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Date: July 22, 2022
Our Ref: 30126623
Subject: **First Quarter 2022 Groundwater Monitoring Report**
New York State Electric & Gas Corporation
Penn Yan Former Manufactured Gas Plant, Penn Yan, New York
NYSDEC Site No. 862009

Dear Mr. Pratt,

On behalf of the New York State Electric & Gas Corporation (NYSEG), this letter summarizes activities completed during the first quarter of 2022 for the NYSEG Penn Yan former manufactured gas plant (MGP) site (New York State Department of Environmental Conservation [NYSDEC] Site No.862009) located in the Village of Penn Yan, Town of Milo, Yates County, New York (Figure 1).

Arcadis of New York, Inc. (Arcadis) conducted the first quarter 2022 (Q1) monitoring in accordance with the NYSDEC-approved December 2020 Interim Site Management Plan (ISMP) prepared by AECOM. This quarterly report covers the period from January 1, 2022, to March 31, 2022, and includes data from the February 24 and 25, 2022 site visit.

Background

The former MGP site is approximately 0.815 acres and comprises a vacant masonry building and site cover consisting of grass, an asphalt driveway and parking area, and a section of riparian land along the Keuka Lake Outlet. An offsite area consists of an approximate 1.7-acre portion of submerged sediments beneath the Keuka Lake Outlet (Class C waterway) adjacent and downstream of the site.

The site was initially developed as a malt house and wood storage facility, operating from the 1840s to the late 1890s. The MGP was constructed in 1899 and operated until 1931. Operating companies included the Penn Yan Gas Light Company (1899-1926) and the New York State Central Electric Corporation (1927-1931). Gas was distributed to customers through buried mains and was used primarily for illumination. Several by-products from the MGP process, including coal tar, ash, and purifier waste, were stored onsite and either sold or disposed offsite.

The primary constituents of concern at the site are benzene, toluene, ethylbenzene, and xylenes (BTEX); polycyclic hydrocarbons (PAHs); and cyanide. Since the mid-1980s, the site has undergone several remedial investigations and interim remedial measures and actions to address the presence of impacted soils and former MGP structures. A summary of historical investigations and remedial actions at the site are provided in the ISMP.

First Quarter 2022 Monitoring and Sampling

As presented in the ISMP, groundwater remedy objectives for the Q1 monitoring period are to:

- Assess groundwater movement patterns at the site.
- Monitor groundwater quality to document dissolved BTEX, PAHs, and total cyanide concentrations at the site (quarterly).

To document achieving the objectives, this report presents the following:

- Site-wide data collected during the monitoring period, including groundwater analytical data and groundwater elevation data; and
- Conclusions and monitoring requirement modification recommendations, as appropriate.

Groundwater Elevation and Flow

Field personnel measured the relative depth to groundwater from the following surveyed measuring points during the Q1 monitoring event (shown on Figure 2):

- Monitoring wells PRMW-1S, PRMW-2S, PRMW-2D, PRMW-3S, PRMW-3D, PRWM-4S, PRMW-5S, PRMW-5D, PRMW-6S, PRMW-6D, TMW-1D, and TMW-2D.

Groundwater elevations measured during this reporting period, and previously measured elevations, are summarized in Table 1.

The shallow and deep potentiometric surfaces and groundwater flow directions for the Q1 gauging event are presented on Figures 3 and 4, respectively. As shown on the figures, the general groundwater flow in the shallow and deep aquifers was to the southeast, toward the Keuka Lake Outlet. When compared to the shallow and deep aquifer potentiometric surface maps prepared by AECOM for the September 2021 event, no significant changes to site-wide groundwater flow direction are observed.

Groundwater Sampling Activities and Results

Arcadis conducted the Q1 groundwater sampling event on February 24 and 25, 2022. Groundwater sampling activities and associated analytical results are summarized below.

Groundwater Sampling Activities

Arcadis field personal collected groundwater samples from 11 monitoring wells (PRMW-1S, PRMW-2S, PRMW-2D, PRMW-3S, PRMW-3D, PRWM-4S, PRMW-5S, PRMW-5D, PRMW-6S, PRMW-6D, and TMW-1D) using low-flow groundwater purging and sampling techniques. Groundwater samples were submitted to Eurofins TestAmerica Laboratories, located in Amherst, New York, for the following analysis:

- BTEX using United States Environmental Protection Agency (USEPA) SW-846 Method 8260C;
- PAHs using USEPA SW-846 Method 8270D;
- Total cyanide using USEPA SW-846 Method 9012B; and
- 1,4-Dioxane using USEPA SW-846 Method 8270D SIM (for monitoring wells PRMW-1S, PRMW-3S, and PRMW-6S only).

Groundwater sampling logs are provided as Attachment 1.

Groundwater Quality

Arcadis validated the laboratory analytical data and prepared Data Usability Summary Reports (DUSRs). Data review indicated that overall laboratory performance was acceptable, and the overall data quality was within the guidelines specified in the respective methods. Instances where laboratory performance was not acceptable (if any) are detailed in the DUSR and the data has been appropriately qualified. Laboratory reports are included as Attachment 2 and the DUSRs are included as Attachment 3.

Analytical results presented in Table 2 are compared to NYSDEC's Division of Water Technical and Operational Guidance Series 1.1.1: Ambient Water Quality Standards and Guidance Values and the Groundwater Effluent Limitations Class GA groundwater quality standards/guidance values. Table 2 also includes analytical results for groundwater samples collected during previous groundwater sampling events (conducted by AECOM). Analytical results for 1,4-Dioxane are presented in Table 3.

Shallow Aquifer

BTEX, PAH, and total cyanide analytical results for groundwater samples collected from the shallow aquifer monitoring wells (PRMW-1S, PRMW-2S, PRMW-3S, PRMW-4S, PRMW-5S, and PRMW-6S) during the reporting period are summarized below.

- BTEX:
  - Benzene was detected at 14 micrograms per liter (µg/L) in groundwater collected from monitoring well PRMW-5S, exceeding the Class GA groundwater quality standard. Since February 2021, concentrations have decreased at PRMW-5S.
  - Ethylbenzene (3.3 µg/L), toluene (0.65 µg/L), and total xylenes (2.9 µg/L) were detected in groundwater collected from monitoring well PRMW-5S and did not exceed the Class GA groundwater quality standards.
  - BTEX was not detected in groundwater collected from the remaining shallow wells.
  - BTEX detections and concentration trends in shallow aquifer wells are consistent with historical results.
- PAHs:
  - Several PAHs were detected at concentrations that exceed the Class GA groundwater quality standards in groundwater collected from PRMW-5S: acenaphthene (26 µg/L), chrysene (0.084 µg/L), and naphthalene (26 µg/L). Since February 2021, PAHs indicate a decreasing trend at PRMW-5S.
  - Acenaphthylene (5.2 µg/L), anthracene (0.73 µg/L), fluoranthene (2.5 µg/L), fluorene (10 µg/L), phenanthrene (9.8 µg/L), and pyrene (1.5 µg/L) were detected in groundwater collected from monitoring well PRMW-5S and did not exceed the Class GA groundwater quality standards.
  - PAHs were not detected in groundwater collected from the remaining shallow wells.
  - PAH detections and concentration trends in shallow aquifer wells are consistent with historical results.
- Total Cyanide:
  - Total cyanide was detected at a concentration of 0.077 µg/L in groundwater collected from monitoring well PRMW-2S and 0.076 µg/L in groundwater collected from monitoring well PRMW-5S. Both results are less than the Class GA groundwater quality standard for total cyanide.
  - Total cyanide was not detected in groundwater collected from the remaining shallow wells.
  - Total cyanide concentrations in shallow aquifer wells are consistent with historical results.

- 1,4-Dioxane:
  - 1,4-Dioxane was not detected in groundwater collected from the three locations sampled (PRMW-1S, PRMW-3S, and PRMW-6S).

Deep Aquifer

BTEX, PAHs, and total cyanide groundwater analytical results for samples collected from the deep aquifer monitoring wells (PRMW-2D, PRMW-3D, PRMW-5D, PRMW-6D, and TMW-1D) during the reporting period are summarized below.

- BTEX:
  - BTEX was not detected in groundwater collected from the deep wells.
- PAHs:
  - Acenaphthene (0.055 µg/L) and phenanthrene (0.066 µg/L) were detected in groundwater collected from monitoring well PRMW-5D and did not exceed the Class GA groundwater quality standards.
  - PAHs were not detected in groundwater collected from the remaining deep wells.
- Total Cyanide:
  - Total cyanide was not detected in groundwater collected from the five deep monitoring wells.

Site Inspections

A site inspection of onsite and offsite areas is required annually, per the ISMP. The purpose of the site inspection is to evaluate general site conditions and the condition and continued effectiveness of the cover system. This site inspection is anticipated to be completed during the third quarter 2022 site visit.

Waste Management

Arcadis containerized and staged investigation-derived waste generated during the groundwater sampling activities in appropriately labeled New York State Department of Transportation-approved 55-gallon drums. Drums of investigation-derived waste were subsequently transported offsite for treatment/disposal by NYSEG's waste disposal vendor.

Conclusions and Recommendations

The Q1 monitoring results are generally consistent with historical groundwater results. Based on the Q1 monitoring results:

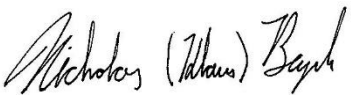
- The groundwater flow direction in the shallow and deep aquifers is generally consistent with historical conditions.
- BTEX and PAH concentrations in the shallow and deep aquifers indicate a decreasing trend, which is consistent with historical results.
- Total cyanide concentrations in the shallow and deep aquifers are consistent with historical results.
- 1,4-Dioxane was not detected in groundwater collected from PRMW-1S, PRMW-3S, PRMW-6S.

Quarterly monitoring and reporting will continue to be completed as required by the ISMP. The next groundwater sampling event is scheduled for May 2022. Groundwater samples will continue to be analyzed for BTEX, PAHs, and total cyanide as required by the ISMP.

Mr. Gerald Pratt, PG
NYSDEC
July 22, 2022

Please contact John Ruspantini of NYSEG at 607.725.3801 or jjruspantini@nyseg.com with any questions or comments.

Sincerely,
Arcadis of New York, Inc.



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CC. John Ruspantini, CHMM, NYSEG
Jason Brien, PE, Arcadis

Enclosures:

- Table 1 – Gauging Data
- Table 2 – Groundwater Analytical Results
- Table 3 – 1,4-Dioxane Groundwater Analytical Results
- Figure 1 – Site Location Map
- Figure 2 – Site Map
- Figure 3 – Shallow Aquifer Groundwater Contour Map, February 24, 2022
- Figure 4 – Deep Aquifer Groundwater Contour Map, February 24, 2022
- Attachment 1 – Groundwater Sampling Logs
- Attachment 2 – Groundwater Laboratory Reports
- Attachment 3 – Data Usability Summary Reports

Tables

Table 1
Gauging Data
2022 First Quarter Groundwater Monitoring Report
NYSEG
Penn Yan, New York

Well ID	Measuring Point Elevation	Actual Depth to Bottom	Screen Interval	Date	Depth to Water (feet TOC)	Groundwater Elevation	Depth to Product (feet TOC)	Depth to Bottom (feet TOC)	Accumulated Thickness of Sediments (feet)
PRMW-1S	731.11	29.90	20 - 30	February 22, 2021	15.40	715.71	-	29.90	0.00
				May 24, 2021	11.23	719.88	-	29.75	0.15
				August 23, 2021	6.52	724.59	-	29.68	0.22
				November 29, 2021	10.10	721.01	-	29.63	0.27
				February 24, 2022	10.20	720.91	-	29.69	0.21
PRMW-2S	734.55	23.09	10 - 20	February 22, 2021	16.10	718.45	-	23.09	0.00
				May 24, 2021	15.63	718.92	-	23.07	0.02
				August 23, 2021	14.19	720.36	-	23.02	0.07
				November 29, 2021	12.13	722.42	-	23.00	0.09
				February 24, 2022	14.87	719.68	-	22.98	0.11
PRMW-2D	734.64	38.55	25 - 35	February 22, 2021	16.47	718.17	-	38.55	0.00
				May 24, 2021	15.84	718.80	-	37.92	0.63
				August 23, 2021	14.59	720.05	-	37.73	0.82
				November 29, 2021	15.14	719.50	-	37.76	0.79
				February 24, 2022	15.08	719.56	-	37.86	0.69
PRMW-3S	723.73	22.90	10 - 20	February 22, 2021	7.72	716.01	-	22.90	0.00
				May 24, 2021	7.42	716.31	-	22.98	-0.08
				August 23, 2021	6.31	717.42	-	22.68	0.22
				November 29, 2021	6.90	716.83	-	22.79	0.11
				February 24, 2022	6.88	716.85	-	22.85	0.05
PRMW-3D	723.81	36.25	25 - 35	February 22, 2021	6.80	717.01	-	36.25	0.00
				May 24, 2021	5.64	718.17	-	36.01	0.24
				August 23, 2021	4.89	718.92	-	35.84	0.41
				November 29, 2021	4.94	718.87	-	35.88	0.37
				February 24, 2022	4.93	718.88	-	35.90	0.35
PRMW-4S	721.92	27.30	14 - 24	February 22, 2021	7.52	714.40	-	27.30	0.00
				May 24, 2021	7.26	714.66	-	27.20	0.10
				August 23, 2021	6.00	715.92	-	27.04	0.26
				November 29, 2021	6.89	715.03	-	27.06	0.24
				February 24, 2022	6.26	715.66	-	27.10	0.20
PRMW-5S	720.72	22.70	10 - 20	February 22, 2021	7.10	713.62	-	22.70	0.00
				May 24, 2021	6.66	714.06	-	22.67	0.03
				August 23, 2021	6.17	714.55	-	22.54	0.16
				November 29, 2021	6.88	713.84	-	22.60	0.10
				February 24, 2022	6.48	714.24	-	22.61	0.09
PRMW-5D	720.74	33.27	20 - 30	February 22, 2021	4.32	716.42	-	33.27	0.00
				May 24, 2021	3.24	717.50	-	32.45	0.82
				August 23, 2021	2.62	718.12	-	32.23	1.04
				November 29, 2021	2.63	718.11	-	32.00	1.27
				February 24, 2022	3.30	717.44	-	32.54	0.73
PRMW-6S	721.10	23.20	10 - 20	February 22, 2021	6.52	714.58	-	23.20	0.00
				May 24, 2021	6.28	714.82	-	23.10	0.10
				August 23, 2021	6.05	715.05	-	23.02	0.18
				November 29, 2021	6.04	715.06	-	23.08	0.12
				February 24, 2022	6.13	714.97	-	23.08	0.12
PRMW-6D	721.22	37.05	24 - 34	February 22, 2021	4.85	716.37	-	37.05	0.00
				May 24, 2021	3.75	717.47	-	37.05	0.00
				August 23, 2021	2.99	718.23	-	36.87	0.18
				November 29, 2021	3.06	718.16	-	36.90	0.15
				February 24, 2022	3.97	717.25	-	36.94	0.11
TMW-1D	723.45	-	54 - 64	May 24, 2021	5.17	718.28	-	63.38	-
				August 23, 2021	3.07	720.38	-	63.14	-
				November 29, 2021	4.40	719.05	-	63.25	-
				February 24, 2022	4.43	719.02	-	63.37	-

See Notes on Page 2.

Table 1
Gauging Data
2022 First Quarter Groundwater Monitoring Report
NYSEG
Penn Yan, New York

Well ID	Measuring Point Elevation	Actual Depth to Bottom	Screen Interval	Date	Depth to Water (feet TOC)	Groundwater Elevation	Depth to Product (feet TOC)	Depth to Bottom (feet TOC)	Accumulated Thickness of Sediments (feet)
TMW-2D	719.24	-	50 - 60	February 22, 2021	2.03	717.21	-	-	-
				May 24, 2021	0.79	718.45	-	-	-
				August 23, 2021	0.40	718.84	-	-	-
				November 29, 2021	0.09	719.15	-	-	-
				February 24, 2022	0.15	719.09	-	-	-

Notes:
1. All measurements from Top of Casing (TOC).
2. "-" Indicates measurement not taken or not available.
3. Elevations in feet above mean sea level (ft amsl), 1929 National Geodetic Vertical Datum (NGVD).
4. Depth calculated based on survey and well installation information provided by AECOM.

Table 2
Groundwater Analytical Results
2022 First Quarter Groundwater Monitoring Report
NYSEG
Penn Yan, New York

Location ID:	NYSDEC TOGS 1.1.1 Stds. or Guidance Values	Units	PRMW-1S				PRMW-2D				PRMW-2S			
Date Collected:			05/26/21	08/23/21	11/29/21	02/25/22	05/25/21	08/25/21	11/30/21	02/25/22	05/25/21	08/24/21	11/30/21	02/25/22
BTEX														
Benzene	1	ug/L	1 U	1 U	1 U	1.0 U	1 U	1 U	1 U	1.0 U	1 U	1 U	1 U	1.0 U
Ethylbenzene	5	ug/L	1 UJ	1 U	1 U	1.0 U	1 UJ	1 U	1 U	1.0 U	1 UJ	1 U	1 U	1.0 U
Toluene	5	ug/L	1 UJ	1 U	1 U	1.0 U	1 UJ	1 U	1 U	1.0 U	1 UJ	1 U	1 U	1.0 U
Xylenes (total)	5	ug/L	2 UJ	2 U	2 U	2.0 U	2 UJ	2 U	2 U	2.0 U	2 UJ	2 U	2 U	2.0 U
Total BTEX	- -	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PAHs														
Acenaphthene	20	ug/L	5.2 U	5 U	5 U	0.50 U	5.2 U	5 U	5 U	0.52 U	5.2 U	5 U	5 U	0.50 U
Acenaphthylene	- -	ug/L	5.2 U	5 U	5 U	0.30 U	5.2 U	5 U	5 U	0.31 U	5.2 U	5 U	5 U	0.30 U
Anthracene	50	ug/L	5.2 U	5 U	5 U	0.50 U	5.2 U	5 U	5 U	0.52 U	5.2 U	5 U	5 U	0.50 U
Benzo(a)anthracene	0.002	ug/L	5.2 U	5 U	5 U	0.30 U	5.2 U	5 U	5 U	0.31 UJ	5.2 U	5 U	5 U	0.30 U
Benzo(a)pyrene	- -	ug/L	5.2 U	5 U	5 U	0.18 U	5.2 U	5 U	5 U	0.19 UJ	5.2 U	5 U	5 U	0.18 U
Benzo(b)fluoranthene	0.002	ug/L	5.2 U	5 U	5 U	0.30 U	5.2 U	5 U	5 U	0.31 UJ	5.2 U	5 U	5 U	0.30 U
Benzo(g,h,i)perylene	- -	ug/L	5.2 U	5 U	5 U	0.50 U	5.2 U	5 U	5 U	0.52 UJ	5.2 U	5 U	5 U	0.50 U
Benzo(k)fluoranthene	0.002	ug/L	5.2 U	5 U	5 U	0.30 U	5.2 U	5 U	5 U	0.31 UJ	5.2 U	5 U	5 U	0.30 U
Chrysene	0.002	ug/L	5.2 U	5 U	5 U	0.50 U	5.2 U	5 U	5 U	0.52 UJ	5.2 U	5 U	5 U	0.50 U
Dibenzo(a,h)anthracene	- -	ug/L	5.2 U	5 U	5 U	0.50 U	5.2 U	5 U	5 U	0.52 UJ	5.2 U	5 U	5 U	0.50 U
Fluoranthene	50	ug/L	5.2 U	5 U	5 U	0.50 U	5.2 U	5 U	5 U	0.52 U	5.2 U	5 U	5 U	0.50 U
Fluorene	50	ug/L	5.2 U	5 U	5 U	0.50 U	5.2 U	5 U	5 U	0.52 U	5.2 U	5 U	5 U	0.50 U
Indeno(1,2,3-cd)pyrene	0.002	ug/L	5.2 U	5 U	5 U	0.50 U	5.2 U	5 U	5 U	0.52 UJ	5.2 U	5 U	5 U	0.50 U
Naphthalene	10	ug/L	5.2 U	5 U	5 U	1.0 U	5.2 U	5 U	5 U	1.0 U	5.2 U	5 U	5 U	1.0 U
Phenanthrene	50	ug/L	5.2 U	5 UJB	5 U	0.20 U	5.2 U	5 U	5 U	0.21 U	5.2 U	5 U	5 U	0.20 U
Pyrene	50	ug/L	5.2 U	5 U	5 U	0.50 U	5.2 U	5 U	5 U	0.52 U	5.2 U	5 U	5 U	0.50 U
Total PAHs	- -	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Inorganics														
Cyanide, Total	0.2	mg/L	0.01 U	0.01 U	0.01 U	0.010 U	0.01 U	0.01 U	0.01 U	0.010 U	**0.015 J**	**0.064**	**0.09**	**0.077**

See Notes on Page 4.

Table 2
Groundwater Analytical Results
2022 First Quarter Groundwater Monitoring Report
NYSEG
Penn Yan, New York

Location ID:	NYSDEC TOGS 1.1.1 Stds. or Guidance Values	Units	PRMW-3D				PRMW-3S				PRMW-4S			
Date Collected:			05/24/21	08/24/21	11/30/21	02/25/22	05/24/21	08/24/21	11/30/21	02/25/22	05/25/21	08/23/21	11/29/21	02/25/22
BTEX														
Benzene	1	ug/L	1 U	1 U	1 U	1.0 U	1 U	1 U	1 U	1.0 U	1 U	1 U	1 U	1.0 U
Ethylbenzene	5	ug/L	1 UJ	1 U	1 U	1.0 U	1 UJ	1 U	1 U	1.0 U	1 UJ	1 U	1 U	1.0 U
Toluene	5	ug/L	1 UJ	1 U	1 U	1.0 U	1 UJ	1 U	1 U	1.0 U	1 UJ	1 U	1 U	1.0 U
Xylenes (total)	5	ug/L	2 UJ	2 U	2 U	2.0 U	2 UJ	2 U	2 U	2.0 U	2 UJ	2 U	2 U	2.0 U
Total BTEX	- -	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PAHs														
Acenaphthene	20	ug/L	5.2 U	5 U	5 U	0.52 U	5.2 U	5 U	5 U	0.51 U	5.2 U	5 U	5 U	10 U
Acenaphthylene	- -	ug/L	5.2 U	5 U	5 U	0.31 U	5.2 U	5 U	5 U	0.31 U	5.2 U	5 U	5 U	6.1 U
Anthracene	50	ug/L	5.2 U	5 U	5 U	0.52 U	5.2 U	5 U	5 U	0.51 U	5.2 U	5 U	5 U	10 U
Benzo(a)anthracene	0.002	ug/L	5.2 U	5 U	5 U	0.31 U	5.2 U	5 U	5 U	0.31 U	5.2 U	5 U	5 U	6.1 U
Benzo(a)pyrene	- -	ug/L	5.2 U	5 U	5 U	0.19 U	5.2 U	5 U	5 U	0.18 U	5.2 U	5 U	5 U	3.7 U
Benzo(b)fluoranthene	0.002	ug/L	5.2 U	5 U	5 U	0.31 U	5.2 U	5 U	5 U	0.31 U	5.2 U	5 U	5 U	6.1 U
Benzo(g,h,i)perylene	- -	ug/L	5.2 U	5 U	5 U	0.52 U	5.2 U	5 U	5 U	0.51 U	5.2 U	5 U	5 U	10 U
Benzo(k)fluoranthene	0.002	ug/L	5.2 U	5 U	5 U	0.31 U	5.2 U	5 U	5 U	0.31 U	5.2 U	5 U	5 U	6.1 U
Chrysene	0.002	ug/L	5.2 U	5 U	5 U	0.52 U	5.2 U	5 U	5 U	0.51 U	5.2 U	5 U	5 U	10 U
Dibenzo(a,h)anthracene	- -	ug/L	5.2 U	5 U	5 U	0.52 U	5.2 U	5 U	5 U	0.51 U	5.2 U	5 U	5 U	10 U
Fluoranthene	50	ug/L	5.2 U	5 U	5 U	0.52 U	5.2 U	5 U	5 U	0.51 U	5.2 U	5 U	5 U	10 U
Fluorene	50	ug/L	5.2 U	5 U	5 U	0.52 U	5.2 U	5 U	5 U	0.51 U	5.2 U	5 U	5 U	10 U
Indeno(1,2,3-cd)pyrene	0.002	ug/L	5.2 U	5 U	5 U	0.52 U	5.2 U	5 U	5 U	0.51 U	5.2 U	5 U	5 U	10 U
Naphthalene	10	ug/L	5.2 U	5 U	5 U	1.0 U	5.2 U	5 U	5 U	1.0 U	5.2 U	5 U	5 U	20 U
Phenanthrene	50	ug/L	5.2 U	5 U	5 U	0.21 U	5.2 U	5 U	5 U	0.20 U	5.2 U	5 U	5 U	4.1 U
Pyrene	50	ug/L	5.2 U	5 U	5 U	0.52 U	5.2 U	5 U	5 U	0.51 U	5.2 U	5 U	5 U	10 U
Total PAHs	- -	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Inorganics														
Cyanide, Total	0.2	mg/L	0.01 U	0.01 U	0.01 U	0.010 U	**0.011**	0.01 U	**0.27**	0.010 U	0.01 U	**0.0072 J**	0.01 U	0.010 U

See Notes on Page 4.

Table 2
Groundwater Analytical Results
2022 First Quarter Groundwater Monitoring Report
NYSEG
Penn Yan, New York

Location ID:	NYSDEC TOGS 1.1.1 Stds. or Guidance Values	Units	PRMW-5D				PRMW-5S				PRMW-6D			
Date Collected:			05/24/21	08/24/21	11/30/21	02/25/22	05/25/21	08/25/21	11/30/21	02/25/22	05/25/21	08/24/21	11/30/21	02/25/22
BTEX														
Benzene	1	ug/L	1 U	1 U	1 U	1.0 U	**23**	**21**	**27**	**14**	1 U	1 U	1 U	1.0 U
Ethylbenzene	5	ug/L	1 UJ	1 U	1 U	1.0 U	**2.4 J**	**3**	**5.9**	**3.3**	1 UJ	1 U	1 U	1.0 U
Toluene	5	ug/L	1 UJ	1 U	1 U	1.0 U	**0.75 J**	**0.9 J**	**1.6**	**0.65 J**	1 UJ	1 U	1 U	1.0 U
Xylenes (total)	5	ug/L	2 UJ	2 U	2 U	2.0 U	**4.9 J**	**3.3**	**6.6**	**2.9**	2 UJ	2 U	2 U	2.0 U
Total BTEX	- -	ug/L	ND	ND	ND	ND	**31 J**	**28 J**	**41**	**21 J**	ND	ND	ND	ND
PAHs														
Acenaphthene	20	ug/L	5.2 U	5 U	5 U	**0.055 J**	**22**	**39**	**15**	**26 D**	5.2 U	5 U	5 U	0.50 U
Acenaphthylene	- -	ug/L	5.2 U	5 U	5 U	0.30 U	**4.4 J**	**7.6**	**3.4 J**	**5.2**	5.2 U	5 U	5 U	0.30 U
Anthracene	50	ug/L	5.2 U	5 U	5 U	0.51 U	**1.5 J**	**1.6 J**	**0.52 J**	**0.73**	5.2 U	5 U	5 U	0.50 U
Benzo(a)anthracene	0.002	ug/L	5.2 U	5 U	5 U	0.30 U	5.2 U	**0.39 J**	5 U	0.32 U	5.2 U	5 U	5 U	0.30 U
Benzo(a)pyrene	- -	ug/L	5.2 U	5 U	5 U	0.18 U	5.2 U	5 U	5 U	0.19 U	5.2 U	5 U	5 U	0.18 U
Benzo(b)fluoranthene	0.002	ug/L	5.2 U	5 U	5 U	0.30 U	5.2 U	5 U	5 U	0.32 U	5.2 U	5 U	5 U	0.30 U
Benzo(g,h,i)perylene	- -	ug/L	5.2 U	5 U	5 U	0.51 U	5.2 U	5 U	5 U	0.53 U	5.2 U	5 U	5 U	0.50 U
Benzo(k)fluoranthene	0.002	ug/L	5.2 U	5 U	5 U	0.30 U	5.2 U	5 U	5 U	0.32 U	5.2 U	5 U	5 U	0.30 U
Chrysene	0.002	ug/L	5.2 U	5 U	5 U	0.51 U	5.2 U	5 U	5 U	**0.084 J**	5.2 U	5 U	5 U	0.50 U
Dibenzo(a,h)anthracene	- -	ug/L	5.2 U	5 U	5 U	0.51 U	5.2 U	5 U	5 U	0.53 U	5.2 U	5 U	5 U	0.50 U
Fluoranthene	50	ug/L	5.2 U	5 U	5 U	0.51 U	**3 J**	**5.5**	**2.1 J**	**2.5**	5.2 U	5 U	5 U	0.50 U
Fluorene	50	ug/L	5.2 U	5 U	5 U	0.51 U	**7**	**12**	**5.5**	**10**	5.2 U	5 U	5 U	0.50 U
Indeno(1,2,3-cd)pyrene	0.002	ug/L	5.2 U	5 U	5 U	0.51 U	5.2 U	5 U	5 U	0.53 U	5.2 U	5 U	5 U	0.50 U
Naphthalene	10	ug/L	5.2 U	5 U	5 U	1.0 U	**44**	**45**	**44**	**26 D**	5.2 U	5 U	5 U	1.0 U
Phenanthrene	50	ug/L	5.2 U	5 U	5 U	**0.066 J**	**8.2**	**21 B**	**5.7**	**9.8**	5.2 U	5 U	5 U	0.20 U
Pyrene	50	ug/L	5.2 U	5 U	5 U	0.51 U	**2 J**	**3.4 J**	**1.3 J**	**1.5**	5.2 U	5 U	5 U	0.50 U
Total PAHs	- -	ug/L	ND	ND	ND	**0.12 J**	**92 J**	**140 J**	**78 J**	**82 J**	ND	ND	ND	ND
Inorganics														
Cyanide, Total	0.2	mg/L	0.01 U	0.01 U	0.01 U	0.010 U	**0.016**	**0.11**	0.01 U	**0.076**	0.01 U	0.01 U	0.01 U	0.010 U

See Notes on Page 4.

