Oxidation Reduction Potential ±10mV
        - Specific Conductivity ±3%
        - Drawdown <0.3'

      Groundwater purge and sampling forms are provided in **Appendix A**.
    - All wastewater generated during sampling (purge water, and decontamination fluids) was containerized for characterization and off-Site disposal.
- Quality control samples were collected including one for every 20 field samples taken. Quality control samples consisted of a field duplicate, a matrix spike, a matrix spike duplicate, and an equipment blank. Based on the number of wells to be sampled (11), one set of quality control samples were required. A trip blank was sent daily with each set of VOC samples. Quality control samples were analyzed for BTEX, PAH and total cyanide.
- Groundwater samples were delivered to the Syracuse Eurofins Test America service center on May 26, 2021 to be shipped to Eurofins Test America in Buffalo, New York for laboratory analysis.

All activities were conducted in accordance with the Work Plan (AECOM, 2020b).

3. Groundwater Gauging and Sampling Observations

A total of 11 groundwater wells were gauged and sampled. Well gauging data is provided in **Table 1** attached. A summary of observations is provided below:

- Depth to water ranged from 0.50 feet below ground surface (ft bgs) [PRMW – 5D] to 13.00 ft bgs [PRMW – 2D], and the groundwater table was higher compared to the previous gauging event completed in February 2021.

- A suspected blockage previously identified as part of the AECOM, 2021 works was investigated at TMW-2D and attempt made to remove the blockage. A 20 ft chimney cleaning rod was deployed into the well to attempt to remove or dislodge the blockage. The blockage was not able to be removed or bypassed, and TMW – 2D was not sampled.
- Groundwater flow in the shallow and deep aquifers was in a south easterly direction, toward the Keuka Lake Outlet, as shown in **Figure 3** and **Figure 4** respectively. The general direction of groundwater flow is similar to that documented in previous monitoring events.

  As shown on **Figure 4**, there is an apparent area of relatively lower head in the deep zone in the vicinity of PRMW-3D. This may represent an upward groundwater seepage/flow from the deep to the shallow water bearing zone in this area compared to surrounding areas, possibly indicating the presence of overlying more permeable soil/excavation backfill in this area.
- No measurable NAPL was identified in any of the gauged wells.
- Visual observations included the brief presence of a white, stringy substance in the purged ground water from PRMW-5D. This substance had no odor or sheen and was briefly seen during parameter stabilization.
- No odors or sheens were noted during gauging or sampling.

4. Analytical Laboratory Analyses

All groundwater samples were analyzed for:

- BTEX: EPA Method 8260C
- PAHs: EPA Method 8270D
- Total cyanide: EPA Method 9012B

The laboratory prepared a complete NYSDEC ASP Category B data delivery package as presented in **Appendix B**.

5. Discussion of Analytical Results

Groundwater sample results were validated by an AECOM chemist, and data have been determined to be usable and no data points were rejected. A full copy of the DUSR is provided in **Appendix C**.

Results of analysis have been screened against the NYSDEC Technical and Operational Guidance Series (TOGS) 1.1.1 *Ambient Water Quality Standards and Guidance Values* (AWQS/GV) for water class GA. **Table 2** attached provides a summary of the analytical results screened against the AWQS/GV. Also included in **Table 2** are the results of the previous analysis (2021 Q1 GME) for reference. **Table 3** attached provides the stabilized parameters of each locations at the time of sampling.

Figure 5 summarizes groundwater exceedances for BTEX, PAHs and total cyanide. An overview of the groundwater analytical results is provided below:

- BTEX:
  - Consistent with the 2021 Q1 GME, PRMW-5S was the only well that reported concentrations of BTEX above the AWQS/GV. It is noted that the benzene concentration at PRMW-5S decreased from 42ug/L to 23ug/L but remained above the AWQS/GV.
  - All remaining locations reported BTEX concentrations below the laboratory reporting limit.
- PAHs:
  - Consistent with 2021 Q1 GME, PRMW-5S was the only well that reported PAH concentrations above the AWQS/GV. PRMW-5S reported concentrations of acenaphthene (22 ug/L) and naphthalene (44 ug/L) above the AWQS/GV of 20 ug/L and 10 ug/L respectively.

    There were also detections of anthracene (1.5 ug/L), pyrene (2.0 ug/L), fluoranthene (3.0 ug/L), acenaphthylene (4.4 ug/L), phenanthrene (8.2 ug/L) and fluorene (7.0 ug/L) that did not exceed the AWQS/GV. The PAH signature in groundwater at PRMW-5S is consistent with the 2021 Q1 GME.
  - All remaining locations reported PAH concentrations below the laboratory reporting limit.

- Total Cyanide:
  - There were no exceedances of the AWQS/GV for Total Cyanide.
  - There were detections of Total Cyanide at PRMW-2S (0.015 mg/L), PRMW-3S (0.011 mg/L) and PRMW-5S (0.016 mg/L).
  - Total Cyanide was detected in the Equipment Blank at an estimated concentration of 0.0081 mg/L (refer to the DUSR presented in **Appendix C**). Noting that silicon tubing was newly replaced at each well at the time of sampling, the detected Total Cyanide concentration in the Equipment Blank may potentially be associated with laboratory-sourced contamination rather than from cross contamination in the field.
- Field Parameters:
  - The average pH, turbidity, ORP, conductivity, and dissolved oxygen for shallow wells are 7.26 pH units, 12.58 NTU, 48.87 MeV, 1.11 mS/cm, and 0.48 mg/L, respectively.
  - The average pH, turbidity, ORP, conductivity, and dissolved oxygen for the deep wells are 8.19 pH units, 70.31 NTU, -78.62 MeV, 0.39 mS/cm, and 0.68 mg/L, respectively.

6. Conclusions and Recommendations

Based on the results of the 2021 Q2 GME, the following conclusions are provided:

- Consistent with the previous GME, MGP-related constituents were observed at PRMW-5S only.
- It is recommended that TMW-2D be investigated with a video camera during the next scheduled GME. Based on the outcomes of this investigation, a recommendation will be provided with regard to well rehabilitation/reinstallation actions at this location.
- In accordance with the Draft ISMP, additional data will be collected to understand seasonal fluctuations and inform an appraisal of constituent concentrations at the Site. Groundwater sampling at the 12 specified well locations will continue to be monitored on the schedule outlined in the Draft ISMP.

Should you have any questions regarding this correspondence, please contact Melissa Saunders at Melissa.Saunders@aecom.com.

Sincerely,

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Project File 60648952
John Ruspantini, NYSEG

Figures
Figure 1: Site Location Plan
Figure 2: Monitoring Well Location Plan
Figure 3: Shallow Aquifer Groundwater Contour Plan – May 2021
Figure 4: Deep Aquifer Groundwater Contour Plan – May 2021
Figure 5: Groundwater Exceedance Plan – BTEX and PAHs – May 2021

Tables
Table 1: Groundwater Gauging Table
Table 2: BTEX, PAHs and Total Cyanide
Table 3: Field Parameters

Appendices
Appendix A: Groundwater Sampling Purge Forms
Appendix B: Analytical Laboratory Report
Appendix C: Data Usability Summary Report

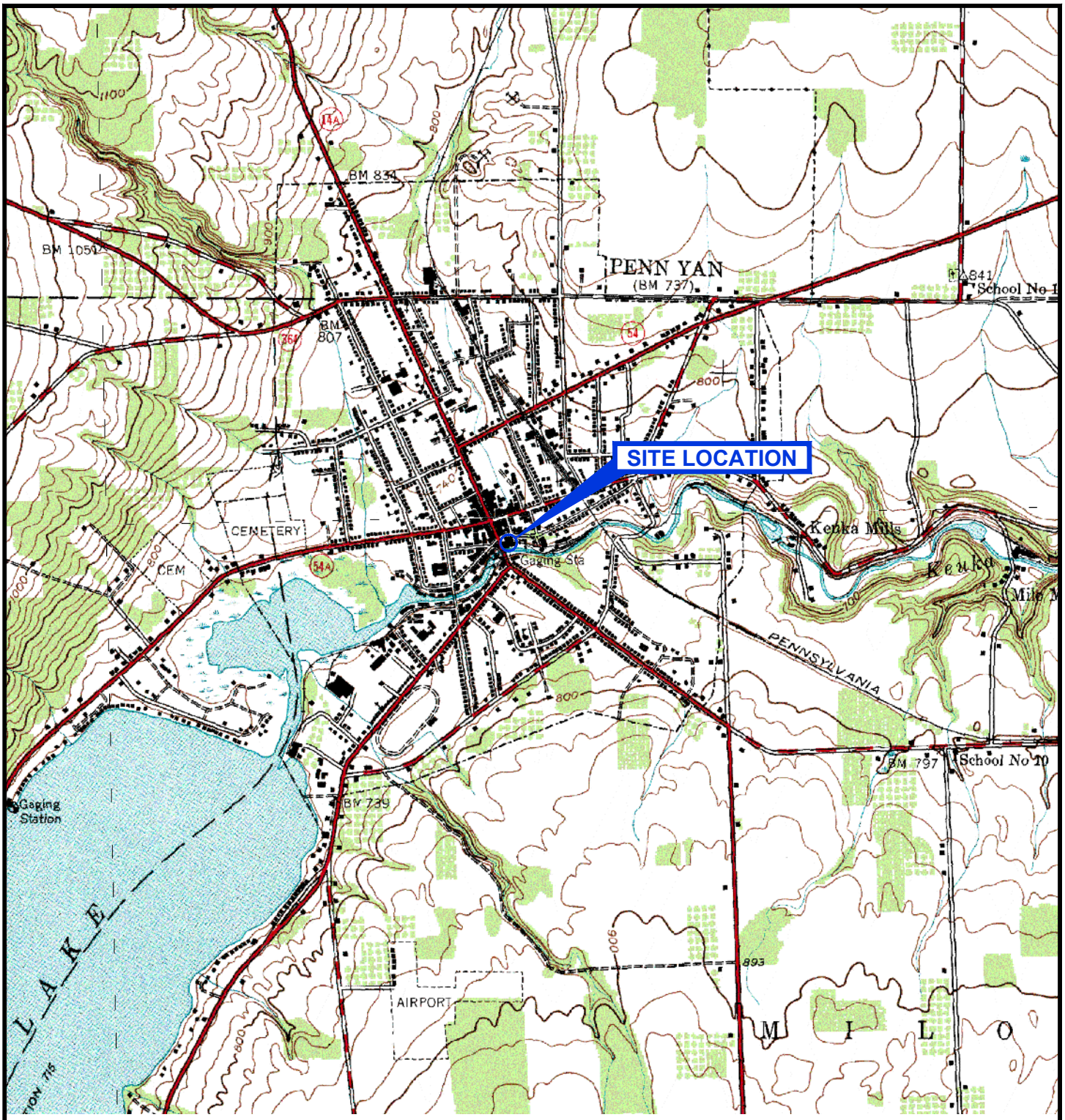
References

AECOM, 2020a. *Penn Yan Former Manufactured Gas Plant Site, Yates County, Penn Yan, New York, Interim Site Management Plan, NYSDEC Site Number: 862009*

AECOM, 2020b. *Subject: New York State Electric and Gas Corporation – Penn Yan Water Street Former MGP Site – Monitoring Well Installation and Groundwater Monitoring Event Work Plan*

AECOM, 2021. *Groundwater Well Installation and Monitoring Report, Water Street Former Manufactured Gas Plant Site, Penn Yan, New York, NYSDEC Site: 862009*.

Figures



UNITED STATES GEOLOGIC SURVEY
PENN YAN QUADRANGLE
NEW YORK
7.5 MINUTE SERIES (TOPOGRAPHY)

PENN YAN, NY.
1983
PHOTOREVISED 1995

SCALE 1:24000

1 1/2 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

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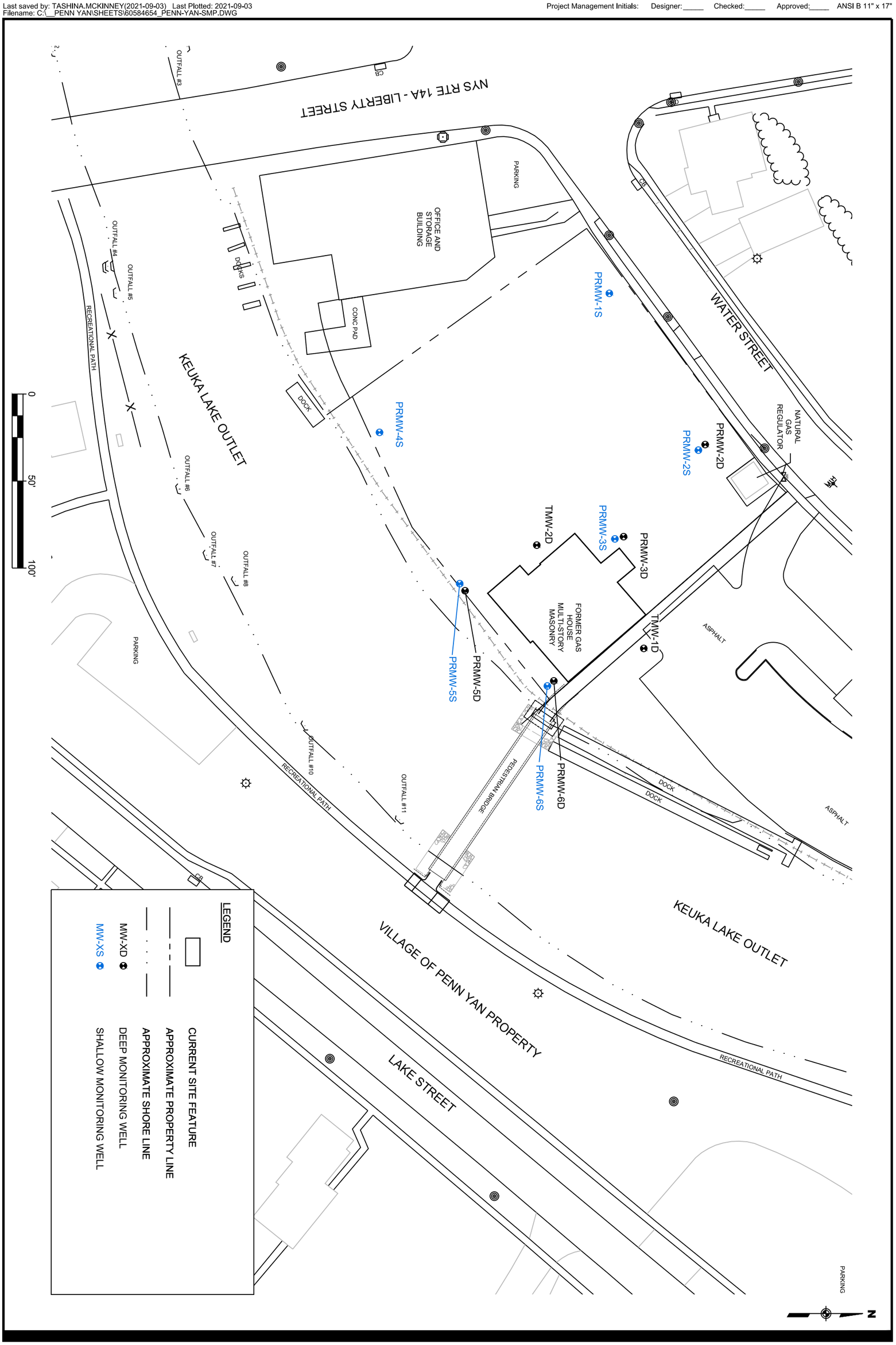
PENN YAN WATER STREET FORMER MGP SITE GROUNDWATER MONITORING EVENT REPORT - 2021 Q2	**SITE LOCATION PLAN**
DATE: SEPTEMBER 2021 | DRWN:	**FIGURE 1**

File: C:_Penn Yan\SHEETS\60284725_SITE_LOC.dwg Layout: 1 User: Tashina.McKinney Plotted: Sep 03, 2021 - 1:02pm Xrefs:



GROUNDWATER MONITORING EVENT REPORT - 2021 Q2
WATER STREET MANUFACTURED GAS PLANT
VILLAGE OF PENN YAN, YATES COUNTY, NEW YORK
Project No.: 60648952 Date: SEPTEMBER 2021

MONITORING WELL LOCATION PLAN

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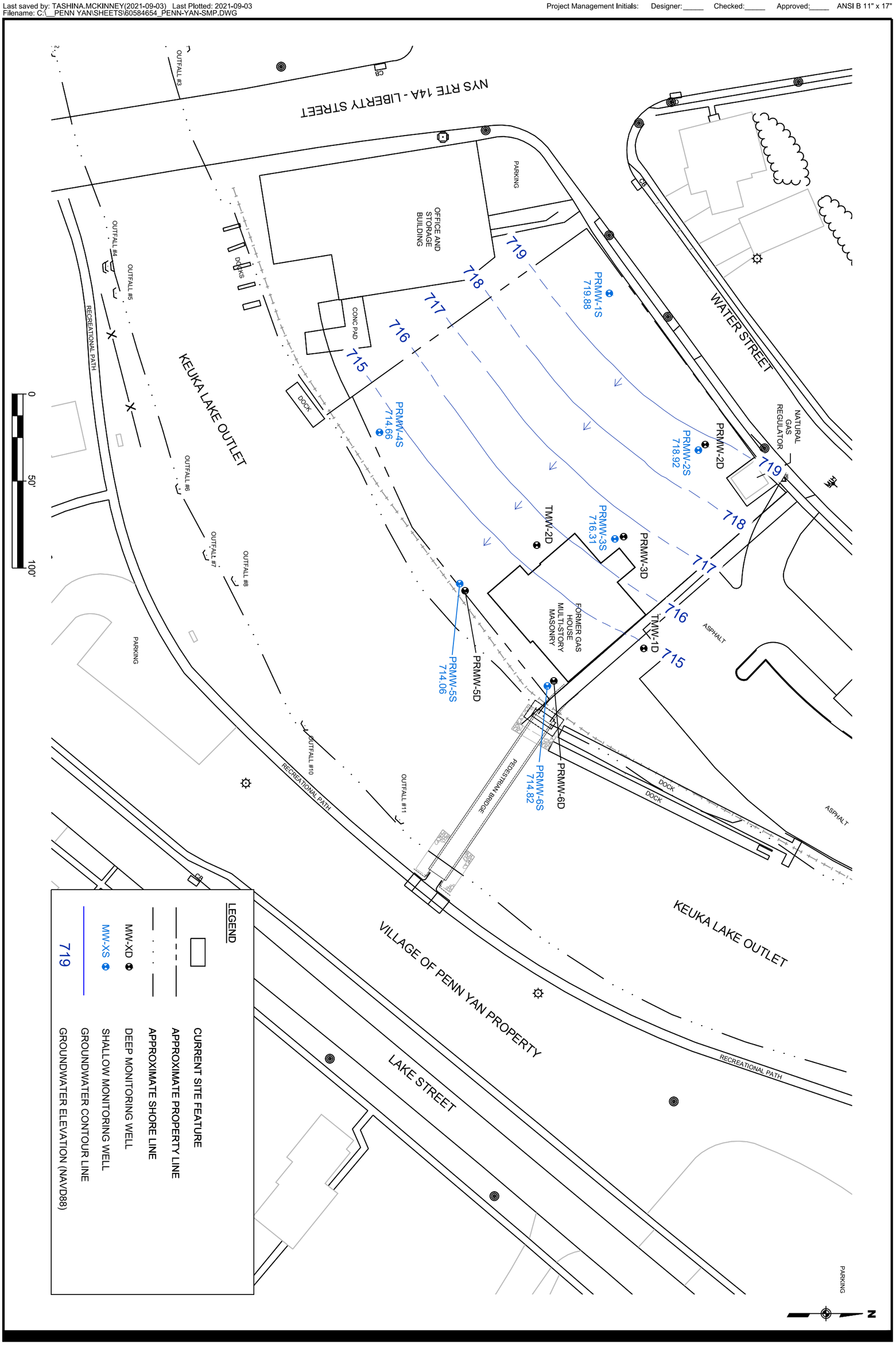
Figure: 2



GROUNDWATER MONITORING EVENT REPORT - 2021 Q2
WATER STREET MANUFACTURED GAS PLANT
VILLAGE OF PENN YAN, YATES COUNTY, NEW YORK
Project No.: 60648952 Date: SEPTEMBER 2021