Table 2
Groundwater Analytical Results
2022 First Quarter Groundwater Monitoring Report
NYSEG
Penn Yan, New York

Location ID:	NYSDEC TOGS 1.1.1 Stds. or Guidance Values	Units	PRMW-6S				TMW-1D			
Date Collected:			05/25/21	08/24/21	11/30/21	02/25/22	05/26/21	08/25/21	11/30/21	02/25/22
BTEX										
Benzene	1	ug/L	1 U	1 U	1 U	1.0 U	1 U	1 U	1 U	1.0 U
Ethylbenzene	5	ug/L	1 UJ	1 U	1 U	1.0 U	1 UJ	1 U	1 U	1.0 U
Toluene	5	ug/L	1 UJ	1 U	1 U	1.0 U	1 UJ	1 U	1 U	1.0 U
Xylenes (total)	5	ug/L	2 UJ	2 U	2 U	2.0 U	2 UJ	2 U	2 U	2.0 U
Total BTEX	- -	ug/L	ND	ND	ND	ND	ND	ND	ND	ND
PAHs										
Acenaphthene	20	ug/L	5.4 U	5 U	5 U	0.51 U	5.2 U	5 U	5 U	0.52 U
Acenaphthylene	- -	ug/L	5.4 U	5 U	5 U	0.31 U	5.2 U	5 U	5 U	0.31 U
Anthracene	50	ug/L	5.4 U	5 U	5 U	0.51 U	5.2 U	5 U	5 U	0.52 U
Benzo(a)anthracene	0.002	ug/L	5.4 U	5 U	5 U	0.31 U	5.2 U	5 U	5 U	0.31 U
Benzo(a)pyrene	- -	ug/L	5.4 U	5 U	5 U	0.18 U	5.2 U	5 U	5 U	0.19 U
Benzo(b)fluoranthene	0.002	ug/L	5.4 U	5 U	5 U	0.31 U	5.2 U	5 U	5 U	0.31 U
Benzo(g,h,i)perylene	- -	ug/L	5.4 U	5 U	5 U	0.51 U	5.2 U	5 U	5 U	0.52 U
Benzo(k)fluoranthene	0.002	ug/L	5.4 U	5 U	5 U	0.31 U	5.2 U	5 U	5 U	0.31 U
Chrysene	0.002	ug/L	5.4 U	5 U	5 U	0.51 U	5.2 U	5 U	5 U	0.52 U
Dibenzo(a,h)anthracene	- -	ug/L	5.4 U	5 U	5 U	0.51 U	5.2 U	5 U	5 U	0.52 U
Fluoranthene	50	ug/L	5.4 U	5 U	5 U	0.51 U	5.2 U	5 U	5 U	0.52 U
Fluorene	50	ug/L	5.4 U	5 U	5 U	0.51 U	5.2 U	5 U	5 U	0.52 U
Indeno(1,2,3-cd)pyrene	0.002	ug/L	5.4 U	5 U	5 U	0.51 U	5.2 U	5 U	5 U	0.52 U
Naphthalene	10	ug/L	5.4 U	5 U	5 U	1.0 U	5.2 U	5 U	5 U	1.0 U
Phenanthrene	50	ug/L	5.4 U	5 U	5 U	0.20 U	5.2 U	5 U	5 U	0.21 U
Pyrene	50	ug/L	5.4 U	5 U	5 U	0.51 U	5.2 U	5 U	5 U	0.52 U
Total PAHs	- -	ug/L	ND	ND	ND	ND	ND	ND	ND	ND
Inorganics										
Cyanide, Total	0.2	mg/L	0.01 U	0.01 U	**0.051**	0.010 U	0.01 UJ	0.01 U	0.01 U	0.010 U

Notes:

1. Samples were submitted to Eurofins TestAmerica, Buffalo, New York, for analysis using USEPA SW-846 Methods 8260B (BTEX) and 8270C (PAHs).
2. D - Concentration is based on diluted sample analysis.
3. J - The compound was positively identified; however, the associated numerical value is an estimated concentration only.
4. U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
5. B - The compound has been detected in the sample as well as its associated blank, its presence in the sample may be suspect.
6. UJ - The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.
7. NA - not analyzed.
8. ND - not detected.
9. Sample results detected above the Method Detection Limit are presented in bold font.
10. Shading indicates that the result exceeds the NYSDEC TOGS 1.1.1 Water Quality Standard or Guidance Value.
11. BTEX - Benzene, Ethylbenzene, Toluene, Xylenes.
12. NYSDEC - New York State Department of Environmental Conservation
13. PAH - Polycyclic Aromatic Hydrocarbon.
14. TOGS - Technical and Operational Guidance Series.
15. USEPA - United States Environmental Protection Agency.

Table 3
1,4-Dioxane Groundwater Analytical Results
2022 First Quarter Groundwater Monitoring Report
NYSEG
Penn Yan, New York

Location ID: / Date Collected:	NYSDEC TOGS 1.1.1 Stds. or Guidance Values	Units	PRMW-1S 02/25/22	PRMW-3S 02/25/22	PRMW-6S 02/24/22
1,4-Dioxane	0.35	µg/L	0.20 U	0.20 UBJ	0.85 UB

Notes:

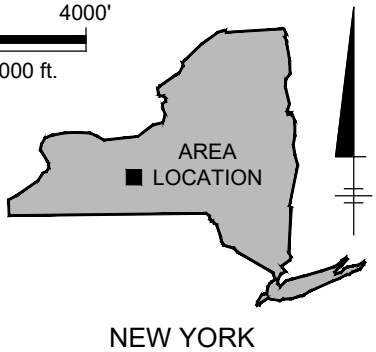
1. Samples were submitted to Eurofins TestAmerica, Buffalo, New York, for analysis using USEPA SW-846 Method 8270 SIM.
2. J - The compound was positively identified; however, the associated numerical value is an estimated concentration only.
3. UB - Compound is considered non-detect at the listed value due to associated blank contamination.
4. UJ - The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.
5. Sample results detected above the Method Detection Limit (MDL) are presented in bold font.
6. Shading indicates that the result exceeds the NYSDEC TOGS 1.1.1 Water Quality Standard or Guidance Value (2021 Addendum
7. µg/L - micrograms per liter.
8. NYSDEC - New York State Department of Environmental Conservation.
9. TOGS - Technical and Operational Guidance Series.
10. USEPA - Unites States Environmental Protection Agency.

Figures

REFERENCE: BASE MAP USGS 7.5. MIN. TOPO. QUAD., PENN YAN, NY, 2019.

0 2000' 4000'

Approximate Scale: 1 in. = 2000 ft.



NYSEG
FORMER MGP SITE
PENN YAN, NEW YORK

SITE LOCATION MAP

ARCADIS

FIGURE
1

WATER STREET

PRMW-2D

PRMW-2S

ASPHALT

TMW-1D

PRMW-1S

PRMW-3D

PRMW-3S

FORMER GAS HOUSE MULTI-STORY MASONRY

PRMW-6D

PRMW-6S

TMW-2D

PEDESTRIAN BRIDGE

PRMW-5S

PRMW-5D

OFFICE AND STORAGE BUILDING

PRMW-4S

KEUKA LAKE OUTLET

DOCK

RECREATION PATH

VILLAGE OF PENN YAN PROPERTY

LAKE STREET

NYS RTE 14A - LIBERTY STREET

LEGEND:

- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- CURRENT SITE FEATURE
- APPROXIMATE PROPERTY LINE
- APPROXIMATE SHORE LINE

NOTE:

1. ALL LOCATIONS ARE APPROXIMATE.
2. FIGURE BASED ON "MONITORING WELL LOCATION PLAN" BY AECOM, DATED SEPTEMBER 2021.

0 50' 100'

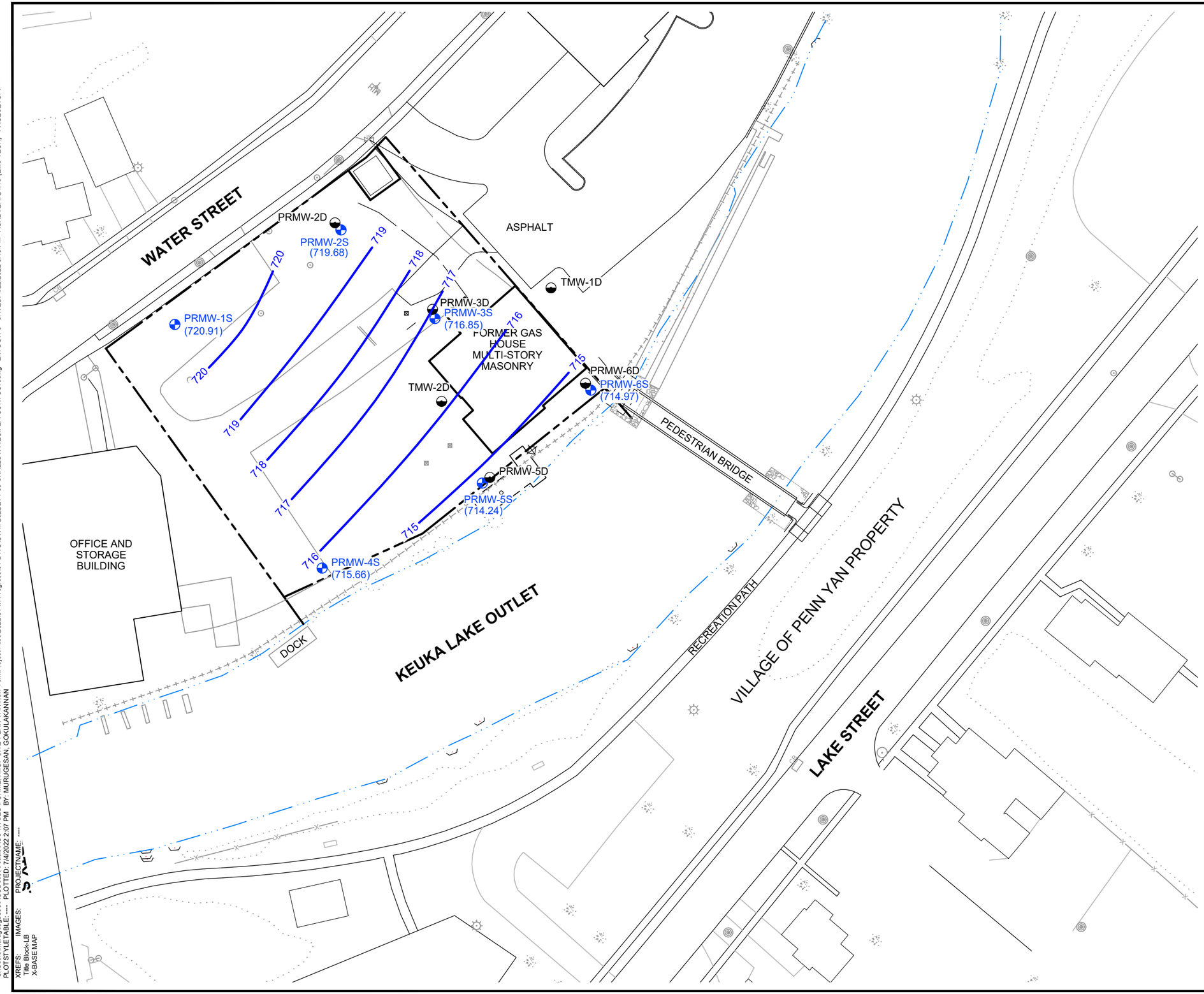
GRAPHIC SCALE

NYSEG
FORMER MGP SITE
PENN YAN, NEW YORK

SITE MAP

ARCADIS

FIGURE
2



LEGEND:

- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- CURRENT SITE FEATURE
- APPROXIMATE PROPERTY LINE
- APPROXIMATE SHORE LINE
- 720.91 GROUNDWATER ELEVATION (ASML)
- 720 GROUNDWATER CONTOUR

NOTES:

1. ALL LOCATIONS ARE APPROXIMATE.
2. FIGURE BASED ON "MONITORING WELL LOCATION PLAN" BY AECOM, DATED SEPTEMBER 2021.

0 50' 100'

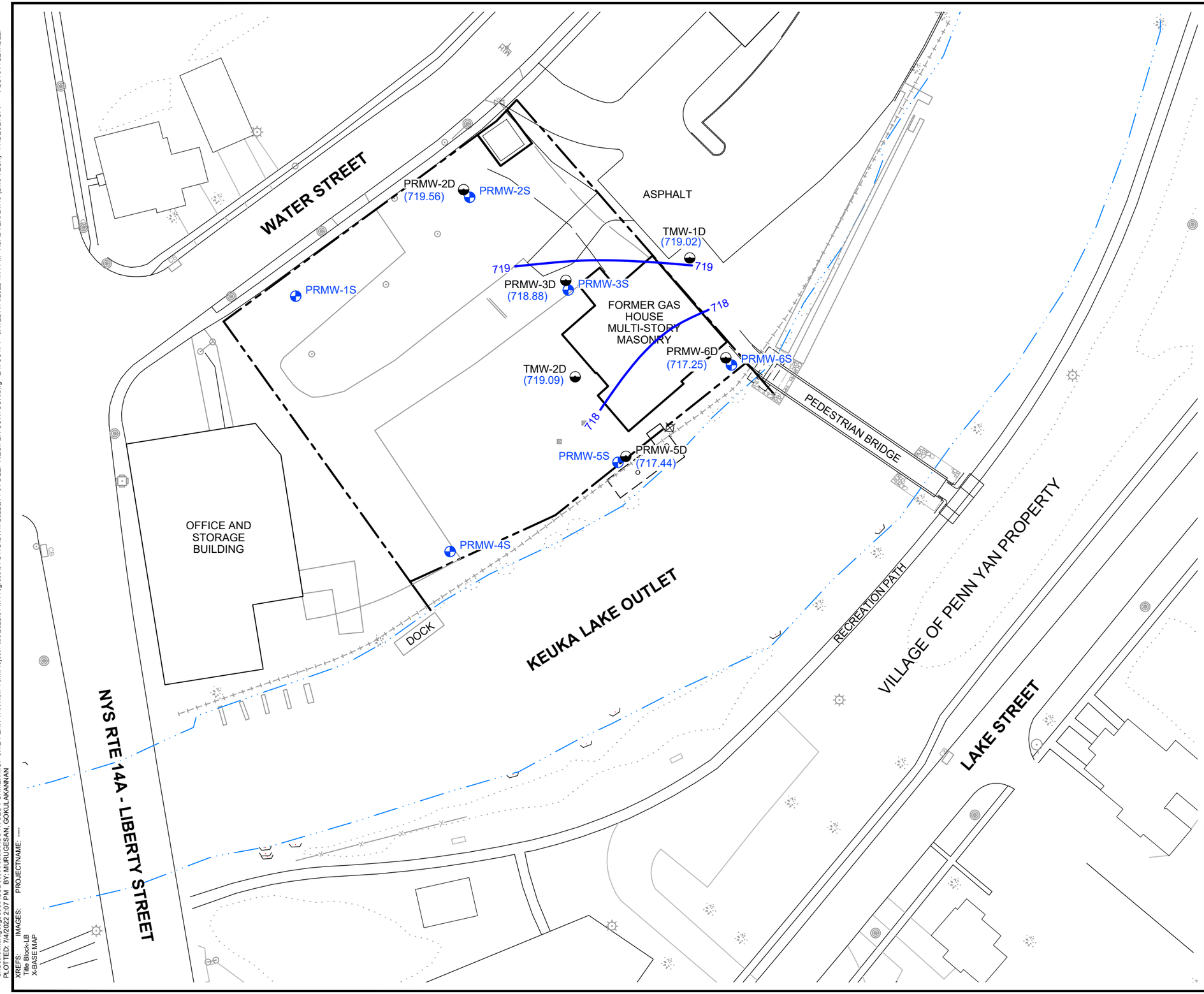
GRAPHIC SCALE

NYSEG
FORMER MGP SITE
PENN YAN, NEW YORK

SHALLOW AQUIFER GROUNDWATER CONTOUR MAP FEBRUARY 24, 2022

ARCADIS

FIGURE 3



LEGEND:

- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- CURRENT SITE FEATURE
- APPROXIMATE PROPERTY LINE
- APPROXIMATE SHORE LINE
- 719.56 GROUNDWATER ELEVATION (ASML)
- 719 GROUNDWATER CONTOUR

NOTES:

1. ALL LOCATIONS ARE APPROXIMATE.
2. FIGURE BASED ON "MONITORING WELL LOCATION PLAN" BY AECOM, DATED SEPTEMBER 2021.

0 50' 100'

GRAPHIC SCALE

NYSEG
FORMER MGP SITE
PENN YAN, NEW YORK

DEEP AQUIFER GROUNDWATER CONTOUR MAP FEBRUARY 24, 2022

ARCADIS

FIGURE 4

Attachment 1

Groundwater Sampling Logs

GROUNDWATER SAMPLING LOG

Site: Penn Yan Former MGP — *NYSEG Penn Yan, NY* — *Event: February 2022 GWS*

Sampling Personnel:	Adam Svensson / Kaitlyn Fleming	Well ID:	PRMW-15
Client / Job Number:	NYSEG / TBD	Date:	2/25/22
Weather:	28° overcast	Time In:	1130 Time Out: 1445

Well Information

Depth to Water:	10.13	(feet TIC)
Total Depth:	29.67	(feet TIC)
Length of Water Column:	19.54	(feet)
Volume of Water in Well:	3.2	(gal)
Screen Interval:	20-30	(feet)
Depth to pump Intake:	≈27'	(feet TIC)

Well Type:	(Flushmount)	Stick-Up
Well Material:	Stainless Steel	(PVC)
Well Locked:	(Yes)	No
Measuring Point Marked:	(Yes)	No
Well Diameter:	(2")	4"

Purging Information

Purging Method:	Bailer	(Peristaltic)	Grundfos	Other:
Tubing/Bailer Material:	St. Steel	(Polyethyle...)	Teflon	Other:
Sampling Method:	Bailer	(Peristaltic)	Grundfos	Other:

Duration of Pumping:	160 (min)		
Average Pumping Rate:	175 (ml/min)	Water-Quality Meter Type:	YSI/Lamotte 2020
Total Volume Removed:	4.5 (gal)	Did well go dry:	Yes (No)

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3785 ml = 0.1337 cubic feet				

Unit Stability			
pH	DO	Cond	ORP
±0.1	± 10%	± 3.0%	± 10 mV

	1	2	3	4	5	6	7	8	9	10	11	12	13
Parameter:	1150	1155	1200	1205	1210	1215	1220	1225	1230	1235	1240	1245	1250
Volume Purged (gal)	0.2	0.4	0.6	0.8	0.9	1.1	1.3	1.5	1.6	1.7	1.9	2.0	2.2
Rate (mL/min)	150	150	150	200	200	200	200	150	150	150	150	150	150
Depth to Water (ft.)	10.13	12.34	13.10	14.03	14.61	15.19	15.74	16.28	15.80	17.32	17.79	18.17	18.65
pH	6.93	6.95	6.96	6.97	6.98	7.00	7.02	7.05	7.12	7.22	7.35	7.56	8.00
Temp. (C)	12.1	12.3	12.2	12.2	12.2	12.4	12.1	12.3	12.2	12.2	12.6	12.4	12.5
Conductivity (mS/cm)	2.877	2.895	2.886	2.851	2.753	2.671	2.555	2.498	2.395	2.292	2.185	2.059	1.943
Dissolved Oxygen (mg/l)	1.55	1.35	1.29	1.26	1.25	1.24	1.26	1.28	1.36	1.46	1.59	1.70	1.87
ORP (mV)	115.2	108.4	101.4	94.8	88.8	84.2	79.9	76.0	72.3	68.0	62.5	56.1	46.3
Turbidity (NTU)	56.61	92.76	136.12	161.11	186.82	209.91	107.15	135.22	84.54	100.19	121.12	128.04	125.66
Notes:													

Sampling Information

Analyses	#	Laboratory
BTEXs	3	Buffalo-Test America
PAHs	2	Buffalo-Test America
Cyanide	1	Buffalo-Test America
1,4-Dioxane	2	Buffalo-Test America
Sample ID: PRMW-15		Sample Time: 1355
MS/MSD:	Yes	(No)
Duplicate:	Yes	(No)
Duplicate ID	—	Dup. Time: —
Chain of Custody Signed By:	AJS	

Problems / Observations

Initial Purge: pump on @ 1140, clear, petroleum odor

Final Purge: pump off @ 1420. clear, no odor

GROUNDWATER SAMPLING LOG

Site: Penn Yan Former MGP — **NYSEG Penn Yan, NY** — **Event:** February 2022 GWS

Sampling Personnel:	Adam Svensson / Kaitlyn Fleming	**Well ID:**	PRMW-15
Client / Job Number:	NYSEG / TBD	**Date:**	2/25/22
Weather:	28° overcast	**Time In:**	1130 **Time Out:** 1445

Well Information

Depth to Water:	10.13	(feet TIC)
Total Depth:	29.67	(feet TIC)
Length of Water Column:	19.54	(feet)
Volume of Water in Well:	3.2	(gal)
Screen Interval:	20-30	(feet)
Depth to pump Intake:	≈ 27'	(feet TIC)

Well Type:	(Flushmount)	Stick-Up
Well Material:	Stainless Steel	(PVC)
Well Locked:	(Yes)	No
Measuring Point Marked:	(Yes)	No
Well Diameter:	(2")	4"

Purging Information

Purging Method:	Bailer	(Peristaltic)	Grundfos	Other:
Tubing/Bailer Material:	St. Steel	(Polyethylene)	Teflon	Other:
Sampling Method:	Bailer	(Peristaltic)	Grundfos	Other:
Duration of Pumping:	160 (min)			
Average Pumping Rate:	175 (ml/min)	Water-Quality Meter Type:	YSI/Lamotte 2020	
Total Volume Removed:	4.5 (gal)	Did well go dry:	Yes	(No)

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3785 ml = 0.1337 cubic feet				

Unit Stability			
pH	DO	Cond.	ORP
±0.1	± 10%	± 3.0%	± 10 mV

	1	2	3	4	5	6	7	8	9	10	11	12	13
Parameter:	1255	1300	1305	1310	1315	1320	1325	1330	1335	1340	1345	1350	1355
Volume Purged (gal)	2.3	2.5	2.6	2.7	2.8	2.9	3.0	3.2	3.5	3.8	4.0	4.2	S
Rate (mL/min)	150	150	150	150	200	200	200	200	200	200	200	200	
Depth to Water (ft.)	19.06	19.37	19.62	20.00	2.08	20.14	20.19	20.43	20.71	21.03	21.26	21.54	A
pH	8.07	7.96	8.16	8.31	7.74	7.71	7.39	8.05	8.30	8.47	8.46	8.46	
Temp. (C)	12.8	12.8	12.9	13.1	12.9	13.3	11.9	13.0	13.0	13.0	13.0	13.0	M
Conductivity (mS/cm)	1.912	1.892	1.876	1.851	1.814	1.826	1.781	1.800	1.797	1.830	1.844	1.863	P
Dissolved Oxygen (mg/l)	1.97	2.00	1.96	1.90	1.94	1.90	1.89	1.83	2.01	2.15	2.16	2.20	
ORP (mV)	41.2	39.8	36.7	34.8	33.6	31.9	26.6	25.7	19.0	15.8	10.7	7.3	L
Turbidity (NTU)	130.35	133.05	145.8	161.20	171.64	168.94	176.42	224.61	167.02	164.61	171.20	174.3	E
Notes:													

Sampling Information

Analyses	#	Laboratory
BTEXs	3	Buffalo-Test America
PAHs	2	Buffalo-Test America
Cyanide	1	Buffalo-Test America
1,4-Dioxane	2	Buffalo-Test America
Sample ID: PRMW-15		Sample Time: 1355
MS/MSD:	Yes (No)	
Duplicate:	Yes (No)	
Duplicate ID	—	Dup. Time: —
Chain of Custody Signed By:	AJS	

Problems / Observations

Initial Purge: Pump on @1140, clear, petroleum odor

Final Purge: pump off @1420, clear, no odor

GROUNDWATER SAMPLING LOG

Site: Penn Yan Former MGP — *NYSEG Penn Yan, NY* — *Event: February 2022 GWS*

Sampling Personnel: Adam Svensson / Kaitlyn Fleming
Well ID: PRMW-25
Client / Job Number: NYSEG / TBD
Date: 2/25/22
Weather: 28° Snow
Time In: 1500 **Time Out:** 1645

Well Information

Depth to Water:	14.95	(feet TIC)
Total Depth:	23.02	(feet TIC)
Length of Water Column:	8.07	(feet)
Volume of Water in Well:	1.3	(gal)
Screen Interval:	10-20	(feet)
Depth to pump Intake:	~21'	(feet TIC)

Well Type:	Flushmount	(Stick Up)	
Well Material:	Stainless Steel	(PVC)	
Well Locked:		(Yes)	No
Measuring Point Marked:		(Yes)	No
Well Diameter:	(2")	4"	

Purging Information

Purging Method:	Bailer	(Peristaltic)	Grundfos	Other:
Tubing/Bailer Material:	St. Steel	(Polyethylene)	Teflon	Other:
Sampling Method:	Bailer	(Peristaltic)	Grundfos	Other:
Duration of Pumping:	70 (min)			
Average Pumping Rate:	200 (ml/min)	Water-Quality Meter Type:	YSI/Lamotte 2020	
Total Volume Removed:	2.0 (gal)	Did well go dry:	Yes	(No)

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3785 ml = 0.1337 cubic feet				

Unit Stability			
pH	DO	Cond.	ORP
±0.1	± 10%	± 3.0%	± 10 mV

Parameter:	1	2	3	4	5	6	7	8	9	10	11	12	13
	1515	1520	1525	1530	1535	1540	1545	1550	1555	1600			
Volume Purged (gal)	0.1	0.2	0.4	0.6	0.8	1.0	1.2	1.5	1.7	S			
Rate (mL/min)	200	200	200	200	200	200	200	200	200				
Depth to Water (ft.)	14.95	15.12	15.14	15.12	15.10	15.09	15.13	15.15	15.17	A			
pH	7.45	7.41	7.40	7.37	7.35	7.35	7.34	7.34	7.34	M			
Temp (C)	8.4	9.2	9.4	9.4	8.2	8.3	9.2	9.4	9.2	P			
Conductivity (mS/cm)	1.051	1.084	1.110	1.136	1.125	1.143	1.176	1.196	1.205	P			
Dissolved Oxygen (mg/l)	4.72	4.18	3.87	3.65	3.34	3.26	3.16	2.99	2.93	L			
ORP (mV)	76.8	83.5	82.7	81.2	79.7	79.3	78.2	76.3	75.3				
Turbidity (NTU)	20.52	11.79	15.01	21.55	12.35	11.33	10.15	10.23	10.59	E			
Notes:													

Sampling Information

Analyses	#	Laboratory
BTEXs	3	Buffalo-Test America
PAHs	2	Buffalo-Test America
Cyanide	1	Buffalo-Test America
1,4-Dioxane	0	Buffalo-Test America
Sample ID: PRMW-25		Sample Time:
MS/MSD:	Yes	(No)
Duplicate:	Yes	(No)
Duplicate ID —		Dup. Time: —
Chain of Custody Signed By: AJS		

Problems / Observations

Initial Purge: pump on @ 1510 clear, no odor

Final Purge: pump off @ 1620, clear, no odor

GROUNDWATER SAMPLING LOG

Site: Penn Yan Former MGP | **NYSEG Penn Yan, NY** | **Event:** February 2022 GWS

Sampling Personnel: Adam Svensson / Kaitlyn Fleming
Well ID: PRMW-2D
Client / Job Number: NYSEG / TBD
Date: 02/25/2022
Weather: 21° cloudy
Time In: 1410 **Time Out:** 1600

Well Information

Depth to Water:	14.99	(feet TIC)
Total Depth:	37.86	(feet TIC)
Length of Water Column:	22.87	(feet)
Volume of Water in Well:	3.72	(gal)
Screen Interval:	/	(feet)
Depth to pump Intake:		(feet TIC)

Well Type:	Flushmount	(Stick-Up)
Well Material:	Stainless Steel	(PVC)
Well Locked:	(Yes)	No
Measuring Point Marked:	(Yes)	No
Well Diameter:	(2")	4"

Purging Information

Purging Method:	Bailer	(Peristaltic)	Grundfos	Other:
Tubing/Bailer Material:	St. Steel	(Polyethylene)	Teflon	Other:
Sampling Method:	Bailer	(Peristaltic)	Grundfos	Other:
Duration of Pumping:	120 (min)			
Average Pumping Rate:	150 (ml/min)	Water-Quality Meter Type:	YSI/Lamotte 2020	
Total Volume Removed:	2.0 (gal)	Did well go dry:	Yes	(No)