SHALLOW AQUIFER GROUNDWATER CONTOUR PLAN - MAY 2021

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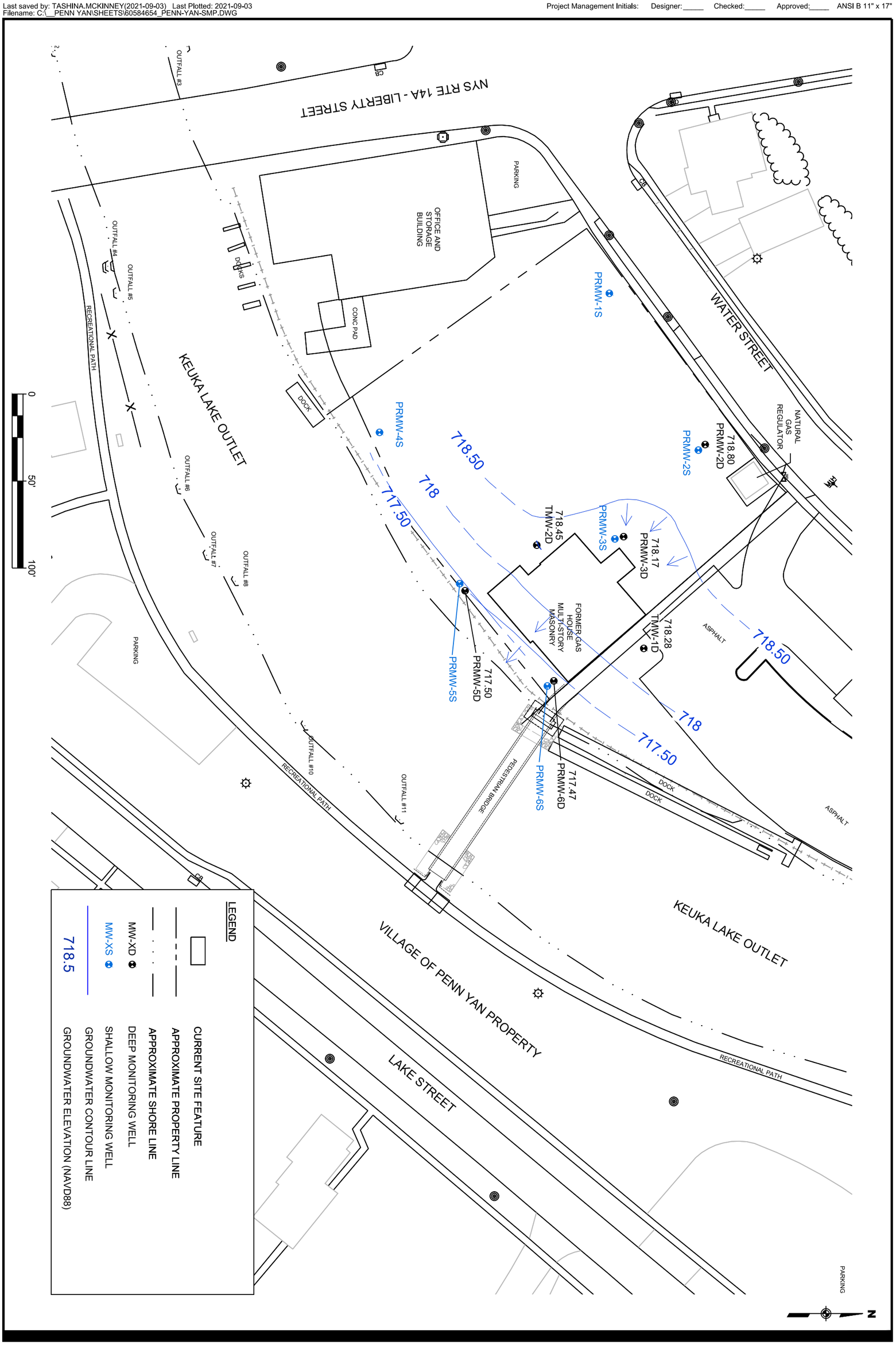
Figure: 3



GROUNDWATER MONITORING EVENT REPORT - 2021 Q2
WATER STREET MANUFACTURED GAS PLANT
VILLAGE OF PENN YAN, YATES COUNTY, NEW YORK
Project No.: 60648952 Date: SEPTEMBER 2021

DEEP AQUIFER GROUNDWATER CONTOUR PLAN - MAY 2021

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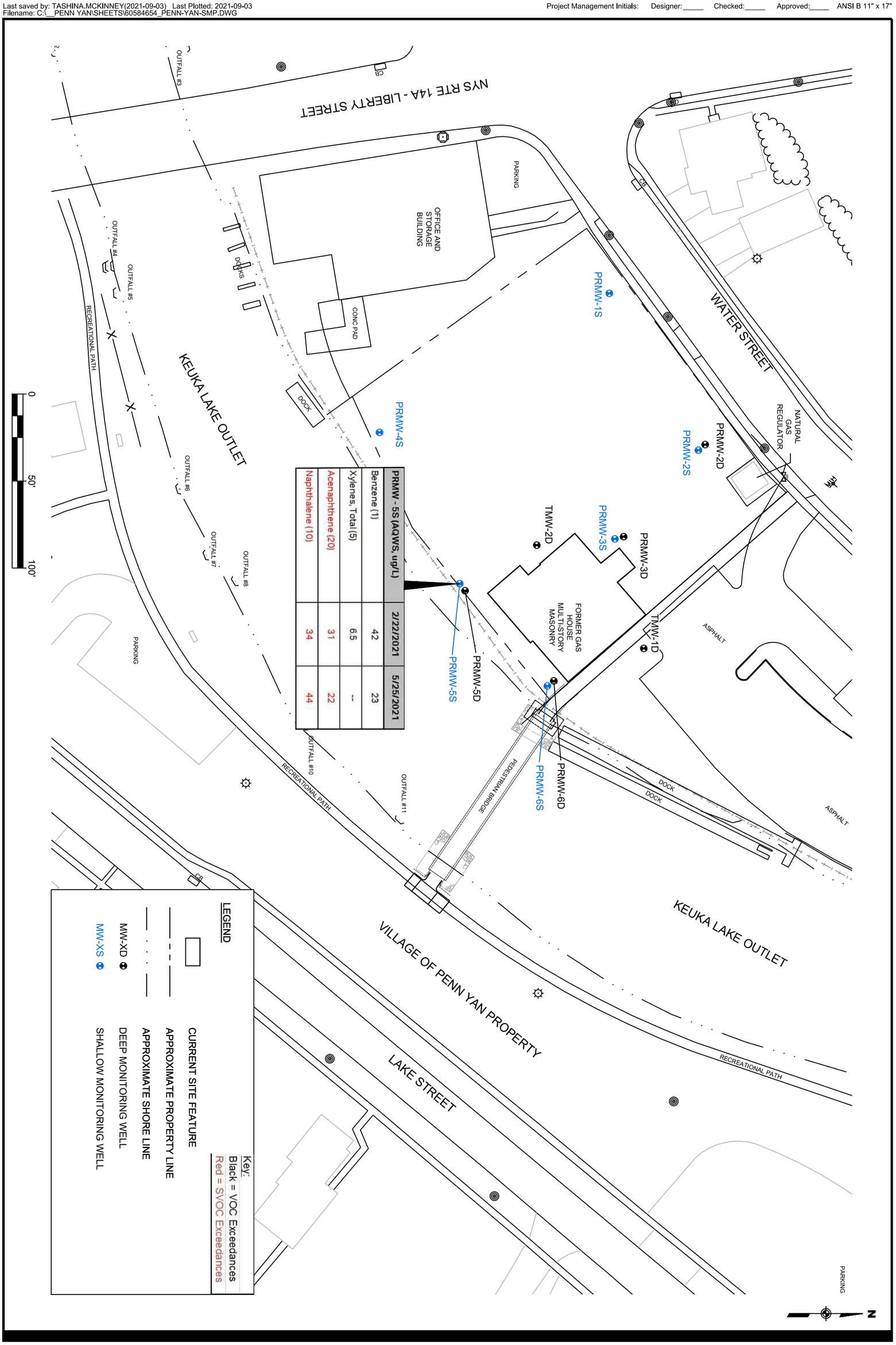
Figure: 4



GROUNDWATER MONITORING EVENT REPORT - 2021 Q2
WATER STREET MANUFACTURED GAS PLANT
VILLAGE OF PENN YAN, YATES COUNTY, NEW YORK
Project No.: 60648952 Date: SEPTEMBER 2021

GROUNDWATER EXCEEDANCE PLAN - MAY 2021

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Figure: 5

Tables

Table 1: Groundwater Gauging Details
Water Street Former MGP Site - 2021 Q2 GME - May 2021
Penn Yan, New York

Well ID	Date Gauged	Total Depth[1] (ft bTOC)	Total Depth[1] (ft bgs)	Screen Interval (ft bgs)	Depth to Water (ft bTOC)	Depth to Water (ft bgs)	NAPL Observed (Y/N)	NAPL Thickness (ft)	Well Inspection and Sampling Notes
PRMW-1S	5/24/2021	29.75	29.75	20 - 30	11.23	11.23	N	NA	No odor or sheen noted, water level rapidly dropped, little recharge seen. Flush mount in good conition, all bolts included.
PRMW-2S	5/24/2021	23.07	20.02	10 - 20	15.63	12.58	N	NA	No odor or sheen noted. Stick-up in good condition. Water level dropped rapidly, not much water in well.
PRMW-2D	5/24/2021	37.92	35.08	25 - 35	15.84	13.00	N	NA	No odor or sheen noted. Stick-up and lock in good condition.
PRMW-3S	5/24/2021	22.98	20.15	10 - 20	7.42	4.59	N	NA	No odor or sheen noted. Stick-up and lock in good condition.
PRMW-3D	5/24/2021	36.01	33.20	25 - 35	5.64	2.83	N	NA	No odor or sheen noted. Stick-up and lock in good condition.
PRMW-4S	5/24/2021	27.20	24.38	14 - 24	7.26	4.44	N	NA	No odor or sheen noted. Stick-up and lock in good condition.
PRMW-5S	5/24/2021	22.67	20.05	10 - 20	6.66	4.04	N	NA	No odor or sheen noted. Stick-up and lock in good condition.
PRMW-5D	5/24/2021	32.45	29.71	20 - 30	3.24	0.50	N	NA	White, stringy substance noted during purging. No odor or sheen noted. Stick-up and lock in good condition. Very silty, will need redevelopment at end of next event.
PRMW-6S	5/24/2021	23.10	19.90	10 - 20	6.28	3.08	N	NA	No odor or sheen noted. Stick-up and lock in good condition.
PRMW-6D	5/24/2021	37.05	34.33	24 - 34	3.75	1.03	N	NA	No odor or sheen noted. Stick-up and lock in good condition.
TMW-1D	5/24/2021	63.38	63.38	54 - 64	5.17	5.17	N	NA	No odor or sheen noted. Flush mount in good condition, all bolts included.
TMW-2D	5/24/2021	N/A	N/A	50 - 60	0.79	0.79	N	NA	Unable to remove blockage from TMW-2D. Attempted to insert a chimney rod past the well blockage with no success. Did not sample.

Notes:
1. Measured at the time of gauging
2. ft bTOC- feet below top of casing
3. ft bgs - feet below ground surface
4. NA - Not applicable
5. -- No data

Table 2: BTEX, PAHs and Total Cyanide
2021 Q2 GME - May 2021
Water Street Former MGP Site
Penn Yan, New York

			BTEX µg/L								PAHs µg/L																	
Sample ID	**Laboratory Report Number**	**Sample Date**	Benzene		Ethylbenzene		Toluene		Xylenes, Total		Anthracene		Pyrene		Benzo(g,h,i) perylene		Indeno(1,2,3-cd)pyrene		Benzo(b) fluoranthene		Fluoranthene		Benzo(k) fluoranthene		Acenaphthylene	
AWQS/GV[2]			1		5		5		5		50		50		NS		0.002		0.002		50		0.002		NS	
PRMW-1S	480-181441	2/22/2021	1	U	1	U	1	U	2	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
	480-185257-1	5/26/2021	1.0	U	1.0	UJ	1.0	UJ	2.0	UJ	5.2	U	5.2	U	5.2	U	5.2	U	5.2	U	5.2	U	5.2	U	5.2	U
PRMW-2S	480-181441	2/23/2021	1	F2 U	1	U	1	U	2	U	5.4	U	5.4	U	5.4	U	5.4	U	5.4	U	5.4	U	5.4	U	5.4	U
	480-185257-1	5/24/2021	1.0	U	1.0	UJ	1.0	UJ	2.0	UJ	5.2	U	5.2	U	5.2	U	5.2	U	5.2	U	5.2	U	5.2	U	5.2	U
PRMW-2D	480-181441	2/23/2021	1	U	1	U	1	U	2	U	6	U	6	U	6	U	6	U	6	U	6	U	6	U	6	U
	480-185257-1	5/25/2021	1.0	U	1.0	UJ	1.0	UJ	2.0	UJ	5.2	U	5.2	U	5.2	U	5.2	U	5.2	U	5.2	U	5.2	U	5.2	U
PRMW-3S	480-181441	2/23/2021	1	U	1	U	1	U	2	U	5.4	U	5.4	U	5.4	U	5.4	U	5.4	U	5.4	U	5.4	U	5.4	U
DUP-1 (PRMW-3S)	480-181441	2/23/2021	1	U	1	U	1	U	2	U	5.4	U	5.4	U	5.4	U	5.4	U	5.4	U	5.4	U	5.4	U	5.4	U
PRMW-3S	480-185257-1	5/24/2021	1.0	U	1.0	UJ	1.0	UJ	2.0	UJ	5.2	U	5.2	U	5.2	U	5.2	U	5.2	U	5.2	U	5.2	U	5.2	U
PRMW-3D	480-181441	2/23/2021	1	U	1	U	1	U	2	U	6.3	U	6.3	U	6.3	U	6.3	U	6.3	U	6.3	U	6.3	U	6.3	U
	480-185257-1	5/26/2021	1.0	U	1.0	UJ	1.0	UJ	2.0	UJ	5.2	U	5.2	U	5.2	U	5.2	U	5.2	U	5.2	U	5.2	U	5.2	U
PRMW-4S	480-181441	2/22/2021	1	U	1	U	1	U	2	U	5.4	U	5.4	U	5.4	U	5.4	U	5.4	U	5.4	U	5.4	U	5.4	U
	480-185257-1*	5/25/2021	1.0	U	1.0	UJ	1.0	UJ	2.0	UJ	5.2	U	5.2	U	5.2	U	5.2	U	5.2	U	5.2	U	5.2	U	5.2	U
DUP (PRMW-54S)	480-185257-1	5/25/2021	1.0	U	1.0	UJ	1.0	UJ	2.0	UJ	5.2	U	5.2	U	5.2	U	5.2	U	5.2	U	5.2	U	5.2	U	5.2	U
PRMW-5S	480-181441	2/22/2021	**42**		**2.7**		**1.1**		**6.5**		**4.7**	**J**	**3.8**	**J**	5.4	U	5.4	U	5.4	U	**6.0**		5.4	U	**5.6**	
	480-185257-1	5/25/2021	**23**		**2.4**	**J**	**0.75**	**J**	**4.9**	**J**	**1.5**	**J**	**2.0**	**J**	5.2	U	5.2	U	5.2	U	**3.0**	**J**	5.2	U	**4.4**	**J**
PRMW-5D	480-181441	2/22/2021	1	U	1	U	1	U	2	U	5.4	U	5.4	U	5.4	U	5.4	U	5.4	U	5.4	U	5.4	U	5.4	U
	480-185257-1	5/24/2021	1.0	U	1.0	UJ	1.0	UJ	2.0	UJ	5.2	U	5.2	U	5.2	U	5.2	U	5.2	U	5.2	U	5.2	U	5.2	U
PRMW-6S	480-181441	2/22/2021	1	U	1	U	1	U	2	U	5.4	U	5.4	U	5.4	U	5.4	U	5.4	U	5.4	U	5.4	U	5.4	U
	480-185257-1	5/25/2021	1.0	U	1.0	UJ	1.0	UJ	2.0	UJ	5.4	U	5.4	U	5.4	U	5.4	U	5.4	U	5.4	U	5.4	U	5.4	U
PRMW-6D	480-181441	2/22/2021	1	U	1	U	1	U	2	U	5.4	U	5.4	U	5.4	U	5.4	U	5.4	U	5.4	U	5.4	U	5.4	U
	480-185257-1	5/25/2021	1.0	U	1.0	UJ	1.0	UJ	2.0	UJ	5.2	U	5.2	U	5.2	U	5.2	U	5.2	U	5.2	U	5.2	U	5.2	U
TMW-1D	480-185257-1	5/26/2021	1.0	U	1.0	UJ	1.0	UJ	2.0	UJ	5.2	U	5.2	U	5.2	U	5.2	U	5.2	U	5.2	U	5.2	U	5.2	U
TMW-2D	480-181441	2/24/2021	1	U	1	U	1	U	2	U	5.4	U	5.4	U	5.4	U	5.4	U	5.4	U	5.4	U	5.4	U	5.4	U
EQUIP BLANK	480-181441	2/23/2021**	--		--		--		--		--		--		--		--		--		--		--		--	
	480-185257-1	5/26/2021	1.0	U	1.0	UJ	1.0	UJ	2.0	UJ	5.2	U	5.2	U	5.2	U	5.2	U	5.2	U	5.2	U	5.2	U	5.2	U
TRIP BLANK	480-181441	2/24/2021	1	U	1	U	1	U	2.0	U	--		--		--		--		--		--		--		--	
	480-185257-1	5/26/2021	1.0	U	1.0	UJ	1.0	UJ	2.0	UJ	--		--		--		--		--		--		--		--	

Notes:

1. Technical and Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards and Guidance Values (AWQS/GV) for water class GA.

2. **Bold**- Analyte was detected in laboratory analysis

3. Highlight- Analyte was detected above the AWQS/GV

4. Xylene AWQS (5 µg/L) applies to the sum of isomers

5. NS - No Standard

6. U - Not detected above laboratory reporting limit.

7. J - Result is estimated, detection was below the reporting limit but above the method detection limit.

8. J- -The result is an estimated quantity and may be biased low.

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

9. F2- MS/MSD RPD exceeds control limits

11. -- Not Analyzed

12. * Note laboratory logged sample as PRMU-4S

13. ** Equipment blank analyzed for PFAS and reported under separate cover. Reported PFAS concentrations in the Equipment Blank were not detected above the reported sample quantitation limit

14. Note samples submitted to, and logged by, the laboratory for the 2021 Q1 GME (February),were labeled MW-1S, MW-2S, MW-2D, MW-3S, MW-3D, MW-4S, MW-5S, MW-5D, MW-6S and MW-6D. It is noted these wells are referred to as PRMW-1S, PRMW-2S, PRMW-2D, PRMW-3S, PRMW-3D, PRMW-4S, PRMW-5S, PRMW-5D, PRMW-6S and PRMW-6D.

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Table 2: BTEX, PAHs and Total Cyanide
2021 Q2 GME - May 2021
Water Street Former MGP Site
Penn Yan, New York

			PAHs µg/L										Cyanide (mg/L)	
Sample ID	**Laboratory Report Number**	**Sample Date**	Chrysene	Benzo(a)pyrene	Dibenzo(a,h) anthracene	Benzo(a) anthracene	Acenaphthene	Phenanthrene	Fluorene	Naphthalene	Cyanide, Total	
AWQS/GV[2]			0.002	Any Detection	NS	0.002	20	50	50	10	**0.2**	
PRMW-1S	480-181441	2/22/2021	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.01	U
	480-185257-1	5/26/2021	5.2 U	5.2 U	5.2 U	5.2 U	5.2 U	5.2 U	5.2 U	5.2 U	0.01	U
PRMW-2S	480-181441	2/23/2021	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	0.088	
	480-185257-1	5/24/2021	5.2 U	5.2 U	5.2 U	5.2 U	5.2 U	5.2 U	5.2 U	5.2 U	**0.015**	**J-**
PRMW-2D	480-181441	2/23/2021	6 U	6 U	6 U	6 U	6 U	6 U	6 U	6 U	0.01	U
	480-185257-1	5/25/2021	5.2 U	5.2 U	5.2 U	5.2 U	5.2 U	5.2 U	5.2 U	5.2 U	0.01	U
PRMW-3S	480-181441	2/23/2021	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	0.01	U
DUP-1 (PRMW-3S)	480-181441	2/23/2021	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	0.01	U
PRMW-3S	480-185257-1	5/24/2021	5.2 U	5.2 U	5.2 U	5.2 U	5.2 U	5.2 U	5.2 U	5.2 U	**0.011**	
PRMW-3D	480-181441	2/23/2021	6.3 U	6.3 U	6.3 U	6.3 U	6.3 U	6.3 U	6.3 U	6.3 U	**0.013**	
	480-185257-1	5/26/2021	5.2 U	5.2 U	5.2 U	5.2 U	5.2 U	5.2 U	5.2 U	5.2 U	0.01	U
PRMW-4S	480-181441	2/22/2021	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	**0.0054**	**J**
	480-185257-1*	5/25/2021	5.2 U	5.2 U	5.2 U	5.2 U	5.2 U	5.2 U	5.2 U	5.2 U	0.01	U
DUP (PRMW-54S)	480-185257-1	5/25/2021	5.2 U	5.2 U	5.2 U	5.2 U	5.2 U	5.2 U	5.2 U	5.2 U	0.01	U
PRMW-5S	480-181441	2/22/2021	5.4 U	5.4 U	5.4 U	5.4 U	**31**	**6.0**	**11**	**34**	**0.15**	
	480-185257-1	5/25/2021	5.2 U	5.2 U	5.2 U	5.2 U	**22**	**8.2**	**7.0**	**44**	**0.016**	
PRMW-5D	480-181441	2/22/2021	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	0.01	U
	480-185257-1	5/24/2021	5.2 U	5.2 U	5.2 U	5.2 U	5.2 U	5.2 U	5.2 U	5.2 U	0.01	U
PRMW-6S	480-181441	2/22/2021	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	0.01	U
	480-185257-1	5/25/2021	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	0.01	U
PRMW-6D	480-181441	2/22/2021	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	0.01	U
	480-185257-1	5/25/2021	5.2 U	5.2 U	5.2 U	5.2 U	5.2 U	5.2 U	5.2 U	5.2 U	0.01	U
TMW-1D	480-185257-1	5/26/2021	5.2 U	5.2 U	5.2 U	5.2 U	5.2 U	5.2 U	5.2 U	5.2 U	0.01	UJ
TMW-2D	480-181441	2/24/2021	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	0.01	U
EQUIP BLANK	480-181441	2/23/2021**	--	--	--	--	--	--	--	--	--	
	480-185257-1	5/26/2021	5.2 U	5.2 U	5.2 U	5.2 U	5.2 U	5.2 U	5.2 U	5.2 U	**0.0081**	**J**
TRIP BLANK	480-181441	2/24/2021	--	--	--	--	--	--	--	--	--	
	480-185257-1	5/26/2021	--	--	--	--	--	--	--	--	--	

Notes:

1. Technical and Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards and Guidance Values (AWQS/GV) for water class GA.

2. **Bold**- Analyte was detected in laboratory analysis

3. Highlight- Analyte was detected above the AWQS/GV

4. Xylene AWQS (5 µg/L) applies to the sum of isomers

5. NS - No Standard

6. U - Not detected above laboratory reporting limit.

7. J - Result is estimated, detection was below the reporting limit but above the method detection limit.

8. J- -The result is an estimated quantity and may be biased low.

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

9. F2- MS/MSD RPD exceeds control limits

11. -- Not Analyzed

12. * Note laboratory logged sample as PRMU-4S

13. ** Equipment blank analyzed for PFAS and reported under separate cover. Reported PFAS concentrations in the Equipment Blank were not detected above the reported sample quantitation limit

14. Note samples submitted to, and logged by, the laboratory for the 2021 Q1 GME (February),were labeled MW-1S, MW-2S, MW-2D, MW-3S, MW-3D, MW-4S, MW-5S, MW-5D, MW-6S and MW-6D. It is noted these wells are referred to as PRMW-1S, PRMW-2S, PRMW-2D, PRMW-3S, PRMW-3D, PRMW-4S, PRMW-5S, PRMW-5D, PRMW-6S and PRMW-6D.

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Table 3: Groundwater Field Parameters
2021 Q2 GME - May 2021
Water Street Former MGP Site
Penn Yan, New York

		Field Parameters				
Location	**Sample Date**	pH (pH units)	Turbidity (NTU)	ORP (MeV)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)
PRMW-1S	2/22/2021	7.14	42.69	78.3	1.656	1.22
	5/26/2021	6.94	12.1	172.4	2.76	0.82
PRMW-2S	2/23/2021	7.28	87.6	167	1.87	1.35
	5/25/2021	7.34	8.17	75.0	1.35	0.88
PRMW-2D	2/23/2021	7.5	33.25	172.4	0.56	2.63
	5/25/2021	10.93	12.8	92.9	0.433	1.82
PRMW-3S	2/23/2021	7.48	100.1	108.8	0.778	1.39
	5/24/2021	7.40	4.80	37.2	0.57	0.21
PRMW-3D	2/23/2021	7.81	50.8	58.1	0.473	0.76
	5/24/2021	7.52	28.2	-71.1	0.399	0.51
PRMW-4S	2/22/2021	7.22	47.35	68.7	0.808	0.26
	5/25/2021	7.04	2.98	-10.8	0.94	0.33
PRMW-5S	2/22/2021	7.35	29.7	-94.5	0.517	0.24
	5/25/2021	7.35	5.51	-107.8	0.58	0.23
PRMW-5D	2/22/2021	7.61	278.66	-141.4	0.321	0.28
	5/25/2021	7.63	284	-147.0	0.390	0.17
PRMW-6S	2/22/2021	8.53	56.72	60.1	0.338	1.86
	5/25/2021	7.48	41.9	127.2	0.43	0.38
PRMW-6D	2/22/2021	7.88	301.28	-131.7	0.285	0.25
	5/25/2021	7.53	8.56	-151.9	0.339	0.30
TMW-1D	5/26/2021	7.36	18.0	-116.0	0.369	0.58
TMW-2D	2/24/2021	8.00	154.39	162.2	0.27	6.83

Notes:

1. ORP - Oxidation Reduction Potential; NTU - nephelometric turbidity units; MeV - megaelecton volt; mS/cm - milliSiemens per centimeter; mg/L - milligrams per liter.

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Appendix A - Groundwater Sampling Purge Forms

Monitoring Well Purging / Sampling Form

Project Name and Number: Penn Yan NYSEG 60648952

Monitoring Well Number: TMW-1D Date: 05/26/21

Samplers: MI

Sample Number: — QA/QC Collected? NO

Purging / Sampling Method: peripump, low-flow

1. L = Well Depth:	63.38	feet
2. D = Riser Diameter (I.D.):	0.17	feet
3. W = Depth to Water:	5.05	feet
4. C = Column of Water in Well:	58.33	feet
5. V = Volume of Water in Well = C(3.14159)(0.5D)^2(7.48)	9.9	gal
6. 3(V) = Target Purge Volume	29.7	gal

D (inches)	D (feet)
1-inch	0.08
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using NTU + YSI

Parameter	Units	Readings						
Time	24 hr	0820	0825	0830	0835	0840	0845	0850
Water Level (0.33)	feet	5.63	5.63	5.64	5.64	5.64	5.64	5.64
Volume Purged	gal	0.60	1.20	1.40	2.40	3.0	3.5	4.0
Flow Rate	mL/min	500	500	500	500	500	500	500
Turbidity (+/- 10%)	NTU	16.4	17.3	17.8	10.5	13.0	10.2	18.0
Dissolved Oxygen (+/- 10%)	%	8.2	5.8	5.8	6.0	5.7	5.9	5.6
Dissolved Oxygen (+/- 10%)	mg/L	0.84	0.59	0.59	0.61	0.59	0.61	0.58
Eh / ORP (+/- 10)	MeV	-80.1	-97.7	-106.0	-109.1	-110.1	-113.7	-116.0
Specific Conductivity (+/- 3%)	mS/cm^c	495.8	492.7	483.9	486.1	483.2	483.4	481.2
Conductivity (+/- 3%)	mS/cm	0.373	0.371	0.373	0.374	0.372	0.372	0.369
pH (+/- 0.1)	pH unit	7.37	7.31	7.24	7.34	7.34	7.36	7.36
Temp (+/- 0.5)	C°	12.9	12.9	13.0	12.9	13.0	12.9	12.9
Color	Visual	clr	clr	clr	clr	clr	clr	clr
Odor	Olfactory	no	no	no	no	no	no	no

Comments:

- No odor or sheen detected

sample time 0900

4 gal / 30 min

Monitoring Well Purging / Sampling Form

Project Name and Number: Penn Yan - NYSEG - 60648952

Monitoring Well Number: PR MW-1S Date: 5/26/21

Samplers: Pat Mdlyn

Sample Number: PRMW-1S 052621 QA/QC Collected? ✓

Purging / Sampling Method: Perist. pump w/dedicated tubing

1. L = Well Depth:	29.75	feet
2. D = Riser Diameter (I.D.):	0.17	feet
3. W = Depth to Water:	11.39	feet
4. C = Column of Water in Well:	18.36	feet
5. V = Volume of Water in Well = C(3.14159)(0.5D)^2(7.48)	≈ 3.0	gal
6. 3(V) = Target Purge Volume	≈ 9.0	gal

D (inches)	D (feet)
1-inch	0.08
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using NTU + YSI

Parameter	Units	Readings						
Time	24 hr	0805	0810	0815	0820	0825	0830	0835
Water Level (0.33)	feet	11.39	13.76	14.42	14.79	15.22	15.48	15.72
Volume Purged	gal	0	0.25	0.50	0.75	1.5	1.75	2.25
Flow Rate	mL/min	100	100	50	100	50	100	100
Turbidity (+/- 10%)	NTU	18.1	14.8	14.3	13.9	11.0	11.8	12.1
Dissolved Oxygen (+/- 10%)	%	105.1	14.1	9.3	9.0	8.3	8.1	8.4
Dissolved Oxygen (+/- 10%)	mg/L	10.25	1.42	0.93	0.89	0.81	0.79	0.82
Eh / ORP (+/- 10)	MeV	184.8	180.5	179.7	178.5	177.5	176.4	172.4
Specific Conductivity (+/- 3%)	mS/cm^c	3.286	3.504	3.481	3.492	3.488	3.485	3.481
Conductivity (+/- 3%)	mS/cm	2.59	2.75	2.76	2.78	2.74	2.77	2.76
pH (+/- 0.1)	pH unit	6.90	6.94	6.94	6.95	6.94	6.95	6.94
Temp (+/- 0.5)	C°	13.8	13.7	14.2	14.3	14.6	14.2	14.2
Color	Visual	Clear	clear	clear	clear	clear	clear	clear
Odor	Olfactory	✓	✓	✓	✓	✓	✓	✓

Comments: Pump on @ 0805, Water level dropping very fast, little recharge seen.

- No odor or sheen detected.

Sampled @ 0845

(11

Monitoring Well Purging / Sampling Form

Project Name and Number: PennYan NYSEG 60648952

Monitoring Well Number: PRMW-2D Date: 05/25/21

Samplers: MT

Sample Number: — QA/QC Collected? NO

Purging / Sampling Method: peripump

1. L = Well Depth:	37.92	feet
2. D = Riser Diameter (I.D.):	0.17	feet
3. W = Depth to Water:	15.86	feet
4. C = Column of Water in Well:	22.06	feet
5. V = Volume of Water in Well = C(3.14159)(0.5D)^2(7.48)	3.75	gal
6. 3(V) = Target Purge Volume	11.23	gal

D (inches)	D (feet)
1-inch	0.08
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using NTU + YSI

Parameter	Units	Readings						
Time	24 hr	1325	1330	1335	1340	1345	1350	1355
Water Level (0.33)	feet	18.00	19.08	19.85	21.00	22.31	23.1	24.15
Volume Purged	gal	0.33	6.66	1.0	1.3	1.6	2.0	2.3
Flow Rate	mL/min	250	250	250	250	280	250	250
Turbidity (+/- 10%)	NTU	13.5	12.8	12.6	11.1	11.2	11.4	10.6
Dissolved Oxygen (+/- 10%)	%	28.7	26.7	28.5	27.8	28.2	27.7	27.9
Dissolved Oxygen (+/- 10%)	mg/L	2.72	2.54	2.70	2.63	2.66	2.60	2.60
Eh / ORP (+/- 10)	MeV	137.8	130.9	124.9	120.2	114.9	111.3	107.0
Specific Conductivity (+/- 3%)	mS/cm^c	494.4	519.6	524.7	525.7	530.4	522.0	525.3
Conductivity (+/- 3%)	mS/cm	0.417	0.433	0.443	0.444	0.451	0.445	0.450
pH (+/- 0.1)	pH unit	10.69	10.93	10.96	10.95	10.95	10.94	10.94
Temp (+/- 0.5)	C°	16.7	16.8	16.4	16.8	17.5	17.6	17.7
Color	Visual	clr	clr	clr	clr	clr	clr	clr
Odor	Olfactory	no	no	no	no	no	no	no

Comments:

1445

Sample time

- No odor or sheen seen

(23)

Monitoring Well Purging / Sampling Form

Project Name and Number: Penn Yan NYSEG 60648952

Monitoring Well Number: PMRW2D Date: 05/25/21

Samplers: MT

Sample Number: — QA/QC Collected? No

Purging / Sampling Method: peristaltic pump

1. L = Well Depth:	37.92	feet
2. D = Riser Diameter (I.D.):	0.17	feet
3. W = Depth to Water:	15.86	feet
4. C = Column of Water in Well:	22.06	feet
5. V = Volume of Water in Well = C(3.14159)(0.5D)^2(7.48)	3.75	gal
6. 3(V) = Target Purge Volume	11.23	gal

D (inches)	D (feet)
1-inch	0.08
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using NTU + YSI

Parameter	Units	Readings						
Time	24 hr	1400	1405	1410	1415	1420	1425	1430
Water Level (0.33)	feet	24.61	25.79	26.45	27.27	28.20	28.40	28.43
Volume Purged	gal	2.6	3.0	3.3	3.1	4.0	4.3	4.6
Flow Rate	mL/min	250	250	250	250	250	250	250
Turbidity (+/- 10%)	NTU	13.1	11.2	11.7	11.4	13.7	14.2	12.4
Dissolved Oxygen (+/- 10%)	%	25.4	21.8	20.5	20.1	19.7	19.2	19.7
Dissolved Oxygen (+/- 10%)	mg/L	2.33	2.07	1.95	1.92	1.85	1.82	1.82
Eh / ORP (+/- 10)	MeV	97.4	98.6	95.9	94.7	93.7	93.4	92.9
Specific Conductivity (+/- 3%)	mS/cm^c	536.2	520.6	519.3	514.0	513.8	504.4	495.4
Conductivity (+/- 3%)	mS/cm	0.472	0.434	0.436	0.430	0.435	0.425	0.433
pH (+/- 0.1)	pH unit	10.87	10.95	10.94	10.95	10.98	10.99	10.93
Temp (+/- 0.5)	C°	21.0	16.7	16.7	16.4	16.8	16.8	17.4
Color	Visual	clr	clr	clr	clr	clr	clr	clr
Odor	Olfactory	no	no	no	no	no	no	no

Comments:

Sample time

1445.

- No odor or sheen seen

Monitoring Well Purging / Sampling Form

Project Name and Number: Penn Yan - NYSEG - 60648952

Monitoring Well Number: PRMW-2S Date: 5/25/21

Samplers: Pat McFye

Sample Number: PRMW-2S 052521 QA/QC Collected? ~~✓~~

Purging / Sampling Method: Peri pump w/dedicated tubing

1. L = Well Depth:	23.07	feet
2. D = Riser Diameter (I.D.):	0.17	feet
3. W = Depth to Water:	15.66	feet
4. C = Column of Water in Well:	7.41	feet
5. V = Volume of Water in Well = C(3.14159)(0.5D)^2(7.48)	1.20	gal
6. 3(V) = Target Purge Volume	3.6	gal

D (inches)	D (feet)
1-inch	0.08
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using NTU + YSI

Parameter	Units	Readings							
Time	24 hr	1230	1235	1240	1245	1250	1255	1300	1305
Water Level (0.33)	feet	15.66	15.77	15.84	15.86	15.90	15.93	15.93	15.95
Volume Purged	gal	0	0.25	0.50	1.0	1.25	1.50	1.75	2.00
Flow Rate	mL/min	50	50	50	50	50	50	50	50
Turbidity (+/- 10%)	NTU	5.07	5.52	~~6.76~~	7.38	8.15	8.10	8.20	8.17
Dissolved Oxygen (+/- 10%)	%	32.5	24.3	16.1	13.2	11.6	10.2	9.4	8.7
Dissolved Oxygen (+/- 10%)	mg/L	3.05	2.43	1.58	1.35	1.16	1.02	0.93	.98
Eh / ORP (+/- 10)	MeV	91.4	91.0	83.8	82.3	81.8	79.2	76.7	75.0
Specific Conductivity (+/- 3%)	mS/cm^c	1.4149	1.472	1.489	1.553	1.552	1.667	1.676	1.684
Conductivity (+/- 3%)	mS/cm	1.18	1.15	1.20	1.22	1.26	1.28	1.32	1.35
pH (+/- 0.1)	pH unit	7.48	7.43	7.39	7.36	7.36	7.36	7.34	7.34
Temp (+/- 0.5)	C°	17.2	15.6	14.7	14.2	14.1	14.1	14.0	14.0
Color	Visual	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear
Odor	Olfactory	~~✓~~	~~✓~~	~~✓~~	~~✓~~	~~✓~~	~~✓~~	~~✓~~	~~✓~~

Comments: Pump on @ 1230

- Water level dropping rapidly, Not much in well.

Sampled @ 1305

- No odor or Sheen Seen

(1)

Monitoring Well Purging / Sampling Form

Project Name and Number: Penn Yan NYSEG 60648952

Monitoring Well Number: PRMW -3D. Date: 05/24/21

Samplers: MT

Sample Number: — QA/QC Collected? N/A

Purging / Sampling Method: Peri pump

1. L = Well Depth:	36.01	feet
2. D = Riser Diameter (I.D.):	0.17	feet
3. W = Depth to Water:	5.46	feet
4. C = Column of Water in Well:	30.55	feet
5. V = Volume of Water in Well = C(3.14159)(0.5D)^2(7.48)	5.19	gal
6. 3(V) = Target Purge Volume	15.6	gal

D (inches)	D (feet)
1-inch	0.08
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using NTU + YSI

Parameter	Units	Readings						
Time	24 hr	1505	1510	1515	1520	1525	1530	1535
Water Level (0.33)	feet	7.92	8.44	8.71	8.63	8.60	8.60	8.66
Volume Purged	gal	0.33	0.66	1.0	1.33	1.66	2	2.33
Flow Rate	mL/min	250	250	250	200	200	200	200
Turbidity (+/- 10%)	NTU	49.4	58.1	44.9	52.0	62.5	74.0	44.7
Dissolved Oxygen (+/- 10%)	%	14.5	8.8	7.8	6.4	5.1	4.7	4.9
Dissolved Oxygen (+/- 10%)	mg/L	1.44	0.90	0.79	0.69	0.51	0.47	0.49
Eh / ORP (+/- 10)	MeV	-45.4	-52.3	-55.7	-60.2	-65.4	-71.3	-71.6
Specific Conductivity (+/- 3%)	mS/cm^c	503.4	503.5	501.2	560.6	498.4	499.1	497.6
Conductivity (+/- 3%)	mS/cm	0.393	0.393	0.397	0.397	0.399	0.399	0.398
pH (+/- 0.1)	pH unit	7.73	7.55	7.52	7.51	7.52	7.50	7.50
Temp (+/- 0.5)	C°	13.5	13.6	14.1	14.2	14.6	14.5	14.7
Color	Visual	clear	clear	clear	clear	clear	clear	clr
Odor	Olfactory	none	none	none	none	no.	no.	no

Comments:

1615 Sample time

• No odor or sheen seen

(2)

Monitoring Well Purging / Sampling Form

Project Name and Number: Penn Yan NYSEG 60648452

Monitoring Well Number: PRMW-3D Date: 05 24 21

Samplers: MJ

Sample Number: — QA/QC Collected? -

Purging / Sampling Method: peristaltic pump

1. L = Well Depth:	36.01	feet
2. D = Riser Diameter (I.D.):	0.17	feet
3. W = Depth to Water:	5.46	feet
4. C = Column of Water in Well:	30.55	feet
5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$	5.14	gal
6. 3(V) = Target Purge Volume	15.6	gal

D (inches)	D (feet)
1-inch	0.08
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using NTU + YSI

Parameter	Units	Readings						
Time	24 hr	1340	1345	1350	1355	1600	1605	1610
Water Level (0.33)	feet	8.66	8.66	8.66	8.60	8.66		
Volume Purged	gal	2.66	3.00	3.33	3.66	4.00		
Flow Rate	mL/min	200	200	200	200	200		
Turbidity (+/- 10%)	NTU	45.1	42.2	33.5	31.3	28.2		
Dissolved Oxygen (+/- 10%)	%	4.8	4.6	4.8	4.9	5.1		
Dissolved Oxygen (+/- 10%)	mg/L	0.48	0.46	0.48	0.49	0.51		
Eh / ORP (+/- 10)	MeV	-70.6	-73.2	-71.8	-72.1	-71.1		
Specific Conductivity (+/- 3%)	mS/cm[c]	498.2	496.9	497.7	497.4	497.5		
Conductivity (+/- 3%)	mS/cm	0.398	0.399	0.406	0.398	0.399		
pH (+/- 0.1)	pH unit	7.53	7.52	7.52	7.52	7.52		
Temp (+/- 0.5)	C°	14.5	14.6	14.8	14.5	14.7		
Color	Visual	clr	clr	clr	clr	clr		
Odor	Olfactory	no	no	no	no	no		

Comments:

1615 Sample time

• No odor or sheen seen

Monitoring Well Purging / Sampling Form

Project Name and Number: Penn Yan - NYSEG - 60648952

Monitoring Well Number: PRMW-35 Date: 3/24/21

Samplers: Pat Melfi

Sample Number: PRMW-35 032421 QA/QC Collected? —

Purging / Sampling Method: peri pump w/ded. tubing

1. L = Well Depth:	22.98	feet
2. D = Riser Diameter (I.D.):	0.17	feet
3. W = Depth to Water:	7.42	feet
4. C = Column of Water in Well: (gaged)	15.56	feet
5. V = Volume of Water in Well = C(3.14159)(0.5D)^2(7.48)	2.5	gal
6. 3(V) = Target Purge Volume	7.5	gal

D (inches)	D (feet)
1-inch	0.08
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using NTU + YSI

Parameter	Units	Readings						
Time	24 hr	1515	1520	1525	1530	1535	1540	1545
Water Level (0.33)	feet	7.59	7.65	7.68	8.48	8.56	8.82	8.98
Volume Purged	gal	0	0.25	0.35	0.5	0.8	1.1	1.5
Flow Rate	mL/min	200	150	150	150	200	200	200
Turbidity (+/- 10%)	NTU	15.3	12.7	10.4	9.58	8.29	7.66	6.57
Dissolved Oxygen (+/- 10%)	%	14.5	8.5	7.5	5.0	4.0	3.8	3.6
Dissolved Oxygen (+/- 10%)	mg/L	1.45	.90	0.73	0.49	0.39	0.37	0.36
Eh / ORP (+/- 10)	MeV	102.6	90.3	90.2	78.1	70.3	63.6	60.5
Specific Conductivity (+/- 3%)	mS/cm^c	0.817	0.802	0.801	0.812	0.810	0.795	0.791
Conductivity (+/- 3%)	mS/cm	0.66	0.66	0.66	0.66	0.65	0.63	0.63
pH (+/- 0.1)	pH unit	7.58	7.45	7.40	7.40	7.40	7.36	7.35
Temp (+/- 0.5)	C°	14.9	14.9	15.8	15.6	14.3	14.4	14.5
Color	Visual	Clear	Clear	Clear	Clear	Clear	Clear	Clear
Odor	Olfactory	—	—	—	—	—	—	—

Comments: Started @ 1515

- No odor or Sheen Seen

≈ 500 mL / 2.5 min ≈ 200 mL/min

Monitoring Well Purging / Sampling Form

Project Name and Number: Penn Yan - NYSEG - 606489SZ

Monitoring Well Number: PRMW-35 Date: 5/24/21

Samplers: Pat McHugh.