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3785 ml = 0.1337 cubic feet				

Unit Stability			
pH	DO	Cond	ORP
±0.1	± 10%	± 3.0%	± 10 mV

Parameter:	1	2	3	4	5	6	7	8	9	10	11	12	13
	1420	1425	1430	1435	1440	1445	1450	1455	1450	1455	1500		
Volume Purged (gal)			0.5			1.0			1.5		SAMPLE		
Rate (mL/min)	150	150	150	150	150	150	150	150	150	150			
Depth to Water (ft.)	16.68	16.68	18.8	18.8	18.8	21.0	21.0	21.0	23.61	23.61			
pH	9.13	9.12	9.12	9.12	9.11	9.11	9.11	9.11	9.11	9.11			
Temp. (C)	10.9	10.6	10.7	10.6	11.0	10.8	10.8	10.7	10.5	10.6			
Conductivity (mS/cm)	0.407	0.406	0.407	0.406	0.407	0.406	0.406	0.408	0.407	0.407			
Dissolved Oxygen (mg/l)	7.59	7.52	7.49	7.46	7.44	7.42	7.39	7.34	7.33	7.33			
ORP (mV)	183.4	188.3	190.8	192.7	193.9	195.2	196.4	196.5	197.1	197.4			
Turbidity (NTU)	10.43	9.48	8.18	8.71	8.22	8.71	8.33	8.32	8.31	8.30			
Notes:													

Sampling Information

Analyses	#	Laboratory
BTEXs	9	Buffalo-Test America
PAHs	6	Buffalo-Test America
Cyanide	3	Buffalo-Test America
1,4-Dioxane	0	Buffalo-Test America
Sample ID: PRMW-2D		Sample Time: 1500
MS/MSD:	(Yes)	No
Duplicate:	Yes	(No)
Duplicate ID	—	Dup. Time: —
Chain of Custody Signed By:	Adam S	

Problems / Observations

Initial Purge:

Pump on @ 1415
clear, no odor

Final Purge:

Pump off @ 1600
clear, no odor

GROUNDWATER SAMPLING LOG

Site: Penn Yan Former MGP — **NYSEG Penn Yan, NY** — **Event:** February 2022 GWS

Sampling Personnel:	Adam Svensson / Kaitlyn Fleming	**Well ID:**	PRMW-35
Client / Job Number:	NYSEG / TBD	**Date:**	02/25/2022
Weather:	Cloudy / snowing, 25°	**Time In:**	0945 **Time Out:** 1230

Well Information

Depth to Water:	6.71	(feet TIC)
Total Depth:	22.85	(feet TIC)
Length of Water Column:	16.14	(feet)
Volume of Water in Well:	2.63	(gal)
Screen Interval:		(feet)
Depth to pump Intake:		(feet TIC)

Well Type:	Flushmount	(Stick-Up)
Well Material:	Stainless Steel	(PVC)
Well Locked:	(Yes)	No
Measuring Point Marked:	(Yes)	No
Well Diameter:	(2")	4"

Purging Information

Purging Method:	Bailer	(Peristaltic)	Grundfos	Other:
Tubing/Bailer Material:	St. Steel	(Polyethylene)	Teflon	Other:
Sampling Method:	Bailer	(Peristaltic)	Grundfos	Other:
Duration of Pumping:	150 (min)			
Average Pumping Rate:	160 (ml/min)	Water-Quality Meter Type:	YSI/Lamotte 2020	
Total Volume Removed:	5.0 (gal)	Did well go dry:	Yes	(No)

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L = 3785 ml = 0.1337 cubic feet				

Unit Stability			
pH	DO	Cond.	ORP
±0.1	± 10%	± 3.0%	± 10 mV

	1	2	3	4	5	6	7	8	9	10	11	12	13
Parameter:	0955	1000	1005	1010	1015	1020	1025	1030	1035	1040	1045	1050	1055
Volume Purged (gal)	0.5				1.0				2.0			2.5	
Rate (mL/min)	160	160	160	160	160	160	160	160	160	160	160	160	160
Depth to Water (ft.)	6.71	6.71	7.73	7.73	7.89	7.89	7.89	7.89	8.14	8.14	8.14	8.14	8.14
pH	7.32	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.27	7.28
Temp. (C)	8.1	8.1	8.1	8.1	8.1	8.2	8.4	8.4	8.5	8.1	8.2	8.3	8.3
Conductivity (mS/cm)	0.802	0.800	0.800	0.799	0.798	0.794	0.792	0.791	0.791	0.791	0.786	0.786	0.788
Dissolved Oxygen (mg/l)	2.42	2.01	1.81	1.64	1.51	1.36	1.31	1.21	1.28	1.18	1.13	1.05	1.10
ORP (mV)	234.9	229.5	221.1	214.3	208.3	201.0	195.6	189.0	184.2	181.7	178.3	174.8	173.9
Turbidity (NTU)	17.82	16.95	19.37	25.11	30.72	36.11	38.85	31.37	33.58	35.97	43.21	37.97	28.77
Notes:													

Sampling Information

Analyses	#	Laboratory
BTEXs	3	Buffalo-Test America
PAHs	2	Buffalo-Test America
Cyanide	1	Buffalo-Test America
1,4-Dioxane	2	Buffalo-Test America
Sample ID: PRMW-35		Sample Time: 1145
MS/MSD:	Yes	(No)
Duplicate:	Yes	(No)
Duplicate ID		Dup. Time:
Chain of Custody Signed By:	Adam S	

Problems / Observations

Initial Purge:

Pump on @ 0950

clear, no odor

Final Purge:

Pump off @ 1220

clear, no odor

GROUNDWATER SAMPLING LOG

Site: Penn Yan Former MGP | **NYSEG Penn Yan, NY** | **Event:** February 2022 GWS

Sampling Personnel:	Adam Svensson / Kaitlyn Fleming	**Well ID:**	PRMW-35
Client / Job Number:	NYSEG / TBD	**Date:**	02/25/2022
Weather:	cloudy / snowing, 25°	**Time In:**	0945 **Time Out:**

Well Information

Depth to Water:	(feet TIC)
Total Depth:	(feet TIC)
Length of Water Column:	(feet)
Volume of Water in Well:	(gal)
Screen Interval:	(feet)
Depth to pump Intake:	(feet TIC)

Well Type:	Flushmount	Stick-Up
Well Material:	Stainless Steel	PVC
Well Locked:	Yes	No
Measuring Point Marked:	Yes	No
Well Diameter:	2"	4"

Purging Information

Purging Method:	Bailer	(Peristaltic)	Grundfos	Other:
Tubing/Bailer Material:	St. Steel	(Polyethylene)	Teflon	Other:
Sampling Method:	Bailer	(Peristaltic)	Grundfos	Other:
Duration of Pumping:	(min)			
Average Pumping Rate:	(ml/min)	Water-Quality Meter Type:	YSI/Lamotte 2020	
Total Volume Removed:	(gal)	Did well go dry:	Yes	(No)

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3785 ml = 0.1337 cubic feet				

Unit Stability			
pH	DO	Cond.	ORP
±0.1	± 10%	± 3.0%	± 10 mV

	1	2	3	4	5	6	7	8	9	10	11	12	13
Parameter:	1100	1105	1110	1115	1120	1125	1130	1135	1140	1145			
Volume Purged (gal)		3.0			3.5			4.0		S			
Rate (mL/min)	160	160	160	160	160	160	160	160	160	A			
Depth to Water (ft.)	8.31	8.31	8.31	8.31	8.31	8.43	8.43	8.43	8.43	M			
pH	7.28	7.28	7.29	7.28	7.28	7.28	7.28	7.29	7.27	P			
Temp. (C)	8.1	7.8	7.8	7.7	7.6	7.5	7.5	6.6	6.7	L			
Conductivity (mS/cm)	0.788	0.783	0.783	0.784	0.784	0.779	0.780	0.783	0.780	E			
Dissolved Oxygen (mg/l)	1.16	1.05	1.09	1.00	0.98	1.00	0.95	0.97	0.96	|			
ORP (mV)	173.0	170.0	173.4	171.9	167.6	168.8	168.5	166.4	165.8	|			
Turbidity (NTU)	8.31	12.85	6.12	6.61	9.12	12.61	16.98	16.95	16.97	V			
Notes:													

Sampling Information

Analyses	#	Laboratory
BTEXs	6	Buffalo-Test America
PAHs	4	Buffalo-Test America
Cyanide	2	Buffalo-Test America
1,4-Dioxane	8	Buffalo-Test America
Sample ID: PRMW-35		Sample Time: 1145
MS/MSD:	(Yes)	No
Duplicate:	(Yes)	No
Duplicate ID DUP-20220225-2		Dup. Time: 1145
Chain of Custody Signed By: Adam S		

Problems / Observations

Initial Purge:

Final Purge:

GROUNDWATER SAMPLING LOG

Site: Penn Yan Former MGP | **NYSEG Penn Yan, NY** | **Event:** February 2022 GWS

Sampling Personnel:	Adam Svensson / Kaitlyn Fleming	**Well ID:**	PRMW-3D
Client / Job Number:	NYSEG / TBD	**Date:**	02/25/2022
Weather:	cloudy / snowing 20°	**Time In:**	1235 **Time Out:** 1400

Well Information

Depth to Water:	4.72	(feet TIC)
Total Depth:	35.90	(feet TIC)
Length of Water Column:	31.18	(feet)
Volume of Water in Well:	5.08	(gal)
Screen Interval:	/	(feet)
Depth to pump intake:		(feet TIC)

Well Type:	Flushmount	(Stick-Up)
Well Material:	Stainless Steel	(PVC)
Well Locked:	(Yes)	No
Measuring Point Marked:	(Yes)	No
Well Diameter:	(2")	4"

Purging Information

Purging Method:	Bailer	(Peristaltic)	Grundfos	Other:
Tubing/Bailer Material:	St. Steel	(Polyethylene)	Teflon	Other:
Sampling Method:	Bailer	(Peristaltic)	Grundfos	Other:
Duration of Pumping:	75 (min)			
Average Pumping Rate:	175 (ml/min)	Water-Quality Meter Type:	YSI/Lamotte 2020	
Total Volume Removed:	2.0 (gal)	Did well go dry:	Yes	(No)

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L = 3785 ml = 0.1337 cubic feet				

Unit Stability			
pH	DO	Cond.	ORP
±0.1	± 10%	± 3.0%	± 10 mV

Parameter:	1	2	3	4	5	6	7	8	9	10	11	12	13
	1245	1250	1255	1300	1305	1310	1315	1320	1325	1330			
Volume Purged (gal)			1.0			1.5			2.0	S			
Rate (mL/min)	175	175	175	175	175	175	175	175	175	A			
Depth to Water (ft.)	6.5	6.5	6.5	6.5	7.02	7.02	7.21	7.21	7.21	M			
pH	7.68	7.66	7.65	7.65	7.65	7.65	7.65	7.65	7.65	P			
Temp. (C)	6.4	6.6	7.1	7.1	7.5	7.5	8.3	8.1	8.2	L			
Conductivity (mS/cm)	0.483	0.485	0.486	0.485	0.487	0.485	0.485	0.485	0.484	E			
Dissolved Oxygen (mg/l)	0.79	0.68	0.63	0.59	0.57	0.55	0.53	0.54	0.53	↓			
ORP (mV)	25.3	-7.4	-18.7	-29.0	-32.9	-36.5	-39.8	-38.5	-41.9				
Turbidity (NTU)	10.37	10.78	9.87	7.97	8.72	8.25	8.99	8.26	8.27				
Notes:													

Sampling Information

Analyses	#	Laboratory
BTEXs	3	Buffalo-Test America
PAHs	2	Buffalo-Test America
Cyanide	1	Buffalo-Test America
1,4-Dioxane	(3)	Buffalo-Test America
Sample ID: PRMW-3D		Sample Time: 1330
MS/MSD:	Yes	(No)
Duplicate:	Yes	(No)
Duplicate ID	—	Dup. Time: —
Chain of Custody Signed By:	Adam S	

Problems / Observations

Initial Purge:

Pump on @ 1235
clear, no odor

Final Purge:

Pump off @ 1350
clear, no odor

GROUNDWATER SAMPLING LOG

Site: Penn Yan Former MGP | **NYSEG Penn Yan, NY** | **Event:** February 2022 GWS

Sampling Personnel:	Adam Svensson / Kaitlyn Fleming	**Well ID:**	PRMW-45
Client / Job Number:	NYSEG / TBD	**Date:**	2/25/22
Weather:	28° light rain	**Time In:** 0800	**Time Out:** 1100

Well Information

Depth to Water:	6.12	(feet TIC)
Total Depth:	27.09	(feet TIC)
Length of Water Column:	20.97	(feet)
Volume of Water in Well:	3.4	(gal)
Screen Interval:	14-24	(feet)
Depth to pump intake:	≈25'	(feet TIC)

Well Type:	Flushmount	(Stick-Up)	
Well Material:	Stainless Steel	(PVC)	
Well Locked:	(Yes)	No	
Measuring Point Marked:	(Yes)	No	
Well Diameter:	(2")	4"	

Purging Information

Purging Method:	Bailer	(Peristaltic)	Grundfos	Other:
Tubing/Bailer Material:	St. Steel	(Polyethylene)	Teflon	Other:
Sampling Method:	Bailer	(Peristaltic)	Grundfos	Other:

Duration of Pumping:	120	(min)		
Average Pumping Rate:	200	(ml/min)	Water-Quality Meter Type:	YSI/Lamotte 2020
Total Volume Removed:	4.0	(gal)	Did well go dry: Yes	(No)

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3785 ml = 0.1337 cubic feet				

Unit Stability			
pH	DO	Cond.	ORP
±0.1	± 10%	± 3.0%	± 10 mV

Parameter:	1	2	3	4	5	6	7	8	9	10	11	12	13
	0825	0830	0835	0840	0845	0850	0855	0900	0905	0910	0915	0920	0925
Volume Purged (gal)	0.1	0.4	0.6	0.8	1.1	1.3	1.5	1.6	1.8	2.1	2.3	2.5	2.7
Rate (mL/min)	200	200	200	200	200	200	200	200	200	200	200	200	200
Depth to Water (ft.)	6.12	7.19	7.31	7.45	7.47	7.49	7.46	7.43	7.39	7.34	7.29	7.29	7.29
pH	7.41	7.40	7.39	7.37	7.36	7.34	7.32	7.31	7.30	7.29	7.27	7.26	7.25
Temp. (C)	7.7	7.7	7.7	7.9	7.9	8.1	8.2	8.0	8.2	8.1	8.2	8.2	8.5
Conductivity (mS/cm)	0.530	0.532	0.532	0.544	0.568	0.591	0.612	0.636	0.664	0.682	0.703	0.727	0.757
Dissolved Oxygen (mg/l)	2.09	1.85	1.64	1.57	1.54	1.51	1.47	1.47	1.45	1.45	1.43	1.43	1.41
ORP (mV)	123.0	118.8	111.8	105.9	101.2	96.8	91.4	85.7	82.1	77.8	74.3	71.1	66.9
Turbidity (NTU)	60.23	61.37	62.62	62.24	51.29	50.45	47.19	44.15	43.43	42.09	42.81	42.73	43.74
Notes:													

Sampling Information

Analyses	#	Laboratory
BTEXs	3	Buffalo-Test America
PAHs	2	Buffalo-Test America
Cyanide	1	Buffalo-Test America
1,4-Dioxane	0	Buffalo-Test America
Sample ID: PRMW-45		Sample Time: 1000
MS/MSD:	Yes	(No)
Duplicate:	Yes	(No)
Duplicate ID —		Dup. Time: —
Chain of Custody Signed By:	AJS	

Problems / Observations

Initial Purge: pump on @ 0820, clear, no odor, orange tint

Final Purge: pump off @ 1020, clear, no odor

GROUNDWATER SAMPLING LOG

Site: Penn Yan Former MGP — **NYSEG Penn Yan, NY** — **Event:** February 2022 GWS

Sampling Personnel:	Adam Svensson / Kaitlyn Fleming	**Well ID:**	PRMW-45
Client / Job Number:	NYSEG / TBD	**Date:**	2/25/22
Weather:	28° light rain	**Time In:**	0800 **Time Out:** 1100

Well Information

Depth to Water:	6.12	(feet TIC)
Total Depth:	27.09	(feet TIC)
Length of Water Column:	20.97	(feet)
Volume of Water in Well:	3.4	(gal)
Screen Interval:	14-24	(feet)
Depth to pump intake:	≈25'	(feet TIC)

Well Type:	Flushmount	(Stick-Up)	
Well Material:	Stainless Steel	(PVC)	
Well Locked:	(Yes)	No	
Measuring Point Marked:	(Yes)	No	
Well Diameter:	(2")	4"	

Purging Information

Purging Method:	Bailer	(Peristaltic)	Grundfos	Other:
Tubing/Bailer Material:	St. Steel	(Polyethylene)	Teflon	Other:
Sampling Method:	Bailer	(Peristaltic)	Grundfos	Other:

Duration of Pumping:	120	(min)			
Average Pumping Rate:	200	(ml/min)	Water-Quality Meter Type:	YSI/Lamotte 2020	
Total Volume Removed:	4.0	(gal)	Did well go dry:	Yes	(No)

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3785 ml = 0.1337 cubic feet				

Unit Stability			
pH	DO	Cond.	ORP
±0.1	± 10%	± 3.0%	± 10 mV

Parameter:	1	2	3	4	5	6	7	8	9	10	11	12	13
	0930	0935	0940	0945	0950	0955	1000						
Volume Purged (gal)	2.8	2.9	3.1	3.2	3.4	3.5	S						
Rate (mL/min)	200	200	200	200	200	200							
Depth to Water (ft.)	7.30	7.31	7.32	7.33	7.34	7.35	A						
pH	7.24	7.23	7.21	7.20	7.21	7.20	m						
Temp. (C)	8.7	8.9	8.8	9.6	9.8	9.9	p						
Conductivity (mS/cm)	0.775	0.791	0.806	0.840	0.850	0.861							
Dissolved Oxygen (mg/l)	1.39	1.38	1.37	1.32	1.31	1.31	L						
ORP (mV)	63.8	61.3	58.0	55.3	54.8	51.4							
Turbidity (NTU)	46.98	48.16	49.89	53.63	55.29	57.77	E						
Notes:													

Sampling Information

Analyses	#	Laboratory
BTEXs	3	Buffalo-Test America
PAHs	2	Buffalo-Test America
Cyanide	1	Buffalo-Test America
1,4-Dioxane	0	Buffalo-Test America
Sample ID: PRMW-45		Sample Time: 1000
MS/MSD:	Yes (No)	
Duplicate:	Yes (No)	
Duplicate ID —		Dup. Time: —
Chain of Custody Signed By: AJS		

Problems / Observations

Initial Purge: pump on @ 0820, clear, no odor, orange tint

Final Purge: pump off @ 1020, clear, no odor

GROUNDWATER SAMPLING LOG

Site: Penn Yan Former MGP | **NYSEG Penn Yan, NY** | **Event:** February 2022 GWS

Sampling Personnel:	Adam Svensson / Kaitlyn Fleming	**Well ID:**	PRMW-55
Client / Job Number:	NYSEG / TBD	**Date:**	2/24/22
Weather:	Sunny, 27°	**Time In:**	12:20 **Time Out:** 1430

Well Information

Depth to Water:	6.48	(feet TIC)
Total Depth:	22.61	(feet TIC)
Length of Water Column:	16.13	(feet)
Volume of Water in Well:	2.62	(gal)
Screen Interval:	—	(feet)
Depth to pump intake:		(feet TIC)

Well Type:	Flushmount	(Stick-Up)	
Well Material:	Stainless Steel	(PVC)	
Well Locked:	(Yes)	No	
Measuring Point Marked:	(Yes)	No	
Well Diameter:	(2")	4"	

Purging Information

Purging Method:	Bailer	(Peristaltic)	Grundfos	Other:
Tubing/Bailer Material:	St. Steel	(Polyethylene)	Teflon	Other:
Sampling Method:	Bailer	(Peristaltic)	Grundfos	Other:

Duration of Pumping:	120	(min)		
Average Pumping Rate:	150	(ml/min)	Water-Quality Meter Type:	YSI/Lamotte 2020
Total Volume Removed:	4.0	(gal)	Did well go dry: Yes	(No)

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3785 ml = 0.1337 cubic feet				

Unit Stability			
pH	DO	Cond	ORP
±0.1	± 10%	± 3.0%	± 10 mV

Parameter:	1 [redacted]	2 1245	3 1250	4 1255	5 1300	6 1305	7 1310	8 1315	9 1320	10 1325	11 1330	12 1335	13 1340
Volume Purged (gal)	0.5			1.0			1.5			2.0			2.5
Rate (mL/min)	150	150	150	150	150	150	150	150	150	150	150	150	150
Depth to Water (ft.)	6.68	6.68	6.68	6.68	6.68	6.68	6.68	6.68	6.68	6.71	6.71	6.71	6.71
pH	7.35	7.33	7.33	7.34	7.34	7.34	7.34	7.34	7.34	7.35	7.36	7.35	7.35
Temp. (C)	8.0	8.3	8.1	8.0	8.0	8.2	8.4	8.3	8.4	8.4	8.3	8.4	8.5
Conductivity (mS/cm)	0.634	0.636	0.637	0.639	0.640	0.642	0.643	0.645	0.647	0.649	0.650	0.651	0.652
Dissolved Oxygen (mg/l)	1.12	0.94	0.88	0.86	0.83	0.81	0.79	0.77	0.75	0.97	1.05	0.90	0.76
ORP (mV)	25.6	8.6	-2.4	-12.9	-19.9	-26.4	-31.4	-37.5	-41.5	-41.9	-42.3	-47.1	-50.1
Turbidity (NTU)	41.63	32.41	27.19	24.03	[redacted]	18.42	17.17	15.81	14.20	15.75	8.27	8.07	7.07
Notes:													

Sampling Information

Analyses	#	Laboratory
BTEXs	3	Buffalo-Test America
PAHs	2	Buffalo-Test America
Cyanide	1	Buffalo-Test America
1,4-Dioxane	0	Buffalo-Test America
Sample ID: PRMW-55		Sample Time: 1415
MS/MSD:	Yes (No)	
Duplicate:	Yes (No)	
Duplicate ID: —		Dup. Time: —
Chain of Custody Signed By: Adam S		

Problems / Observations

Initial Purge:

Pump on @ 1230

clear, no odor

Final Purge:

Pump off @ 1430

GROUNDWATER SAMPLING LOG

Site: Penn Yan Former MGP | *NYSEG Penn Yan, NY* | *Event: February 2022 GWS*

Sampling Personnel:	Adam Svensson / Kaitlyn Fleming	**Well ID:**	PRMW-55
Client / Job Number:	NYSEG / TBD	**Date:**	02/24/2022
Weather:	Sunny, 27°	**Time In:**	1220 **Time Out:**

Well Information

Depth to Water:	(feet TIC)
Total Depth:	(feet TIC)
Length of Water Column:	(feet)
Volume of Water in Well:	(gal)
Screen Interval:	(feet)
Depth to pump Intake:	(feet TIC)

Well Type:	Flushmount	Stick-Up
Well Material:	Stainless Steel	PVC
Well Locked:	Yes	No
Measuring Point Marked:	Yes	No
Well Diameter:	2"	4"

Purging Information

Purging Method:	Bailer	Peristaltic	Grundfos	Other:
Tubing/Bailer Material:	St. Steel	Polyethylene	Teflon	Other:
Sampling Method:	Bailer	Peristaltic	Grundfos	Other:
Duration of Pumping:	(min)			
Average Pumping Rate:	(ml/min)	Water-Quality Meter Type:	YSI/Lamotte 2020	
Total Volume Removed:	(gal)	Did well go dry:	Yes	No

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3785 ml = 0.1337 cubic feet				

Unit Stability			
pH	DO	Cond.	ORP
±0.1	± 10%	± 3.0%	± 10 mV

Parameter:	1	2	3	4	5	6	7	8	9	10	11	12	13
	1345	1350	1355	1400	1405	1410	1415						
Volume Purged (gal)			3.5										
Rate (mL/min)	150	150	150	150	150	150	S						
Depth to Water (ft.)	6.71	6.71	6.71	6.71	6.77	6.77	A						
pH	7.35	7.35	7.35	7.35	7.35	7.35	M						
Temp. (C)	8.4	8.2	8.4	8.3	8.4	8.5	P						
Conductivity (mS/cm)	0.656	0.659	0.657	0.661	0.662	0.662	L						
Dissolved Oxygen (mg/l)	0.71	0.68	0.67	0.66	0.65	0.64	E						
ORP (mV)	-52.3	-54.8	-56.5	-57.4	-58.9	-60.6	↓						
Turbidity (NTU)	5.77	5.10	4.19	3.73	3.74	3.73	↓						
Notes:													

Sampling Information

Analyses	#	Laboratory
BTEXs		Buffalo-Test America
PAHs		Buffalo-Test America
Cyanide		Buffalo-Test America
1,4-Dioxane		Buffalo-Test America
Sample ID: PRMW-55		Sample Time: 1415
MS/MSD:	Yes (No)	
Duplicate:	Yes (No)	
Duplicate ID: —		Dup. Time: —
Chain of Custody Signed By:	Adam S	

Problems / Observations

Initial Purge:

Final Purge:

GROUNDWATER SAMPLING LOG

Site: Penn Yan Former MGP — **NYSEG Penn Yan, NY** — **Event:** February 2022 GWS

Sampling Personnel:	Adam Svensson / Kaitlyn Fleming	**Well ID:**	PRMW-5D
Client / Job Number:	NYSEG / TBD	**Date:**	02/24/2022
Weather:	Sunny, 27°	**Time In:**	1440 **Time Out:** 1715

Well Information

Depth to Water:	2.88	(feet TIC)
Total Depth:	32.54	(feet TIC)
Length of Water Column:	29.66	(feet)
Volume of Water in Well:	4.83	(gal)
Screen Interval:		(feet)
Depth to pump intake:		(feet TIC)

Well Type:	Flushmount	(Stick-Up)	
Well Material:	Stainless Steel	(PVC)	
Well Locked:	(Yes)	No	
Measuring Point Marked:	(Yes)	No	
Well Diameter:	(2")	4"	

Purging Information

Purging Method:	Bailer	(Peristaltic)	Grundfos	Other:
Tubing/Bailer Material:	St. Steel	(Polyethylene)	Teflon	Other:
Sampling Method:	Bailer	(Peristaltic)	Grundfos	Other:

Duration of Pumping:	125	(min)		
Average Pumping Rate:	150	(ml/min)	Water-Quality Meter Type:	YSI/Lamotte 2020
Total Volume Removed:	~ 10	(gal)	Did well go dry:	Yes (No)

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L = 3785 ml = 0.1337 cubic feet				

Unit Stability			
pH	DO	Cond.	ORP
±0.1	± 10%	± 3.0%	± 10 mV

Parameter:	1	2	3	4	5	6	7	8	9	10	11	12	13
	1455	1515	1530	1535	1540	1545	1550	1555	1600	1605	1610	1615	1620
Volume Purged (gal)	0.5			2.0				3.0					
Rate (mL/min)	150	150	150	150	150	150	150	150	150	150	150	150	150
Depth to Water (ft.)	2.88	2.88	5.97	5.97	6.74	6.74	7.14	7.14	7.14	7.14	7.48	7.48	7.48
pH	7.78	7.72	7.71	7.72	7.72	7.71	7.71	7.72	7.72	7.72	7.71	7.71	7.73
Temp. (C)	7.2	9.2	9.0	9.2	9.0	9.9	9.8	8.6	8.7	8.8	9.9	10.0	8.0
Conductivity (mS/cm)	0.458	0.455	0.455	0.453	0.454	0.457	0.456	0.452	0.451	0.451	0.456	0.457	0.442
Dissolved Oxygen (mg/l)	3.75	0.66	0.72	0.61	0.59	0.54	0.52	0.57	0.57	0.57	0.50	0.48	0.80
ORP (mV)	-99.5	-117.1	-114.7	-115.9	-117.4	-125.9	-128.2	-118.0	-116.3	-116.7	-129.7	-133.6	-105.8
Turbidity (NTU)	47.50	89.81	129.50	72.47	84.25	225.44	264.42	55.23	53.13	58.28	427.35	1122.6	55.22
Notes:	YSI leaking, had to fix →	*	YSI fixed										

Sampling Information

Analyses	#	Laboratory
BTEXs	3	Buffalo-Test America
PAHs	2	Buffalo-Test America
Cyanide	1	Buffalo-Test America
1,4-Dioxane	2	Buffalo-Test America
Sample ID: PRMW-5D		Sample Time: 1640
MS/MSD:	Yes (No)	
Duplicate:	Yes (No)	
Duplicate ID		Dup. Time:
Chain of Custody Signed By:	Adam S	

Problems / Observations

Initial Purge:

Pump on @ 1445

clear, no odor

Final Purge:

Pump off @ 1715

turbid, no odor

GROUNDWATER SAMPLING LOG

Site: Penn Yan Former MGP | **NYSEG Penn Yan, NY** | **Event:** February 2022 GWS

Sampling Personnel:	Adam Svensson / Kaitlyn Fleming	**Well ID:**	PRMW-5D
Client / Job Number:	NYSEG / TBD	**Date:**	02/24/2022
Weather:	Sunny, 27°	**Time In:**	1440 **Time Out:**

Well Information

Depth to Water:	(feet TIC)
Total Depth:	(feet TIC)
Length of Water Column:	(feet)
Volume of Water in Well:	(gal)
Screen Interval:	(feet)
Depth to pump Intake:	(feet TIC)

Well Type:	Flushmount	Stick-Up
Well Material:	Stainless Steel	PVC
Well Locked:	Yes	No
Measuring Point Marked:	Yes	No
Well Diameter:	2"	4"