Sample Number: PRMW-35 052421 QA/QC Collected? ✓

Purging / Sampling Method: perri pump w/ dedicated tubing

1. L = Well Depth:	22.98	feet
2. D = Riser Diameter (I.D.):	0.17	feet
3. W = Depth to Water:	7.42	feet
4. C = Column of Water in Well:	15.56	feet
5. V = Volume of Water in Well = C(3.14159)(0.5D)^2(7.48)	≈ 2.50	gal
6. 3(V) = Target Purge Volume	≈ 7.50	gal

D (inches)	D (feet)
1-inch	0.08
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using NTU + YSI

NTULS NTULS NTULS

Parameter	Units	Readings					
Time	24 hr	1550	1550	1555	1600	1605	1610
Water Level (0.33)	feet	8.95	9.09	9.19	9.27	9.30	9.38
Volume Purged	gal	2.2	2.60	3.0	3.25	3.5	3.80
Flow Rate	mL/min	200	200	200	200	200	200
Turbidity (+/- 10%)	NTU	6.01	7.82	5.89	4.52	3.58	4.80
Dissolved Oxygen (+/- 10%)	%	3.7	2.3	2.1	2.0	2.0	2.0
Dissolved Oxygen (+/- 10%)	mg/L	0.37	0.23	0.21	0.20	0.20	0.21
Eh / ORP (+/- 10)	MeV	52.7	48.2	43.3	39.9	34.8	37.2
Specific Conductivity (+/- 3%)	mS/cm^c	0.783	0.777	0.767	0.758	0.738	0.727
Conductivity (+/- 3%)	mS/cm	0.63	0.62	0.61	0.60	0.59	0.57
pH (+/- 0.1)	pH unit	7.36	7.38	7.36	7.36	7.38	7.46
Temp (+/- 0.5)	C°	14.5	14.5	14.4	14.4	14.3	14.0
Color	Visual	Clear	Clear	Clear	Clear	Clear	Clear
Odor	Olfactory	✓	✓	✓	✓	✓	✓

✓ ✓ NTULS.0 ✓

Comments: • No odor, No Sheen

☆ Sampled @ 1610

Monitoring Well Purging / Sampling Form

Project Name and Number: Penn Yan NYSEG 6064852

Monitoring Well Number: PMRW-45 Date: 052521

Samplers: MI

Sample Number: - QA/QC Collected? Duplicate.

Purging / Sampling Method: peristaltic pump, low flow

1. L = Well Depth:	27.20	feet
2. D = Riser Diameter (I.D.):	0.17	feet
3. W = Depth to Water:	7.25	feet
4. C = Column of Water in Well:	19.95	feet
5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$	3.4	gal
6. 3(V) = Target Purge Volume	10.2	gal

D (inches)	D (feet)
1-inch	0.08
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using NTU + YSI

Parameter	Units	Readings						
Time	24 hr	1115	1120	1125	1130	1135	1140	1145
Water Level (0.33)	feet	7.95	8.13	8.22	8.32	8.38	8.44	8.48
Volume Purged	gal	.3	.6	1	1.3	1.6	2	2.3
Flow Rate	mL/min	250	→	→	→	→	→	→
Turbidity (+/- 10%)	NTU	38.3	16.8	12.9	15.0	11.9	6.47	6.74
Dissolved Oxygen (+/- 10%)	%	6.6	5.4	4.5	4.0	3.7	3.5	3.4
Dissolved Oxygen (+/- 10%)	mg/L	0.68	0.55	0.46	0.40	0.37	0.35	0.35
Eh / ORP (+/- 10)	MeV	-36.0	-40.6	-38.3	-40.5	-37.5	-30.9	-29.8
Specific Conductivity (+/- 3%)	mS/cm	844	845	905	940	987	1053	1064
Conductivity (+/- 3%)	mS/cm	0.67	0.67	0.72	0.75	0.78	0.83	0.84
pH (+/- 0.1)	pH unit	7.32	7.25	7.17	7.16	7.15	7.12	7.11
Temp (+/- 0.5)	C°	14.2	14.2	14.2	14.2	14.1	14.0	14.2
Color	Visual	clr	clr	clr	clr	clr	clr	clr
Odor	Olfactory	no	no	no	no	no	no	no

Comments:

Duplicate sample PRMW-545, 1215 052521

PRMW-45, 1215 052521

- No odor or sheen seen

Monitoring Well Purging / Sampling Form

Project Name and Number: Penn Yan NYSEG 6064852

Monitoring Well Number: PMRW-48 Date: 05252

Samplers: MT

Sample Number: — QA/QC Collected? Duplicate

Purging / Sampling Method: peripump

1. L = Well Depth:	27.20	feet
2. D = Riser Diameter (I.D.):	0.17	feet
3. W = Depth to Water:	2.25	feet
4. C = Column of Water in Well:	19.95	feet
5. V = Volume of Water in Well = C(3.14159)(0.5D)^2(7.48)	3.4	gal
6. 3(V) = Target Purge Volume	10.2	gal

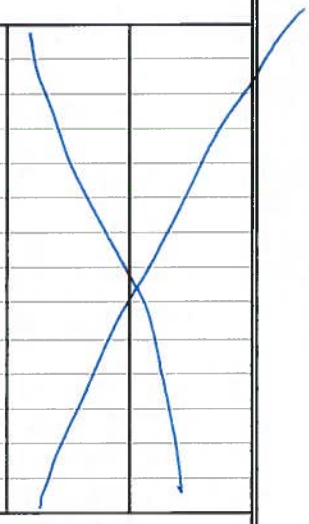
D (inches)	D (feet)
1-inch	0.08
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using NTU + YSI

Parameter	Units	Readings				
Time	24 hr	1150	1155	1200	1205	1210
Water Level (0.33)	feet	8.47	8.51	8.53	8.56	8.57
Volume Purged	gal	2.6	3	3.3	3.6	4
Flow Rate	mL/min	250	→	→	→	→
Turbidity (+/- 10%)	NTU	5.69	3.34	3.57	2.98	
Dissolved Oxygen (+/- 10%)	%	3.3	3.3	3.4	3.3	3.3
Dissolved Oxygen (+/- 10%)	mg/L	0.33	0.33	0.34	0.33	0.33
Eh / ORP (+/- 10)	MeV	-24.6	-18.4	-16.2	-14.4	-10.6
Specific Conductivity (+/- 3%)	mS/cm^c	1099	1145	1142	1166	1185
Conductivity (+/- 3%)	mS/cm	0.87	0.91	0.91	0.92	0.94
pH (+/- 0.1)	pH unit	7.08	7.07	7.06	7.05	7.04
Temp (+/- 0.5)	C°	14.1	14.1	14.3	14.1	14.2
Color	Visual	clr	clr	clr	clr	clr
Odor	Olfactory	no	no	no	no	no.



Comments:

sample time

1215

- No odor or sheen seen.

Monitoring Well Purging / Sampling Form

Project Name and Number: Penn Yan - NYSEG - 60648952

Monitoring Well Number: PRMW-5D Date: 5/25/21

Samplers: Pat McHugh

Sample Number: PRMW-5D 052521 QA/QC Collected? -

Purging / Sampling Method: Peri pump w/ dedicated tubing.

1. L = Well Depth:	32.45	feet
2. D = Riser Diameter (I.D.):	0.17	feet
3. W = Depth to Water:	3.41	feet
4. C = Column of Water in Well:	29.04	feet
5. V = Volume of Water in Well = C(3.14159)(0.5D)^2(7.48)	4.73	gal
6. 3(V) = Target Purge Volume	14.2	gal

D (inches)	D (feet)
1-inch	0.08
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using NTU + YSI

Parameter	Units	Readings						
Time	24 hr	0930	0935	0940	0945	0950	0955	1000
Water Level (0.33)	feet	3.41	5.01	5.36	5.86	6.06	6.23	6.45
Volume Purged	gal	0	0.25	0.5	0.75	1.00	1.25	1.50
Flow Rate	mL/min	100	100	100	100	100	100	100
Turbidity (+/- 10%)	NTU	202	175	224	309	350	467	271
Dissolved Oxygen (+/- 10%)	%	17.0	6.1	4.1	2.9	2.5	2.3	2.10
Dissolved Oxygen (+/- 10%)	mg/L	1.72	0.59	0.39	0.28	0.24	0.22	0.20
Eh / ORP (+/- 10)	MeV	-106.1	-126.7	-132.5	-137.2	-136.8	-138.4	-139.1
Specific Conductivity (+/- 3%)	mS/cm^c	0.460	0.458	0.459	0.461	0.462	0.464	0.460
Conductivity (+/- 3%)	mS/cm	0.371	0.377	0.385	0.378	0.379	0.382	0.381
pH (+/- 0.1)	pH unit	7.55	7.54	7.54	7.56	7.52	7.53	7.53
Temp (+/- 0.5)	C°	14.8	15.7	16.5	15.5	15.6	15.7	16.0
Color	Visual	Cloudy	Cloudy	Cloudy	Cloudy	Cloudy	Cloudy	Cloudy
Odor	Olfactory							

Comments: Pump on @ 0930

- No Sheen or odor detected.
- Very Silty, will need Redevelopment @ end of Event

Monitoring Well Purging / Sampling Form

Project Name and Number: Penn Yan - NYSEG - 60648952

Monitoring Well Number: PRMW-SD Date: 5/25/21

Samplers: Pat McHugh

Sample Number: PRMW-SD 052521 QA/QC Collected? ✓

Purging / Sampling Method: Peri pump w/ dedicated tubing

1. L = Well Depth:	32.45	feet
2. D = Riser Diameter (I.D.):	0.17	feet
3. W = Depth to Water:	3.41	feet
4. C = Column of Water in Well:	29.04	feet
5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$	4.73	gal
6. 3(V) = Target Purge Volume	14.2	gal

D (inches)	D (feet)
1-inch	0.08
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using NTU + YSI

Parameter	Units	Readings						
Time	24 hr	1005	1010	1015	1020	1025		
Water Level (0.33)	feet	6.65	6.72	6.78	6.83	6.88		
Volume Purged	gal	1.75	2.00	2.50	3.0	3.25		
Flow Rate	mL/min	100	100	100	100	100		
Turbidity (+/- 10%)	NTU	183	173	232	258	284		
Dissolved Oxygen (+/- 10%)	%	2.0	1.9	1.9	1.8	1.8		
Dissolved Oxygen (+/- 10%)	mg/L	0.19	0.18	0.18	0.17	0.17		
Eh / ORP (+/- 10)	MeV	-142.5	-143.5	-144.6	-145.6	-147.0		
Specific Conductivity (+/- 3%)	mS/cm^c	0.463	0.464	0.466	0.465	0.466		
Conductivity (+/- 3%)	mS/cm	0.385	0.386	0.388	0.391	0.390		
pH (+/- 0.1)	pH unit	7.57	7.58	7.59	7.60	7.63		
Temp (+/- 0.5)	C°	16.2	16.2	16.3	16.6	16.6		
Color	Visual	Cloudy	Cloudy	Cloudy	Cloudy	Cloudy		
Odor	Olfactory	✓	✓	✓	✓	✓		

Comments:
- No Sheen or odor detected.
- Very silty @ some times.

*Sampled @ 1025, turbidity spiked to ++ (>800NTU) after Bottleware was prepped and Sample began.
↳ Sediment was White and Stringy like Water treatment flocculant

Monitoring Well Purging / Sampling Form

Project Name and Number: Penn Yan - NYSEG - 606489 52

Monitoring Well Number: PRMW-5S Date: 5/25/21

Samplers: Pat McTyre

Sample Number: PRMW-5S 052521 QA/QC Collected? ✓

Purging / Sampling Method: peri pump W/ dedicated tubg.

1. L = Well Depth:	22.67	feet
2. D = Riser Diameter (I.D.):	0.17	feet
3. W = Depth to Water:	6.67	feet
4. C = Column of Water in Well:	16.00	feet
5. V = Volume of Water in Well = C(3.14159)(0.5D)^2(7.48)	2.6	gal
6. 3(V) = Target Purge Volume	7.82	gal

D (inches)	D (feet)
1-inch	~~0.08~~
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using NTU + YSI

Parameter	Units	Readings							
Time	24 hr	1050	1055	1100	1105	1110	1115	1120	1125
Water Level (0.33)	feet	6.67	6.84	6.84	6.84	6.87	6.93	6.96	6.98
Volume Purged	gal	0	0.25	0.50	0.75	1.25	1.75	2.25	2.75
Flow Rate	mL/min	100	100	100	100	150	150	150	150
Turbidity (+/- 10%)	NTU	17.4	8.87	6.95	7.16	5.73	6.18	5.82	5.51
Dissolved Oxygen (+/- 10%)	%	16.8	4.8	4.0	4.1	3.4	2.5	2.4	2.3
Dissolved Oxygen (+/- 10%)	mg/L	1.65	0.48	0.39	0.41	0.34	0.25	0.23	0.23
Eh / ORP (+/- 10)	MeV	-95.5	-102.6	-105.2	-106.0	-105.0	-105.0	-106.5	-107.8
Specific Conductivity (+/- 3%)	mS/cm[c]	0.725	0.717	0.715	0.717	0.717	0.712	0.708	0.709
Conductivity (+/- 3%)	mS/cm	0.58	0.58	0.59	0.59	0.57	0.57	0.57	0.58
pH (+/- 0.1)	pH unit	7.59	7.39	7.33	7.33	7.32	7.31	7.34	7.35
Temp (+/- 0.5)	C°	14.5	15.0	15.5	15.5	14.4	15.1	15.4	15.4
Color	Visual	Clear-Sh	Clear	Clear	Clear	Clear	Clear	Clear	Clear
Odor	Olfactory	/	/	/	/	/	/	/	/

Comments: Pump on @ 1050

- No odor of sheen Seen

* Sampled @ 1125.

(1)

Monitoring Well Purging / Sampling Form

Project Name and Number: Penn Yan NYSEG 60648952

Monitoring Well Number: PRMW-65 Date: 05/25/21

Samplers: MI

Sample Number: — QA/QC Collected? NO

Purging / Sampling Method: Peri pump

1. L = Well Depth:	23.10	feet
2. D = Riser Diameter (I.D.):	0.17	feet
3. W = Depth to Water:	6.24	feet
4. C = Column of Water in Well:	16.92	feet
5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$	2.87	gal
6. 3(V) = Target Purge Volume	8.6	gal

D (inches)	D (feet)
1-inch	0.08
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using NTU + YSI

Parameter	Units	Readings						
Time	24 hr	805	810	815	820	825	830	835
Water Level (0.33)	feet	8.20	8.96	9.89	10.70	11.57	12.49	13.16
Volume Purged	gal	0.20	0.48	0.68	0.86	1.08	1.28	1.48
Flow Rate	mL/min	150	150	150	150	150	150	150
Turbidity (+/- 10%)	NTU	28.3	23.1	21.2	17.9	14.3	12.7	9.63
Dissolved Oxygen (+/- 10%)	%	0.55	0.45	0.41	0.44	0.44	0.47	0.44
Dissolved Oxygen (+/- 10%)	mg/L	5.4	4.4	4.0	4.3	4.3	4.6	4.3
Eh / ORP (+/- 10)	MeV	221.1	213.6	204.6	199.3	194.6	190.3	187.9
Specific Conductivity (+/- 3%)	mS/cm[c]	495.0	493.6	492.8	492.9	492.3	493.7	496.0
Conductivity (+/- 3%)	mS/cm	0.384	0.381	0.380	0.380	0.381	0.385	0.385
pH (+/- 0.1)	pH unit	7.56	7.48	7.44	7.44	7.50	7.50	7.51
Temp (+/- 0.5)	C°	13.3	13.2	13.6	13.1	13.1	13.6	13.4
Color	Visual	clr	clr	clr	clr	clr	clr	clr
Odor	Olfactory	no	no	no	no	no	no	no

Comments:

started sample at 0900 - Ran into excessive turbidity and had to restabilize. Discarded original sample and resampled entire set at 1045

1L / 7 min

. No odor or sheen

(2)

Monitoring Well Purging / Sampling Form

Project Name and Number: Penn Yan NYSEG 60648452

Monitoring Well Number: PRMW-65 (DA) Date: 052521

Samplers: MI

Sample Number: — QA/QC Collected? —

Purging / Sampling Method: peripump

1. L = Well Depth:	23.10	feet
2. D = Riser Diameter (I.D.):	0.17	feet
3. W = Depth to Water:	6.28	feet
4. C = Column of Water in Well:	16.92	feet
5. V = Volume of Water in Well = C(3.14159)(0.5D)^2(7.48)	2.87	gal
6. 3(V) = Target Purge Volume	8.6	gal

D (inches)	D (feet)
1-inch	0.08
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using NTU + YSI

Parameter	Units	Readings						
Time	24 hr	840	845	850	0855	0945	0900	0955
Water Level (0.33)	feet	13.58	13.71	13.90	14.88	[illegible]	15.52	15.71
Volume Purged	gal	~~0.32~~ 1.60	~~0.36~~ 1.80	~~0.38~~ 1.90	2.2	2.4	2.6	2.8
Flow Rate	mL/min	150	150	150	150	150	150	150
Turbidity (+/- 10%)	NTU	8.64	8.04	7.84	155	187	185	154
Dissolved Oxygen (+/- 10%)	%	4.2	4.3	4.2	8.0	7.5	7.4	7.4
Dissolved Oxygen (+/- 10%)	mg/L	0.44	0.43	0.43	0.83	0.75	0.74	0.73
Eh / ORP (+/- 10)	MeV	185.3	182.8	180.5	158.9	161.9	161.3	158.3
Specific Conductivity (+/- 3%)	mS/cm^c	496.0	496.9	498.0	509.6	509.4	511.4	526.6
Conductivity (+/- 3%)	mS/cm	0.385	0.384	0.384	0.394	0.405	0.409	0.420
pH (+/- 0.1)	pH unit	7.50	7.56	7.50	7.66	7.47	7.42	7.42
Temp (+/- 0.5)	C°	13.3	13.3	13.0	13.2	14.4	14.5	14.5
Color	Visual	clr	clr	clr	no	no	no	no
Odor	Olfactory	no	no	no	clr	clr	clr	clr

15.32

Comments:

0900 sample time

well ran ~~dry after~~ turbid, never dry for VOC samples. Recharged until 0930. Restabilized and sampled VOCs.

(3)

Monitoring Well Purging / Sampling Form

Project Name and Number: Ren Yin NYSEG 60648952

Monitoring Well Number: PRMW-6S Date: 052521

Samplers: MT

Sample Number: — QA/QC Collected? -

Purging / Sampling Method: peripump

1. L = Well Depth:	23.10	feet
2. D = Riser Diameter (I.D.):	0.17	feet
3. W = Depth to Water:	6.28	feet
4. C = Column of Water in Well:	16.92	feet
5. V = Volume of Water in Well = C(3.14159)(0.5D)^2(7.48)	2.87	gal
6. 3(V) = Target Purge Volume	8.6	gal

D (inches)	D (feet)
1-inch	0.08
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using NTU + YSI

Parameter	Units	Readings							
Time	24 hr	1000	1005	1010	1015	1020	1025	1030	1035
Water Level (0.33)	feet	16.01	16.17	16.35	16.52	16.67	16.96	17.11	17.31
Volume Purged	gal	3.0	3.2	3.4	3.6	3.8	4.0	4.2	
Flow Rate	mL/min	150	150	150	150	150	150	150	
Turbidity (+/- 10%)	NTU	136	87.5	61.4	48.7	66.7	47.0	44.8	41.9
Dissolved Oxygen (+/- 10%)	%	5.7	4.8	4.3	4.0	4.6	3.9	3.9	3.8
Dissolved Oxygen (+/- 10%)	mg/L	0.57	0.48	0.43	0.40	0.39	0.38	0.38	0.38
Eh / ORP (+/- 10)	MeV	154.6	149.8	144.8	141.1	137.9	131.8	129.5	127.2
Specific Conductivity (+/- 3%)	mS/cm^c	527.7	532.1	537.7	537.7	539.8	535.8	530.5	525.6
Conductivity (+/- 3%)	mS/cm	0.420	0.425	0.431	0.434	0.437	0.437	0.429	0.430
pH (+/- 0.1)	pH unit	7.44	7.46	7.46	7.45	7.46	7.47	7.47	7.48
Temp (+/- 0.5)	C°	14.4	14.4	14.5	14.9	15.1	15.4	15.0	15.2
Color	Visual	clr	clr	clr	clr	clr	clr	clr	clr
Odor	Olfactory	no	no	no	no	no	no	no	no

Comments:

Monitoring Well Purging / Sampling Form

Project Name and Number: Penn Yan - NYSEG - 60648952

Monitoring Well Number: PRMW-6D Date: 05/25/21

Samplers: PM

Sample Number: PRMW-6D 052521 QA/QC Collected? - MS/MSD

Purging / Sampling Method: peri pump w/ Dedicated tubing.

1. L = Well Depth:	37.05	feet
2. D = Riser Diameter (I.D.):	0.17	feet
3. W = Depth to Water:	4.35	feet
4. C = Column of Water in Well:	32.7	feet
5. V = Volume of Water in Well = C(3.14159)(0.5D)^2(7.48)	≈ 5.33	gal
6. 3(V) = Target Purge Volume	≈ 15.99	gal

D (inches)	D (feet)
1-inch	0.08
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using NTU + YSI

Parameter	Units	Readings						
Time	24 hr	0755	0800	0805	0810	0815	0820	0825
Water Level (0.33)	feet	4.35	5.92	5.93	5.97	6.05	6.08	6.21
Volume Purged	gal	0	0.5	0.75	1.15	1.50	2.0	2.5
Flow Rate	mL/min	200	200	100	100	100	100	100
Turbidity (+/- 10%)	NTU	35.8	27.0	24.2	20.7	13.3	10.4	11.6
Dissolved Oxygen (+/- 10%)	%	7.0	4.2	3.1	2.5	2.3	2.3	2.6
Dissolved Oxygen (+/- 10%)	mg/L	0.72	0.43	0.31	0.26	0.24	0.24	0.27
Eh / ORP (+/- 10)	MeV	-14.7	-103.3	-117.8	-129.9	-137.9	-141.2	-144.7
Specific Conductivity (+/- 3%)	mS/cm^c	0.4357	0.4382	0.4418	0.439	0.438	0.437	0.4349
Conductivity (+/- 3%)	mS/cm	0.339	0.341	0.346	0.343	0.342	0.341	0.340
pH (+/- 0.1)	pH unit	6.34	6.82	6.99	7.15	7.30	7.36	7.41
Temp (+/- 0.5)	C°	13.4	13.5	13.7	13.5	13.5	13.4	13.6
Color	Visual	S. Cloudy	S. Cloudy	S. Cloudy	S. Cloudy	S. Cloudy	S. Cloudy	S. Cloudy
Odor	Olfactory	/	/	/	/	/	/	/

Comments: Pump on @ 0755

- No sheen or odor detected.

Monitoring Well Purging / Sampling Form

Project Name and Number: Penn-Yan - NYSEG - 60648952

Monitoring Well Number: PRMW-6D Date: 5/25/21

Samplers: Pat McHugh

Sample Number: PRMW-6D 052521 QA/QC Collected? - MS/MSD

Purging / Sampling Method: Peri pump w/ dedicated tubg.

1. L = Well Depth:	37.05	feet
2. D = Riser Diameter (I.D.):	0.17	feet
3. W = Depth to Water:	4.35	feet
4. C = Column of Water in Well:	32.7	feet
5. V = Volume of Water in Well = C(3.14159)(0.5D)^2(7.48)	5.33	gal
6. 3(V) = Target Purge Volume	15.99	gal

D (inches)	D (feet)
1-inch	0.08
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using NTU + YSI

Parameter	Units	✓	✓	✓	Readings			
Time	24 hr	0830	0835	0840				
Water Level (0.33)	feet	6.25	6.25	6.28				
Volume Purged	gal	3.0	3.5	4.0				
Flow Rate	mL/min	100	100	100				
Turbidity (+/- 10%)	NTU	9.67	8.92	8.56				
Dissolved Oxygen (+/- 10%)	%	3.3	3.1	2.4				
Dissolved Oxygen (+/- 10%)	mg/L	0.35	0.32	0.30				
Eh / ORP (+/- 10)	MeV	-147.5	-149.4	-151.9				
Specific Conductivity (+/- 3%)	mS/cm^c	0.434	0.434	0.432				
Conductivity (+/- 3%)	mS/cm	0.341	0.335	0.339				
pH (+/- 0.1)	pH unit	7.46	7.49	7.53				
Temp (+/- 0.5)	C°	13.7	13.6	13.6				
Color	Visual	Clear	Clear	Clear				
Odor	Olfactory	✓	✓	✓				

Comments: - No Sheen or odor detected.

- Sampled @ 0840.

*MS/MSD Here.

Appendix B - Analytical Laboratory Report

Appendix C - Data Usability Summary Report

AECOM

Prepared for:
NYSEG
Binghamton, NY

Prepared by:
AECOM
Pittsburgh, PA
60648952.4
July 2021

July 9, 2021

Data Usability Summary Report

NYSEG/Penn Yan Former MGP Site
Groundwater Sampling Event
Eurofins Environment Testing America
Laboratory Data
May 2021
Final

Prepared for:
NYSEG
Binghamton, NY

Prepared by:
AECOM
Pittsburgh, PA
60648952.4
July 2021

Data Usability Summary Report

NYSEG/Penn Yan Former MGP Site
Groundwater Sampling Event
Eurofins Environment Testing America
Laboratory Data
May 2021
Final

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Contents

List of Appendices

Executive Summary

Overview

Data validation was performed by Gregory A. Malzone of AECOM-Pittsburgh on one data package from Eurofins Environment Testing America, 10 Hazelwood Drive, Amherst, NY 14228-2298 (EETA-Buffalo) for the analysis of groundwater samples collected on May 24-26, 2021 at the NYSEG/Penn Yan, Water Street former manufactured gas plant (MGP) site.

The following analytical methods were requested on the chain-of-custody (CoC) records.

- Benzene, Toluene, Ethylbenzene and Total Xylenes (BTEX) by USEPA SW-846 Method 8260C
- Polynuclear Aromatic Hydrocarbons (PAHs) by USEPA SW-846 Method 8270D
- Total Cyanide by USEPA SW-846 Method 9012B

The data were evaluated for conformance to method specifications and qualifiers were applied using the USEPA Region 2 SOPs and the validation criteria set forth in the following USEPA guidance documents as they apply to the analytical procedures employed.

- *USEPA National Functional Guidelines for Organic Superfund Methods Data Review*, EPA-540-R-20-005, November 2020
- *USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review*, EPA-542-R-20-006, November 2020

Field duplicate relative percent difference (RPD) review and applicable control limits were taken from the *USEPA Region I Laboratory Data Validation Functional Guidelines for Evaluating Organics Analyses*, December 1996 and *USEPA Region I Laboratory Data Validation Functional Guidelines for Evaluating Inorganics Analyses*, June 1988.

The samples were processed, and the results were reported under one sample delivery group (SDG) 480-185257-1. Table 1 provides a sample submittal list with the field IDs cross-referenced with the EETA-Buffalo IDs.

Table 1 - Sample Submittals – NYSEG/Penn Yan Former MGP Groundwater

Field ID	Laboratory ID	QC	Matrix	Date Sampled
TRIP BLANK	480-185257-1	trip blank	Aqueous (QC)	05/26/2021 11:00
EQP BLANK 052621	480-185257-2	rinsate blank	Aqueous (QC)	05/26/2021 10:05
PRMU-4S 052521	480-185257-3		Groundwater	05/25/2021 12:15
TMW-1D 052621	480-185257-5		Groundwater	05/26/2021 09:00
PRMW-5S 052521	480-185257-6		Groundwater	05/25/2021 11:25
PRMW-3S 052421	480-185257-7		Groundwater	05/24/2021 16:10
PRMW-5D 052521	480-185257-8		Groundwater	05/24/2021 10:25
PRMW-1S 052621	480-185257-9		Groundwater	05/26/2021 08:45
PRMW-3D 052421	480-185257-10		Groundwater	05/24/2021 16:15
PRMW-2D 052521	480-185257-11		Groundwater	05/25/2021 14:45
PRMW-2S 052521	480-185257-12		Groundwater	05/25/2021 13:05
PRMW-6D 052521	480-185257-13	MS/MSD	Groundwater	05/25/2021 08:40
PRMW-6S 052521	480-185257-14		Groundwater	05/25/2021 10:45
PRMW-54S 052521	480-185257-15	PRMU-4S 052521	Groundwater (QC)	05/25/2021 12:15

Summary

Data quality for the organic analyses was evaluated by reviewing the following parameters: holding times, GC/MS tuning and performance standards, internal standards, initial and continuing calibrations, matrix spike/matrix spike duplicates (MS/MSD), surrogate recoveries, laboratory control standards (LCSs), laboratory blanks, laboratory and field duplicates, compound identification, and compound quantitation.

Inorganic data quality was evaluated by reviewing the following parameters: holding times, matrix spikes, initial calibrations, continuing calibration verification standard recoveries, contract required detection limit standard recoveries, laboratory control samples, field and laboratory duplicates, laboratory blanks, and analyte quantitation.

All data have been determined to be useable for the purpose of assessing the presence/absence and quantitative concentrations of the compounds and analytes in the media tested (i.e., groundwater) with the qualifications outlined below. No data points were rejected. Completeness of 100% was achieved for this data set. This is within the goal of 90-100% and is acceptable.

A glossary of data qualifier definitions is included in Appendix A of this report. The data qualifier summaries are attached as Appendix B of this report.

Each noncompliance with specific data usability criteria that required data qualification is discussed below. Support documentation for data qualifications was included in Appendix C of this report.

1.0 Benzene, Toluene, Ethylbenzene and Total Xylenes

Calibrations: The percent differences for toluene, ethylbenzene, and m+p-xylene were less than the lower method specification limit of -20% on 05/29/21 at 00:34 on instrument HP5973N. All samples within SDG 480-185257-1 were affected. The positive and non-detect toluene, ethylbenzene, and total xylenes results were qualified "J/UJ," as estimates, because of low instrument bias.

Matrix Spike Recoveries and RPDs: Sample PRMW-6D 052521 was designated in the field to be processed as the quality control sample, that is, as the MS/MSD. The RPD between the PRMW-6D 052521 MS and MSD recoveries for benzene was greater than the maximum advisory limit. The PRMW-6D 052521 MS and MSD recoveries for benzene were within the advisory limits and the benzene result for PRMW-6D 052521 was non-detect. No data qualification was required.

The PRMW-6D 052521 MS recoveries for toluene, ethylbenzene, and total xylenes were less than the lower advisory limits, but greater than 20%. The PRMW-6D 052521 MSD recoveries and RPDs were within the advisory limits. No data qualification was required.

2.0 Polynuclear Aromatic Hydrocarbons

No data quality issues were noted. No data qualification was required.

3.0 Total Cyanide

Blank Contamination: Total cyanide was detected in the equipment blank at an estimated concentration of 0.0081 J mg/L. The equipment blank was collected on the last day of sampling and was collected using a piece of fresh silicon tubing. Separate pieces of silicon tubing from the same package were attached to the dedicated tubing for each well. All groundwater samples within SDG 480-185257-1 were affected.

The total cyanide results for samples PRMU-4S 052521, PRMW-3D 052421, PRMW-2D 052521, PRMW-6D 052521, and PRMW-54S 052521 were estimated to be less than the RL and were qualified "U," as undetected at the RL, because of ambient contamination. The total cyanide results for samples TMW-1D 052621, PRMW-5S 052521, PRMW-3S 052421, PRMW-5D 052521, PRMW-1S 052621, PRMW-2S 052521, and PRMW-6S 052521 were non-detect or greater than the RL and did not require qualification in response to the equipment blank contamination.

Matrix Spike Recoveries and RPDs: The TMW-1D 052621 MS total cyanide recovery was 37%. No post-digestion spike was analyzed. The TMW-1D 052621 total cyanide result was non-detect and was qualified "UJ," as an estimate, because of low bias due to matrix effects and/or sample heterogeneity.

The PRMW-2S 052521 MS total cyanide recovery was less than 30%, at 10%. No post-digestion spike was analyzed. The positive total cyanide result for PRMW-2S 052521 was qualified "J-," as an estimated concentration, because of low bias due to matrix effects and/or sample heterogeneity.

The PRMW-6D 052521 MS/MSD total cyanide recoveries were less than 30%, at 13%/7%. The positive total cyanide result for sample PRMW-6D 052521 was negated due to equipment blank contamination. No further data qualification was required.

4.0 Field Duplicate Precision

A field duplicate sample was collected at PRMU-4S 052521. The calculated RPDs and absolute differences are listed in Table 2 below. Field duplicate results were evaluated using the following criteria.

Organics: The RPD must be ≤ 30% for results greater than or equal to two times the reporting detection limit. If one of the results is non-detect or less than two times the reporting limit, and the duplicate is greater than two times the reporting detection limit, the difference between the parent and field duplicate results must be less than or equal to two times the reporting limit.

Inorganics: The RPD must be ≤ 30%, for results greater than or equal to five times the reporting limit. For results less than five times the reporting limit, the difference between the parent and field duplicate results must be less than or equal to two times the reporting limit.

Action applies only to the affected analyte in the duplicate sample pair.

Field sampling/laboratory precision and sample homogeneity were acceptable; no data qualification was required.

Table 2 - Field Duplicate Precision - NYSEG/Penn Yan Former MGP Groundwater

Parameter	Units	PRMU-4S	PRMU-54S	Abs. Diff.	RPD (%)	QUALs
All parent and field duplicate results were non-detect.						None

RPD: Relative percent difference
Abs. Diff.: Absolute difference
QUALs: Qualifications

5.0 Notes

Matrix spike and matrix spike duplicates and laboratory duplicates that were performed on non-project samples were not evaluated because matrix similarity to project samples could not be assumed.

Positive results less than the RL, but greater than the MDL were qualified “J,” as estimated concentrations, due to increased uncertainty near the detection limit. These “J” qualifiers were maintained in the data validation unless negated in response to blank contamination. Sample results reported between the MDL and RL are usable as estimated values with an unknown directional bias.

No dilutions were necessary for the requested analyses.

Appendix A

Glossary of Data Qualifier Codes

Glossary of Data Qualifier Codes

U	The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
J	The analyte was positively identified. The associated numerical value is the approximate concentration of the analyte in the sample.
UJ	The analyte was analyzed for but was not detected. The reported quantitation limit is approximated and may be inaccurate or imprecise.
J+	The result is an estimated quantity but may be biased high.
J-	The result is an estimated quantity but may be biased low.
R	The data are unusable. The sample results are rejected due to serious deficiencies in the ability to meet quality control criteria. The presence or absence of the analyte cannot be verified.
N	(Organics) The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification.
NJ	(Organics) The analysis indicates the presence of an analyte that has been tentatively identified and the associated numerical value represents its approximate concentration.

Appendix B

Data Qualification Summaries

Sample Summary

Client: New York State Electric & Gas
Job ID: 480-185257-1
Project/Site: NYSEG - Penn Yan Water St. MGP

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-185257-1	TRIP BLANK	Water	05/26/21 11:00	05/27/21 08:00	
480-185257-2	EQP BLANK 052621	Water	05/26/21 10:05	05/27/21 08:00	
480-185257-3	PRMU-4S 052521	Water	05/25/21 12:15	05/27/21 08:00	
480-185257-5	TMW-1D 052621	Water	05/26/21 09:00	05/27/21 08:00	
480-185257-6	PRMW-5S 052521	Water	05/25/21 11:25	05/27/21 08:00	
480-185257-7	PRMW-3S 052421	Water	05/24/21 16:10	05/27/21 08:00	
480-185257-8	PRMW-5D 052521	Water	05/24/21 10:25	05/27/21 08:00	
480-185257-9	PRMW-1S 052621	Water	05/26/21 08:45	05/27/21 08:00	
480-185257-10	PRMW-3D 052421	Water	05/24/21 16:15	05/27/21 08:00	
480-185257-11	PRMW-2D 052521	Water	05/25/21 14:45	05/27/21 08:00	
480-185257-12	PRMW-2S 052521	Water	05/25/21 13:05	05/27/21 08:00	
480-185257-13	PRMW-6D 052521	Water	05/25/21 08:40	05/27/21 08:00	
480-185257-14	PRMW-6S 052521	Water	05/25/21 10:45	05/27/21 08:00	
480-185257-15	PRMW-54S 052521	Water	05/25/21 12:15	05/27/21 08:00	

Client Sample ID: TRIP BLANK
Lab Sample ID: 480-185257-1
Date Collected: 05/26/21 11:00
Matrix: Water
Date Received: 05/27/21 08:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			05/29/21 02:28	1
Ethylbenzene	ND	UJ	1.0	0.74	ug/L			05/29/21 02:28	1
Toluene	ND	UJ	1.0	0.51	ug/L			05/29/21 02:28	1
Xylenes, Total	ND	UJ	2.0	0.66	ug/L			05/29/21 02:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*		*05/29/21 02:28*	*1*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*		*05/29/21 02:28*	*1*
Dibromofluoromethane (Surr)	*97*		*75 - 123*		*05/29/21 02:28*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*05/29/21 02:28*	*1*

Client Sample ID: EQP BLANK 052621
Lab Sample ID: 480-185257-2
Date Collected: 05/26/21 10:05
Matrix: Water
Date Received: 05/27/21 08:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			05/29/21 02:51	1
Ethylbenzene	ND	UJ	1.0	0.74	ug/L			05/29/21 02:51	1
Toluene	ND	UJ	1.0	0.51	ug/L			05/29/21 02:51	1
Xylenes, Total	ND	UJ	2.0	0.66	ug/L			05/29/21 02:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*77 - 120*		*05/29/21 02:51*	*1*
4-Bromofluorobenzene (Surr)	*104*		*73 - 120*		*05/29/21 02:51*	*1*
Dibromofluoromethane (Surr)	*96*		*75 - 123*		*05/29/21 02:51*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*05/29/21 02:51*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.2	0.43	ug/L		05/28/21 09:15	06/01/21 18:41	1
Acenaphthylene	ND		5.2	0.40	ug/L		05/28/21 09:15	06/01/21 18:41	1
Anthracene	ND		5.2	0.29	ug/L		05/28/21 09:15	06/01/21 18:41	1
Benzo[a]anthracene	ND		5.2	0.38	ug/L		05/28/21 09:15	06/01/21 18:41	1
Benzo[a]pyrene	ND		5.2	0.49	ug/L		05/28/21 09:15	06/01/21 18:41	1
Benzo[b]fluoranthene	ND		5.2	0.35	ug/L		05/28/21 09:15	06/01/21 18:41	1
Benzo[g,h,i]perylene	ND		5.2	0.36	ug/L		05/28/21 09:15	06/01/21 18:41	1
Benzo[k]fluoranthene	ND		5.2	0.76	ug/L		05/28/21 09:15	06/01/21 18:41	1
Chrysene	ND		5.2	0.34	ug/L		05/28/21 09:15	06/01/21 18:41	1
Dibenz(a,h)anthracene	ND		5.2	0.44	ug/L		05/28/21 09:15	06/01/21 18:41	1
Fluoranthene	ND		5.2	0.42	ug/L		05/28/21 09:15	06/01/21 18:41	1
Fluorene	ND		5.2	0.38	ug/L		05/28/21 09:15	06/01/21 18:41	1
Indeno[1,2,3-cd]pyrene	ND		5.2	0.49	ug/L		05/28/21 09:15	06/01/21 18:41	1
Naphthalene	ND		5.2	0.79	ug/L		05/28/21 09:15	06/01/21 18:41	1
Phenanthrene	ND		5.2	0.46	ug/L		05/28/21 09:15	06/01/21 18:41	1
Pyrene	ND		5.2	0.35	ug/L		05/28/21 09:15	06/01/21 18:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*114*		*48 - 120*	*05/28/21 09:15*	*06/01/21 18:41*	*1*
Nitrobenzene-d5 (Surr)	*104*		*46 - 120*	*05/28/21 09:15*	*06/01/21 18:41*	*1*
p-Terphenyl-d14 (Surr)	*116*		*60 - 148*	*05/28/21 09:15*	*06/01/21 18:41*	*1*

Client Sample ID: EQP BLANK 052621
Lab Sample ID: 480-185257-2
Date Collected: 05/26/21 10:05
Matrix: Water
Date Received: 05/27/21 08:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.0081	J	0.010	0.0050	mg/L		06/04/21 12:46	06/04/21 17:19	1