Purging Information

Purging Method:	Bailer	Peristaltic	Grundfos	Other:
Tubing/Bailer Material:	St. Steel	Polyethylene	Teflon	Other:
Sampling Method:	Bailer	Peristaltic	Grundfos	Other:
Duration of Pumping:	(min)			
Average Pumping Rate:	(mL/min)	Water-Quality Meter Type:	YSI/Lamotte 2020	
Total Volume Removed:	(gal)	Did well go dry:	Yes	No

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3785 ml = 0.1337 cubic feet				

Unit Stability			
pH	DO	Cond	ORP
±0.1	± 10%	± 3.0%	± 10 mV

Parameter:	1	2	3	4	5	6	7	8	9	10	11	12	13
	1625	1630	1635	1640									
Volume Purged (gal)													
Rate (mL/min)	150	150	150	~~150~~									
Depth to Water (ft.)	7.48	7.48	7.48	S									
pH	7.73	7.73	7.73	A									
Temp. (C)	8.1	8.1	7.8	M									
Conductivity (mS/cm)	0.442	0.443	0.442	P									
Dissolved Oxygen (mg/l)	0.75	0.74	0.75	L									
ORP (mV)	-104.5	-104.0	-101.1	E									
Turbidity (NTU)	41.58	39.67	38.37	↓									
Notes:				Turbidity high									

Sampling Information

Analyses	#	Laboratory
BTEXs		Buffalo-Test America
PAHs		Buffalo-Test America
Cyanide		Buffalo-Test America
1,4-Dioxane		Buffalo-Test America
Sample ID:		Sample Time:
MS/MSD:	Yes	(No)
Duplicate:	Yes	(No)
Duplicate ID	—	Dup. Time: —
Chain of Custody Signed By:	Adam S	

Problems / Observations

Initial Purge:

Final Purge:

GROUNDWATER SAMPLING LOG

Site: Penn Yan Former MGP | **NYSEG Penn Yan, NY** | **Event:** February 2022 GWS

Sampling Personnel:	Adam Svensson / Kaitlyn Fleming	**Well ID:**	PRMW-65
Client / Job Number:	NYSEG / TBD	**Date:**	2/24/22
Weather:	21° Sunny	**Time In:**	1510 **Time Out:** 1740

Well Information

Depth to Water:	6.45	(feet TIC)
Total Depth:	23.05	(feet TIC)
Length of Water Column:	16.6	(feet)
Volume of Water in Well:	2.7	(gal)
Screen Interval:	10-20	(feet)
Depth to pump Intake:	≈ 21'	(feet TIC)

Well Type:	Flushmount	(Stick-Up)	
Well Material:	Stainless Steel	(PVC)	
Well Locked:	(Yes)	No	
Measuring Point Marked:	(Yes)	No	
Well Diameter:	(2")	4"	

Purging Information

Purging Method:	Bailer	(Peristaltic)	Grundfos	Other:
Tubing/Bailer Material:	St. Steel	(Polyethylene)	Teflon	Other:
Sampling Method:	Bailer	(Peristaltic)	Grundfos	Other:

Duration of Pumping:	125 (min)		
Average Pumping Rate:	200 (ml/min)	Water-Quality Meter Type:	YSI/Lamotte 2020
Total Volume Removed:	4.0 (gal)	Did well go dry:	Yes (No)

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3785 ml = 0.1337 cubic feet				

Unit Stability			
pH	DO	Cond.	ORP
±0.1	± 10%	± 3.0%	± 10 mV

	1	2	3	4	5	6	7	8	9	10	11	12	13
Parameter:	1525	1530	1535	1540	1545	1550	1555	1600	1605	1610	1615	1620	1625
Volume Purged (gal)	0.1	0.3	0.5	0.7	0.8	1.0	1.2	1.5	1.7	1.9	2.2	2.4	2.7
Rate (mL/min)	200	200	200	200	200	200	200	200	200	200	200	200	200
Depth to Water (ft.)	7.49	8.36	9.21	10.24	11.07	11.91	12.32	13.47	13.48	13.50	13.68	13.87	14.09
pH	7.62	7.62	7.62	7.62	7.62	7.63	7.63	7.63	7.63	7.63	7.60	7.57	7.54
Temp. (C)	7.5	8.5	8.7	8.6	8.6	8.6	8.0	8.1	7.8	8.4	8.0	7.9	8.1
Conductivity (mS/cm)	0.291	0.305	0.306	0.305	0.305	0.305	0.300	0.302	0.298	0.304	0.304	0.308	0.315
Dissolved Oxygen (mg/l)	2.02	1.54	1.40	1.35	1.33	1.33	1.35	1.35	1.36	1.35	1.36	1.36	1.36
ORP (mV)	35.9	31.5	24.9	19.1	14.0	10.8	7.4	4.8	2.8	0.8	-0.4	-0.7	-2.1
Turbidity (NTU)	15.89	14.77	16.25	20.12	23.94	28.24	32.42	33.40	39.78	44.47	52.97	52.85	53.16
Notes:													

Sampling Information

Analyses	#	Laboratory
BTEXs	3	Buffalo-Test America
PAHs	2	Buffalo-Test America
Cyanide	1	Buffalo-Test America
1,4-Dioxane	(2)	Buffalo-Test America
Sample ID: PRMW-65		Sample Time: 1650
MS/MSD:	Yes (No)	
Duplicate:	Yes (No)	
Duplicate ID	—	Dup. Time: —
Chain of Custody Signed By:	AJS	

Problems / Observations

Initial Purge: pump on @ 1515 clear, no odor

Final Purge: pump off @ 1720 clear, no odor

GROUNDWATER SAMPLING LOG

Site: Penn Yan Former MGP | **NYSEG Penn Yan, NY** | **Event:** February 2022 GWS

Sampling Personnel: Adam Svensson / Kaitlyn Fleming | **Well ID:** PRWMW-65

Client / Job Number: NYSEG / TBD | **Date:** 2/24/22

Weather: 21° Sunny | **Time In:** 1510 | **Time Out:** 1740

Well Information

Depth to Water:	6.45	(feet TIC)
Total Depth:	23.05	(feet TIC)
Length of Water Column:	16.6	(feet)
Volume of Water in Well:	2.7	(gal)
Screen Interval:	10-20	(feet)
Depth to pump Intake:	≈21'	(feet TIC)

Well Type:	Flushmount	(Stick-Up)	
Well Material:	Stainless Steel	(PVC)	
Well Locked:	(Yes)	No	
Measuring Point Marked:	(Yes)	No	
Well Diameter:	(2")	4"	

Purging Information

Purging Method:	Bailer	(Peristaltic)	Grundfos	Other:
Tubing/Bailer Material:	St. Steel	(Polyethylene)	Teflon	Other:
Sampling Method:	Bailer	(Peristaltic)	Grundfos	Other:

Duration of Pumping: 125 (min)

Average Pumping Rate: 200 (ml/min) | Water-Quality Meter Type: YSI/Lamotte 2020

Total Volume Removed: 4.0 (gal) | Did well go dry: Yes (No)

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3785 ml = 0.1337 cubic feet				

Unit Stability			
pH	DO	Cond.	ORP
±0.1	± 10%	± 3.0%	± 10 mV

	1	2	3	4	5	6	7	8	9	10	11	12	13
Parameter:	1630	1635	1640	1645	1650								
Volume Purged (gal)	3.0	3.2	3.4	3.5	S								
Rate (mL/min)	200	200	200	200									
Depth to Water (ft.)	14.27	14.46	14.62	14.88	A								
pH	7.50	7.49	7.49	7.48									
Temp. (C)	8.1	8.3	8.4	8.4	m								
Conductivity (mS/cm)	0.321	0.328	0.336	0.334	P								
Dissolved Oxygen (mg/l)	1.37	1.35	1.36	1.34	L								
ORP (mV)	-3.4	-5.3	-7.1	-8.3									
Turbidity (NTU)	53.01	55.03	55.65	57.01	E								
Notes:													

Sampling Information

Analyses	#	Laboratory
BTEXs	3	Buffalo-Test America
PAHs	2	Buffalo-Test America
Cyanide	1	Buffalo-Test America
1,4-Dioxane	2	Buffalo-Test America
Sample ID: PRWMW-65	Sample Time: 1650	
MS/MSD:	Yes (No)	
Duplicate:	Yes (No)	
Duplicate ID —	Dup. Time: —	
Chain of Custody Signed By:	AJS	

Problems / Observations

Initial Purge: pump on @ 1515, clear, no odor

Final Purge: pump off @ 1720 clear, no odor

GROUNDWATER SAMPLING LOG

Site: Penn Yan Former MGP | **NYSEG Penn Yan, NY** | **Event:** February 2022 GWS

Sampling Personnel:	Adam Svensson / Kaitlyn Fleming	**Well ID:**	PRMW-6D
Client / Job Number:	NYSEG / TBD	**Date:**	2/24/22
Weather:	21° Cloudy	**Time In:** 1230	**Time Out:** 1500

Well Information

Depth to Water:	3.08	(feet TIC)
Total Depth:	36.93	(feet TIC)
Length of Water Column:	33.85	(feet)
Volume of Water in Well:	5.5	(gal)
Screen Interval:	~~top~~ 24-34	(feet)
Depth to pump Intake:	≈35'	(feet TIC)

Well Type:	Flushmount	(Stick-Up)	
Well Material:	Stainless Steel	(PVC)	
Well Locked:	(Yes)	No	
Measuring Point Marked:	(Yes)	No	
Well Diameter:	(2")	4"	

Purging Information

Purging Method:	Bailer	(Peristaltic)	Grundfos	Other:
Tubing/Bailer Material:	St. Steel	(Polyethylene)	Teflon	Other:
Sampling Method:	Bailer	(Peristaltic)	Grundfos	Other:

Duration of Pumping:	135	(min)		
Average Pumping Rate:	200	(ml/min)	Water-Quality Meter Type:	YSI/Lamotte 2020
Total Volume Removed:	6.2	(gal)	Did well go dry: Yes	(No)

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3785 ml = 0.1337 cubic feet				

Unit Stability			
pH	DO	Cond.	ORP
±0.1	± 10%	± 3.0%	± 10 mV

Parameter:	1	2	3	4	5	6	7	8	9	10	11	12	13
	1240	1245	1250	1255	1300	1305	1310	1315	1320	1325	1330	1335	1340
Volume Purged (gal)	0.1	0.2	0.3	0.5	0.7	1.0	1.2	1.5	1.7	2.0	2.3	2.5	2.7
Rate (mL/min)	200	200	200	200	200	200	200	200	200	200	200	200	200
Depth to Water (ft.)	3.08	4.06	4.19	4.30	4.39	4.46	4.54	4.60	4.60	4.60	4.64	4.67	4.70
pH	7.73	7.59	7.63	7.65	7.64	7.66	7.67	7.68	7.68	7.70	7.70	7.71	7.71
Temp. (C)	9.3	8.6	8.9	8.5	8.7	9.2	9.4	9.4	9.7	9.1	10.2	9.4	9.8
Conductivity (mS/cm)	0.301	0.297	0.300	0.296	0.297	0.301	0.302	0.302	0.305	0.301	0.309	0.305	0.307
Dissolved Oxygen (mg/l)	1.75	1.53	1.46	1.42	1.37	1.32	1.30	1.30	1.27	1.29	1.25	1.27	1.25
ORP (mV)	100.4	73.9	36.6	12.4	-5.5	-24.0	-43.1	-60.0	-78.2	-91.0	-107.9	-121.7	-134.2
Turbidity (NTU)	17.08	18.26	17.74	17.27	11.81	7.86	6.93	5.78	4.63	4.05	3.43	3.25	2.88
Notes:													

Sampling Information

Analyses	#	Laboratory
BTEXs	3	Buffalo-Test America
PAHs	2	Buffalo-Test America
Cyanide	1	Buffalo-Test America
1,4-Dioxane	2	Buffalo-Test America
Sample ID: PRMW-6D		Sample Time:
MS/MSD:	Yes	(No)
Duplicate:	Yes	(No)
Duplicate ID —		Dup. Time: —
Chain of Custody Signed By: AJS		

Problems / Observations

Initial Purge: pump on @ 1235 Clear, ~~no odor~~ sulfur odor

Final Purge: pump off @ 1450 clear, sulfur odor

GROUNDWATER SAMPLING LOG

Site: Penn Yan Former MGP | **NYSEG Penn Yan, NY** | **Event:** February 2022 GWS

Sampling Personnel:	Adam Svensson / Kaitlyn Fleming	**Well ID:**	PRMW-6D
Client / Job Number:	NYSEG / TBD	**Date:**	2/24/22
Weather:	21° Cloudy	**Time In:**	1230 **Time Out:** 1500

Well Information

Depth to Water:	3.08	(feet TIC)
Total Depth:	36.93	(feet TIC)
Length of Water Column:	33.85	(feet)
Volume of Water in Well:	5.5	(gal)
Screen Interval:	~~[illegible]~~ 24.34	(feet)
Depth to pump Intake:	≈35'	(feet TIC)

Well Type:	Flushmount	(Stick-Up)	
Well Material:	Stainless Steel	(PVC)	
Well Locked:	(Yes)	No	
Measuring Point Marked:	(Yes)	No	
Well Diameter:	(2")	4"	

Purging Information

Purging Method:	Bailer	(Peristaltic)	Grundfos	Other:
Tubing/Bailer Material:	St. Steel	(Polyethylen)	Teflon	Other:
Sampling Method:	Bailer	(Peristaltic)	Grundfos	Other:

Duration of Pumping:	135	(min)		
Average Pumping Rate:	200	(ml/min)	Water-Quality Meter Type:	YSI/Lamotte 2020
Total Volume Removed:	6.2	(gal)	Did well go dry: Yes	(No)

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3785 ml = 0.1337 cubic feet				

Unit Stability			
pH	DO	Cond.	ORP
±0.1	± 10%	± 3.0%	± 10 mV

	1	2	3	4	5	6	7	8	9	10	11	12	13
Parameter:	1345	1350	1355	1400	1405	1410	1415	1420	1425	1430			
Volume Purged (gal)	3.0	3.2	3.5	3.8	4.0	4.3	4.5	4.7	5.0	S			
Rate (mL/min)	200	200	200	200	200	200	200	200	200				
Depth to Water (ft.)	4.72	4.74	4.75	4.74	4.73	4.73	4.73	4.73	4.73	A			
pH	7.72	7.73	7.73	7.74	7.74	7.74	7.75	7.75	7.75	M			
Temp. (C)	9.4	9.8	9.8	9.7	9.5	9.3	9.2	9.2	9.3	P			
Conductivity (mS/cm)	0.303	0.307	0.306	0.303	0.305	0.303	0.302	0.302	0.303				
Dissolved Oxygen (mg/l)	1.26	1.24	1.24	1.25	1.24	1.24	1.24	1.24	1.24	L			
ORP (mV)	-144.1	-152.5	-161.2	-167.2	-175.9	-184.0	-190.3	-194.1	-199.4	E			
Turbidity (NTU)	2.74	3.02	2.84	2.84	2.89	2.81	2.79	2.75	2.74				
Notes:													

Sampling Information

Analyses	#	Laboratory
BTEXs	3	Buffalo-Test America
PAHs	2	Buffalo-Test America
Cyanide	1	Buffalo-Test America
1,4-Dioxane	0	Buffalo-Test America
Sample ID: PRMW-6D		Sample Time: 1430
MS/MSD:	Yes (No)	
Duplicate:	Yes (No)	
Duplicate ID: —		Dup. Time: —
Chain of Custody Signed By:	AJS	

Problems / Observations

Initial Purge: pump on @ 1235 clear, sulfur odor

Final Purge: pump off @ 1450, clear sulfur odor

GROUNDWATER SAMPLING LOG

Site: Penn Yan Former MGP | **NYSEG Penn Yan, NY** | **Event:** February 2022 GWS

Sampling Personnel: Adam Svensson / Kaitlyn Fleming
Well ID: TMW-1D
Client / Job Number: NYSEG / TBD
Date: 2/25/22
Weather: 28° SNOW
Time In: 1730 **Time Out:** 1900

Well Information

Depth to Water:	4.19	(feet TIC)
Total Depth:	63.37	(feet TIC)
Length of Water Column:	59.18	(feet)
Volume of Water in Well:	9.6	(gal)
Screen Interval:		(feet)
Depth to pump Intake:	~55'	(feet TIC)

Well Type:	(Flushmount)	Stick-Up
Well Material:	Stainless Steel	(PVC)
Well Locked:	(Yes)	No
Measuring Point Marked:	(Yes)	No
Well Diameter:	(2")	4"

Purging Information

Purging Method:	Bailer	(Peristaltic)	Grundfos	Other:
Tubing/Bailer Material:	St. Steel	(Polyethylene)	Teflon	Other:
Sampling Method:	Bailer	(Peristaltic)	Grundfos	Other:

Duration of Pumping: 60 (min)
Average Pumping Rate: 250 (ml/min) Water-Quality Meter Type: YSI/Lamotte 2020
Total Volume Removed: 2.4 (gal) Did well go dry: Yes (No)

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3785 ml = 0.1337 cubic feet				

Unit Stability			
pH	DO	Cond.	ORP
±0.1	± 10%	± 3.0%	± 10 mV

Parameter:	1	2	3	4	5	6	7	8	9	10	11	12	13
	1755	1800	1805	1810	1815	1820	1825	1830	1835				
Volume Purged (gal)	0.1	0.4	0.7	1.0	1.3	1.6	2.0	2.3	S				
Rate (mL/min)	250	250	250	250	250	250	250	250					
Depth to Water (ft.)	4.19	4.57	4.57	4.59	4.59	4.60	4.61	4.61	A				
pH	7.68	7.70	7.71	7.71	7.71	7.71	7.70	7.70	M				
Temp. (C)	8.5	8.0	8.6	8.3	8.1	7.9	8.3	8.2					
Conductivity (mS/cm)	0.333	0.329	0.334	0.334	0.332	0.329	0.331	0.330	P				
Dissolved Oxygen (mg/l)	1.98	1.51	1.43	1.40	1.41	1.40	1.39	1.38	L				
ORP (mV)	20.7	-46.1	-74.6	-94.9	-99.5	-105.7	-110.1	-113.2	E				
Turbidity (NTU)	5.39	6.12	6.21	5.62	5.75	5.61	5.41	5.29					
Notes:													

Sampling Information

Analyses	#	Laboratory
BTEXs	3	Buffalo-Test America
PAHs	2	Buffalo-Test America
Cyanide	1	Buffalo-Test America
1,4-Dioxane	0	Buffalo-Test America
Sample ID: TMW-1D		Sample Time:
MS/MSD:	Yes	(No)
Duplicate:	Yes	(No)
Duplicate ID —		Dup. Time: —
Chain of Custody Signed By: AJS		

Problems / Observations

Initial Purge: pump on @ 1750 clear, no odor

Final Purge: pump off @ 1850 clear, no odor

Attachment 2

Groundwater Laboratory Reports

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-195339-1
Client Project/Site: NYSEG - Penn Yan Water St. MGP
Revision: 2

For:
New York State Electric & Gas
18 Link Drive
Binghamton, New York 13902

Attn: Mr. John J Ruspantini

Authorized for release by:
7/12/2022 3:12:12 PM

John Schove, Project Manager II
(716)504-9838
John.Schove@et.eurofinsus.com

Table of Contents

Definitions/Glossary

Client: New York State Electric & Gas
Job ID: 480-195339-1
Project/Site: NYSEG - Penn Yan Water St. MGP

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

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

Job ID: 480-195339-1

Job ID: 480-195339-1

Laboratory: Eurofins Buffalo

Narrative

Job Narrative
480-195339-1

Revision
This report has been revised to report the full list of 16 PAH's.

Comments
No additional comments.

Receipt
The samples were received on 2/26/2022 9:50 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 6 coolers at receipt time were 2.1º C, 2.2º C, 2.5º C, 2.7º C, 2.9º C and 3.1º C.

GC/MS VOA
Method 8260C: The following sample(s) was collected in a properly preserved vial; however, the pH was outside the required criteria when verified by the laboratory. The sample was analyzed within the 7-day holding time specified for unpreserved samples: PRMW-5D (480-195339-7).

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

GC/MS Semi VOA
Method 8270D LL: The following sample was diluted due to the abundance of non-target analytes: PRMW-4S (480-195339-6). Elevated reporting limits (RLs) are provided.

Method 8270D LL: The following sample required a dilution due to non target analyte(s): PRMW-4S (480-195339-6). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Methods 8270D, 8270D LL: The following sample was diluted to bring the concentration of target analytes within the calibration range: PRMW-5S (480-195339-8). Elevated reporting limits (RLs) are provided.

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

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

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

Detection Summary

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

Job ID: 480-195339-1

Client Sample ID: PRMW-1S — Lab Sample ID: 480-195339-1

No Detections.

Client Sample ID: PRMW-2D — Lab Sample ID: 480-195339-2

No Detections.

Client Sample ID: PRMW-2S — Lab Sample ID: 480-195339-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyanide, Total	0.077		0.010	0.0050	mg/L	1		9012B	Total/NA

Client Sample ID: PRMW-3D — Lab Sample ID: 480-195339-4

No Detections.

Client Sample ID: PRMW-3S — Lab Sample ID: 480-195339-5

No Detections.

Client Sample ID: PRMW-4S — Lab Sample ID: 480-195339-6

No Detections.

Client Sample ID: PRMW-5D — Lab Sample ID: 480-195339-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.055	J	0.51	0.036	ug/L	1		8270D LL	Total/NA
Phenanthrene	0.066	J	0.20	0.063	ug/L	1		8270D LL	Total/NA

Client Sample ID: PRMW-5S — Lab Sample ID: 480-195339-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	14		1.0	0.41	ug/L	1		8260C	Total/NA
Ethylbenzene	3.3		1.0	0.74	ug/L	1		8260C	Total/NA
Toluene	0.65	J	1.0	0.51	ug/L	1		8260C	Total/NA
Xylenes, Total	2.9		2.0	0.66	ug/L	1		8260C	Total/NA
Acenaphthene	22	E	0.53	0.038	ug/L	1		8270D LL	Total/NA
Acenaphthylene	5.2		0.32	0.060	ug/L	1		8270D LL	Total/NA
Anthracene	0.73		0.53	0.036	ug/L	1		8270D LL	Total/NA
Chrysene	0.084	J	0.53	0.079	ug/L	1		8270D LL	Total/NA
Fluoranthene	2.5		0.53	0.085	ug/L	1		8270D LL	Total/NA
Fluorene	10		0.53	0.062	ug/L	1		8270D LL	Total/NA
Naphthalene	18	E	1.1	0.068	ug/L	1		8270D LL	Total/NA
Phenanthrene	9.8		0.21	0.066	ug/L	1		8270D LL	Total/NA
Pyrene	1.5		0.53	0.081	ug/L	1		8270D LL	Total/NA
Acenaphthene - DL	26		2.7	0.19	ug/L	5		8270D LL	Total/NA
Acenaphthylene - DL	4.9		1.6	0.30	ug/L	5		8270D LL	Total/NA
Anthracene - DL	0.96	J	2.7	0.18	ug/L	5		8270D LL	Total/NA
Fluoranthene - DL	2.5	J	2.7	0.43	ug/L	5		8270D LL	Total/NA
Fluorene - DL	9.6		2.7	0.31	ug/L	5		8270D LL	Total/NA
Naphthalene - DL	26		5.3	0.34	ug/L	5		8270D LL	Total/NA
Phenanthrene - DL	10		1.1	0.33	ug/L	5		8270D LL	Total/NA
Pyrene - DL	1.4	J	2.7	0.40	ug/L	5		8270D LL	Total/NA
Cyanide, Total	0.076		0.010	0.0050	mg/L	1		9012B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: New York State Electric & Gas
Job ID: 480-195339-1
Project/Site: NYSEG - Penn Yan Water St. MGP

Client Sample ID: PRMW-6D — Lab Sample ID: 480-195339-9

No Detections.

Client Sample ID: PRMW-6S — Lab Sample ID: 480-195339-10

No Detections.

Client Sample ID: TMW-1D — Lab Sample ID: 480-195339-11

No Detections.

Client Sample ID: DUP-20222502 — Lab Sample ID: 480-195339-12

No Detections.

Client Sample ID: TRIP BLANK — Lab Sample ID: 480-195339-13

No Detections.

This Detection Summary does not include radiochemical test results.

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

Job ID: 480-195339-1

Client Sample ID: PRMW-1S

Date Collected: 02/25/22 13:55
Date Received: 02/26/22 09:50

Lab Sample ID: 480-195339-1

Matrix: Water

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			03/01/22 13:56	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/01/22 13:56	1
Toluene	ND		1.0	0.51	ug/L			03/01/22 13:56	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/01/22 13:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*77 - 120*		*03/01/22 13:56*	*1*
4-Bromofluorobenzene (Surr)	*108*		*73 - 120*		*03/01/22 13:56*	*1*
Dibromofluoromethane (Surr)	*106*		*75 - 123*		*03/01/22 13:56*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*		*03/01/22 13:56*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.50	0.036	ug/L		03/01/22 09:22	03/01/22 23:58	1
Acenaphthylene	ND		0.30	0.056	ug/L		03/01/22 09:22	03/01/22 23:58	1
Anthracene	ND		0.50	0.034	ug/L		03/01/22 09:22	03/01/22 23:58	1
Benzo[a]anthracene	ND		0.30	0.034	ug/L		03/01/22 09:22	03/01/22 23:58	1
Benzo[a]pyrene	ND		0.18	0.13	ug/L		03/01/22 09:22	03/01/22 23:58	1
Benzo[b]fluoranthene	ND		0.30	0.063	ug/L		03/01/22 09:22	03/01/22 23:58	1
Benzo[g,h,i]perylene	ND		0.50	0.058	ug/L		03/01/22 09:22	03/01/22 23:58	1
Benzo[k]fluoranthene	ND		0.30	0.070	ug/L		03/01/22 09:22	03/01/22 23:58	1
Chrysene	ND		0.50	0.074	ug/L		03/01/22 09:22	03/01/22 23:58	1
Dibenz(a,h)anthracene	ND		0.50	0.070	ug/L		03/01/22 09:22	03/01/22 23:58	1
Fluoranthene	ND		0.50	0.080	ug/L		03/01/22 09:22	03/01/22 23:58	1
Fluorene	ND		0.50	0.058	ug/L		03/01/22 09:22	03/01/22 23:58	1
Indeno[1,2,3-cd]pyrene	ND		0.50	0.11	ug/L		03/01/22 09:22	03/01/22 23:58	1
Naphthalene	ND		1.0	0.064	ug/L		03/01/22 09:22	03/01/22 23:58	1
Phenanthrene	ND		0.20	0.062	ug/L		03/01/22 09:22	03/01/22 23:58	1
Pyrene	ND		0.50	0.076	ug/L		03/01/22 09:22	03/01/22 23:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*91*		*37 - 120*	*03/01/22 09:22*	*03/01/22 23:58*	*1*
Nitrobenzene-d5 (Surr)	*83*		*26 - 120*	*03/01/22 09:22*	*03/01/22 23:58*	*1*
p-Terphenyl-d14	*92*		*64 - 127*	*03/01/22 09:22*	*03/01/22 23:58*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		03/01/22 12:48	03/01/22 13:50	1

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

Job ID: 480-195339-1

Client Sample ID: PRMW-2D

Date Collected: 02/25/22 15:00
Date Received: 02/26/22 09:50

Lab Sample ID: 480-195339-2

Matrix: Water

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			03/01/22 14:18	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/01/22 14:18	1
Toluene	ND		1.0	0.51	ug/L			03/01/22 14:18	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/01/22 14:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*77 - 120*		*03/01/22 14:18*	*1*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*03/01/22 14:18*	*1*
Dibromofluoromethane (Surr)	*106*		*75 - 123*		*03/01/22 14:18*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*03/01/22 14:18*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.52	0.038	ug/L		03/01/22 09:22	03/01/22 23:30	1
Acenaphthylene	ND		0.31	0.058	ug/L		03/01/22 09:22	03/01/22 23:30	1
Anthracene	ND		0.52	0.035	ug/L		03/01/22 09:22	03/01/22 23:30	1
Benzo[a]anthracene	ND	F1	0.31	0.035	ug/L		03/01/22 09:22	03/01/22 23:30	1
Benzo[a]pyrene	ND	F1	0.19	0.14	ug/L		03/01/22 09:22	03/01/22 23:30	1
Benzo[b]fluoranthene	ND	F1	0.31	0.066	ug/L		03/01/22 09:22	03/01/22 23:30	1
Benzo[g,h,i]perylene	ND	F1	0.52	0.060	ug/L		03/01/22 09:22	03/01/22 23:30	1
Benzo[k]fluoranthene	ND	F1	0.31	0.073	ug/L		03/01/22 09:22	03/01/22 23:30	1
Chrysene	ND	F1	0.52	0.077	ug/L		03/01/22 09:22	03/01/22 23:30	1
Dibenz(a,h)anthracene	ND	F1	0.52	0.073	ug/L		03/01/22 09:22	03/01/22 23:30	1
Fluoranthene	ND		0.52	0.083	ug/L		03/01/22 09:22	03/01/22 23:30	1
Fluorene	ND		0.52	0.060	ug/L		03/01/22 09:22	03/01/22 23:30	1
Indeno[1,2,3-cd]pyrene	ND	F1	0.52	0.11	ug/L		03/01/22 09:22	03/01/22 23:30	1
Naphthalene	ND		1.0	0.067	ug/L		03/01/22 09:22	03/01/22 23:30	1
Phenanthrene	ND		0.21	0.065	ug/L		03/01/22 09:22	03/01/22 23:30	1
Pyrene	ND		0.52	0.079	ug/L		03/01/22 09:22	03/01/22 23:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*109*		*37 - 120*	*03/01/22 09:22*	*03/01/22 23:30*	*1*
Nitrobenzene-d5 (Surr)	*100*		*26 - 120*	*03/01/22 09:22*	*03/01/22 23:30*	*1*
p-Terphenyl-d14	*106*		*64 - 127*	*03/01/22 09:22*	*03/01/22 23:30*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		03/01/22 12:48	03/01/22 13:46	1