Client Sample ID: PRMU-4S 052521
Lab Sample ID: 480-185257-3
Date Collected: 05/25/21 12:15
Matrix: Water
Date Received: 05/27/21 08:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			05/29/21 03:15	1
Ethylbenzene	ND	UJ	1.0	0.74	ug/L			05/29/21 03:15	1
Toluene	ND	UJ	1.0	0.51	ug/L			05/29/21 03:15	1
Xylenes, Total	ND	UJ	2.0	0.66	ug/L			05/29/21 03:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*77 - 120*		*05/29/21 03:15*	*1*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*		*05/29/21 03:15*	*1*
Dibromofluoromethane (Surr)	*96*		*75 - 123*		*05/29/21 03:15*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*		*05/29/21 03:15*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.2	0.43	ug/L		05/28/21 09:15	06/01/21 19:08	1
Acenaphthylene	ND		5.2	0.40	ug/L		05/28/21 09:15	06/01/21 19:08	1
Anthracene	ND		5.2	0.29	ug/L		05/28/21 09:15	06/01/21 19:08	1
Benzo[a]anthracene	ND		5.2	0.38	ug/L		05/28/21 09:15	06/01/21 19:08	1
Benzo[a]pyrene	ND		5.2	0.49	ug/L		05/28/21 09:15	06/01/21 19:08	1
Benzo[b]fluoranthene	ND		5.2	0.35	ug/L		05/28/21 09:15	06/01/21 19:08	1
Benzo[g,h,i]perylene	ND		5.2	0.36	ug/L		05/28/21 09:15	06/01/21 19:08	1
Benzo[k]fluoranthene	ND		5.2	0.76	ug/L		05/28/21 09:15	06/01/21 19:08	1
Chrysene	ND		5.2	0.34	ug/L		05/28/21 09:15	06/01/21 19:08	1
Dibenz(a,h)anthracene	ND		5.2	0.44	ug/L		05/28/21 09:15	06/01/21 19:08	1
Fluoranthene	ND		5.2	0.42	ug/L		05/28/21 09:15	06/01/21 19:08	1
Fluorene	ND		5.2	0.38	ug/L		05/28/21 09:15	06/01/21 19:08	1
Indeno[1,2,3-cd]pyrene	ND		5.2	0.49	ug/L		05/28/21 09:15	06/01/21 19:08	1
Naphthalene	ND		5.2	0.79	ug/L		05/28/21 09:15	06/01/21 19:08	1
Phenanthrene	ND		5.2	0.46	ug/L		05/28/21 09:15	06/01/21 19:08	1
Pyrene	ND		5.2	0.35	ug/L		05/28/21 09:15	06/01/21 19:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*102*		*48 - 120*	*05/28/21 09:15*	*06/01/21 19:08*	*1*
Nitrobenzene-d5 (Surr)	*93*		*46 - 120*	*05/28/21 09:15*	*06/01/21 19:08*	*1*
p-Terphenyl-d14 (Surr)	*89*		*60 - 148*	*05/28/21 09:15*	*06/01/21 19:08*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	~~0.0083~~	~~J~~ 0.010 U	0.010	0.0050	mg/L		06/04/21 12:46	06/04/21 17:24	1

Client Sample ID: TMW-1D 052621
Lab Sample ID: 480-185257-5

Date Collected: 05/26/21 09:00
Matrix: Water
Date Received: 05/27/21 08:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			05/29/21 04:01	1
Ethylbenzene	ND	UJ	1.0	0.74	ug/L			05/29/21 04:01	1
Toluene	ND	UJ	1.0	0.51	ug/L			05/29/21 04:01	1
Xylenes, Total	ND	UJ	2.0	0.66	ug/L			05/29/21 04:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*77 - 120*		*05/29/21 04:01*	*1*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*		*05/29/21 04:01*	*1*
Dibromofluoromethane (Surr)	*99*		*75 - 123*		*05/29/21 04:01*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*05/29/21 04:01*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.2	0.43	ug/L		05/28/21 09:15	06/01/21 20:03	1
Acenaphthylene	ND		5.2	0.40	ug/L		05/28/21 09:15	06/01/21 20:03	1
Anthracene	ND		5.2	0.29	ug/L		05/28/21 09:15	06/01/21 20:03	1
Benzo[a]anthracene	ND		5.2	0.38	ug/L		05/28/21 09:15	06/01/21 20:03	1
Benzo[a]pyrene	ND		5.2	0.49	ug/L		05/28/21 09:15	06/01/21 20:03	1
Benzo[b]fluoranthene	ND		5.2	0.35	ug/L		05/28/21 09:15	06/01/21 20:03	1
Benzo[g,h,i]perylene	ND		5.2	0.36	ug/L		05/28/21 09:15	06/01/21 20:03	1
Benzo[k]fluoranthene	ND		5.2	0.76	ug/L		05/28/21 09:15	06/01/21 20:03	1
Chrysene	ND		5.2	0.34	ug/L		05/28/21 09:15	06/01/21 20:03	1
Dibenz(a,h)anthracene	ND		5.2	0.44	ug/L		05/28/21 09:15	06/01/21 20:03	1
Fluoranthene	ND		5.2	0.42	ug/L		05/28/21 09:15	06/01/21 20:03	1
Fluorene	ND		5.2	0.38	ug/L		05/28/21 09:15	06/01/21 20:03	1
Indeno[1,2,3-cd]pyrene	ND		5.2	0.49	ug/L		05/28/21 09:15	06/01/21 20:03	1
Naphthalene	ND		5.2	0.79	ug/L		05/28/21 09:15	06/01/21 20:03	1
Phenanthrene	ND		5.2	0.46	ug/L		05/28/21 09:15	06/01/21 20:03	1
Pyrene	ND		5.2	0.35	ug/L		05/28/21 09:15	06/01/21 20:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*110*		*48 - 120*	*05/28/21 09:15*	*06/01/21 20:03*	*1*
Nitrobenzene-d5 (Surr)	*101*		*46 - 120*	*05/28/21 09:15*	*06/01/21 20:03*	*1*
p-Terphenyl-d14 (Surr)	*92*		*60 - 148*	*05/28/21 09:15*	*06/01/21 20:03*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND	~~F1~~ UJ	0.010	0.0050	mg/L		06/07/21 12:50	06/07/21 16:32	1

Client Sample ID: PRMW-5S 052521
Lab Sample ID: 480-185257-6

Date Collected: 05/25/21 11:25
Matrix: Water
Date Received: 05/27/21 08:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**23**		1.0	0.41	ug/L			05/29/21 04:24	1
Ethylbenzene	**2.4**	J	1.0	0.74	ug/L			05/29/21 04:24	1
Toluene	**0.75**	J	1.0	0.51	ug/L			05/29/21 04:24	1
Xylenes, Total	**4.9**	J	2.0	0.66	ug/L			05/29/21 04:24	1

Client Sample ID: PRMW-5S 052521

Lab Sample ID: 480-185257-6

Date Collected: 05/25/21 11:25

Matrix: Water

Date Received: 05/27/21 08:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		77 - 120		05/29/21 04:24	1
4-Bromofluorobenzene (Surr)	105		73 - 120		05/29/21 04:24	1
Dibromofluoromethane (Surr)	97		75 - 123		05/29/21 04:24	1
Toluene-d8 (Surr)	97		80 - 120		05/29/21 04:24	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**22**		5.2	0.43	ug/L		05/28/21 09:15	06/01/21 20:30	1
Acenaphthylene	**4.4**	**J**	5.2	0.40	ug/L		05/28/21 09:15	06/01/21 20:30	1
Anthracene	**1.5**	**J**	5.2	0.29	ug/L		05/28/21 09:15	06/01/21 20:30	1
Benzo[a]anthracene	ND		5.2	0.38	ug/L		05/28/21 09:15	06/01/21 20:30	1
Benzo[a]pyrene	ND		5.2	0.49	ug/L		05/28/21 09:15	06/01/21 20:30	1
Benzo[b]fluoranthene	ND		5.2	0.35	ug/L		05/28/21 09:15	06/01/21 20:30	1
Benzo[g,h,i]perylene	ND		5.2	0.36	ug/L		05/28/21 09:15	06/01/21 20:30	1
Benzo[k]fluoranthene	ND		5.2	0.76	ug/L		05/28/21 09:15	06/01/21 20:30	1
Chrysene	ND		5.2	0.34	ug/L		05/28/21 09:15	06/01/21 20:30	1
Dibenz(a,h)anthracene	ND		5.2	0.44	ug/L		05/28/21 09:15	06/01/21 20:30	1
Fluoranthene	**3.0**	**J**	5.2	0.42	ug/L		05/28/21 09:15	06/01/21 20:30	1
Fluorene	**7.0**		5.2	0.38	ug/L		05/28/21 09:15	06/01/21 20:30	1
Indeno[1,2,3-cd]pyrene	ND		5.2	0.49	ug/L		05/28/21 09:15	06/01/21 20:30	1
Naphthalene	**44**		5.2	0.79	ug/L		05/28/21 09:15	06/01/21 20:30	1
Phenanthrene	**8.2**		5.2	0.46	ug/L		05/28/21 09:15	06/01/21 20:30	1
Pyrene	**2.0**	**J**	5.2	0.35	ug/L		05/28/21 09:15	06/01/21 20:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	98		48 - 120	05/28/21 09:15	06/01/21 20:30	1
Nitrobenzene-d5 (Surr)	86		46 - 120	05/28/21 09:15	06/01/21 20:30	1
p-Terphenyl-d14 (Surr)	88		60 - 148	05/28/21 09:15	06/01/21 20:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**0.016**		0.010	0.0050	mg/L		06/04/21 12:46	06/04/21 17:25	1

Client Sample ID: PRMW-3S 052421

Lab Sample ID: 480-185257-7

Date Collected: 05/24/21 16:10

Matrix: Water

Date Received: 05/27/21 08:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			05/29/21 04:47	1
Ethylbenzene	ND	UJ	1.0	0.74	ug/L			05/29/21 04:47	1
Toluene	ND	UJ	1.0	0.51	ug/L			05/29/21 04:47	1
Xylenes, Total	ND	UJ	2.0	0.66	ug/L			05/29/21 04:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		77 - 120		05/29/21 04:47	1
4-Bromofluorobenzene (Surr)	107		73 - 120		05/29/21 04:47	1
Dibromofluoromethane (Surr)	95		75 - 123		05/29/21 04:47	1
Toluene-d8 (Surr)	99		80 - 120		05/29/21 04:47	1

Client Sample ID: PRMW-3S 052421

Lab Sample ID: 480-185257-7

Date Collected: 05/24/21 16:10

Matrix: Water

Date Received: 05/27/21 08:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.2	0.43	ug/L		05/28/21 09:15	06/01/21 20:57	1
Acenaphthylene	ND		5.2	0.40	ug/L		05/28/21 09:15	06/01/21 20:57	1
Anthracene	ND		5.2	0.29	ug/L		05/28/21 09:15	06/01/21 20:57	1
Benzo[a]anthracene	ND		5.2	0.38	ug/L		05/28/21 09:15	06/01/21 20:57	1
Benzo[a]pyrene	ND		5.2	0.49	ug/L		05/28/21 09:15	06/01/21 20:57	1
Benzo[b]fluoranthene	ND		5.2	0.35	ug/L		05/28/21 09:15	06/01/21 20:57	1
Benzo[g,h,i]perylene	ND		5.2	0.36	ug/L		05/28/21 09:15	06/01/21 20:57	1
Benzo[k]fluoranthene	ND		5.2	0.76	ug/L		05/28/21 09:15	06/01/21 20:57	1
Chrysene	ND		5.2	0.34	ug/L		05/28/21 09:15	06/01/21 20:57	1
Dibenz(a,h)anthracene	ND		5.2	0.44	ug/L		05/28/21 09:15	06/01/21 20:57	1
Fluoranthene	ND		5.2	0.42	ug/L		05/28/21 09:15	06/01/21 20:57	1
Fluorene	ND		5.2	0.38	ug/L		05/28/21 09:15	06/01/21 20:57	1
Indeno[1,2,3-cd]pyrene	ND		5.2	0.49	ug/L		05/28/21 09:15	06/01/21 20:57	1
Naphthalene	ND		5.2	0.79	ug/L		05/28/21 09:15	06/01/21 20:57	1
Phenanthrene	ND		5.2	0.46	ug/L		05/28/21 09:15	06/01/21 20:57	1
Pyrene	ND		5.2	0.35	ug/L		05/28/21 09:15	06/01/21 20:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*105*		*48 - 120*	*05/28/21 09:15*	*06/01/21 20:57*	*1*
Nitrobenzene-d5 (Surr)	*94*		*46 - 120*	*05/28/21 09:15*	*06/01/21 20:57*	*1*
p-Terphenyl-d14 (Surr)	*85*		*60 - 148*	*05/28/21 09:15*	*06/01/21 20:57*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**0.011**		0.010	0.0050	mg/L		06/02/21 12:17	06/03/21 15:36	1

Client Sample ID: PRMW-5D 052521

Lab Sample ID: 480-185257-8

Date Collected: 05/24/21 10:25

Matrix: Water

Date Received: 05/27/21 08:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			05/29/21 05:10	1
Ethylbenzene	ND	UJ	1.0	0.74	ug/L			05/29/21 05:10	1
Toluene	ND	UJ	1.0	0.51	ug/L			05/29/21 05:10	1
Xylenes, Total	ND	UJ	2.0	0.66	ug/L			05/29/21 05:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*77 - 120*		*05/29/21 05:10*	*1*
4-Bromofluorobenzene (Surr)	*106*		*73 - 120*		*05/29/21 05:10*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 123*		*05/29/21 05:10*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*05/29/21 05:10*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.2	0.43	ug/L		05/28/21 09:15	06/01/21 21:25	1
Acenaphthylene	ND		5.2	0.40	ug/L		05/28/21 09:15	06/01/21 21:25	1
Anthracene	ND		5.2	0.29	ug/L		05/28/21 09:15	06/01/21 21:25	1
Benzo[a]anthracene	ND		5.2	0.38	ug/L		05/28/21 09:15	06/01/21 21:25	1
Benzo[a]pyrene	ND		5.2	0.49	ug/L		05/28/21 09:15	06/01/21 21:25	1
Benzo[b]fluoranthene	ND		5.2	0.35	ug/L		05/28/21 09:15	06/01/21 21:25	1

Client: New York State Electric & Gas
Project/Site: NYSEG - Penn Yan Water St. MGP

Job ID: 480-185257-1

Client Sample ID: PRMW-5D 052521

Lab Sample ID: 480-185257-8
Date Collected: 05/24/21 10:25
Matrix: Water
Date Received: 05/27/21 08:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	ND		5.2	0.36	ug/L		05/28/21 09:15	06/01/21 21:25	1
Benzo[k]fluoranthene	ND		5.2	0.76	ug/L		05/28/21 09:15	06/01/21 21:25	1
Chrysene	ND		5.2	0.34	ug/L		05/28/21 09:15	06/01/21 21:25	1
Dibenz(a,h)anthracene	ND		5.2	0.44	ug/L		05/28/21 09:15	06/01/21 21:25	1
Fluoranthene	ND		5.2	0.42	ug/L		05/28/21 09:15	06/01/21 21:25	1
Fluorene	ND		5.2	0.38	ug/L		05/28/21 09:15	06/01/21 21:25	1
Indeno[1,2,3-cd]pyrene	ND		5.2	0.49	ug/L		05/28/21 09:15	06/01/21 21:25	1
Naphthalene	ND		5.2	0.79	ug/L		05/28/21 09:15	06/01/21 21:25	1
Phenanthrene	ND		5.2	0.46	ug/L		05/28/21 09:15	06/01/21 21:25	1
Pyrene	ND		5.2	0.35	ug/L		05/28/21 09:15	06/01/21 21:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*100*		*48 - 120*	*05/28/21 09:15*	*06/01/21 21:25*	*1*
Nitrobenzene-d5 (Surr)	*88*		*46 - 120*	*05/28/21 09:15*	*06/01/21 21:25*	*1*
p-Terphenyl-d14 (Surr)	*96*		*60 - 148*	*05/28/21 09:15*	*06/01/21 21:25*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		06/02/21 12:17	06/03/21 15:37	1

Client Sample ID: PRMW-1S 052621

Lab Sample ID: 480-185257-9
Date Collected: 05/26/21 08:45
Matrix: Water
Date Received: 05/27/21 08:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			05/29/21 05:33	1
Ethylbenzene	ND	UJ	1.0	0.74	ug/L			05/29/21 05:33	1
Toluene	ND	UJ	1.0	0.51	ug/L			05/29/21 05:33	1
Xylenes, Total	ND	UJ	2.0	0.66	ug/L			05/29/21 05:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*		*05/29/21 05:33*	*1*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*		*05/29/21 05:33*	*1*
Dibromofluoromethane (Surr)	*96*		*75 - 123*		*05/29/21 05:33*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*05/29/21 05:33*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.2	0.43	ug/L		05/28/21 09:15	06/01/21 21:52	1
Acenaphthylene	ND		5.2	0.40	ug/L		05/28/21 09:15	06/01/21 21:52	1
Anthracene	ND		5.2	0.29	ug/L		05/28/21 09:15	06/01/21 21:52	1
Benzo[a]anthracene	ND		5.2	0.38	ug/L		05/28/21 09:15	06/01/21 21:52	1
Benzo[a]pyrene	ND		5.2	0.49	ug/L		05/28/21 09:15	06/01/21 21:52	1
Benzo[b]fluoranthene	ND		5.2	0.35	ug/L		05/28/21 09:15	06/01/21 21:52	1
Benzo[g,h,i]perylene	ND		5.2	0.36	ug/L		05/28/21 09:15	06/01/21 21:52	1
Benzo[k]fluoranthene	ND		5.2	0.76	ug/L		05/28/21 09:15	06/01/21 21:52	1
Chrysene	ND		5.2	0.34	ug/L		05/28/21 09:15	06/01/21 21:52	1
Dibenz(a,h)anthracene	ND		5.2	0.44	ug/L		05/28/21 09:15	06/01/21 21:52	1
Fluoranthene	ND		5.2	0.42	ug/L		05/28/21 09:15	06/01/21 21:52	1
Fluorene	ND		5.2	0.38	ug/L		05/28/21 09:15	06/01/21 21:52	1

Client Sample ID: PRMW-1S 052621
Lab Sample ID: 480-185257-9
Date Collected: 05/26/21 08:45
Matrix: Water
Date Received: 05/27/21 08:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	ND		5.2	0.49	ug/L		05/28/21 09:15	06/01/21 21:52	1
Naphthalene	ND		5.2	0.79	ug/L		05/28/21 09:15	06/01/21 21:52	1
Phenanthrene	ND		5.2	0.46	ug/L		05/28/21 09:15	06/01/21 21:52	1
Pyrene	ND		5.2	0.35	ug/L		05/28/21 09:15	06/01/21 21:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*93*		*48 - 120*	*05/28/21 09:15*	*06/01/21 21:52*	*1*
Nitrobenzene-d5 (Surr)	*89*		*46 - 120*	*05/28/21 09:15*	*06/01/21 21:52*	*1*
p-Terphenyl-d14 (Surr)	*94*		*60 - 148*	*05/28/21 09:15*	*06/01/21 21:52*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		06/02/21 12:17	06/03/21 15:39	1

Client Sample ID: PRMW-3D 052421
Lab Sample ID: 480-185257-10
Date Collected: 05/24/21 16:15
Matrix: Water
Date Received: 05/27/21 08:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			05/29/21 05:56	1
Ethylbenzene	ND	UJ	1.0	0.74	ug/L			05/29/21 05:56	1
Toluene	ND	UJ	1.0	0.51	ug/L			05/29/21 05:56	1
Xylenes, Total	ND	UJ	2.0	0.66	ug/L			05/29/21 05:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*77 - 120*		*05/29/21 05:56*	*1*
4-Bromofluorobenzene (Surr)	*107*		*73 - 120*		*05/29/21 05:56*	*1*
Dibromofluoromethane (Surr)	*97*		*75 - 123*		*05/29/21 05:56*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*05/29/21 05:56*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.2	0.43	ug/L		05/28/21 09:15	06/01/21 22:19	1
Acenaphthylene	ND		5.2	0.40	ug/L		05/28/21 09:15	06/01/21 22:19	1
Anthracene	ND		5.2	0.29	ug/L		05/28/21 09:15	06/01/21 22:19	1
Benzo[a]anthracene	ND		5.2	0.38	ug/L		05/28/21 09:15	06/01/21 22:19	1
Benzo[a]pyrene	ND		5.2	0.49	ug/L		05/28/21 09:15	06/01/21 22:19	1
Benzo[b]fluoranthene	ND		5.2	0.35	ug/L		05/28/21 09:15	06/01/21 22:19	1
Benzo[g,h,i]perylene	ND		5.2	0.36	ug/L		05/28/21 09:15	06/01/21 22:19	1
Benzo[k]fluoranthene	ND		5.2	0.76	ug/L		05/28/21 09:15	06/01/21 22:19	1
Chrysene	ND		5.2	0.34	ug/L		05/28/21 09:15	06/01/21 22:19	1
Dibenz(a,h)anthracene	ND		5.2	0.44	ug/L		05/28/21 09:15	06/01/21 22:19	1
Fluoranthene	ND		5.2	0.42	ug/L		05/28/21 09:15	06/01/21 22:19	1
Fluorene	ND		5.2	0.38	ug/L		05/28/21 09:15	06/01/21 22:19	1
Indeno[1,2,3-cd]pyrene	ND		5.2	0.49	ug/L		05/28/21 09:15	06/01/21 22:19	1
Naphthalene	ND		5.2	0.79	ug/L		05/28/21 09:15	06/01/21 22:19	1
Phenanthrene	ND		5.2	0.46	ug/L		05/28/21 09:15	06/01/21 22:19	1
Pyrene	ND		5.2	0.35	ug/L		05/28/21 09:15	06/01/21 22:19	1

Client Sample ID: PRMW-3D 052421

Lab Sample ID: 480-185257-10

Date Collected: 05/24/21 16:15

Matrix: Water

Date Received: 05/27/21 08:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	103		48 - 120	05/28/21 09:15	06/01/21 22:19	1
Nitrobenzene-d5 (Surr)	92		46 - 120	05/28/21 09:15	06/01/21 22:19	1
p-Terphenyl-d14 (Surr)	98		60 - 148	05/28/21 09:15	06/01/21 22:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	~~0.0094~~ ~~J~~	0.010 U	0.010	0.0050	mg/L		06/02/21 12:17	06/03/21 15:40	1

Client Sample ID: PRMW-2D 052521

Lab Sample ID: 480-185257-11

Date Collected: 05/25/21 14:45

Matrix: Water

Date Received: 05/27/21 08:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			05/29/21 06:19	1
Ethylbenzene	ND	UJ	1.0	0.74	ug/L			05/29/21 06:19	1
Toluene	ND	UJ	1.0	0.51	ug/L			05/29/21 06:19	1
Xylenes, Total	ND	UJ	2.0	0.66	ug/L			05/29/21 06:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		77 - 120		05/29/21 06:19	1
4-Bromofluorobenzene (Surr)	103		73 - 120		05/29/21 06:19	1
Dibromofluoromethane (Surr)	99		75 - 123		05/29/21 06:19	1
Toluene-d8 (Surr)	96		80 - 120		05/29/21 06:19	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.2	0.43	ug/L		05/28/21 09:15	06/01/21 22:47	1
Acenaphthylene	ND		5.2	0.40	ug/L		05/28/21 09:15	06/01/21 22:47	1
Anthracene	ND		5.2	0.29	ug/L		05/28/21 09:15	06/01/21 22:47	1
Benzo[a]anthracene	ND		5.2	0.38	ug/L		05/28/21 09:15	06/01/21 22:47	1
Benzo[a]pyrene	ND		5.2	0.49	ug/L		05/28/21 09:15	06/01/21 22:47	1
Benzo[b]fluoranthene	ND		5.2	0.35	ug/L		05/28/21 09:15	06/01/21 22:47	1
Benzo[g,h,i]perylene	ND		5.2	0.36	ug/L		05/28/21 09:15	06/01/21 22:47	1
Benzo[k]fluoranthene	ND		5.2	0.76	ug/L		05/28/21 09:15	06/01/21 22:47	1
Chrysene	ND		5.2	0.34	ug/L		05/28/21 09:15	06/01/21 22:47	1
Dibenz(a,h)anthracene	ND		5.2	0.44	ug/L		05/28/21 09:15	06/01/21 22:47	1
Fluoranthene	ND		5.2	0.42	ug/L		05/28/21 09:15	06/01/21 22:47	1
Fluorene	ND		5.2	0.38	ug/L		05/28/21 09:15	06/01/21 22:47	1
Indeno[1,2,3-cd]pyrene	ND		5.2	0.49	ug/L		05/28/21 09:15	06/01/21 22:47	1
Naphthalene	ND		5.2	0.79	ug/L		05/28/21 09:15	06/01/21 22:47	1
Phenanthrene	ND		5.2	0.46	ug/L		05/28/21 09:15	06/01/21 22:47	1
Pyrene	ND		5.2	0.35	ug/L		05/28/21 09:15	06/01/21 22:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	101		48 - 120	05/28/21 09:15	06/01/21 22:47	1
Nitrobenzene-d5 (Surr)	87		46 - 120	05/28/21 09:15	06/01/21 22:47	1
p-Terphenyl-d14 (Surr)	93		60 - 148	05/28/21 09:15	06/01/21 22:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	~~0.0096~~ ~~J~~	0.010 U	0.010	0.0050	mg/L		06/02/21 12:17	06/03/21 15:42	1

Client Sample ID: PRMW-2S 052521

Lab Sample ID: 480-185257-12

Date Collected: 05/25/21 13:05

Matrix: Water

Date Received: 05/27/21 08:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			05/29/21 06:42	1
Ethylbenzene	ND	UJ	1.0	0.74	ug/L			05/29/21 06:42	1
Toluene	ND	UJ	1.0	0.51	ug/L			05/29/21 06:42	1
Xylenes, Total	ND	UJ	2.0	0.66	ug/L			05/29/21 06:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*		*05/29/21 06:42*	*1*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*		*05/29/21 06:42*	*1*
Dibromofluoromethane (Surr)	*95*		*75 - 123*		*05/29/21 06:42*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*05/29/21 06:42*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.2	0.43	ug/L		05/28/21 09:15	06/03/21 02:36	1
Acenaphthylene	ND		5.2	0.40	ug/L		05/28/21 09:15	06/03/21 02:36	1
Anthracene	ND		5.2	0.29	ug/L		05/28/21 09:15	06/03/21 02:36	1
Benzo[a]anthracene	ND		5.2	0.38	ug/L		05/28/21 09:15	06/03/21 02:36	1
Benzo[a]pyrene	ND		5.2	0.49	ug/L		05/28/21 09:15	06/03/21 02:36	1
Benzo[b]fluoranthene	ND		5.2	0.35	ug/L		05/28/21 09:15	06/03/21 02:36	1
Benzo[g,h,i]perylene	ND		5.2	0.36	ug/L		05/28/21 09:15	06/03/21 02:36	1
Benzo[k]fluoranthene	ND		5.2	0.76	ug/L		05/28/21 09:15	06/03/21 02:36	1
Chrysene	ND		5.2	0.34	ug/L		05/28/21 09:15	06/03/21 02:36	1
Dibenz(a,h)anthracene	ND		5.2	0.44	ug/L		05/28/21 09:15	06/03/21 02:36	1
Fluoranthene	ND		5.2	0.42	ug/L		05/28/21 09:15	06/03/21 02:36	1
Fluorene	ND		5.2	0.38	ug/L		05/28/21 09:15	06/03/21 02:36	1
Indeno[1,2,3-cd]pyrene	ND		5.2	0.49	ug/L		05/28/21 09:15	06/03/21 02:36	1
Naphthalene	ND		5.2	0.79	ug/L		05/28/21 09:15	06/03/21 02:36	1
Phenanthrene	ND		5.2	0.46	ug/L		05/28/21 09:15	06/03/21 02:36	1
Pyrene	ND		5.2	0.35	ug/L		05/28/21 09:15	06/03/21 02:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*102*		*48 - 120*	*05/28/21 09:15*	*06/03/21 02:36*	*1*
Nitrobenzene-d5 (Surr)	*92*		*46 - 120*	*05/28/21 09:15*	*06/03/21 02:36*	*1*
p-Terphenyl-d14 (Surr)	*81*		*60 - 148*	*05/28/21 09:15*	*06/03/21 02:36*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**0.015**	~~F1~~ J-	0.010	0.0050	mg/L		06/02/21 12:17	06/03/21 15:46	1

Client Sample ID: PRMW-6D 052521

Lab Sample ID: 480-185257-13

Date Collected: 05/25/21 08:40

Matrix: Water

Date Received: 05/27/21 08:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND	~~F2~~	1.0	0.41	ug/L			05/29/21 07:05	1
Ethylbenzene	ND	~~F1~~ UJ	1.0	0.74	ug/L			05/29/21 07:05	1
Toluene	ND	~~F1~~ UJ	1.0	0.51	ug/L			05/29/21 07:05	1
Xylenes, Total	ND	~~F1~~ UJ	2.0	0.66	ug/L			05/29/21 07:05	1

Client Sample ID: PRMW-6D 052521
Lab Sample ID: 480-185257-13
Date Collected: 05/25/21 08:40
Matrix: Water
Date Received: 05/27/21 08:00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*		*05/29/21 07:05*	*1*
4-Bromofluorobenzene (Surr)	*106*		*73 - 120*		*05/29/21 07:05*	*1*
Dibromofluoromethane (Surr)	*99*		*75 - 123*		*05/29/21 07:05*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*05/29/21 07:05*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.2	0.43	ug/L		05/28/21 09:15	06/01/21 17:19	1
Acenaphthylene	ND		5.2	0.40	ug/L		05/28/21 09:15	06/01/21 17:19	1
Anthracene	ND		5.2	0.29	ug/L		05/28/21 09:15	06/01/21 17:19	1
Benzo[a]anthracene	ND		5.2	0.38	ug/L		05/28/21 09:15	06/01/21 17:19	1
Benzo[a]pyrene	ND		5.2	0.49	ug/L		05/28/21 09:15	06/01/21 17:19	1
Benzo[b]fluoranthene	ND		5.2	0.35	ug/L		05/28/21 09:15	06/01/21 17:19	1
Benzo[g,h,i]perylene	ND		5.2	0.36	ug/L		05/28/21 09:15	06/01/21 17:19	1
Benzo[k]fluoranthene	ND		5.2	0.76	ug/L		05/28/21 09:15	06/01/21 17:19	1
Chrysene	ND		5.2	0.34	ug/L		05/28/21 09:15	06/01/21 17:19	1
Dibenz(a,h)anthracene	ND		5.2	0.44	ug/L		05/28/21 09:15	06/01/21 17:19	1
Fluoranthene	ND		5.2	0.42	ug/L		05/28/21 09:15	06/01/21 17:19	1
Fluorene	ND		5.2	0.38	ug/L		05/28/21 09:15	06/01/21 17:19	1
Indeno[1,2,3-cd]pyrene	ND		5.2	0.49	ug/L		05/28/21 09:15	06/01/21 17:19	1
Naphthalene	ND		5.2	0.79	ug/L		05/28/21 09:15	06/01/21 17:19	1
Phenanthrene	ND		5.2	0.46	ug/L		05/28/21 09:15	06/01/21 17:19	1
Pyrene	ND		5.2	0.35	ug/L		05/28/21 09:15	06/01/21 17:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*104*		*48 - 120*	*05/28/21 09:15*	*06/01/21 17:19*	*1*
Nitrobenzene-d5 (Surr)	*89*		*46 - 120*	*05/28/21 09:15*	*06/01/21 17:19*	*1*
p-Terphenyl-d14 (Surr)	*89*		*60 - 148*	*05/28/21 09:15*	*06/01/21 17:19*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.010 U	~~0.0083 J F1 F2~~	0.010	0.0050	mg/L		06/04/21 12:46	06/04/21 17:12	1

Client Sample ID: PRMW-6S 052521
Lab Sample ID: 480-185257-14
Date Collected: 05/25/21 10:45
Matrix: Water
Date Received: 05/27/21 08:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			05/29/21 07:28	1
Ethylbenzene	ND	UJ	1.0	0.74	ug/L			05/29/21 07:28	1
Toluene	ND	UJ	1.0	0.51	ug/L			05/29/21 07:28	1
Xylenes, Total	ND	UJ	2.0	0.66	ug/L			05/29/21 07:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*77 - 120*		*05/29/21 07:28*	*1*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*		*05/29/21 07:28*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 123*		*05/29/21 07:28*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*05/29/21 07:28*	*1*

Client Sample ID: PRMW-6S 052521
Lab Sample ID: 480-185257-14
Date Collected: 05/25/21 10:45
Matrix: Water
Date Received: 05/27/21 08:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.4	0.45	ug/L		05/28/21 09:15	06/03/21 03:03	1
Acenaphthylene	ND		5.4	0.41	ug/L		05/28/21 09:15	06/03/21 03:03	1
Anthracene	ND		5.4	0.30	ug/L		05/28/21 09:15	06/03/21 03:03	1
Benzo[a]anthracene	ND		5.4	0.39	ug/L		05/28/21 09:15	06/03/21 03:03	1
Benzo[a]pyrene	ND		5.4	0.51	ug/L		05/28/21 09:15	06/03/21 03:03	1
Benzo[b]fluoranthene	ND		5.4	0.37	ug/L		05/28/21 09:15	06/03/21 03:03	1
Benzo[g,h,i]perylene	ND		5.4	0.38	ug/L		05/28/21 09:15	06/03/21 03:03	1
Benzo[k]fluoranthene	ND		5.4	0.79	ug/L		05/28/21 09:15	06/03/21 03:03	1
Chrysene	ND		5.4	0.36	ug/L		05/28/21 09:15	06/03/21 03:03	1
Dibenz(a,h)anthracene	ND		5.4	0.46	ug/L		05/28/21 09:15	06/03/21 03:03	1
Fluoranthene	ND		5.4	0.43	ug/L		05/28/21 09:15	06/03/21 03:03	1
Fluorene	ND		5.4	0.39	ug/L		05/28/21 09:15	06/03/21 03:03	1
Indeno[1,2,3-cd]pyrene	ND		5.4	0.51	ug/L		05/28/21 09:15	06/03/21 03:03	1
Naphthalene	ND		5.4	0.83	ug/L		05/28/21 09:15	06/03/21 03:03	1
Phenanthrene	ND		5.4	0.48	ug/L		05/28/21 09:15	06/03/21 03:03	1
Pyrene	ND		5.4	0.37	ug/L		05/28/21 09:15	06/03/21 03:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*113*		*48 - 120*	*05/28/21 09:15*	*06/03/21 03:03*	*1*
Nitrobenzene-d5 (Surr)	*103*		*46 - 120*	*05/28/21 09:15*	*06/03/21 03:03*	*1*
p-Terphenyl-d14 (Surr)	*99*		*60 - 148*	*05/28/21 09:15*	*06/03/21 03:03*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		06/04/21 12:46	06/04/21 17:27	1

Client Sample ID: PRMW-54S 052521
Lab Sample ID: 480-185257-15
Date Collected: 05/25/21 12:15
Matrix: Water
Date Received: 05/27/21 08:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			05/29/21 07:51	1
Ethylbenzene	ND	UJ	1.0	0.74	ug/L			05/29/21 07:51	1
Toluene	ND	UJ	1.0	0.51	ug/L			05/29/21 07:51	1
Xylenes, Total	ND	UJ	2.0	0.66	ug/L			05/29/21 07:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*77 - 120*		*05/29/21 07:51*	*1*
4-Bromofluorobenzene (Surr)	*106*		*73 - 120*		*05/29/21 07:51*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 123*		*05/29/21 07:51*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*05/29/21 07:51*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.2	0.43	ug/L		05/28/21 09:15	06/03/21 03:31	1
Acenaphthylene	ND		5.2	0.40	ug/L		05/28/21 09:15	06/03/21 03:31	1
Anthracene	ND		5.2	0.29	ug/L		05/28/21 09:15	06/03/21 03:31	1
Benzo[a]anthracene	ND		5.2	0.38	ug/L		05/28/21 09:15	06/03/21 03:31	1
Benzo[a]pyrene	ND		5.2	0.49	ug/L		05/28/21 09:15	06/03/21 03:31	1
Benzo[b]fluoranthene	ND		5.2	0.35	ug/L		05/28/21 09:15	06/03/21 03:31	1

Client: New York State Electric & Gas
Job ID: 480-185257-1
Project/Site: NYSEG - Penn Yan Water St. MGP

Client Sample ID: PRMW-54S 052521
Lab Sample ID: 480-185257-15
Date Collected: 05/25/21 12:15
Matrix: Water
Date Received: 05/27/21 08:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	ND		5.2	0.36	ug/L		05/28/21 09:15	06/03/21 03:31	1
Benzo[k]fluoranthene	ND		5.2	0.76	ug/L		05/28/21 09:15	06/03/21 03:31	1
Chrysene	ND		5.2	0.34	ug/L		05/28/21 09:15	06/03/21 03:31	1
Dibenz(a,h)anthracene	ND		5.2	0.44	ug/L		05/28/21 09:15	06/03/21 03:31	1
Fluoranthene	ND		5.2	0.42	ug/L		05/28/21 09:15	06/03/21 03:31	1
Fluorene	ND		5.2	0.38	ug/L		05/28/21 09:15	06/03/21 03:31	1
Indeno[1,2,3-cd]pyrene	ND		5.2	0.49	ug/L		05/28/21 09:15	06/03/21 03:31	1
Naphthalene	ND		5.2	0.79	ug/L		05/28/21 09:15	06/03/21 03:31	1
Phenanthrene	ND		5.2	0.46	ug/L		05/28/21 09:15	06/03/21 03:31	1
Pyrene	ND		5.2	0.35	ug/L		05/28/21 09:15	06/03/21 03:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*104*		*48 - 120*	*05/28/21 09:15*	*06/03/21 03:31*	*1*
Nitrobenzene-d5 (Surr)	*95*		*46 - 120*	*05/28/21 09:15*	*06/03/21 03:31*	*1*
p-Terphenyl-d14 (Surr)	*87*		*60 - 148*	*05/28/21 09:15*	*06/03/21 03:31*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	~~0.0081~~ ~~J~~ 0.010 U		0.010	0.0050	mg/L		06/04/21 12:46	06/04/21 17:28	1

Appendix C

Support Documentation

Job Narrative
480-185257-1

Comments
No additional comments.

Receipt
The samples were received on 5/27/2021 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 3.0º C and 3.2º C.

GC/MS VOA
Method 8260C: The continuing calibration verification (CCV) associated with batch 480-583267 recovered outside acceptance criteria, low biased, for m-Xylene & p-Xylene, Toluene and Ethylbenzene. A reporting limit (RL) standard was analyzed, and the target analytes were detected. Since the associated samples were non-detect for these analytes, the data have been reported. The associated samples are impacted: TRIP BLANK (480-185257-1), EQP BLANK 052621 (480-185257-2), PRMU-4S 052521 (480-185257-3), TMW-1D 052621 (480-185257-5), PRMW-3S 052421 (480-185257-7), PRMW-5D 052521 (480-185257-8), PRMW-1S 052621 (480-185257-9), PRMW-3D 052421 (480-185257-10), PRMW-2D 052521 (480-185257-11), PRMW-2S 052521 (480-185257-12), PRMW-6D 052521 (480-185257-13), PRMW-6S 052521 (480-185257-14) and PRMW-54S 052521 (480-185257-15).

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-583267 recovered outside acceptance criteria, low biased, for m-Xylene & p-Xylene and Toluene. A reporting limit (RL) standard was analyzed, and the target analyte was detected above the reporting limits for these analytes. Since the associated samples were non-detect for these analytes, the data have been reported. The associated sample is impacted: PRMW-5S 052521 (480-185257-6).