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

Job ID: 480-195339-1

Client Sample ID: PRMW-2S

Date Collected: 02/25/22 16:00
Date Received: 02/26/22 09:50

Lab Sample ID: 480-195339-3

Matrix: Water

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			03/01/22 14:41	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/01/22 14:41	1
Toluene	ND		1.0	0.51	ug/L			03/01/22 14:41	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/01/22 14:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*		*03/01/22 14:41*	*1*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*		*03/01/22 14:41*	*1*
Dibromofluoromethane (Surr)	*106*		*75 - 123*		*03/01/22 14:41*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*03/01/22 14:41*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.50	0.036	ug/L		03/01/22 09:22	03/02/22 00:25	1
Acenaphthylene	ND		0.30	0.056	ug/L		03/01/22 09:22	03/02/22 00:25	1
Anthracene	ND		0.50	0.034	ug/L		03/01/22 09:22	03/02/22 00:25	1
Benzo[a]anthracene	ND		0.30	0.034	ug/L		03/01/22 09:22	03/02/22 00:25	1
Benzo[a]pyrene	ND		0.18	0.13	ug/L		03/01/22 09:22	03/02/22 00:25	1
Benzo[b]fluoranthene	ND		0.30	0.063	ug/L		03/01/22 09:22	03/02/22 00:25	1
Benzo[g,h,i]perylene	ND		0.50	0.058	ug/L		03/01/22 09:22	03/02/22 00:25	1
Benzo[k]fluoranthene	ND		0.30	0.070	ug/L		03/01/22 09:22	03/02/22 00:25	1
Chrysene	ND		0.50	0.074	ug/L		03/01/22 09:22	03/02/22 00:25	1
Dibenz(a,h)anthracene	ND		0.50	0.070	ug/L		03/01/22 09:22	03/02/22 00:25	1
Fluoranthene	ND		0.50	0.080	ug/L		03/01/22 09:22	03/02/22 00:25	1
Fluorene	ND		0.50	0.058	ug/L		03/01/22 09:22	03/02/22 00:25	1
Indeno[1,2,3-cd]pyrene	ND		0.50	0.11	ug/L		03/01/22 09:22	03/02/22 00:25	1
Naphthalene	ND		1.0	0.064	ug/L		03/01/22 09:22	03/02/22 00:25	1
Phenanthrene	ND		0.20	0.062	ug/L		03/01/22 09:22	03/02/22 00:25	1
Pyrene	ND		0.50	0.076	ug/L		03/01/22 09:22	03/02/22 00:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*110*		*37 - 120*	*03/01/22 09:22*	*03/02/22 00:25*	*1*
Nitrobenzene-d5 (Surr)	*100*		*26 - 120*	*03/01/22 09:22*	*03/02/22 00:25*	*1*
p-Terphenyl-d14	*108*		*64 - 127*	*03/01/22 09:22*	*03/02/22 00:25*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**0.077**		0.010	0.0050	mg/L		03/01/22 12:48	03/01/22 13:52	1

Client Sample ID: PRMW-3D
Lab Sample ID: 480-195339-4

Date Collected: 02/25/22 13:30
Matrix: Water
Date Received: 02/26/22 09:50

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			03/01/22 15:03	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/01/22 15:03	1
Toluene	ND		1.0	0.51	ug/L			03/01/22 15:03	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/01/22 15:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*		*03/01/22 15:03*	*1*
4-Bromofluorobenzene (Surr)	*107*		*73 - 120*		*03/01/22 15:03*	*1*
Dibromofluoromethane (Surr)	*106*		*75 - 123*		*03/01/22 15:03*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*03/01/22 15:03*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.52	0.037	ug/L		03/01/22 09:22	03/02/22 00:53	1
Acenaphthylene	ND		0.31	0.058	ug/L		03/01/22 09:22	03/02/22 00:53	1
Anthracene	ND		0.52	0.035	ug/L		03/01/22 09:22	03/02/22 00:53	1
Benzo[a]anthracene	ND		0.31	0.035	ug/L		03/01/22 09:22	03/02/22 00:53	1
Benzo[a]pyrene	ND		0.19	0.13	ug/L		03/01/22 09:22	03/02/22 00:53	1
Benzo[b]fluoranthene	ND		0.31	0.065	ug/L		03/01/22 09:22	03/02/22 00:53	1
Benzo[g,h,i]perylene	ND		0.52	0.060	ug/L		03/01/22 09:22	03/02/22 00:53	1
Benzo[k]fluoranthene	ND		0.31	0.072	ug/L		03/01/22 09:22	03/02/22 00:53	1
Chrysene	ND		0.52	0.076	ug/L		03/01/22 09:22	03/02/22 00:53	1
Dibenz(a,h)anthracene	ND		0.52	0.072	ug/L		03/01/22 09:22	03/02/22 00:53	1
Fluoranthene	ND		0.52	0.082	ug/L		03/01/22 09:22	03/02/22 00:53	1
Fluorene	ND		0.52	0.060	ug/L		03/01/22 09:22	03/02/22 00:53	1
Indeno[1,2,3-cd]pyrene	ND		0.52	0.11	ug/L		03/01/22 09:22	03/02/22 00:53	1
Naphthalene	ND		1.0	0.066	ug/L		03/01/22 09:22	03/02/22 00:53	1
Phenanthrene	ND		0.21	0.064	ug/L		03/01/22 09:22	03/02/22 00:53	1
Pyrene	ND		0.52	0.078	ug/L		03/01/22 09:22	03/02/22 00:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*106*		*37 - 120*	*03/01/22 09:22*	*03/02/22 00:53*	*1*
Nitrobenzene-d5 (Surr)	*95*		*26 - 120*	*03/01/22 09:22*	*03/02/22 00:53*	*1*
p-Terphenyl-d14	*99*		*64 - 127*	*03/01/22 09:22*	*03/02/22 00:53*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		03/01/22 12:48	03/01/22 13:53	1

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

Job ID: 480-195339-1

Client Sample ID: PRMW-3S

Date Collected: 02/25/22 11:45
Date Received: 02/26/22 09:50

Lab Sample ID: 480-195339-5

Matrix: Water

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			03/01/22 15:25	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/01/22 15:25	1
Toluene	ND		1.0	0.51	ug/L			03/01/22 15:25	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/01/22 15:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*		*03/01/22 15:25*	*1*
4-Bromofluorobenzene (Surr)	*106*		*73 - 120*		*03/01/22 15:25*	*1*
Dibromofluoromethane (Surr)	*104*		*75 - 123*		*03/01/22 15:25*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*03/01/22 15:25*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.51	0.037	ug/L		03/01/22 09:22	03/02/22 01:20	1
Acenaphthylene	ND		0.31	0.057	ug/L		03/01/22 09:22	03/02/22 01:20	1
Anthracene	ND		0.51	0.035	ug/L		03/01/22 09:22	03/02/22 01:20	1
Benzo[a]anthracene	ND		0.31	0.035	ug/L		03/01/22 09:22	03/02/22 01:20	1
Benzo[a]pyrene	ND		0.18	0.13	ug/L		03/01/22 09:22	03/02/22 01:20	1
Benzo[b]fluoranthene	ND		0.31	0.064	ug/L		03/01/22 09:22	03/02/22 01:20	1
Benzo[g,h,i]perylene	ND		0.51	0.059	ug/L		03/01/22 09:22	03/02/22 01:20	1
Benzo[k]fluoranthene	ND		0.31	0.071	ug/L		03/01/22 09:22	03/02/22 01:20	1
Chrysene	ND		0.51	0.076	ug/L		03/01/22 09:22	03/02/22 01:20	1
Dibenz(a,h)anthracene	ND		0.51	0.071	ug/L		03/01/22 09:22	03/02/22 01:20	1
Fluoranthene	ND		0.51	0.082	ug/L		03/01/22 09:22	03/02/22 01:20	1
Fluorene	ND		0.51	0.059	ug/L		03/01/22 09:22	03/02/22 01:20	1
Indeno[1,2,3-cd]pyrene	ND		0.51	0.11	ug/L		03/01/22 09:22	03/02/22 01:20	1
Naphthalene	ND		1.0	0.065	ug/L		03/01/22 09:22	03/02/22 01:20	1
Phenanthrene	ND		0.20	0.063	ug/L		03/01/22 09:22	03/02/22 01:20	1
Pyrene	ND		0.51	0.078	ug/L		03/01/22 09:22	03/02/22 01:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*106*		*37 - 120*	*03/01/22 09:22*	*03/02/22 01:20*	*1*
Nitrobenzene-d5 (Surr)	*96*		*26 - 120*	*03/01/22 09:22*	*03/02/22 01:20*	*1*
p-Terphenyl-d14	*107*		*64 - 127*	*03/01/22 09:22*	*03/02/22 01:20*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		03/01/22 12:48	03/01/22 14:23	1

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

Job ID: 480-195339-1

Client Sample ID: PRMW-4S

Date Collected: 02/25/22 10:00
Date Received: 02/26/22 09:50

Lab Sample ID: 480-195339-6

Matrix: Water

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			03/01/22 15:48	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/01/22 15:48	1
Toluene	ND		1.0	0.51	ug/L			03/01/22 15:48	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/01/22 15:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*77 - 120*		*03/01/22 15:48*	*1*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*		*03/01/22 15:48*	*1*
Dibromofluoromethane (Surr)	*104*		*75 - 123*		*03/01/22 15:48*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*03/01/22 15:48*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		10	0.73	ug/L		03/01/22 09:22	03/02/22 18:00	20
Acenaphthylene	ND		6.1	1.1	ug/L		03/01/22 09:22	03/02/22 18:00	20
Anthracene	ND		10	0.69	ug/L		03/01/22 09:22	03/02/22 18:00	20
Benzo[a]anthracene	ND		6.1	0.69	ug/L		03/01/22 09:22	03/02/22 18:00	20
Benzo[a]pyrene	ND		3.7	2.7	ug/L		03/01/22 09:22	03/02/22 18:00	20
Benzo[b]fluoranthene	ND		6.1	1.3	ug/L		03/01/22 09:22	03/02/22 18:00	20
Benzo[g,h,i]perylene	ND		10	1.2	ug/L		03/01/22 09:22	03/02/22 18:00	20
Benzo[k]fluoranthene	ND		6.1	1.4	ug/L		03/01/22 09:22	03/02/22 18:00	20
Chrysene	ND		10	1.5	ug/L		03/01/22 09:22	03/02/22 18:00	20
Dibenz(a,h)anthracene	ND		10	1.4	ug/L		03/01/22 09:22	03/02/22 18:00	20
Fluoranthene	ND		10	1.6	ug/L		03/01/22 09:22	03/02/22 18:00	20
Fluorene	ND		10	1.2	ug/L		03/01/22 09:22	03/02/22 18:00	20
Indeno[1,2,3-cd]pyrene	ND		10	2.2	ug/L		03/01/22 09:22	03/02/22 18:00	20
Naphthalene	ND		20	1.3	ug/L		03/01/22 09:22	03/02/22 18:00	20
Phenanthrene	ND		4.1	1.3	ug/L		03/01/22 09:22	03/02/22 18:00	20
Pyrene	ND		10	1.6	ug/L		03/01/22 09:22	03/02/22 18:00	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*109*		*37 - 120*	*03/01/22 09:22*	*03/02/22 18:00*	*20*
Nitrobenzene-d5 (Surr)	*86*		*26 - 120*	*03/01/22 09:22*	*03/02/22 18:00*	*20*
p-Terphenyl-d14	*93*		*64 - 127*	*03/01/22 09:22*	*03/02/22 18:00*	*20*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		03/01/22 12:48	03/01/22 14:25	1

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

Job ID: 480-195339-1

Client Sample ID: PRMW-5D

Date Collected: 02/25/22 16:40
Date Received: 02/26/22 09:50

Lab Sample ID: 480-195339-7

Matrix: Water

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			03/01/22 16:16	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/01/22 16:16	1
Toluene	ND		1.0	0.51	ug/L			03/01/22 16:16	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/01/22 16:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*77 - 120*		*03/01/22 16:16*	*1*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*03/01/22 16:16*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 123*		*03/01/22 16:16*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*03/01/22 16:16*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.055**	**J**	0.51	0.036	ug/L		03/01/22 09:22	03/02/22 18:28	1
Acenaphthylene	ND		0.30	0.057	ug/L		03/01/22 09:22	03/02/22 18:28	1
Anthracene	ND		0.51	0.034	ug/L		03/01/22 09:22	03/02/22 18:28	1
Benzo[a]anthracene	ND		0.30	0.034	ug/L		03/01/22 09:22	03/02/22 18:28	1
Benzo[a]pyrene	ND		0.18	0.13	ug/L		03/01/22 09:22	03/02/22 18:28	1
Benzo[b]fluoranthene	ND		0.30	0.064	ug/L		03/01/22 09:22	03/02/22 18:28	1
Benzo[g,h,i]perylene	ND		0.51	0.059	ug/L		03/01/22 09:22	03/02/22 18:28	1
Benzo[k]fluoranthene	ND		0.30	0.071	ug/L		03/01/22 09:22	03/02/22 18:28	1
Chrysene	ND		0.51	0.075	ug/L		03/01/22 09:22	03/02/22 18:28	1
Dibenz(a,h)anthracene	ND		0.51	0.071	ug/L		03/01/22 09:22	03/02/22 18:28	1
Fluoranthene	ND		0.51	0.081	ug/L		03/01/22 09:22	03/02/22 18:28	1
Fluorene	ND		0.51	0.059	ug/L		03/01/22 09:22	03/02/22 18:28	1
Indeno[1,2,3-cd]pyrene	ND		0.51	0.11	ug/L		03/01/22 09:22	03/02/22 18:28	1
Naphthalene	ND		1.0	0.065	ug/L		03/01/22 09:22	03/02/22 18:28	1
Phenanthrene	**0.066**	**J**	0.20	0.063	ug/L		03/01/22 09:22	03/02/22 18:28	1
Pyrene	ND		0.51	0.077	ug/L		03/01/22 09:22	03/02/22 18:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*109*		*37 - 120*	*03/01/22 09:22*	*03/02/22 18:28*	*1*
Nitrobenzene-d5 (Surr)	*99*		*26 - 120*	*03/01/22 09:22*	*03/02/22 18:28*	*1*
p-Terphenyl-d14	*83*		*64 - 127*	*03/01/22 09:22*	*03/02/22 18:28*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		03/01/22 12:48	03/01/22 14:26	1

Client Sample ID: PRMW-5S

Date Collected: 02/25/22 14:15
Date Received: 02/26/22 09:50

Lab Sample ID: 480-195339-8

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**14**		1.0	0.41	ug/L			03/01/22 16:38	1
Ethylbenzene	**3.3**		1.0	0.74	ug/L			03/01/22 16:38	1
Toluene	**0.65**	**J**	1.0	0.51	ug/L			03/01/22 16:38	1
Xylenes, Total	**2.9**		2.0	0.66	ug/L			03/01/22 16:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*77 - 120*		*03/01/22 16:38*	*1*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*03/01/22 16:38*	*1*
Dibromofluoromethane (Surr)	*98*		*75 - 123*		*03/01/22 16:38*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*03/01/22 16:38*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**22**	**E**	0.53	0.038	ug/L		03/01/22 09:22	03/02/22 18:56	1
Acenaphthylene	**5.2**		0.32	0.060	ug/L		03/01/22 09:22	03/02/22 18:56	1
Anthracene	**0.73**		0.53	0.036	ug/L		03/01/22 09:22	03/02/22 18:56	1
Benzo[a]anthracene	ND		0.32	0.036	ug/L		03/01/22 09:22	03/02/22 18:56	1
Benzo[a]pyrene	ND		0.19	0.14	ug/L		03/01/22 09:22	03/02/22 18:56	1
Benzo[b]fluoranthene	ND		0.32	0.067	ug/L		03/01/22 09:22	03/02/22 18:56	1
Benzo[g,h,i]perylene	ND		0.53	0.062	ug/L		03/01/22 09:22	03/02/22 18:56	1
Benzo[k]fluoranthene	ND		0.32	0.074	ug/L		03/01/22 09:22	03/02/22 18:56	1
Chrysene	**0.084**	**J**	0.53	0.079	ug/L		03/01/22 09:22	03/02/22 18:56	1
Dibenz(a,h)anthracene	ND		0.53	0.074	ug/L		03/01/22 09:22	03/02/22 18:56	1
Fluoranthene	**2.5**		0.53	0.085	ug/L		03/01/22 09:22	03/02/22 18:56	1
Fluorene	**10**		0.53	0.062	ug/L		03/01/22 09:22	03/02/22 18:56	1
Indeno[1,2,3-cd]pyrene	ND		0.53	0.12	ug/L		03/01/22 09:22	03/02/22 18:56	1
Naphthalene	**18**	**E**	1.1	0.068	ug/L		03/01/22 09:22	03/02/22 18:56	1
Phenanthrene	**9.8**		0.21	0.066	ug/L		03/01/22 09:22	03/02/22 18:56	1
Pyrene	**1.5**		0.53	0.081	ug/L		03/01/22 09:22	03/02/22 18:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*108*		*37 - 120*	*03/01/22 09:22*	*03/02/22 18:56*	*1*
Nitrobenzene-d5 (Surr)	*95*		*26 - 120*	*03/01/22 09:22*	*03/02/22 18:56*	*1*
p-Terphenyl-d14	*104*		*64 - 127*	*03/01/22 09:22*	*03/02/22 18:56*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**26**		2.7	0.19	ug/L		03/01/22 09:22	03/03/22 18:06	5
Acenaphthylene	**4.9**		1.6	0.30	ug/L		03/01/22 09:22	03/03/22 18:06	5
Anthracene	**0.96**	**J**	2.7	0.18	ug/L		03/01/22 09:22	03/03/22 18:06	5
Benzo[a]anthracene	ND		1.6	0.18	ug/L		03/01/22 09:22	03/03/22 18:06	5
Benzo[a]pyrene	ND		0.96	0.69	ug/L		03/01/22 09:22	03/03/22 18:06	5
Benzo[b]fluoranthene	ND		1.6	0.34	ug/L		03/01/22 09:22	03/03/22 18:06	5
Benzo[g,h,i]perylene	ND		2.7	0.31	ug/L		03/01/22 09:22	03/03/22 18:06	5
Benzo[k]fluoranthene	ND		1.6	0.37	ug/L		03/01/22 09:22	03/03/22 18:06	5
Chrysene	ND		2.7	0.39	ug/L		03/01/22 09:22	03/03/22 18:06	5
Dibenz(a,h)anthracene	ND		2.7	0.37	ug/L		03/01/22 09:22	03/03/22 18:06	5
Fluoranthene	**2.5**	**J**	2.7	0.43	ug/L		03/01/22 09:22	03/03/22 18:06	5
Fluorene	**9.6**		2.7	0.31	ug/L		03/01/22 09:22	03/03/22 18:06	5
Indeno[1,2,3-cd]pyrene	ND		2.7	0.59	ug/L		03/01/22 09:22	03/03/22 18:06	5

Client: New York State Electric & Gas
Job ID: 480-195339-1
Project/Site: NYSEG - Penn Yan Water St. MGP

Client Sample ID: PRMW-5S
Lab Sample ID: 480-195339-8
Date Collected: 02/25/22 14:15
Matrix: Water
Date Received: 02/26/22 09:50

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	26		5.3	0.34	ug/L		03/01/22 09:22	03/03/22 18:06	5
Phenanthrene	10		1.1	0.33	ug/L		03/01/22 09:22	03/03/22 18:06	5
Pyrene	1.4	J	2.7	0.40	ug/L		03/01/22 09:22	03/03/22 18:06	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*104*		*37 - 120*	*03/01/22 09:22*	*03/03/22 18:06*	*5*
Nitrobenzene-d5 (Surr)	*88*		*26 - 120*	*03/01/22 09:22*	*03/03/22 18:06*	*5*
p-Terphenyl-d14	*102*		*64 - 127*	*03/01/22 09:22*	*03/03/22 18:06*	*5*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.076		0.010	0.0050	mg/L		03/01/22 12:48	03/01/22 14:28	1

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

Job ID: 480-195339-1

Client Sample ID: PRMW-6D

Date Collected: 02/25/22 14:30
Date Received: 02/26/22 09:50

Lab Sample ID: 480-195339-9

Matrix: Water

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			03/01/22 17:00	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/01/22 17:00	1
Toluene	ND		1.0	0.51	ug/L			03/01/22 17:00	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/01/22 17:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*		*03/01/22 17:00*	*1*
4-Bromofluorobenzene (Surr)	*110*		*73 - 120*		*03/01/22 17:00*	*1*
Dibromofluoromethane (Surr)	*106*		*75 - 123*		*03/01/22 17:00*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*03/01/22 17:00*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.50	0.036	ug/L		03/01/22 09:22	03/02/22 19:23	1
Acenaphthylene	ND		0.30	0.056	ug/L		03/01/22 09:22	03/02/22 19:23	1
Anthracene	ND		0.50	0.034	ug/L		03/01/22 09:22	03/02/22 19:23	1
Benzo[a]anthracene	ND		0.30	0.034	ug/L		03/01/22 09:22	03/02/22 19:23	1
Benzo[a]pyrene	ND		0.18	0.13	ug/L		03/01/22 09:22	03/02/22 19:23	1
Benzo[b]fluoranthene	ND		0.30	0.063	ug/L		03/01/22 09:22	03/02/22 19:23	1
Benzo[g,h,i]perylene	ND		0.50	0.058	ug/L		03/01/22 09:22	03/02/22 19:23	1
Benzo[k]fluoranthene	ND		0.30	0.070	ug/L		03/01/22 09:22	03/02/22 19:23	1
Chrysene	ND		0.50	0.074	ug/L		03/01/22 09:22	03/02/22 19:23	1
Dibenz(a,h)anthracene	ND		0.50	0.070	ug/L		03/01/22 09:22	03/02/22 19:23	1
Fluoranthene	ND		0.50	0.080	ug/L		03/01/22 09:22	03/02/22 19:23	1
Fluorene	ND		0.50	0.058	ug/L		03/01/22 09:22	03/02/22 19:23	1
Indeno[1,2,3-cd]pyrene	ND		0.50	0.11	ug/L		03/01/22 09:22	03/02/22 19:23	1
Naphthalene	ND		1.0	0.064	ug/L		03/01/22 09:22	03/02/22 19:23	1
Phenanthrene	ND		0.20	0.062	ug/L		03/01/22 09:22	03/02/22 19:23	1
Pyrene	ND		0.50	0.076	ug/L		03/01/22 09:22	03/02/22 19:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*97*		*37 - 120*	*03/01/22 09:22*	*03/02/22 19:23*	*1*
Nitrobenzene-d5 (Surr)	*87*		*26 - 120*	*03/01/22 09:22*	*03/02/22 19:23*	*1*
p-Terphenyl-d14	*97*		*64 - 127*	*03/01/22 09:22*	*03/02/22 19:23*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		03/01/22 12:48	03/01/22 14:29	1

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

Job ID: 480-195339-1

Client Sample ID: PRMW-6S

Date Collected: 02/25/22 16:50
Date Received: 02/26/22 09:50

Lab Sample ID: 480-195339-10

Matrix: Water

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			03/01/22 17:22	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/01/22 17:22	1
Toluene	ND		1.0	0.51	ug/L			03/01/22 17:22	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/01/22 17:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*77 - 120*		*03/01/22 17:22*	*1*
4-Bromofluorobenzene (Surr)	*104*		*73 - 120*		*03/01/22 17:22*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 123*		*03/01/22 17:22*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*03/01/22 17:22*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.51	0.037	ug/L		03/01/22 09:22	03/02/22 19:51	1
Acenaphthylene	ND		0.31	0.057	ug/L		03/01/22 09:22	03/02/22 19:51	1
Anthracene	ND		0.51	0.035	ug/L		03/01/22 09:22	03/02/22 19:51	1
Benzo[a]anthracene	ND		0.31	0.035	ug/L		03/01/22 09:22	03/02/22 19:51	1
Benzo[a]pyrene	ND		0.18	0.13	ug/L		03/01/22 09:22	03/02/22 19:51	1
Benzo[b]fluoranthene	ND		0.31	0.064	ug/L		03/01/22 09:22	03/02/22 19:51	1
Benzo[g,h,i]perylene	ND		0.51	0.059	ug/L		03/01/22 09:22	03/02/22 19:51	1
Benzo[k]fluoranthene	ND		0.31	0.071	ug/L		03/01/22 09:22	03/02/22 19:51	1
Chrysene	ND		0.51	0.076	ug/L		03/01/22 09:22	03/02/22 19:51	1
Dibenz(a,h)anthracene	ND		0.51	0.071	ug/L		03/01/22 09:22	03/02/22 19:51	1
Fluoranthene	ND		0.51	0.082	ug/L		03/01/22 09:22	03/02/22 19:51	1
Fluorene	ND		0.51	0.059	ug/L		03/01/22 09:22	03/02/22 19:51	1
Indeno[1,2,3-cd]pyrene	ND		0.51	0.11	ug/L		03/01/22 09:22	03/02/22 19:51	1
Naphthalene	ND		1.0	0.065	ug/L		03/01/22 09:22	03/02/22 19:51	1
Phenanthrene	ND		0.20	0.063	ug/L		03/01/22 09:22	03/02/22 19:51	1
Pyrene	ND		0.51	0.078	ug/L		03/01/22 09:22	03/02/22 19:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*102*		*37 - 120*	*03/01/22 09:22*	*03/02/22 19:51*	*1*
Nitrobenzene-d5 (Surr)	*90*		*26 - 120*	*03/01/22 09:22*	*03/02/22 19:51*	*1*
p-Terphenyl-d14	*103*		*64 - 127*	*03/01/22 09:22*	*03/02/22 19:51*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		03/01/22 12:48	03/01/22 14:31	1

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

Job ID: 480-195339-1

Client Sample ID: TMW-1D

Date Collected: 02/25/22 18:35
Date Received: 02/26/22 09:50

Lab Sample ID: 480-195339-11

Matrix: Water

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			03/01/22 17:44	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/01/22 17:44	1
Toluene	ND		1.0	0.51	ug/L			03/01/22 17:44	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/01/22 17:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*		*03/01/22 17:44*	*1*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*		*03/01/22 17:44*	*1*
Dibromofluoromethane (Surr)	*103*		*75 - 123*		*03/01/22 17:44*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*03/01/22 17:44*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.52	0.038	ug/L		03/01/22 09:22	03/02/22 20:18	1
Acenaphthylene	ND		0.31	0.058	ug/L		03/01/22 09:22	03/02/22 20:18	1
Anthracene	ND		0.52	0.035	ug/L		03/01/22 09:22	03/02/22 20:18	1
Benzo[a]anthracene	ND		0.31	0.035	ug/L		03/01/22 09:22	03/02/22 20:18	1
Benzo[a]pyrene	ND		0.19	0.14	ug/L		03/01/22 09:22	03/02/22 20:18	1
Benzo[b]fluoranthene	ND		0.31	0.066	ug/L		03/01/22 09:22	03/02/22 20:18	1
Benzo[g,h,i]perylene	ND		0.52	0.060	ug/L		03/01/22 09:22	03/02/22 20:18	1
Benzo[k]fluoranthene	ND		0.31	0.073	ug/L		03/01/22 09:22	03/02/22 20:18	1
Chrysene	ND		0.52	0.077	ug/L		03/01/22 09:22	03/02/22 20:18	1
Dibenz(a,h)anthracene	ND		0.52	0.073	ug/L		03/01/22 09:22	03/02/22 20:18	1
Fluoranthene	ND		0.52	0.083	ug/L		03/01/22 09:22	03/02/22 20:18	1
Fluorene	ND		0.52	0.060	ug/L		03/01/22 09:22	03/02/22 20:18	1
Indeno[1,2,3-cd]pyrene	ND		0.52	0.11	ug/L		03/01/22 09:22	03/02/22 20:18	1
Naphthalene	ND		1.0	0.067	ug/L		03/01/22 09:22	03/02/22 20:18	1
Phenanthrene	ND		0.21	0.065	ug/L		03/01/22 09:22	03/02/22 20:18	1
Pyrene	ND		0.52	0.079	ug/L		03/01/22 09:22	03/02/22 20:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*106*		*37 - 120*	*03/01/22 09:22*	*03/02/22 20:18*	*1*
Nitrobenzene-d5 (Surr)	*97*		*26 - 120*	*03/01/22 09:22*	*03/02/22 20:18*	*1*
p-Terphenyl-d14	*107*		*64 - 127*	*03/01/22 09:22*	*03/02/22 20:18*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		03/01/22 12:48	03/01/22 14:32	1

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

Job ID: 480-195339-1

Client Sample ID: DUP-20222502

Date Collected: 02/25/22 00:00
Date Received: 02/26/22 09:50

Lab Sample ID: 480-195339-12

Matrix: Water

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			03/01/22 18:06	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/01/22 18:06	1
Toluene	ND		1.0	0.51	ug/L			03/01/22 18:06	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/01/22 18:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*77 - 120*		*03/01/22 18:06*	*1*
4-Bromofluorobenzene (Surr)	*106*		*73 - 120*		*03/01/22 18:06*	*1*
Dibromofluoromethane (Surr)	*106*		*75 - 123*		*03/01/22 18:06*	*1*
Toluene-d8 (Surr)	*105*		*80 - 120*		*03/01/22 18:06*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.51	0.037	ug/L		03/01/22 09:22	03/02/22 20:46	1
Acenaphthylene	ND		0.31	0.057	ug/L		03/01/22 09:22	03/02/22 20:46	1
Anthracene	ND		0.51	0.035	ug/L		03/01/22 09:22	03/02/22 20:46	1
Benzo[a]anthracene	ND		0.31	0.035	ug/L		03/01/22 09:22	03/02/22 20:46	1
Benzo[a]pyrene	ND		0.18	0.13	ug/L		03/01/22 09:22	03/02/22 20:46	1
Benzo[b]fluoranthene	ND		0.31	0.064	ug/L		03/01/22 09:22	03/02/22 20:46	1
Benzo[g,h,i]perylene	ND		0.51	0.059	ug/L		03/01/22 09:22	03/02/22 20:46	1
Benzo[k]fluoranthene	ND		0.31	0.071	ug/L		03/01/22 09:22	03/02/22 20:46	1
Chrysene	ND		0.51	0.076	ug/L		03/01/22 09:22	03/02/22 20:46	1
Dibenz(a,h)anthracene	ND		0.51	0.071	ug/L		03/01/22 09:22	03/02/22 20:46	1
Fluoranthene	ND		0.51	0.082	ug/L		03/01/22 09:22	03/02/22 20:46	1
Fluorene	ND		0.51	0.059	ug/L		03/01/22 09:22	03/02/22 20:46	1
Indeno[1,2,3-cd]pyrene	ND		0.51	0.11	ug/L		03/01/22 09:22	03/02/22 20:46	1
Naphthalene	ND		1.0	0.065	ug/L		03/01/22 09:22	03/02/22 20:46	1
Phenanthrene	ND		0.20	0.063	ug/L		03/01/22 09:22	03/02/22 20:46	1
Pyrene	ND		0.51	0.078	ug/L		03/01/22 09:22	03/02/22 20:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*106*		*37 - 120*	*03/01/22 09:22*	*03/02/22 20:46*	*1*
Nitrobenzene-d5 (Surr)	*97*		*26 - 120*	*03/01/22 09:22*	*03/02/22 20:46*	*1*
p-Terphenyl-d14	*104*		*64 - 127*	*03/01/22 09:22*	*03/02/22 20:46*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		03/01/22 12:48	03/01/22 14:33	1

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

Job ID: 480-195339-1

Client Sample ID: TRIP BLANK

Date Collected: 02/25/22 00:00
Date Received: 02/26/22 09:50

Lab Sample ID: 480-195339-13

Matrix: Water

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			02/28/22 14:33	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/28/22 14:33	1
Toluene	ND		1.0	0.51	ug/L			02/28/22 14:33	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/28/22 14:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*		*02/28/22 14:33*	*1*
4-Bromofluorobenzene (Surr)	*114*		*73 - 120*		*02/28/22 14:33*	*1*
Dibromofluoromethane (Surr)	*110*		*75 - 123*		*02/28/22 14:33*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*02/28/22 14:33*	*1*

Surrogate Summary

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

Job ID: 480-195339-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(75-123)	(80-120)
480-195339-1	PRMW-1S	102	108	106	104
480-195339-2	PRMW-2D	102	102	106	101
480-195339-2 MS	PRMW-2D	104	110	102	102
480-195339-2 MSD	PRMW-2D	101	104	107	101
480-195339-3	PRMW-2S	103	101	106	101
480-195339-4	PRMW-3D	101	107	106	102
480-195339-5	PRMW-3S	103	106	104	100
480-195339-6	PRMW-4S	99	98	104	99
480-195339-7	PRMW-5D	98	100	100	100
480-195339-8	PRMW-5S	98	100	98	99
480-195339-9	PRMW-6D	104	110	106	97
480-195339-10	PRMW-6S	99	104	100	102
480-195339-11	TMW-1D	100	103	103	94
480-195339-12	DUP-20222502	105	106	106	105
480-195339-13	TRIP BLANK	104	114	110	97
LCS 480-616208/5	Lab Control Sample	101	109	111	101
LCS 480-616317/4	Lab Control Sample	103	100	104	100
MB 480-616208/7	Method Blank	102	119	106	95
MB 480-616317/6	Method Blank	104	98	103	99

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPHd14
Lab Sample ID	Client Sample ID	(37-120)	(26-120)	(64-127)
480-195339-1	PRMW-1S	91	83	92
480-195339-2	PRMW-2D	109	100	106
480-195339-2 MS	PRMW-2D	106	101	96
480-195339-2 MSD	PRMW-2D	110	99	95
480-195339-3	PRMW-2S	110	100	108
480-195339-4	PRMW-3D	106	95	99
480-195339-5	PRMW-3S	106	96	107
480-195339-6	PRMW-4S	109	86	93
480-195339-7	PRMW-5D	109	99	83
480-195339-8	PRMW-5S	108	95	104
480-195339-8 - DL	PRMW-5S	104	88	102
480-195339-9	PRMW-6D	97	87	97
480-195339-10	PRMW-6S	102	90	103
480-195339-11	TMW-1D	106	97	107
480-195339-12	DUP-20222502	106	97	104
LCS 480-616346/2-A	Lab Control Sample	112	104	111
MB 480-616346/1-A	Method Blank	107	98	111

Surrogate Legend

Surrogate Summary

Client: New York State Electric & Gas
Job ID: 480-195339-1
Project/Site: NYSEG - Penn Yan Water St. MGP

FBP = 2-Fluorobiphenyl
NBZ = Nitrobenzene-d5 (Surr)
TPHd14 = p-Terphenyl-d14

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

Lab Sample ID: MB 480-616208/7
Matrix: Water
Analysis Batch: 616208

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			02/28/22 11:42	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/28/22 11:42	1
Toluene	ND		1.0	0.51	ug/L			02/28/22 11:42	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/28/22 11:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*77 - 120*		*02/28/22 11:42*	*1*
4-Bromofluorobenzene (Surr)	*119*		*73 - 120*		*02/28/22 11:42*	*1*
Dibromofluoromethane (Surr)	*106*		*75 - 123*		*02/28/22 11:42*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*02/28/22 11:42*	*1*

Lab Sample ID: LCS 480-616208/5
Matrix: Water
Analysis Batch: 616208

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	25.0	23.1		ug/L		92	71 - 124
Ethylbenzene	25.0	23.4		ug/L		94	77 - 123
Toluene	25.0	22.8		ug/L		91	80 - 122
Xylenes, Total	50.0	48.4		ug/L		97	76 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*
4-Bromofluorobenzene (Surr)	*109*		*73 - 120*
Dibromofluoromethane (Surr)	*111*		*75 - 123*
Toluene-d8 (Surr)	*101*		*80 - 120*

Lab Sample ID: MB 480-616317/6
Matrix: Water
Analysis Batch: 616317

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			03/01/22 11:13	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/01/22 11:13	1
Toluene	ND		1.0	0.51	ug/L			03/01/22 11:13	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/01/22 11:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*		*03/01/22 11:13*	*1*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*		*03/01/22 11:13*	*1*
Dibromofluoromethane (Surr)	*103*		*75 - 123*		*03/01/22 11:13*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*03/01/22 11:13*	*1*

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

Lab Sample ID: LCS 480-616317/4
Matrix: Water
Analysis Batch: 616317

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			25.0	24.9		ug/L		99	71 - 124		
Ethylbenzene			25.0	24.5		ug/L		98	77 - 123		
Toluene			25.0	24.5		ug/L		98	80 - 122		
Xylenes, Total			50.0	49.9		ug/L		100	76 - 122		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*
Dibromofluoromethane (Surr)	*104*		*75 - 123*
Toluene-d8 (Surr)	*100*		*80 - 120*

Lab Sample ID: 480-195339-2 MS
Matrix: Water
Analysis Batch: 616317

Client Sample ID: PRMW-2D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	ND		25.0	30.3		ug/L		121	71 - 124		
Ethylbenzene	ND		25.0	30.1		ug/L		121	77 - 123		
Toluene	ND		25.0	28.9		ug/L		116	80 - 122		
Xylenes, Total	ND		50.0	59.3		ug/L		119	76 - 122		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*
4-Bromofluorobenzene (Surr)	*110*		*73 - 120*
Dibromofluoromethane (Surr)	*102*		*75 - 123*
Toluene-d8 (Surr)	*102*		*80 - 120*

Lab Sample ID: 480-195339-2 MSD
Matrix: Water
Analysis Batch: 616317

Client Sample ID: PRMW-2D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	ND		25.0	30.4		ug/L		122	71 - 124	0	13
Ethylbenzene	ND		25.0	29.5		ug/L		118	77 - 123	2	15
Toluene	ND		25.0	29.2		ug/L		117	80 - 122	1	15
Xylenes, Total	ND		50.0	59.0		ug/L		118	76 - 122	1	16

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*
4-Bromofluorobenzene (Surr)	*104*		*73 - 120*
Dibromofluoromethane (Surr)	*107*		*75 - 123*
Toluene-d8 (Surr)	*101*		*80 - 120*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Lab Sample ID: MB 480-616346/1-A
Matrix: Water
Analysis Batch: 616405

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 616346

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.50	0.036	ug/L		03/01/22 09:22	03/01/22 21:41	1
Acenaphthylene	ND		0.30	0.056	ug/L		03/01/22 09:22	03/01/22 21:41	1
Anthracene	ND		0.50	0.034	ug/L		03/01/22 09:22	03/01/22 21:41	1
Benzo[a]anthracene	ND		0.30	0.034	ug/L		03/01/22 09:22	03/01/22 21:41	1
Benzo[a]pyrene	ND		0.18	0.13	ug/L		03/01/22 09:22	03/01/22 21:41	1
Benzo[b]fluoranthene	ND		0.30	0.063	ug/L		03/01/22 09:22	03/01/22 21:41	1
Benzo[g,h,i]perylene	ND		0.50	0.058	ug/L		03/01/22 09:22	03/01/22 21:41	1
Benzo[k]fluoranthene	ND		0.30	0.070	ug/L		03/01/22 09:22	03/01/22 21:41	1
Chrysene	ND		0.50	0.074	ug/L		03/01/22 09:22	03/01/22 21:41	1
Dibenz(a,h)anthracene	ND		0.50	0.070	ug/L		03/01/22 09:22	03/01/22 21:41	1
Fluoranthene	ND		0.50	0.080	ug/L		03/01/22 09:22	03/01/22 21:41	1
Fluorene	ND		0.50	0.058	ug/L		03/01/22 09:22	03/01/22 21:41	1
Indeno[1,2,3-cd]pyrene	ND		0.50	0.11	ug/L		03/01/22 09:22	03/01/22 21:41	1
Naphthalene	ND		1.0	0.064	ug/L		03/01/22 09:22	03/01/22 21:41	1
Phenanthrene	ND		0.20	0.062	ug/L		03/01/22 09:22	03/01/22 21:41	1
Pyrene	ND		0.50	0.076	ug/L		03/01/22 09:22	03/01/22 21:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*107*		*37 - 120*	*03/01/22 09:22*	*03/01/22 21:41*	*1*
Nitrobenzene-d5 (Surr)	*98*		*26 - 120*	*03/01/22 09:22*	*03/01/22 21:41*	*1*
p-Terphenyl-d14	*111*		*64 - 127*	*03/01/22 09:22*	*03/01/22 21:41*	*1*

Lab Sample ID: LCS 480-616346/2-A
Matrix: Water
Analysis Batch: 616405

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 616346

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	8.00	8.85		ug/L		111	62 - 120
Acenaphthylene	8.00	8.59		ug/L		107	57 - 120
Anthracene	8.00	9.38		ug/L		117	65 - 123
Benzo[a]anthracene	8.00	8.96		ug/L		112	77 - 123
Benzo[a]pyrene	8.00	7.51		ug/L		94	72 - 120
Benzo[b]fluoranthene	8.00	8.64		ug/L		108	73 - 123
Benzo[g,h,i]perylene	8.00	7.37		ug/L		92	48 - 150
Benzo[k]fluoranthene	8.00	8.17		ug/L		102	68 - 120
Chrysene	8.00	8.74		ug/L		109	75 - 120
Dibenz(a,h)anthracene	8.00	6.78		ug/L		85	54 - 147
Fluoranthene	8.00	9.82		ug/L		123	74 - 133
Fluorene	8.00	9.30		ug/L		116	64 - 120
Indeno[1,2,3-cd]pyrene	8.00	7.26		ug/L		91	55 - 150
Naphthalene	8.00	8.54		ug/L		107	40 - 138
Phenanthrene	8.00	9.13		ug/L		114	71 - 122
Pyrene	8.00	9.05		ug/L		113	65 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*112*		*37 - 120*
Nitrobenzene-d5 (Surr)	*104*		*26 - 120*
p-Terphenyl-d14	*111*		*64 - 127*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Lab Sample ID: 480-195339-2 MS
Matrix: Water
Analysis Batch: 616405

Client Sample ID: PRMW-2D
Prep Type: Total/NA
Prep Batch: 616346

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	ND		8.16	8.62		ug/L		106	35 - 125
Acenaphthylene	ND		8.16	8.27		ug/L		101	43 - 141
Anthracene	ND		8.16	8.93		ug/L		109	65 - 123
Benzo[a]anthracene	ND	F1	8.16	4.08	F1	ug/L		50	68 - 132
Benzo[a]pyrene	ND	F1	8.16	1.98	F1	ug/L		24	60 - 137
Benzo[b]fluoranthene	ND	F1	8.16	2.09	F1	ug/L		26	68 - 129
Benzo[g,h,i]perylene	ND	F1	8.16	1.84	F1	ug/L		22	48 - 150
Benzo[k]fluoranthene	ND	F1	8.16	2.28	F1	ug/L		28	55 - 142
Chrysene	ND	F1	8.16	4.29	F1	ug/L		53	66 - 144
Dibenz(a,h)anthracene	ND	F1	8.16	1.94	F1	ug/L		24	54 - 138
Fluoranthene	ND		8.16	8.52		ug/L		104	63 - 146
Fluorene	ND		8.16	9.02		ug/L		110	54 - 137
Indeno[1,2,3-cd]pyrene	ND	F1	8.16	1.91	F1	ug/L		23	55 - 140
Naphthalene	ND		8.16	8.27		ug/L		101	25 - 138
Phenanthrene	ND		8.16	8.83		ug/L		108	60 - 143
Pyrene	ND		8.16	8.12		ug/L		100	65 - 139

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*106*		*37 - 120*
Nitrobenzene-d5 (Surr)	*101*		*26 - 120*
p-Terphenyl-d14	*96*		*64 - 127*

Lab Sample ID: 480-195339-2 MSD
Matrix: Water
Analysis Batch: 616405

Client Sample ID: PRMW-2D
Prep Type: Total/NA
Prep Batch: 616346

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acenaphthene	ND		8.42	9.16		ug/L		109	35 - 125	6	24
Acenaphthylene	ND		8.42	8.83		ug/L		105	43 - 141	7	18
Anthracene	ND		8.42	9.43		ug/L		112	65 - 123	5	15
Benzo[a]anthracene	ND	F1	8.42	4.57	F1	ug/L		54	68 - 132	11	15
Benzo[a]pyrene	ND	F1	8.42	2.18	F1	ug/L		26	60 - 137	9	15
Benzo[b]fluoranthene	ND	F1	8.42	2.38	F1	ug/L		28	68 - 129	13	15
Benzo[g,h,i]perylene	ND	F1	8.42	2.10	F1	ug/L		25	48 - 150	13	15
Benzo[k]fluoranthene	ND	F1	8.42	2.55	F1	ug/L		30	55 - 142	11	22
Chrysene	ND	F1	8.42	4.64	F1	ug/L		55	66 - 144	8	15
Dibenz(a,h)anthracene	ND	F1	8.42	2.09	F1	ug/L		25	54 - 138	7	15
Fluoranthene	ND		8.42	8.94		ug/L		106	63 - 146	5	15
Fluorene	ND		8.42	9.50		ug/L		113	54 - 137	5	15
Indeno[1,2,3-cd]pyrene	ND	F1	8.42	2.11	F1	ug/L		25	55 - 140	10	15
Naphthalene	ND		8.42	8.65		ug/L		103	25 - 138	5	29
Phenanthrene	ND		8.42	9.20		ug/L		109	60 - 143	4	15
Pyrene	ND		8.42	8.70		ug/L		103	65 - 139	7	19

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*110*		*37 - 120*
Nitrobenzene-d5 (Surr)	*99*		*26 - 120*
p-Terphenyl-d14	*95*		*64 - 127*

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 480-616379/1-A
Matrix: Water
Analysis Batch: 616427

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 616379

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		03/01/22 12:48	03/01/22 13:40	1

Lab Sample ID: LCS 480-616379/2-A
Matrix: Water
Analysis Batch: 616427

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 616379

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.400	0.432		mg/L		108	90 - 110

Lab Sample ID: LCS 480-616379/3-A
Matrix: Water
Analysis Batch: 616427

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 616379

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.250	0.234		mg/L		94	90 - 110

Lab Sample ID: 480-195339-2 MS
Matrix: Water
Analysis Batch: 616427

Client Sample ID: PRMW-2D
Prep Type: Total/NA
Prep Batch: 616379

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	ND		0.100	0.0946		mg/L		95	90 - 110

Lab Sample ID: 480-195339-2 MSD
Matrix: Water
Analysis Batch: 616427

Client Sample ID: PRMW-2D
Prep Type: Total/NA
Prep Batch: 616379

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	ND		0.100	0.101		mg/L		101	90 - 110	7	15

QC Association Summary

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

Job ID: 480-195339-1

GC/MS VOA

Analysis Batch: 616208

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-195339-13	TRIP BLANK	Total/NA	Water	8260C	
MB 480-616208/7	Method Blank	Total/NA	Water	8260C	
LCS 480-616208/5	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 616317

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-195339-1	PRMW-1S	Total/NA	Water	8260C	
480-195339-2	PRMW-2D	Total/NA	Water	8260C	
480-195339-3	PRMW-2S	Total/NA	Water	8260C	
480-195339-4	PRMW-3D	Total/NA	Water	8260C	
480-195339-5	PRMW-3S	Total/NA	Water	8260C	
480-195339-6	PRMW-4S	Total/NA	Water	8260C	
480-195339-7	PRMW-5D	Total/NA	Water	8260C	
480-195339-8	PRMW-5S	Total/NA	Water	8260C	
480-195339-9	PRMW-6D	Total/NA	Water	8260C	
480-195339-10	PRMW-6S	Total/NA	Water	8260C	
480-195339-11	TMW-1D	Total/NA	Water	8260C	
480-195339-12	DUP-20222502	Total/NA	Water	8260C	
MB 480-616317/6	Method Blank	Total/NA	Water	8260C	
LCS 480-616317/4	Lab Control Sample	Total/NA	Water	8260C	
480-195339-2 MS	PRMW-2D	Total/NA	Water	8260C	
480-195339-2 MSD	PRMW-2D	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 616346

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-195339-1	PRMW-1S	Total/NA	Water	3510C	
480-195339-2	PRMW-2D	Total/NA	Water	3510C	
480-195339-3	PRMW-2S	Total/NA	Water	3510C	
480-195339-4	PRMW-3D	Total/NA	Water	3510C	
480-195339-5	PRMW-3S	Total/NA	Water	3510C	
480-195339-6	PRMW-4S	Total/NA	Water	3510C	
480-195339-7	PRMW-5D	Total/NA	Water	3510C	
480-195339-8	PRMW-5S	Total/NA	Water	3510C	
480-195339-8 - DL	PRMW-5S	Total/NA	Water	3510C	
480-195339-9	PRMW-6D	Total/NA	Water	3510C	
480-195339-10	PRMW-6S	Total/NA	Water	3510C	
480-195339-11	TMW-1D	Total/NA	Water	3510C	
480-195339-12	DUP-20222502	Total/NA	Water	3510C	
MB 480-616346/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-616346/2-A	Lab Control Sample	Total/NA	Water	3510C	
480-195339-2 MS	PRMW-2D	Total/NA	Water	3510C	
480-195339-2 MSD	PRMW-2D	Total/NA	Water	3510C	

Analysis Batch: 616405

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-195339-1	PRMW-1S	Total/NA	Water	8270D LL	616346
480-195339-2	PRMW-2D	Total/NA	Water	8270D LL	616346
480-195339-3	PRMW-2S	Total/NA	Water	8270D LL	616346
480-195339-4	PRMW-3D	Total/NA	Water	8270D LL	616346

GC/MS Semi VOA (Continued)

Analysis Batch: 616405 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-195339-5	PRMW-3S	Total/NA	Water	8270D LL	616346
MB 480-616346/1-A	Method Blank	Total/NA	Water	8270D LL	616346
LCS 480-616346/2-A	Lab Control Sample	Total/NA	Water	8270D LL	616346
480-195339-2 MS	PRMW-2D	Total/NA	Water	8270D LL	616346
480-195339-2 MSD	PRMW-2D	Total/NA	Water	8270D LL	616346

Analysis Batch: 616525

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-195339-6	PRMW-4S	Total/NA	Water	8270D LL	616346
480-195339-7	PRMW-5D	Total/NA	Water	8270D LL	616346
480-195339-8	PRMW-5S	Total/NA	Water	8270D LL	616346
480-195339-9	PRMW-6D	Total/NA	Water	8270D LL	616346
480-195339-10	PRMW-6S	Total/NA	Water	8270D LL	616346
480-195339-11	TMW-1D	Total/NA	Water	8270D LL	616346
480-195339-12	DUP-20222502	Total/NA	Water	8270D LL	616346

Analysis Batch: 616694

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-195339-8 - DL	PRMW-5S	Total/NA	Water	8270D LL	616346

General Chemistry

Prep Batch: 616379

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-195339-1	PRMW-1S	Total/NA	Water	9012B	
480-195339-2	PRMW-2D	Total/NA	Water	9012B	
480-195339-3	PRMW-2S	Total/NA	Water	9012B	
480-195339-4	PRMW-3D	Total/NA	Water	9012B	
480-195339-5	PRMW-3S	Total/NA	Water	9012B	
480-195339-6	PRMW-4S	Total/NA	Water	9012B	
480-195339-7	PRMW-5D	Total/NA	Water	9012B	
480-195339-8	PRMW-5S	Total/NA	Water	9012B	
480-195339-9	PRMW-6D	Total/NA	Water	9012B	
480-195339-10	PRMW-6S	Total/NA	Water	9012B	
480-195339-11	TMW-1D	Total/NA	Water	9012B	
480-195339-12	DUP-20222502	Total/NA	Water	9012B	
MB 480-616379/1-A	Method Blank	Total/NA	Water	9012B	
LCS 480-616379/2-A	Lab Control Sample	Total/NA	Water	9012B	
LCS 480-616379/3-A	Lab Control Sample	Total/NA	Water	9012B	
480-195339-2 MS	PRMW-2D	Total/NA	Water	9012B	
480-195339-2 MSD	PRMW-2D	Total/NA	Water	9012B	

Analysis Batch: 616410

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-195339-5	PRMW-3S	Total/NA	Water	9012B	616379
480-195339-6	PRMW-4S	Total/NA	Water	9012B	616379
480-195339-7	PRMW-5D	Total/NA	Water	9012B	616379
480-195339-8	PRMW-5S	Total/NA	Water	9012B	616379
480-195339-9	PRMW-6D	Total/NA	Water	9012B	616379
480-195339-10	PRMW-6S	Total/NA	Water	9012B	616379
480-195339-11	TMW-1D	Total/NA	Water	9012B	616379

General Chemistry (Continued)

Analysis Batch: 616410 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-195339-12	DUP-20222502	Total/NA	Water	9012B	616379

Analysis Batch: 616427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-195339-1	PRMW-1S	Total/NA	Water	9012B	616379
480-195339-2	PRMW-2D	Total/NA	Water	9012B	616379
480-195339-3	PRMW-2S	Total/NA	Water	9012B	616379
480-195339-4	PRMW-3D	Total/NA	Water	9012B	616379
MB 480-616379/1-A	Method Blank	Total/NA	Water	9012B	616379
LCS 480-616379/2-A	Lab Control Sample	Total/NA	Water	9012B	616379
LCS 480-616379/3-A	Lab Control Sample	Total/NA	Water	9012B	616379
480-195339-2 MS	PRMW-2D	Total/NA	Water	9012B	616379
480-195339-2 MSD	PRMW-2D	Total/NA	Water	9012B	616379

Lab Chronicle

Client: New York State Electric & Gas
Job ID: 480-195339-1
Project/Site: NYSEG - Penn Yan Water St. MGP

Client Sample ID: PRMW-1S
Lab Sample ID: 480-195339-1
Date Collected: 02/25/22 13:55
Matrix: Water
Date Received: 02/26/22 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	616317	03/01/22 13:56	OMI	TAL BUF
Total/NA	Prep	3510C			616346	03/01/22 09:22	JMP	TAL BUF
Total/NA	Analysis	8270D LL		1	616405	03/01/22 23:58	PJQ	TAL BUF
Total/NA	Prep	9012B			616379	03/01/22 12:48	RJM	TAL BUF
Total/NA	Analysis	9012B		1	616427	03/01/22 13:50	JGO	TAL BUF

Client Sample ID: PRMW-2D
Lab Sample ID: 480-195339-2
Date Collected: 02/25/22 15:00
Matrix: Water
Date Received: 02/26/22 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	616317	03/01/22 14:18	OMI	TAL BUF
Total/NA	Prep	3510C			616346	03/01/22 09:22	JMP	TAL BUF
Total/NA	Analysis	8270D LL		1	616405	03/01/22 23:30	PJQ	TAL BUF
Total/NA	Prep	9012B			616379	03/01/22 12:48	RJM	TAL BUF
Total/NA	Analysis	9012B		1	616427	03/01/22 13:46	JGO	TAL BUF

Client Sample ID: PRMW-2S
Lab Sample ID: 480-195339-3
Date Collected: 02/25/22 16:00
Matrix: Water
Date Received: 02/26/22 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	616317	03/01/22 14:41	OMI	TAL BUF
Total/NA	Prep	3510C			616346	03/01/22 09:22	JMP	TAL BUF
Total/NA	Analysis	8270D LL		1	616405	03/02/22 00:25	PJQ	TAL BUF
Total/NA	Prep	9012B			616379	03/01/22 12:48	RJM	TAL BUF
Total/NA	Analysis	9012B		1	616427	03/01/22 13:52	JGO	TAL BUF

Client Sample ID: PRMW-3D
Lab Sample ID: 480-195339-4
Date Collected: 02/25/22 13:30
Matrix: Water
Date Received: 02/26/22 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	616317	03/01/22 15:03	OMI	TAL BUF
Total/NA	Prep	3510C			616346	03/01/22 09:22	JMP	TAL BUF
Total/NA	Analysis	8270D LL		1	616405	03/02/22 00:53	PJQ	TAL BUF
Total/NA	Prep	9012B			616379	03/01/22 12:48	RJM	TAL BUF
Total/NA	Analysis	9012B		1	616427	03/01/22 13:53	JGO	TAL BUF

Client Sample ID: PRMW-3S
Lab Sample ID: 480-195339-5
Date Collected: 02/25/22 11:45
Matrix: Water
Date Received: 02/26/22 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	616317	03/01/22 15:25	OMI	TAL BUF

Lab Chronicle

Client: New York State Electric & Gas
Job ID: 480-195339-1
Project/Site: NYSEG - Penn Yan Water St. MGP

Client Sample ID: PRMW-3S
Lab Sample ID: 480-195339-5
Date Collected: 02/25/22 11:45
Matrix: Water
Date Received: 02/26/22 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			616346	03/01/22 09:22	JMP	TAL BUF
Total/NA	Analysis	8270D LL		1	616405	03/02/22 01:20	PJQ	TAL BUF
Total/NA	Prep	9012B			616379	03/01/22 12:48	RJM	TAL BUF
Total/NA	Analysis	9012B		1	616410	03/01/22 14:23	JGO	TAL BUF

Client Sample ID: PRMW-4S
Lab Sample ID: 480-195339-6
Date Collected: 02/25/22 10:00
Matrix: Water
Date Received: 02/26/22 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	616317	03/01/22 15:48	OMI	TAL BUF
Total/NA	Prep	3510C			616346	03/01/22 09:22	JMP	TAL BUF
Total/NA	Analysis	8270D LL		20	616525	03/02/22 18:00	PJQ	TAL BUF
Total/NA	Prep	9012B			616379	03/01/22 12:48	RJM	TAL BUF
Total/NA	Analysis	9012B		1	616410	03/01/22 14:25	JGO	TAL BUF

Client Sample ID: PRMW-5D
Lab Sample ID: 480-195339-7
Date Collected: 02/25/22 16:40
Matrix: Water
Date Received: 02/26/22 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	616317	03/01/22 16:16	OMI	TAL BUF
Total/NA	Prep	3510C			616346	03/01/22 09:22	JMP	TAL BUF
Total/NA	Analysis	8270D LL		1	616525	03/02/22 18:28	PJQ	TAL BUF
Total/NA	Prep	9012B			616379	03/01/22 12:48	RJM	TAL BUF
Total/NA	Analysis	9012B		1	616410	03/01/22 14:26	JGO	TAL BUF

Client Sample ID: PRMW-5S
Lab Sample ID: 480-195339-8
Date Collected: 02/25/22 14:15
Matrix: Water
Date Received: 02/26/22 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	616317	03/01/22 16:38	OMI	TAL BUF
Total/NA	Prep	3510C			616346	03/01/22 09:22	JMP	TAL BUF
Total/NA	Analysis	8270D LL		1	616525	03/02/22 18:56	PJQ	TAL BUF
Total/NA	Prep	3510C	DL		616346	03/01/22 09:22	JMP	TAL BUF
Total/NA	Analysis	8270D LL	DL	5	616694	03/03/22 18:06	PJQ	TAL BUF
Total/NA	Prep	9012B			616379	03/01/22 12:48	RJM	TAL BUF
Total/NA	Analysis	9012B		1	616410	03/01/22 14:28	JGO	TAL BUF