Method 8260C: The continuing calibration verification (CCV) analyzed in batch 480-583267 was outside the method criteria for the following analyte: Ethylbenzene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated. The associated sample is impacted: PRMW-5S 052521 (480-185257-6).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

~~**LCMS**~~
~~No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.~~

General Chemistry
Methods 335.4, 9012B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 480-583637 and analytical batch 480-583865 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Methods 335.4, 9012B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 480-584023 and analytical batch 480-584079 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-185257-1

SDG No.:

Lab Sample ID: CCVIS 480-583267/4 Calibration Date: 05/29/2021 00:34

Instrument ID: HP5973N Calib Start Date: 05/13/2021 14:49

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 05/13/2021 17:31

Lab File ID: N2945.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	1.476	0.5580	0.1000	9.45	25.0	-62.2*	50.0
Chloromethane	Ave	3.641	2.491	0.1000	17.1	25.0	-31.6*	20.0
Vinyl chloride	Ave	2.038	1.081	0.1000	13.3	25.0	-47.0*	20.0
Butadiene	Ave	2.839	1.322		11.6	25.0	-53.4*	20.0
Bromomethane	Lin1		0.6078	0.1000	17.3	25.0	-30.7	50.0
Chloroethane	Ave	1.190	0.6954	0.1000	14.6	25.0	-41.5	50.0
Dichlorofluoromethane	Ave	2.160	1.409		16.3	25.0	-34.7*	20.0
Trichlorofluoromethane	Ave	1.810	0.8327	0.1000	11.5	25.0	-54.0*	20.0
Ethyl ether	Ave	1.946	1.754		22.5	25.0	-9.9	20.0
Acrolein	Ave	0.1865	0.1539		103	125	-17.5	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.193	0.4573	0.1000	9.58	25.0	-61.7*	20.0
1,1-Dichloroethene	Ave	1.187	0.6934	0.1000	14.6	25.0	-41.6*	20.0
Acetone	Ave	0.9274	0.9425	0.1000	127	125	1.6	50.0
Iodomethane	Ave	2.124	1.691		19.9	25.0	-20.4*	20.0
Carbon disulfide	Ave	3.791	2.367	0.1000	15.6	25.0	-37.5*	20.0
Allyl chloride	Ave	4.660	3.595		19.3	25.0	-22.8*	20.0
Methyl acetate	Ave	2.534	2.694	0.1000	53.2	50.0	6.3	50.0
Methylene Chloride	Lin1		1.104	0.1000	19.3	25.0	-22.6*	20.0
2-Methyl-2-propanol	Ave	0.1183	0.1993		421	250	68.4*	50.0
Methyl tert-butyl ether	Ave	4.044	4.195	0.1000	25.9	25.0	3.7	20.0
trans-1,2-Dichloroethene	Ave	1.425	1.037	0.1000	18.2	25.0	-27.2*	20.0
Acrylonitrile	Ave	1.291	1.314		254	250	1.8	20.0
Hexane	Ave	3.256	1.277		9.81	25.0	-60.8*	20.0
1,1-Dichloroethane	Ave	3.330	2.643	0.2000	19.8	25.0	-20.6*	20.0
Vinyl acetate	Ave	4.175	6.453		77.3	50.0	54.6*	20.0
2,2-Dichloropropane	Lin1		0.6322		22.2	25.0	-11.2	20.0
cis-1,2-Dichloroethene	Ave	1.566	1.242	0.1000	19.8	25.0	-20.7*	20.0
2-Butanone (MEK)	Ave	1.521	1.835	0.1000	151	125	20.6*	20.0
Chlorobromomethane	Ave	0.8784	0.7655		21.8	25.0	-12.9	20.0
Tetrahydrofuran	Ave	1.210	1.195		49.4	50.0	-1.2	20.0
Chloroform	Ave	2.571	2.130	0.2000	20.7	25.0	-17.2	20.0
1,1,1-Trichloroethane	Ave	1.725	1.381	0.1000	20.0	25.0	-19.9	20.0
Cyclohexane	Ave	4.088	1.699	0.1000	10.4	25.0	-58.4*	20.0
Carbon tetrachloride	Ave	1.539	1.127	0.1000	18.3	25.0	-26.8*	20.0
1,1-Dichloropropene	Ave	1.947	1.233		15.8	25.0	-36.7*	20.0
Benzene	Ave	5.708	4.603	0.5000	20.2	25.0	-19.3	20.0
Isobutyl alcohol	Ave	0.0650	0.1423		1370	625	119.1*	50.0
1,2-Dichloroethane	Ave	2.644	2.614	0.1000	24.7	25.0	-1.1	20.0
n-Heptane	Ave	4.359	2.041		11.7	25.0	-53.2*	20.0
Trichloroethene	Ave	1.404	1.107	0.2000	19.7	25.0	-21.2*	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-185257-1

SDG No.:

Lab Sample ID: CCVIS 480-583267/4 Calibration Date: 05/29/2021 00:34

Instrument ID: HP5973N Calib Start Date: 05/13/2021 14:49

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 05/13/2021 17:31

Lab File ID: N2945.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	2.389	0.9425	0.1000	9.86	25.0	-60.6*	20.0
1,2-Dichloropropane	Ave	1.699	1.664	0.1000	24.5	25.0	-2.1	20.0
Dibromomethane	Ave	0.9234	0.8890	0.1000	24.1	25.0	-3.7	20.0
1,4-Dioxane	Ave	0.0032	0.0036		565	500	12.9	50.0
Bromodichloromethane	Ave	1.722	1.681	0.2000	24.4	25.0	-2.4	20.0
2-Chloroethyl vinyl ether	Ave	1.079	1.225		28.4	25.0	13.5	20.0
cis-1,3-Dichloropropene	Ave	1.627	1.978	0.2000	30.4	25.0	21.6*	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2447	0.2693	0.1000	138	125	10.1	20.0
Toluene	Ave	0.9481	0.7369	0.4000	19.4	25.0	-22.3*	20.0
trans-1,3-Dichloropropene	Lin1		0.4502	0.1000	31.1	25.0	24.4*	20.0
Ethyl methacrylate	Lin1		0.4211		29.4	25.0	17.8	20.0
1,1,2-Trichloroethane	Ave	0.2450	0.2453	0.1000	25.0	25.0	0.1	20.0
Tetrachloroethene	Ave	0.4025	0.2724	0.2000	16.9	25.0	-32.3*	20.0
1,3-Dichloropropane	Ave	0.5436	0.5225		24.0	25.0	-3.9	20.0
2-Hexanone	Ave	0.4939	0.6062	0.1000	153	125	22.7*	20.0
Dibromochloromethane	Ave	0.3142	0.3446	0.1000	27.4	25.0	9.7	20.0
1,2-Dibromoethane	Ave	0.2867	0.3321		29.0	25.0	15.8	20.0
Chlorobenzene	Ave	1.042	0.8632	0.5000	20.7	25.0	-17.1	20.0
Ethylbenzene	Ave	1.700	1.315	0.1000	19.3	25.0	-22.6*	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3048	0.3171		26.0	25.0	4.0	20.0
m,p-Xylene	Ave	0.6597	0.5245	0.1000	19.9	25.0	-20.5*	20.0
o-Xylene	Ave	0.6696	0.5445	0.3000	20.3	25.0	-18.7	20.0
Styrene	Ave	1.108	0.9608	0.3000	21.7	25.0	-13.3	20.0
Bromoform	Ave	0.1766	0.2320	0.1000	32.8	25.0	31.4	50.0
Isopropylbenzene	Ave	3.561	2.533	0.1000	17.8	25.0	-28.9*	20.0
Bromobenzene	Ave	0.8417	0.8029		23.8	25.0	-4.6	20.0
1,1,2,2-Tetrachloroethane	Ave	0.8876	0.8447	0.3000	23.8	25.0	-4.8	20.0
N-Propylbenzene	Ave	4.007	2.814		17.6	25.0	-29.8*	20.0
1,2,3-Trichloropropane	Ave	0.2792	0.2855		25.6	25.0	2.3	20.0
trans-1,4-Dichloro-2-butene	Ave	0.3637	0.3899		26.8	25.0	7.2	50.0
2-Chlorotoluene	Ave	0.8618	0.6773		19.6	25.0	-21.4*	20.0
1,3,5-Trimethylbenzene	Ave	2.945	2.191		18.6	25.0	-25.6*	20.0
4-Chlorotoluene	Ave	2.406	1.989		20.7	25.0	-17.4	20.0
tert-Butylbenzene	Ave	0.6394	0.4489		17.6	25.0	-29.8*	20.0
1,2,4-Trimethylbenzene	Ave	2.934	2.345		20.0	25.0	-20.1*	20.0
sec-Butylbenzene	Ave	3.733	2.375		15.9	25.0	-36.4*	20.0
1,3-Dichlorobenzene	Ave	1.601	1.394	0.6000	21.8	25.0	-13.0	20.0
4-Isopropyltoluene	Ave	3.300	2.285		17.3	25.0	-30.8*	20.0
1,4-Dichlorobenzene	Ave	1.638	1.440	0.5000	22.0	25.0	-12.1	20.0
n-Butylbenzene	Ave	2.822	1.758		15.6	25.0	-37.7*	20.0
1,2-Dichlorobenzene	Ave	1.665	1.427	0.4000	21.4	25.0	-14.3	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-185257-1

SDG No.:

Lab Sample ID: CCVIS 480-583267/4 Calibration Date: 05/29/2021 00:34

Instrument ID: HP5973N Calib Start Date: 05/13/2021 14:49

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 05/13/2021 17:31

Lab File ID: N2945.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.1046	0.1622	0.0500	38.8	25.0	55.0*	50.0
1,2,4-Trichlorobenzene	Ave	1.204	1.014	0.2000	21.1	25.0	-15.8	20.0
Hexachlorobutadiene	Ave	0.4973	0.3095		15.6	25.0	-37.8*	20.0
Naphthalene	Ave	3.339	2.977		22.3	25.0	-10.8	20.0
1,2,3-Trichlorobenzene	Ave	1.166	0.999		21.4	25.0	-14.4	20.0
Dibromofluoromethane (Surr)	Ave	1.331	1.250		23.5	25.0	-6.1	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	1.774	1.837		25.9	25.0	3.5	20.0
Toluene-d8 (Surr)	Ave	1.225	1.176		24.0	25.0	-4.0	20.0
4-Bromofluorobenzene (Surr)	Ave	0.3779	0.3895		25.8	25.0	3.1	20.0

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-185257-1

SDG No.:

Lab File ID: N2944.D BFB Injection Date: 05/29/2021

Instrument ID: HP5973N BFB Injection Time: 00:10

Analysis Batch No.: 583267

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	35.7	
75	30.0 - 60.0 % of mass 95	49.0	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.0	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	Greater than 50% of mass 95	91.7	
175	5.0 - 9.0 % of mass 174	6.9	(7.6) 1
176	95.0 - 101.0 % of mass 174	88.4	(96.4) 1
177	5.0 - 9.0 % of mass 176	5.8	(6.6) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-583267/4	N2945.D	05/29/2021	0:34
	MB 480-583267/8	N2949.D	05/29/2021	2:05
TRIP BLANK	480-185257-1	N2950.D	05/29/2021	2:28
EQP BLANK 052621	480-185257-2	N2951.D	05/29/2021	2:51
PRMU-4S 052521	480-185257-3	N2952.D	05/29/2021	3:15
TMW-1D 052621	480-185257-5	N2954.D	05/29/2021	4:01
PRMW-5S 052521	480-185257-6	N2955.D	05/29/2021	4:24
PRMW-3S 052421	480-185257-7	N2956.D	05/29/2021	4:47
PRMW-5D 052521	480-185257-8	N2957.D	05/29/2021	5:10
PRMW-1S 052621	480-185257-9	N2958.D	05/29/2021	5:33
PRMW-3D 052421	480-185257-10	N2959.D	05/29/2021	5:56
PRMW-2D 052521	480-185257-11	N2960.D	05/29/2021	6:19
PRMW-2S 052521	480-185257-12	N2961.D	05/29/2021	6:42
PRMW-6D 052521	480-185257-13	N2962.D	05/29/2021	7:05
PRMW-6S 052521	480-185257-14	N2963.D	05/29/2021	7:28
PRMW-54S 052521	480-185257-15	N2964.D	05/29/2021	7:51
PRMW-6D 052521 MS	480-185257-13 MS	N2965.D	05/29/2021	8:14
PRMW-6D 052521 MSD	480-185257-13 MSD	N2966.D	05/29/2021	8:37
	LCS 480-583267/27	N2968.D	05/29/2021	9:55

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-185257-1

SDG No.:

Matrix: Water Level: Low Lab File ID: N2965.D

Lab ID: 480-185257-13 MS Client ID: PRMW-6D 052521 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Benzene	25.0	ND	18.4	74	71-124	
Ethylbenzene	25.0	ND	17.2	69	77-123	F1
Toluene	25.0	ND	17.6	71	80-122	F1
Xylenes, Total	50.0	ND	36.8	74	76-122	F1

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-185257-1

SDG No.:

Matrix: Water Level: Low Lab File ID: N2966.D

Lab ID: 480-185257-13 MSD Client ID: PRMW-6D 052521 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Benzene	25.0	21.5	86	16	13	71-124	F2
Ethylbenzene	25.0	19.9	79	14	15	77-123	
Toluene	25.0	20.2	81	13	15	80-122	
Xylenes, Total	50.0	41.9	84	13	16	76-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

5-IN
MATRIX SPIKE SAMPLE RECOVERY
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-185257-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 583865	Date: 06/03/2021 15:47		Prep Batch: 583637		Date: 06/02/2021 12:17						
9012B	480-185257-12	Cyanide, Total	0.015		mg/L						F1
9012B	480-185257-12 MS	Cyanide, Total	0.0248		mg/L	0.100	10	90-110			F1
Batch ID: 584079	Date: 06/04/2021 17:14		Prep Batch: 584023		Date: 06/04/2021 12:46						
9012B	480-185257-13	Cyanide, Total	0.0083	J	mg/L						F1 F2
9012B	480-185257-13 MS	Cyanide, Total	0.0157		mg/L	0.100	7	90-110			F1
Batch ID: 584325	Date: 06/07/2021 16:33		Prep Batch: 584271		Date: 06/07/2021 12:50						
9012B	480-185257-5	Cyanide, Total	ND		mg/L						F1
9012B	480-185257-5 MS	Cyanide, Total	0.0365		mg/L	0.100	37	90-110			F1

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM V-IN

5-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-185257-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 584079	Date: 06/04/2021 17:15		Prep Batch: 584023		Date: 06/04/2021 12:46						
9012B	480-185257-13 MSD	Cyanide, Total	0.0187		mg/L	0.100	10	90-110	17	15	F1 F2

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM V-IN

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing America

Client Information			
Sampler: Pat McHugh	Lab PM: Schove, John R	Carrier Tracking No(s):	COC No: 480-160887-35395.1
Client Contact: Mr. John Ruspantini	Phone: 518-929-7166	E-Mail: John.Schove@Eurofinset.com	State of Origin: NY
Page: Page 1 of 2			
Company: New York State Electric & Gas	PWSID:		Job #:
Address: 18 Link Drive	Due Date Requested:		
City: Binghamton	TAT Requested (days): Standard		
State, Zip: NY, 13902	Compliance Project: Δ Yes Δ No		
Phone	PO #: 4505315256		
Email: jjruspantini@nyseg.com	WO #: NYSEG/John Ruspantini		
Project Name: NYSEG - Penn Yan Water St. MGP	Project #: 48023403		
Site:	SSOW#:		

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA
M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270D - PAH Semivolatiles	8260C - BTEX	9012B - Cyanide, Total	PFC_IDA - PFAS, Standard List (21 analytes)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	A	B	N		
Trip Blank	5/26/21	1100	G	Water	N	N		X			2	
EQP Blank 052621	5/26/21	1005	G	Water	N	N	X	X	X		6	
PRMW-4S 052521	5/25/21	1215	G	Water	N	N	X	X	X		6	
Waste Tote 052621	5/26/21	1000	G	Water	N	N	X	X	X		6	HOLD
TMW-1D 052621	5/26/21	0900	G	Water	N	N	X	X	X		6	
PRMW-5S 052521	5/25/21	1125	G	Water	N	N	X	X	X		6	
PRMW-3S 052421	5/24/21	1610	G	Water	N	N	X	X	X		6	
PRMW-5D 052521	5/24/21	1025	G	Water	N	N	X	X	X		6	
PRMW-1S 052621	5/26/21	0845	G	Water	N	N	X	X	X		6	
PRMW-3D 0524	5/24/21	1615	G	Water	N	N	X	X	X		6	
PM 5/26/21				Water								

480-185257 COC

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ S... ☐ ...B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For ______ Months

Deliverable Requested: I, II, III, IV, Other (s... B.

Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by: M. T Zelloszki	Date/Time: 05/26/21 1500	Company: A-Elan	Received by: Karl Zenke	Date/Time: 5/26/21 1500	Company: Eurofins		
Relinquished by: Karl Zenke	Date/Time: 5/27/21 1700	Company: Eurofins	Received by: [signature]	Date/Time: 5/28/21 10:35	Company: TABUF		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company		
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:				

Ver: 11/01/2020

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: PAT McHugh	Lab PM: Schove, John R	Carrier Tracking No(s):	COC No: 480-160887-35395.2
Client Contact: Mr. John Ruspantini	Phone: 518 - 929 - 7166	E-Mail: John.Schove@Eurofinset.com	State of Origin: NY	Page: Page 2 of 2
Company: New York State Electric & Gas	PWSID:	Analysis Requested		Job #:
Address: 18 Link Drive	Due Date Requested:			Preservation Codes:
City: Binghamton	TAT Requested (days): Standard.			A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Z - other (specify)
State, Zip: NY, 13902	Compliance Project: Δ Yes Δ No			
Phone	PO #: 4505315256			Other:
Email: jjruspantini@nyseg.com	WO #: NYSEG/John Ruspantini			
Project Name: NYSEG - Penn Yan Water St. MGP	Project #: 48023403			
Site:	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270D - PAH Semivolatiles	8260C - BTEX	9012B - Cyanide, Total	PFC_IDA - PFAS, Standard List (21 analytes)	Total Number of containers	Special Instructions/Note:
			Preservation Code:		N	N	A	B	N			
PRMW-2D 052521	5/25/21	1445	G	Water	N	N	X	X	X		6	
PRMW-2S 052521		1305	G	Water	N	N	X	X	X		6	
PRMW-6D 052521		0840	G	Water	N	Y	X	X	X		18	
PRMW-6S 052521	↓	1045	G	Water	N	N	X	X	X		6	
PRMW-5S 052521	5/25/21	1215	G	Water	N	N	X	X	X		6	
				Water								
				Water								
				Water								
				Water								

PM 5/26/21

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) Cat B

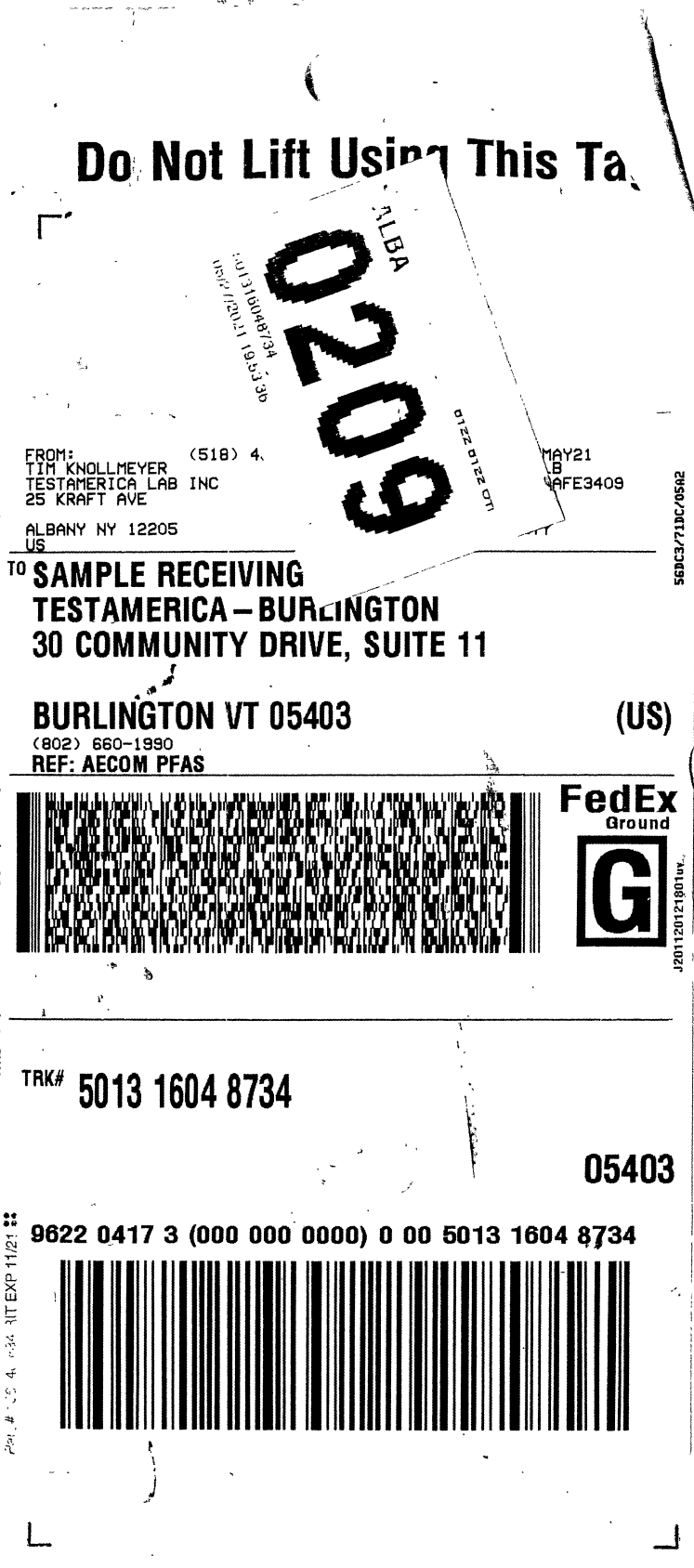
Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
M. Fredericks	05/26/21 1500	AECOM	[signature]	5/26/21 1500	Eurofins
Relinquished by: Karl Zoeller	Date/Time: 5/27/21 1700	Company	Received by: [signature]	Date/Time: 5/28/21 10:35	Company TAL BUF
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 11/01/2020



Do Not Lift Using This Ta

ALBA

0209

FROM:
TIM KNOLLMEYER
TESTAMERICA LAB INC
25 KRAFT AVE

ALBANY NY 12205
US

(518) 4

MAY21
B
AFE3409

TO SAMPLE RECEIVING
TESTAMERICA – BURLINGTON
30 COMMUNITY DRIVE, SUITE 11

BURLINGTON VT 05403 (US)
(802) 660-1990
REF: AECOM PFAS

FedEx
Ground

TRK# 5013 1604 8734

05403

9622 0417 3 (000 000 0000) 0 00 5013 1604 8734

Login Sample Receipt Checklist

Client: New York State Electric & Gas

Job Number: 480-185257-1

Login Number: 185257
List Number: 1
Creator: Yeager, Brian A

List Source: Eurofins TestAmerica, Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	AECOM
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	