Lab Chronicle

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

Job ID: 480-195339-1

Client Sample ID: PRMW-6D
Date Collected: 02/25/22 14:30
Date Received: 02/26/22 09:50

Lab Sample ID: 480-195339-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	616317	03/01/22 17:00	OMI	TAL BUF
Total/NA	Prep	3510C			616346	03/01/22 09:22	JMP	TAL BUF
Total/NA	Analysis	8270D LL		1	616525	03/02/22 19:23	PJQ	TAL BUF
Total/NA	Prep	9012B			616379	03/01/22 12:48	RJM	TAL BUF
Total/NA	Analysis	9012B		1	616410	03/01/22 14:29	JGO	TAL BUF

Client Sample ID: PRMW-6S
Date Collected: 02/25/22 16:50
Date Received: 02/26/22 09:50

Lab Sample ID: 480-195339-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	616317	03/01/22 17:22	OMI	TAL BUF
Total/NA	Prep	3510C			616346	03/01/22 09:22	JMP	TAL BUF
Total/NA	Analysis	8270D LL		1	616525	03/02/22 19:51	PJQ	TAL BUF
Total/NA	Prep	9012B			616379	03/01/22 12:48	RJM	TAL BUF
Total/NA	Analysis	9012B		1	616410	03/01/22 14:31	JGO	TAL BUF

Client Sample ID: TMW-1D
Date Collected: 02/25/22 18:35
Date Received: 02/26/22 09:50

Lab Sample ID: 480-195339-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	616317	03/01/22 17:44	OMI	TAL BUF
Total/NA	Prep	3510C			616346	03/01/22 09:22	JMP	TAL BUF
Total/NA	Analysis	8270D LL		1	616525	03/02/22 20:18	PJQ	TAL BUF
Total/NA	Prep	9012B			616379	03/01/22 12:48	RJM	TAL BUF
Total/NA	Analysis	9012B		1	616410	03/01/22 14:32	JGO	TAL BUF

Client Sample ID: DUP-20222502
Date Collected: 02/25/22 00:00
Date Received: 02/26/22 09:50

Lab Sample ID: 480-195339-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	616317	03/01/22 18:06	OMI	TAL BUF
Total/NA	Prep	3510C			616346	03/01/22 09:22	JMP	TAL BUF
Total/NA	Analysis	8270D LL		1	616525	03/02/22 20:46	PJQ	TAL BUF
Total/NA	Prep	9012B			616379	03/01/22 12:48	RJM	TAL BUF
Total/NA	Analysis	9012B		1	616410	03/01/22 14:33	JGO	TAL BUF

Client Sample ID: TRIP BLANK
Date Collected: 02/25/22 00:00
Date Received: 02/26/22 09:50

Lab Sample ID: 480-195339-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	616208	02/28/22 14:33	AXK	TAL BUF

Lab Chronicle

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

Job ID: 480-195339-1

Laboratory References:

TAL BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: New York State Electric & Gas
Job ID: 480-195339-1
Project/Site: NYSEG - Penn Yan Water St. MGP

Laboratory: Eurofins Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-22

Method Summary

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

Job ID: 480-195339-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D LL	Semivolatile Organic Compounds by GC/MS - Low Level	SW846	TAL BUF
9012B	Cyanide, Total andor Amenable	SW846	TAL BUF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF
9012B	Cyanide, Total and/or Amenable, Distillation	SW846	TAL BUF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

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

Job ID: 480-195339-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-195339-1	PRMW-1S	Water	02/25/22 13:55	02/26/22 09:50
480-195339-2	PRMW-2D	Water	02/25/22 15:00	02/26/22 09:50
480-195339-3	PRMW-2S	Water	02/25/22 16:00	02/26/22 09:50
480-195339-4	PRMW-3D	Water	02/25/22 13:30	02/26/22 09:50
480-195339-5	PRMW-3S	Water	02/25/22 11:45	02/26/22 09:50
480-195339-6	PRMW-4S	Water	02/25/22 10:00	02/26/22 09:50
480-195339-7	PRMW-5D	Water	02/25/22 16:40	02/26/22 09:50
480-195339-8	PRMW-5S	Water	02/25/22 14:15	02/26/22 09:50
480-195339-9	PRMW-6D	Water	02/25/22 14:30	02/26/22 09:50
480-195339-10	PRMW-6S	Water	02/25/22 16:50	02/26/22 09:50
480-195339-11	TMW-1D	Water	02/25/22 18:35	02/26/22 09:50
480-195339-12	DUP-20222502	Water	02/25/22 00:00	02/26/22 09:50
480-195339-13	TRIP BLANK	Water	02/25/22 00:00	02/26/22 09:50

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive

Amherst, NY 14228-2223
phone 716.691.2600 fax 716.691.7991

Chain of Custody Record

eurofins | Environment Testing America

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc. d/b/a Eurofins TestAmerica

Client Contact	Project Manager: Nicholas Beyrle	Site Contact: A. Svensson	Date: 2/24/22 - 2/25/22	COC No: 480-170856-36782.1
Mr. John Ruspantini - NYSEG	Email: nicholas.beyrle@arcadis.com	Lab Contact: Schove, John R	Carrier: drop-off	1 of 1 COCs
PO box 5224	Tel/Fax: 585 662 4044			TALS Project #:
Binghamton NY, 13902	Analysis Turnaround Time			Sampler: A. Svensson, K. Fleming
585-484-6787	☑ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
JJRuspantini@nyseg.com	TAT if different from Below _____			Walk-in Client:
NYSEG Former MGP Site - Penn Yan	☑ 2 weeks			Lab Sampling:
PN: 30055489.1	☐ 1 week			Job / SDG No.:
P O # TBD	☐ 2 days			48024595
	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	8260C - BTEX	8270D_LL - Low Level PAH Semivola	9012B - Cyanide, Total	Sample Specific Notes:
PRMW-1S	2/25/2022	1355	G	GW	6	N	N	X	X	X	
PRMW-2D	2/25/2022	1500	G	GW	18	N	Y	X	X	X	MS/MSD
PRMW-2S	2/25/2022	1600	G	GW	6	N	N	X	X	X	
PRMW-3D	2/25/2022	1330	G	GW	6	N	N	X	X	X	
PRMW-3S	2/25/2022	1145	G	GW	6	N	N	X	X	X	
PRMW-4S	2/25/2022	1000	G	GW	6	N	N	X	X	X	
PRMW-5D	2/24/2022	1640	G	GW	6	N	N	X	X	X	
PRMW-5S	2/24/2022	1415	G	GW	6	N	N	X	X	X	
PRMW-6D	2/24/2022	1430	G	GW	6	N	N	X	X	X	
PRMW-6S	2/24/2022	1650	G	GW	6	N	N	X	X	X	
TMW-1D	2/25/2022	1835	G	GW	6	N	N	X	X	X	
DUP-20222502	2/25/2022	-----	G	GW	6	N	N	X	X	X	
TRIP BLANK	2/11/2022	-----	G	W	6	N	N	X			
								2		5	

480-195339 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

2.9, 2.5, 2.1, 2.7, 3.1, 2.2 #1 ice

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ Therm ID No.: _____		
Relinquished by: Adam Svensson	Company: Arcadis	Date/Time: 2/26/22 0950	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TAL	Date/Time: 2/26/22 950

Login Sample Receipt Checklist

Client: New York State Electric & Gas

Job Number: 480-195339-1

Login Number: 195339
List Number: 1
Creator: Sabuda, Brendan D

List Source: Eurofins 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	2.9 2.5 2.1 2.7 3.1 2.2 #1 ICE
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	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	

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ANALYTICAL REPORT

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-195340-1
Client Project/Site: NYSEG - Penn Yan Water St. MGP
Revision: 1

For:
New York State Electric & Gas
18 Link Drive
Binghamton, New York 13902

Attn: Mr. John J Ruspantini

Authorized for release by:
3/9/2022 5:39:19 PM
Rebecca Jones, Project Management Assistant I
Rebecca.Jones@Eurofinset.com

Designee for

John Schove, Project Manager II
(716)504-9838
John.Schove@Eurofinset.com

Table of Contents

Definitions/Glossary

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

Job ID: 480-195340-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

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

Job ID: 480-195340-1

Job ID: 480-195340-1

Laboratory: Eurofins Buffalo

Narrative

Job Narrative
480-195340-1

Revision
This report has been revised to correct the project to the Water St. site.

Comments
No additional comments.

Receipt
The samples were received on 2/26/2022 9:52 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.5º C.

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

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

Detection Summary

Client: New York State Electric & Gas
Job ID: 480-195340-1
Project/Site: NYSEG - Penn Yan Water St. MGP

Client Sample ID: PRMW-1S — Lab Sample ID: 480-195340-1

No Detections.

Client Sample ID: PRMW-3S — Lab Sample ID: 480-195340-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.10	J	0.20	0.10	ug/L	1		8270D SIM ID	Total/NA

Client Sample ID: PRMW-6S — Lab Sample ID: 480-195340-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.85		0.20	0.10	ug/L	1		8270D SIM ID	Total/NA

Client Sample ID: DUP-20222502 — Lab Sample ID: 480-195340-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	2.5		0.20	0.10	ug/L	1		8270D SIM ID	Total/NA

Client Sample ID: FB-01 — Lab Sample ID: 480-195340-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	3.7		0.20	0.10	ug/L	1		8270D SIM ID	Total/NA

Client Sample ID: EB-01 — Lab Sample ID: 480-195340-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.96		0.21	0.10	ug/L	1		8270D SIM ID	Total/NA

This Detection Summary does not include radiochemical test results.

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

Job ID: 480-195340-1

Client Sample ID: PRMW-1S
Lab Sample ID: 480-195340-1
Date Collected: 02/25/22 13:55
Matrix: Water
Date Received: 02/26/22 09:52

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.10	ug/L		03/01/22 09:37	03/02/22 16:36	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*34*		*15 - 110*	*03/01/22 09:37*	*03/02/22 16:36*	*1*

Client Sample ID: PRMW-3S
Lab Sample ID: 480-195340-2
Date Collected: 02/25/22 11:45
Matrix: Water
Date Received: 02/26/22 09:52

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.10	J	0.20	0.10	ug/L		03/01/22 09:37	03/02/22 16:13	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*31*		*15 - 110*	*03/01/22 09:37*	*03/02/22 16:13*	*1*

Client Sample ID: PRMW-6S
Lab Sample ID: 480-195340-3
Date Collected: 02/25/22 16:50
Matrix: Water
Date Received: 02/26/22 09:52

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.85		0.20	0.10	ug/L		03/01/22 09:37	03/02/22 16:58	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*36*		*15 - 110*	*03/01/22 09:37*	*03/02/22 16:58*	*1*

Client Sample ID: DUP-20222502
Lab Sample ID: 480-195340-4
Date Collected: 02/25/22 00:00
Matrix: Water
Date Received: 02/26/22 09:52

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.5		0.20	0.10	ug/L		03/01/22 09:37	03/02/22 17:21	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*27*		*15 - 110*	*03/01/22 09:37*	*03/02/22 17:21*	*1*

Client Sample ID: FB-01
Lab Sample ID: 480-195340-5
Date Collected: 02/25/22 14:15
Matrix: Water
Date Received: 02/26/22 09:52

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	3.7		0.20	0.10	ug/L		03/01/22 09:37	03/02/22 17:43	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*34*		*15 - 110*	*03/01/22 09:37*	*03/02/22 17:43*	*1*

Client Sample ID: EB-01
Lab Sample ID: 480-195340-6
Date Collected: 02/25/22 14:10
Matrix: Water
Date Received: 02/26/22 09:52

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.96		0.21	0.10	ug/L		03/01/22 09:37	03/02/22 18:05	1

Client Sample Results

Client: New York State Electric & Gas
Job ID: 480-195340-1
Project/Site: NYSEG - Penn Yan Water St. MGP

Client Sample ID: EB-01
Lab Sample ID: 480-195340-6
Date Collected: 02/25/22 14:10
Matrix: Water
Date Received: 02/26/22 09:52

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	36		15 - 110	03/01/22 09:37	03/02/22 18:05	1

Isotope Dilution Summary

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

Job ID: 480-195340-1

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Matrix: Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)						
Lab Sample ID	Client Sample ID	DXE (15-110)						
480-195340-1	PRMW-1S	34						
480-195340-2	PRMW-3S	31						
480-195340-2 MS	PRMW-3S	36						
480-195340-2 MSD	PRMW-3S	34						
480-195340-3	PRMW-6S	36						
480-195340-4	DUP-20222502	27						
480-195340-5	FB-01	34						
480-195340-6	EB-01	36						
LCS 480-616350/2-A	Lab Control Sample	38						
MB 480-616350/1-A	Method Blank	35						

Surrogate Legend

DXE = 1,4-Dioxane-d8

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Lab Sample ID: MB 480-616350/1-A
Matrix: Water
Analysis Batch: 616534

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 616350

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.10	ug/L		03/01/22 09:37	03/02/22 14:45	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*35*		*15 - 110*	*03/01/22 09:37*	*03/02/22 14:45*	*1*

Lab Sample ID: LCS 480-616350/2-A
Matrix: Water
Analysis Batch: 616534

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 616350

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dioxane			2.00	2.13		ug/L		106	40 - 140		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,4-Dioxane-d8	*38*		*15 - 110*

Lab Sample ID: 480-195340-2 MS
Matrix: Water
Analysis Batch: 616534

Client Sample ID: PRMW-3S
Prep Type: Total/NA
Prep Batch: 616350

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dioxane	0.10	J	2.08	2.23		ug/L		102	40 - 140		

Isotope Dilution	*MS %Recovery*	*MS Qualifier*	*Limits*
1,4-Dioxane-d8	*36*		*15 - 110*

Lab Sample ID: 480-195340-2 MSD
Matrix: Water
Analysis Batch: 616534

Client Sample ID: PRMW-3S
Prep Type: Total/NA
Prep Batch: 616350

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane	0.10	J	2.00	2.19		ug/L		104	40 - 140	2	20

Isotope Dilution	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,4-Dioxane-d8	*34*		*15 - 110*

QC Association Summary

Client: New York State Electric & Gas
Job ID: 480-195340-1
Project/Site: NYSEG - Penn Yan Water St. MGP

GC/MS Semi VOA

Prep Batch: 616350

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-195340-1	PRMW-1S	Total/NA	Water	3510C	
480-195340-2	PRMW-3S	Total/NA	Water	3510C	
480-195340-3	PRMW-6S	Total/NA	Water	3510C	
480-195340-4	DUP-20222502	Total/NA	Water	3510C	
480-195340-5	FB-01	Total/NA	Water	3510C	
480-195340-6	EB-01	Total/NA	Water	3510C	
MB 480-616350/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-616350/2-A	Lab Control Sample	Total/NA	Water	3510C	
480-195340-2 MS	PRMW-3S	Total/NA	Water	3510C	
480-195340-2 MSD	PRMW-3S	Total/NA	Water	3510C	

Analysis Batch: 616534

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-195340-1	PRMW-1S	Total/NA	Water	8270D SIM ID	616350
480-195340-2	PRMW-3S	Total/NA	Water	8270D SIM ID	616350
480-195340-3	PRMW-6S	Total/NA	Water	8270D SIM ID	616350
480-195340-4	DUP-20222502	Total/NA	Water	8270D SIM ID	616350
480-195340-5	FB-01	Total/NA	Water	8270D SIM ID	616350
480-195340-6	EB-01	Total/NA	Water	8270D SIM ID	616350
MB 480-616350/1-A	Method Blank	Total/NA	Water	8270D SIM ID	616350
LCS 480-616350/2-A	Lab Control Sample	Total/NA	Water	8270D SIM ID	616350
480-195340-2 MS	PRMW-3S	Total/NA	Water	8270D SIM ID	616350
480-195340-2 MSD	PRMW-3S	Total/NA	Water	8270D SIM ID	616350

Lab Chronicle

Client: New York State Electric & Gas
Job ID: 480-195340-1
Project/Site: NYSEG - Penn Yan Water St. MGP

Client Sample ID: PRMW-1S
Lab Sample ID: 480-195340-1
Date Collected: 02/25/22 13:55
Matrix: Water
Date Received: 02/26/22 09:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			616350	03/01/22 09:37	JMP	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	616534	03/02/22 16:36	PJQ	TAL BUF

Client Sample ID: PRMW-3S
Lab Sample ID: 480-195340-2
Date Collected: 02/25/22 11:45
Matrix: Water
Date Received: 02/26/22 09:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			616350	03/01/22 09:37	JMP	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	616534	03/02/22 16:13	PJQ	TAL BUF

Client Sample ID: PRMW-6S
Lab Sample ID: 480-195340-3
Date Collected: 02/25/22 16:50
Matrix: Water
Date Received: 02/26/22 09:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			616350	03/01/22 09:37	JMP	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	616534	03/02/22 16:58	PJQ	TAL BUF

Client Sample ID: DUP-20222502
Lab Sample ID: 480-195340-4
Date Collected: 02/25/22 00:00
Matrix: Water
Date Received: 02/26/22 09:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			616350	03/01/22 09:37	JMP	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	616534	03/02/22 17:21	PJQ	TAL BUF

Client Sample ID: FB-01
Lab Sample ID: 480-195340-5
Date Collected: 02/25/22 14:15
Matrix: Water
Date Received: 02/26/22 09:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			616350	03/01/22 09:37	JMP	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	616534	03/02/22 17:43	PJQ	TAL BUF

Client Sample ID: EB-01
Lab Sample ID: 480-195340-6
Date Collected: 02/25/22 14:10
Matrix: Water
Date Received: 02/26/22 09:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			616350	03/01/22 09:37	JMP	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	616534	03/02/22 18:05	PJQ	TAL BUF

Laboratory References:
TAL BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: New York State Electric & Gas
Job ID: 480-195340-1
Project/Site: NYSEG - Penn Yan Water St. MGP

Laboratory: Eurofins Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	04-01-22

Method Summary

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

Job ID: 480-195340-1

Method	Method Description	Protocol	Laboratory
8270D SIM ID	Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)	SW846	TAL BUF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL BUF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

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

Job ID: 480-195340-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-195340-1	PRMW-1S	Water	02/25/22 13:55	02/26/22 09:52
480-195340-2	PRMW-3S	Water	02/25/22 11:45	02/26/22 09:52
480-195340-3	PRMW-6S	Water	02/25/22 16:50	02/26/22 09:52
480-195340-4	DUP-20222502	Water	02/25/22 00:00	02/26/22 09:52
480-195340-5	FB-01	Water	02/25/22 14:15	02/26/22 09:52
480-195340-6	EB-01	Water	02/25/22 14:10	02/26/22 09:52

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive

Amherst, NY 14228-2223
phone 716.691.2600 fax 716.691.7991

Chain of Custody Record

eurofins | Environment Testing America

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc. d/b/a Eurofins TestAmerica

Client Contact	**Project Manager: Nicholas Beyrle**	**Site Contact: A. Svensson**	**Date: 2/24/22 - 2/25/22**
Mr. John Ruspantini - NYSEG	Email: nicholas.beyrle@arcadis.com	**Lab Contact: Schove, John R**	**Carrier: drop-off**
PO box 5224	**Tel/Fax: 585 662 4044**		
Binghamton NY, 13902	**Analysis Turnaround Time**		
585-484-6787	☑ CALENDAR DAYS ☐ WORKING DAYS		
JJRuspantini@nyseg.com	TAT if different from Below _____		
NYSEG Former MGP Site - Penn Yan	☑ 2 weeks		
PN: 30055489.1	☐ 1 week		
P O # TBD	☐ 2 days		
	☐ 1 day		

COC No: 480-170857-37076.1
1 of 1 COCs
TALS Project #:
Sampler: A. Svensson, K. Fleming
For Lab Use Only:
Walk-in Client:
Lab Sampling:
Job / SDG No.:
48024595

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	8270D_SIM_MS_ID - 1,4 Dioxane	Sample Specific Notes:
PRMW-1S	2/25/2022	1355	G	GW	2	N	N	X	Sampled using 1L ambers
PRMW-3S	2/25/2022	1145	G	GW	6	N	Y	X	MS/MSD
PRMW-6S	2/24/2022	1650	G	GW	2	N	N	X	
DUP-20222502	2/25/2022	----	G	GW	2	N	N	X	
FB-01	2/25/2022	1415	G	GW	2	N	N	X	Field Blank
EB-01	2/25/2022	1410	G	GW	2	N	N	X	Equipment Blank

480-195340 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments: PRMW-1S sampled using 1L ambers, ran out of 250mL ambers.

2.5 #1

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd:_____ Corr'd:_____		Therm ID No.:_____	
Relinquished by: Adam Svensson	Company: Arcadis	Date/Time: 2/26/22 0950	Received by:	Company:	Date/Time:	
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:	
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: DHB	Date/Time: 2/26/22 950	

Form No. CA-C-WI-002, Rev. 4.35, dated 10/6/2020

Login Sample Receipt Checklist

Client: New York State Electric & Gas

Job Number: 480-195340-1

Login Number: 195340
List Number: 1
Creator: Sabuda, Brendan D

List Source: Eurofins 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	2.5 #1 ICE
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	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	

Attachment 3

Data Usability Summary Reports

NYSEG Penn Yan
Former MGP Site

Data Usability Summary Report

Penn Yan, New York

Volatile Organic Compound (VOC), Semi-volatile Organic Compound (SVOC), and Miscellaneous Analyses

SDG # 480-195339-1

Analyses Performed By:
Eurofins Buffalo
Amherst, New York

Report # 45140R
Review Level: Tier III
Project: 30126623.2

Summary

This Data Usability Summary Report (DUSR) summarizes the review of Sample Delivery Group (SDG) # 480-195339-1 for samples collected in association with the NYSEG Penn Yan Former MGP Site. The review was conducted as a Tier III evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis		
					VOC	SVOC	MISC
PRMW-1S	480-195339-1	Water	02/25/2022		X	X	X
PRMW-2D	480-195339-2	Water	02/25/2022		X	X	X
PRMW-2S	480-195339-3	Water	02/25/2022		X	X	X
PRMW-3D	480-195339-4	Water	02/25/2022		X	X	X
PRMW-3S	480-195339-5	Water	02/25/2022		X	X	X
PRMW-4S	480-195339-6	Water	02/25/2022		X	X	X
PRMW-5D	480-195339-7	Water	02/24/2022		X	X	X
PRMW-5S	480-195339-8	Water	02/24/2022		X	X	X
PRMW-6D	480-195339-9	Water	02/24/2022		X	X	X
PRMW-6S	480-195339-10	Water	02/24/2022		X	X	X
TMW-1D	480-195339-11	Water	02/25/2022		X	X	X
DUP-20222502	480-195339-12	Water	02/25/2022	PRMW-3S	X	X	X
TRIP BLANK	480-195339-13	Water	02/11/2022		X		

Notes:

VOC = Volatile Organic Compounds

SVOC = Semi-volatile Organic Compounds

MISC = Miscellaneous analyses includes Total cyanide

Analytical Data Package Documentation

The table below evaluates the data package completeness.

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		X		X	
3. Master tracking list		X		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		X	
6. Sample collection date		X	X	X	
7. Laboratory sample received date		X		X	
8. Sample preservation verification (as applicable)		X		X	
9. Sample preparation/extraction/analysis dates		X		X	
10. Fully executed chain-of-custody form		X		X	
11. Narrative summary of QA or sample problems provided		X		X	
12. Data package completeness and compliance		X		X	

Note:
QA = quality assurance

6. The samples PRMW-5D (480-195339-7), PRMW-5S (480-195339-8), PRMW-6D (480-195339-9) and PRMW-6S (480-195339-10) collection dates did not match between chain-of-custody (COC) and sample result pages. The sample result pages list as 02/25/2022 while the COC list as 02/24/2022. The collection date per COC was considered and corrected in this review report.

The sample TRIP BLANK (480-195339-13) collection dates did not match between chain-of-custody (COC) and sample result pages. The sample result pages list as 02/25/2022 while the COC list as 02/11/2022. The collection date per COC was considered and corrected in this review report.

Organic Analysis Introduction

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Method 8260C and 8270D. Data were reviewed in accordance with USEPA National Functional Guidelines for Organic Superfund Methods Data Review, EPA 540-R-20-005, November 2020 (with reference to the historical USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review, OSWER 9240.1-05A-P, October 1999), as appropriate and applicable Region II SOPs. USEPA NFGs and Region II SOPs were followed for qualification purposes.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers
  - U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
  - B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.
- Quantitation (Q) Qualifiers
  - E The compound was quantitated above the calibration range.
  - D Concentration is based on a diluted sample analysis.
- Validation Qualifiers
  - J The compound was positively identified; however, the associated numerical value is an estimated concentration only.
  - UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.
  - JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.
  - UB Compound is considered non-detect at the listed value due to associated blank contamination.
  - N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.
  - R The sample results are rejected.

The "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second

fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Volatile Organic Compound (VOC) Analyses

1. Holding Times

The specified holding times for the following methods are presented in the table below.

Method	Matrix	Holding Time	Preservation
SW-846 8260C	Water	14 days from collection to analysis (preserved) 7 days from collection to analysis (non-preserved)	Cool to <6 °C; preserved to a pH of less than 2 s.u. with hydrochloric acid.

Note:
s.u. = standard units

The analyses that exceeded the holding are presented in the following table.

Sample ID	Holding Time	Criteria
TRIP BLANK	Analysis completed on 17th day from collection	14 days from collection to analysis (preserved)

Sample results associated with sample locations analyzed by analytical method SW-846 8260C were qualified, as specified in the table below. All other holding times were met.

Criteria	Qualification	
	Detected Analytes	Non-detect Analytes
Analysis completed less than two times holding time	J	UJ
Analysis completed greater than two times holding time	J	R

Note: The sample PRMW-5D (480-195339-7) was collected in a properly preserved vial; however, the pH was outside the required criteria when verified by the laboratory. The sample was analyzed within the 7-day holding time specified for unpreserved samples. Hence, qualification of the sample result was not required.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compounds were not detected above the MDL in the associated blanks; therefore, detected sample results were not associated with blank contamination.

3. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable and all analyses were performed within a 12-hour tune clock.

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (20%) or a correlation coefficient greater than 0.99 and an RRF value greater than control limit (0.05).

4.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the calibrations were within the specified control limits.

5. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. VOC analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

6. Internal Standard Performance

Internal standard performance criteria ensure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria require the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

The MS/MSD analysis performed on sample PRMW-2D exhibited acceptable recoveries and RPDs between the MS/MSD recoveries.

8. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

All compounds associated with the LCS analysis exhibited recoveries within the control limits.

9. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water.

Results for duplicate samples are summarized in the following table.

Sample ID / Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
PRMW-3S / DUP-20222502	All target compounds	U	U	AC

Note:
AC = Acceptable

The results between the parent sample and field duplicate were acceptable.

10. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

All identified compounds met the specified criteria.

11. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for VOCs

VOCs: SW-846 8260C	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
Tier II Validation					
Holding times		X	X		
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X		X	
B. Equipment blanks	X				X
C. Trip blanks		X		X	
Laboratory Control Sample (LCS) %R		X		X	
Laboratory Control Sample Duplicate (LCSD) %R	X				X
LCS/LCSD Precision (RPD)	X				X
Matrix Spike (MS) %R		X		X	
Matrix Spike Duplicate (MSD) %R		X		X	
MS/MSD Precision (RPD)		X		X	
Field/Lab Duplicate (RPD)		X		X	
Surrogate Spike Recoveries		X		X	
Dilution Factor		X		X	
Moisture Content	X				X
Tier III Validation					
System performance and column resolution		X		X	
Initial calibration %RSDs		X		X	
Initial calibration %Ds		X		X	

VOCs: SW-846 8260C	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
Continuing calibration RRFs		X		X	
Continuing calibration %Ds		X		X	
Instrument tune and performance check		X		X	
Ion abundance criteria for each instrument used		X		X	
Internal standard		X		X	
Compound identification and quantitation					
A. Reconstructed ion chromatograms		X		X	
B. Quantitation Reports		X		X	
C. RT of sample compounds within the established RT windows		X		X	
D. Transcription/calculation errors present		X		X	
E. Reporting limits adjusted to reflect sample dilutions		X		X	

Notes:

%RSD Relative standard deviation
%R Percent recovery
RPD Relative percent difference
%D Percent difference

Semi-volatile Organic Compound (SVOC) Analyses

1. Holding Times

The specified holding times for the following methods are presented in the table below.

Method	Matrix	Holding Time	Preservation
SW-846 8270D	Water	7 days from collection to extraction and 40 days from extraction to analysis	Cool to <6 °C

All samples were analyzed within the specified holding time criterion.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compounds were not detected above the MDL in the associated blanks; therefore, detected sample results were not associated with blank contamination.

3. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable and all analyses were performed within a 12-hour tune clock.

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (20%) or a correlation coefficient greater than 0.99 and an RRF value greater than control limit (0.05).

4.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the calibrations were within the specified control limits.

5. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. VOC analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

6. Internal Standard Performance

Internal standard performance criteria ensure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria require the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on samples where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

The MS/MSD analysis performed on sample PRMW-2D exhibiting recoveries outside of the control limits are presented in the following table.

Sample ID	Compounds	MS Recovery	MSD Recovery
PRMW-2D	Benzo[a]anthracene	< LL but > 10%	< LL but > 10%
	Benzo[a]pyrene	< LL but > 10%	< LL but > 10%
	Benzo[b]fluoranthene	< LL but > 10%	< LL but > 10%
	Benzo[g,h,i]perylene	< LL but > 10%	< LL but > 10%
	Benzo[k]fluoranthene	< LL but > 10%	< LL but > 10%
	Chrysene	< LL but > 10%	< LL but > 10%

Sample ID	Compounds	MS Recovery	MSD Recovery
	Dibenz (a, h) anthracene	< LL but > 10%	< LL but > 10%
	Indeno[1,2,3-cd]pyrene	< LL but > 10%	< LL but > 10%

Note:
LL = Lower control limit

The criteria used to evaluate the MS/MSD recoveries are presented in the following table. In the case of an MS/MSD deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> the upper control limit (UL)	Non-detect	No Action
	Detect	J
< the lower control limit (LL) but > 10%	Non-detect	UJ
	Detect	J
< 10%	Non-detect	R
	Detect	J
Parent sample concentration > four times the MS/MSD spiking solution concentration.	Detect	No Action

8. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

All compounds associated with the LCS analysis exhibited recoveries within the control limits.

9. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water.

Results for duplicate samples are summarized in the following table.

Sample ID / Duplicate ID	Compound	Sample Result (µg/l)	Duplicate Result (µg/l)	RPD
PRMW-3S / DUP-20222502	All target compounds	U	U	AC

Note:
AC = Acceptable

The results between the parent sample and field duplicate were acceptable.

10. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

All identified compounds met the specified criteria.

Sample results associated with compound that exhibited a concentration greater than the linear range of the instrument calibration are summarized in the following table.

Sample ID	Compounds	Original Analysis	Diluted Analysis	Reported Analysis
PRMW-5S	Acenaphthene	22 E	26	26 D
	Naphthalene	18 E	26	26 D

Note: In the instance where both the original analysis and the diluted analysis sample results exhibited a concentration greater than and/or less than the calibration linear range of the instrument; the sample result exhibiting the greatest concentration will be reported as the final result.

Sample results associated with compounds exhibiting concentrations greater than the linear range are qualified as documented in the table below when reported as the final reported sample result.

Reported Sample Results	Qualification
Diluted sample result within calibration range	D
Diluted sample result less than the calibration range	DJ
Diluted sample result greater than the calibration range	EDJ
Original sample result greater than the calibration range	EJ

11. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for SVOCs

SVOCs: SW-846 8270D	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
Tier II Validation					
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X		X	
B. Equipment blanks	X				X
Laboratory Control Sample (LCS) %R		X		X	
Laboratory Control Sample Duplicate (LCSD) %R	X				X
LCS/LCSD Precision (RPD)	X				X
Matrix Spike (MS) %R		X	X		
Matrix Spike Duplicate (MSD) %R		X	X		
MS/MSD Precision (RPD)		X		X	
Field/Lab Duplicate (RPD)		X		X	
Surrogate Spike Recoveries		X		X	
Dilution Factor		X		X	
Moisture Content	X				X
Tier III Validation					
System performance and column resolution		X		X	
Initial calibration %RSDs		X		X	
Initial calibration %Ds		X		X	
Continuing calibration RRFs		X		X	
Continuing calibration %Ds		X		X	
Instrument tune and performance check		X		X	

SVOCs: SW-846 8270D	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
Ion abundance criteria for each instrument used		X		X	
Internal standard		X		X	
Compound identification and quantitation					
A. Reconstructed ion chromatograms		X		X	
B. Quantitation Reports		X		X	
C. RT of sample compounds within the established RT windows		X		X	
D. Transcription/calculation errors present		X		X	
E. Reporting limits adjusted to reflect sample dilutions		X		X	

Notes:

%RSD Relative standard deviation
%R Percent recovery
RPD Relative percent difference
%D Percent difference

Inorganic Analysis Introduction

Analyses were performed according to United States Environmental Protection Agency USEPA Method 9012B. Data were reviewed in accordance with USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, EPA 542-R-20-006, November 2020 (with reference to the historical USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, EPA 540-R-04-004, October 2004), as appropriate.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and that it was already subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with the USEPA National Functional Guidelines:

- Concentration (C) Qualifiers
  - U The analyte was analyzed for but not detected. The associated value is the analyte instrument detection limit.
  - J The reported value was obtained from a reading less than the reporting limit (RL), but greater than or equal to the method detection limit (MDL).
- Quantitation (Q) Qualifiers
  - E The reported value is estimated due to the presence of interference.
  - N Spiked sample recovery is not within control limits.
  - * Duplicate analysis is not within control limits.
- Validation Qualifiers
  - J The analyte was positively identified; however, the associated numerical value is an estimated concentration only.
  - UJ The analyte was not detected above the reporting limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.
  - UB Analyte considered non-detect at the listed value due to associated blank contamination.
  - R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

General Chemistry Analyses

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
Total Cyanide by SW-846 9012B	Water	14 days from collection to analysis	Cool to <6 °C; preserved to a pH of greater than 12 with NaOH.

All samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Analytes were not detected above the MDL in the associated blanks; therefore, detected sample results were not associated with blank contamination.

3. Calibration

Satisfactory instrument calibration is established to provide that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument's continuing performance is satisfactory.

3.1 Initial Calibration and Continuing Calibration

The correct number and type of standards were analyzed. The correlation coefficient of the initial calibration was greater than 0.995 for all non-ICP analytes and all initial calibration verification standard recoveries were within control limits.

All initial and continuing calibration verification standard recoveries were within the control limit.

4. Matrix Spike (MS)/Matrix Spike Duplicate (MSD)/Laboratory Duplicate Analysis

MS/MSD and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

4.1 MS/MSD Analysis

All analytes must exhibit a percent recovery within the established acceptance limits of 75% to 125%. The MS recovery control limits do not apply for MS/MSD performed on sample locations where the analyte's concentration detected in the parent sample exceeds the MS concentration by a factor of four or greater. In instance where this is true, the data will not be qualified even if the percent recovery does not meet the control limits and the laboratory flag will be removed.

The MS/MSD analysis performed on sample PRMW-2D exhibited recoveries and RPD within the control limits.

4.2 Laboratory Duplicate Analysis

The laboratory duplicate relative percent difference (RPD) criterion is applied when parent and duplicate sample concentrations are greater than or equal to 5 times the RL. A control limit of 20% for water matrices and 35% for soil matrices is applied when the criteria above is true. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of one time the RL is applied for water matrices and two times the RL for soil matrices.

MS/MSD analysis performed in replacement of the laboratory duplicate analysis. The MS/MSD recoveries exhibited acceptable RPD.

5. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

Results for duplicate samples are summarized in the following table.

Sample ID / Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
PRMW-3S / DUP-20222502	Total Cyanide	U	U	AC

Note:
AC = Acceptable

The result between the parent sample and field duplicate were acceptable.

6. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS analysis must exhibit a percent recovery between the control limits of 80% and 120%.

The LCS analysis exhibited recoveries within the control limits.

7. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for General Chemistry

General Chemistry: SW-846 9012B	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Miscellaneous Instrumentation					
Tier II Validation					
Holding Times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Instrument Blanks	X				X
B. Method Blanks		X		X	
C. Equipment/Field Blanks	X				X
Laboratory Control Sample (LCS) %R		X		X	
Matrix Spike (MS) %R		X		X	
Matrix Spike Duplicate (MSD) %R		X		X	
MS/MSD Precision (RPD)		X		X	
Field/Lab Duplicate (RPD)		X		X	
Tier III Validation					
Initial Calibration Verification		X		X	
Continuing Calibration Verification		X		X	
Transcription/calculations acceptable		X		X	
Raw Data		X		X	
Reporting limits adjusted to reflect sample dilutions		X		X	

Notes:

%R Percent recovery

RPD Relative percent difference

SAMPLE COMPLIANCE REPORT

Sample Delivery Group (SDG)	Sampling Date	Protocol	Sample ID	Matrix	Compliancy[1]			Noncompliance
					VOC	SVOC	MISC	
480-195339-1	02/25/2022	SW846	PRMW-1S	Water	Yes	Yes	Yes	--
	02/25/2022	SW846	PRMW-2D	Water	Yes	No	Yes	SVOC- MS/MSD %R
	02/25/2022	SW846	PRMW-2S	Water	Yes	Yes	Yes	--
	02/25/2022	SW846	PRMW-3D	Water	Yes	Yes	Yes	--
	02/25/2022	SW846	PRMW-3S	Water	Yes	Yes	Yes	--
	02/25/2022	SW846	PRMW-4S	Water	Yes	Yes	Yes	--
	02/24/2022	SW846	PRMW-5D	Water	Yes	Yes	Yes	--
	02/24/2022	SW846	PRMW-5S	Water	Yes	Yes	Yes	--
	02/24/2022	SW846	PRMW-6D	Water	Yes	Yes	Yes	--
	02/24/2022	SW846	PRMW-6S	Water	Yes	Yes	Yes	--
	02/25/2022	SW846	TMW-1D	Water	Yes	Yes	Yes	--
	02/25/2022	SW846	DUP-20222502	Water	Yes	Yes	Yes	--
	02/11/2022	SW846	TRIP BLANK	Water	No	--	--	VOC- Hold Time

Note:

1 Samples which are compliant with no added validation qualifiers are listed as "yes". Samples which are non-compliant or which have added qualifiers are listed as "no". A "no" designation does not necessarily indicate that the data have been rejected or are otherwise unusable.

VALIDATION PERFORMED BY: Vinayak Hegde

SIGNATURE: 

DATE: July 13, 2022

PEER REVIEW: Joseph C. Houser

DATE: July 13, 2022

Chain of Custody Corrected Sample Analysis Data Sheets

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive

Amherst, NY 14228-2223
phone 716.691.2600 fax 716.691.7991

Chain of Custody Record

eurofins | Environment Testing America

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc. d/b/a Eurofins TestAmerica

Client Contact	Project Manager: Nicholas Beyrle	Site Contact: A. Svensson	Date: 2/24/22 - 2/25/22	COC No: 480-170856-36782.1
Mr. John Ruspantini - NYSEG	Email: nicholas.beyrle@arcadis.com	Lab Contact: Schove, John R	Carrier: drop-off	1 of 1 COCs
PO box 5224	Tel/Fax: 585 662 4044			TALS Project #:
Binghamton NY, 13902	Analysis Turnaround Time			Sampler: A. Svensson, K. Fleming
585-484-6787	☑ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
JJRuspantini@nyseg.com	TAT if different from Below _____			Walk-in Client:
NYSEG Former MGP Site - Penn Yan	☑ 2 weeks			Lab Sampling:
PN: 30055489.1	☐ 1 week			Job / SDG No.:
P O # TBD	☐ 2 days			48024595
	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	8260C - BTEX	8270D_LL - Low Level PAH Semivola	9012B - Cyanide, Total	Sample Specific Notes:
PRMW-1S	2/25/2022	1355	G	GW	6	N	N	X	X	X	
PRMW-2D	2/25/2022	1500	G	GW	18	N	Y	X	X	X	MS/MSD
PRMW-2S	2/25/2022	1600	G	GW	6	N	N	X	X	X	
PRMW-3D	2/25/2022	1330	G	GW	6	N	N	X	X	X	
PRMW-3S	2/25/2022	1145	G	GW	6	N	N	X	X	X	
PRMW-4S	2/25/2022	1000	G	GW	6	N	N	X	X	X	
PRMW-5D	2/24/2022	1640	G	GW	6	N	N	X	X	X	
PRMW-5S	2/24/2022	1415	G	GW	6	N	N	X	X	X	
PRMW-6D	2/24/2022	1430	G	GW	6	N	N	X	X	X	
PRMW-6S	2/24/2022	1650	G	GW	6	N	N	X	X	X	
TMW-1D	2/25/2022	1835	G	GW	6	N	N	X	X	X	
DUP-20222502	2/25/2022	-----	G	GW	6	N	N	X	X	X	
TRIP BLANK	2/11/2022	-----	G	W	6	N	N	X			
								2		5	

480-195339 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

2.9, 2.5, 2.1, 2.7, 3.1, 2.2 #1 ice

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: _____ Corr'd: _____	Therm ID No.: _____	
Relinquished by: Adam Svensson	Company: Arcadis	Date/Time: 2/26/22 0950	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TAL	Date/Time: 2/26/22 950

Form No. CA-C-WI-002, Rev. 4.35, dated 10/6/2020

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

Job ID: 480-195339-1

Client Sample ID: PRMW-1S

Date Collected: 02/25/22 13:55
Date Received: 02/26/22 09:50

Lab Sample ID: 480-195339-1

Matrix: Water

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			03/01/22 13:56	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/01/22 13:56	1
Toluene	ND		1.0	0.51	ug/L			03/01/22 13:56	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/01/22 13:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*77 - 120*		*03/01/22 13:56*	*1*
4-Bromofluorobenzene (Surr)	*108*		*73 - 120*		*03/01/22 13:56*	*1*
Dibromofluoromethane (Surr)	*106*		*75 - 123*		*03/01/22 13:56*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*		*03/01/22 13:56*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.50	0.036	ug/L		03/01/22 09:22	03/01/22 23:58	1
Acenaphthylene	ND		0.30	0.056	ug/L		03/01/22 09:22	03/01/22 23:58	1
Anthracene	ND		0.50	0.034	ug/L		03/01/22 09:22	03/01/22 23:58	1
Benzo[a]anthracene	ND		0.30	0.034	ug/L		03/01/22 09:22	03/01/22 23:58	1
Benzo[a]pyrene	ND		0.18	0.13	ug/L		03/01/22 09:22	03/01/22 23:58	1
Benzo[b]fluoranthene	ND		0.30	0.063	ug/L		03/01/22 09:22	03/01/22 23:58	1
Benzo[g,h,i]perylene	ND		0.50	0.058	ug/L		03/01/22 09:22	03/01/22 23:58	1
Benzo[k]fluoranthene	ND		0.30	0.070	ug/L		03/01/22 09:22	03/01/22 23:58	1
Chrysene	ND		0.50	0.074	ug/L		03/01/22 09:22	03/01/22 23:58	1
Dibenz(a,h)anthracene	ND		0.50	0.070	ug/L		03/01/22 09:22	03/01/22 23:58	1
Fluoranthene	ND		0.50	0.080	ug/L		03/01/22 09:22	03/01/22 23:58	1
Fluorene	ND		0.50	0.058	ug/L		03/01/22 09:22	03/01/22 23:58	1
Indeno[1,2,3-cd]pyrene	ND		0.50	0.11	ug/L		03/01/22 09:22	03/01/22 23:58	1
Naphthalene	ND		1.0	0.064	ug/L		03/01/22 09:22	03/01/22 23:58	1
Phenanthrene	ND		0.20	0.062	ug/L		03/01/22 09:22	03/01/22 23:58	1
Pyrene	ND		0.50	0.076	ug/L		03/01/22 09:22	03/01/22 23:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*91*		*37 - 120*	*03/01/22 09:22*	*03/01/22 23:58*	*1*
Nitrobenzene-d5 (Surr)	*83*		*26 - 120*	*03/01/22 09:22*	*03/01/22 23:58*	*1*
p-Terphenyl-d14	*92*		*64 - 127*	*03/01/22 09:22*	*03/01/22 23:58*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		03/01/22 12:48	03/01/22 13:50	1

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

Job ID: 480-195339-1

Client Sample ID: PRMW-2D

Date Collected: 02/25/22 15:00
Date Received: 02/26/22 09:50

Lab Sample ID: 480-195339-2

Matrix: Water

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			03/01/22 14:18	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/01/22 14:18	1
Toluene	ND		1.0	0.51	ug/L			03/01/22 14:18	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/01/22 14:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*77 - 120*		*03/01/22 14:18*	*1*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*03/01/22 14:18*	*1*
Dibromofluoromethane (Surr)	*106*		*75 - 123*		*03/01/22 14:18*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*03/01/22 14:18*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.52	0.038	ug/L		03/01/22 09:22	03/01/22 23:30	1
Acenaphthylene	ND		0.31	0.058	ug/L		03/01/22 09:22	03/01/22 23:30	1
Anthracene	ND		0.52	0.035	ug/L		03/01/22 09:22	03/01/22 23:30	1
Benzo[a]anthracene	ND	F1 UJ	0.31	0.035	ug/L		03/01/22 09:22	03/01/22 23:30	1
Benzo[a]pyrene	ND	F1	0.19	0.14	ug/L		03/01/22 09:22	03/01/22 23:30	1
Benzo[b]fluoranthene	ND	F1	0.31	0.066	ug/L		03/01/22 09:22	03/01/22 23:30	1
Benzo[g,h,i]perylene	ND	F1	0.52	0.060	ug/L		03/01/22 09:22	03/01/22 23:30	1
Benzo[k]fluoranthene	ND	F1	0.31	0.073	ug/L		03/01/22 09:22	03/01/22 23:30	1
Chrysene	ND	F1	0.52	0.077	ug/L		03/01/22 09:22	03/01/22 23:30	1
Dibenz(a,h)anthracene	ND	F1	0.52	0.073	ug/L		03/01/22 09:22	03/01/22 23:30	1
Fluoranthene	ND		0.52	0.083	ug/L		03/01/22 09:22	03/01/22 23:30	1
Fluorene	ND		0.52	0.060	ug/L		03/01/22 09:22	03/01/22 23:30	1
Indeno[1,2,3-cd]pyrene	ND	F1 UJ	0.52	0.11	ug/L		03/01/22 09:22	03/01/22 23:30	1
Naphthalene	ND		1.0	0.067	ug/L		03/01/22 09:22	03/01/22 23:30	1
Phenanthrene	ND		0.21	0.065	ug/L		03/01/22 09:22	03/01/22 23:30	1
Pyrene	ND		0.52	0.079	ug/L		03/01/22 09:22	03/01/22 23:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*109*		*37 - 120*	*03/01/22 09:22*	*03/01/22 23:30*	*1*
Nitrobenzene-d5 (Surr)	*100*		*26 - 120*	*03/01/22 09:22*	*03/01/22 23:30*	*1*
p-Terphenyl-d14	*106*		*64 - 127*	*03/01/22 09:22*	*03/01/22 23:30*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		03/01/22 12:48	03/01/22 13:46	1

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

Job ID: 480-195339-1

Client Sample ID: PRMW-2S

Date Collected: 02/25/22 16:00
Date Received: 02/26/22 09:50

Lab Sample ID: 480-195339-3

Matrix: Water

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			03/01/22 14:41	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/01/22 14:41	1
Toluene	ND		1.0	0.51	ug/L			03/01/22 14:41	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/01/22 14:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*		*03/01/22 14:41*	*1*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*		*03/01/22 14:41*	*1*
Dibromofluoromethane (Surr)	*106*		*75 - 123*		*03/01/22 14:41*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*03/01/22 14:41*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.50	0.036	ug/L		03/01/22 09:22	03/02/22 00:25	1
Acenaphthylene	ND		0.30	0.056	ug/L		03/01/22 09:22	03/02/22 00:25	1
Anthracene	ND		0.50	0.034	ug/L		03/01/22 09:22	03/02/22 00:25	1
Benzo[a]anthracene	ND		0.30	0.034	ug/L		03/01/22 09:22	03/02/22 00:25	1
Benzo[a]pyrene	ND		0.18	0.13	ug/L		03/01/22 09:22	03/02/22 00:25	1
Benzo[b]fluoranthene	ND		0.30	0.063	ug/L		03/01/22 09:22	03/02/22 00:25	1
Benzo[g,h,i]perylene	ND		0.50	0.058	ug/L		03/01/22 09:22	03/02/22 00:25	1
Benzo[k]fluoranthene	ND		0.30	0.070	ug/L		03/01/22 09:22	03/02/22 00:25	1
Chrysene	ND		0.50	0.074	ug/L		03/01/22 09:22	03/02/22 00:25	1
Dibenz(a,h)anthracene	ND		0.50	0.070	ug/L		03/01/22 09:22	03/02/22 00:25	1
Fluoranthene	ND		0.50	0.080	ug/L		03/01/22 09:22	03/02/22 00:25	1
Fluorene	ND		0.50	0.058	ug/L		03/01/22 09:22	03/02/22 00:25	1
Indeno[1,2,3-cd]pyrene	ND		0.50	0.11	ug/L		03/01/22 09:22	03/02/22 00:25	1
Naphthalene	ND		1.0	0.064	ug/L		03/01/22 09:22	03/02/22 00:25	1
Phenanthrene	ND		0.20	0.062	ug/L		03/01/22 09:22	03/02/22 00:25	1
Pyrene	ND		0.50	0.076	ug/L		03/01/22 09:22	03/02/22 00:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*110*		*37 - 120*	*03/01/22 09:22*	*03/02/22 00:25*	*1*
Nitrobenzene-d5 (Surr)	*100*		*26 - 120*	*03/01/22 09:22*	*03/02/22 00:25*	*1*
p-Terphenyl-d14	*108*		*64 - 127*	*03/01/22 09:22*	*03/02/22 00:25*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**0.077**		0.010	0.0050	mg/L		03/01/22 12:48	03/01/22 13:52	1

Client Sample ID: PRMW-3D
Lab Sample ID: 480-195339-4

Date Collected: 02/25/22 13:30
Matrix: Water
Date Received: 02/26/22 09:50

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			03/01/22 15:03	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/01/22 15:03	1
Toluene	ND		1.0	0.51	ug/L			03/01/22 15:03	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/01/22 15:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*		*03/01/22 15:03*	*1*
4-Bromofluorobenzene (Surr)	*107*		*73 - 120*		*03/01/22 15:03*	*1*
Dibromofluoromethane (Surr)	*106*		*75 - 123*		*03/01/22 15:03*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*03/01/22 15:03*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.52	0.037	ug/L		03/01/22 09:22	03/02/22 00:53	1
Acenaphthylene	ND		0.31	0.058	ug/L		03/01/22 09:22	03/02/22 00:53	1
Anthracene	ND		0.52	0.035	ug/L		03/01/22 09:22	03/02/22 00:53	1
Benzo[a]anthracene	ND		0.31	0.035	ug/L		03/01/22 09:22	03/02/22 00:53	1
Benzo[a]pyrene	ND		0.19	0.13	ug/L		03/01/22 09:22	03/02/22 00:53	1
Benzo[b]fluoranthene	ND		0.31	0.065	ug/L		03/01/22 09:22	03/02/22 00:53	1
Benzo[g,h,i]perylene	ND		0.52	0.060	ug/L		03/01/22 09:22	03/02/22 00:53	1
Benzo[k]fluoranthene	ND		0.31	0.072	ug/L		03/01/22 09:22	03/02/22 00:53	1
Chrysene	ND		0.52	0.076	ug/L		03/01/22 09:22	03/02/22 00:53	1
Dibenz(a,h)anthracene	ND		0.52	0.072	ug/L		03/01/22 09:22	03/02/22 00:53	1
Fluoranthene	ND		0.52	0.082	ug/L		03/01/22 09:22	03/02/22 00:53	1
Fluorene	ND		0.52	0.060	ug/L		03/01/22 09:22	03/02/22 00:53	1
Indeno[1,2,3-cd]pyrene	ND		0.52	0.11	ug/L		03/01/22 09:22	03/02/22 00:53	1
Naphthalene	ND		1.0	0.066	ug/L		03/01/22 09:22	03/02/22 00:53	1
Phenanthrene	ND		0.21	0.064	ug/L		03/01/22 09:22	03/02/22 00:53	1
Pyrene	ND		0.52	0.078	ug/L		03/01/22 09:22	03/02/22 00:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*106*		*37 - 120*	*03/01/22 09:22*	*03/02/22 00:53*	*1*
Nitrobenzene-d5 (Surr)	*95*		*26 - 120*	*03/01/22 09:22*	*03/02/22 00:53*	*1*
p-Terphenyl-d14	*99*		*64 - 127*	*03/01/22 09:22*	*03/02/22 00:53*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		03/01/22 12:48	03/01/22 13:53	1

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

Job ID: 480-195339-1

Client Sample ID: PRMW-3S

Date Collected: 02/25/22 11:45
Date Received: 02/26/22 09:50

Lab Sample ID: 480-195339-5

Matrix: Water

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			03/01/22 15:25	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/01/22 15:25	1
Toluene	ND		1.0	0.51	ug/L			03/01/22 15:25	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/01/22 15:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*		*03/01/22 15:25*	*1*
4-Bromofluorobenzene (Surr)	*106*		*73 - 120*		*03/01/22 15:25*	*1*
Dibromofluoromethane (Surr)	*104*		*75 - 123*		*03/01/22 15:25*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*03/01/22 15:25*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.51	0.037	ug/L		03/01/22 09:22	03/02/22 01:20	1
Acenaphthylene	ND		0.31	0.057	ug/L		03/01/22 09:22	03/02/22 01:20	1
Anthracene	ND		0.51	0.035	ug/L		03/01/22 09:22	03/02/22 01:20	1
Benzo[a]anthracene	ND		0.31	0.035	ug/L		03/01/22 09:22	03/02/22 01:20	1
Benzo[a]pyrene	ND		0.18	0.13	ug/L		03/01/22 09:22	03/02/22 01:20	1
Benzo[b]fluoranthene	ND		0.31	0.064	ug/L		03/01/22 09:22	03/02/22 01:20	1
Benzo[g,h,i]perylene	ND		0.51	0.059	ug/L		03/01/22 09:22	03/02/22 01:20	1
Benzo[k]fluoranthene	ND		0.31	0.071	ug/L		03/01/22 09:22	03/02/22 01:20	1
Chrysene	ND		0.51	0.076	ug/L		03/01/22 09:22	03/02/22 01:20	1
Dibenz(a,h)anthracene	ND		0.51	0.071	ug/L		03/01/22 09:22	03/02/22 01:20	1
Fluoranthene	ND		0.51	0.082	ug/L		03/01/22 09:22	03/02/22 01:20	1
Fluorene	ND		0.51	0.059	ug/L		03/01/22 09:22	03/02/22 01:20	1
Indeno[1,2,3-cd]pyrene	ND		0.51	0.11	ug/L		03/01/22 09:22	03/02/22 01:20	1
Naphthalene	ND		1.0	0.065	ug/L		03/01/22 09:22	03/02/22 01:20	1
Phenanthrene	ND		0.20	0.063	ug/L		03/01/22 09:22	03/02/22 01:20	1
Pyrene	ND		0.51	0.078	ug/L		03/01/22 09:22	03/02/22 01:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*106*		*37 - 120*	*03/01/22 09:22*	*03/02/22 01:20*	*1*
Nitrobenzene-d5 (Surr)	*96*		*26 - 120*	*03/01/22 09:22*	*03/02/22 01:20*	*1*
p-Terphenyl-d14	*107*		*64 - 127*	*03/01/22 09:22*	*03/02/22 01:20*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		03/01/22 12:48	03/01/22 14:23	1

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

Job ID: 480-195339-1

Client Sample ID: PRMW-4S

Date Collected: 02/25/22 10:00
Date Received: 02/26/22 09:50

Lab Sample ID: 480-195339-6

Matrix: Water

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			03/01/22 15:48	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/01/22 15:48	1
Toluene	ND		1.0	0.51	ug/L			03/01/22 15:48	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/01/22 15:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*77 - 120*		*03/01/22 15:48*	*1*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*		*03/01/22 15:48*	*1*
Dibromofluoromethane (Surr)	*104*		*75 - 123*		*03/01/22 15:48*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*03/01/22 15:48*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		10	0.73	ug/L		03/01/22 09:22	03/02/22 18:00	20
Acenaphthylene	ND		6.1	1.1	ug/L		03/01/22 09:22	03/02/22 18:00	20
Anthracene	ND		10	0.69	ug/L		03/01/22 09:22	03/02/22 18:00	20
Benzo[a]anthracene	ND		6.1	0.69	ug/L		03/01/22 09:22	03/02/22 18:00	20
Benzo[a]pyrene	ND		3.7	2.7	ug/L		03/01/22 09:22	03/02/22 18:00	20
Benzo[b]fluoranthene	ND		6.1	1.3	ug/L		03/01/22 09:22	03/02/22 18:00	20
Benzo[g,h,i]perylene	ND		10	1.2	ug/L		03/01/22 09:22	03/02/22 18:00	20
Benzo[k]fluoranthene	ND		6.1	1.4	ug/L		03/01/22 09:22	03/02/22 18:00	20
Chrysene	ND		10	1.5	ug/L		03/01/22 09:22	03/02/22 18:00	20
Dibenz(a,h)anthracene	ND		10	1.4	ug/L		03/01/22 09:22	03/02/22 18:00	20
Fluoranthene	ND		10	1.6	ug/L		03/01/22 09:22	03/02/22 18:00	20
Fluorene	ND		10	1.2	ug/L		03/01/22 09:22	03/02/22 18:00	20
Indeno[1,2,3-cd]pyrene	ND		10	2.2	ug/L		03/01/22 09:22	03/02/22 18:00	20
Naphthalene	ND		20	1.3	ug/L		03/01/22 09:22	03/02/22 18:00	20
Phenanthrene	ND		4.1	1.3	ug/L		03/01/22 09:22	03/02/22 18:00	20
Pyrene	ND		10	1.6	ug/L		03/01/22 09:22	03/02/22 18:00	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*109*		*37 - 120*	*03/01/22 09:22*	*03/02/22 18:00*	*20*
Nitrobenzene-d5 (Surr)	*86*		*26 - 120*	*03/01/22 09:22*	*03/02/22 18:00*	*20*
p-Terphenyl-d14	*93*		*64 - 127*	*03/01/22 09:22*	*03/02/22 18:00*	*20*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		03/01/22 12:48	03/01/22 14:25	1

Client Sample ID: PRMW-5D
Lab Sample ID: 480-195339-7

Date Collected: ~~02/25/22~~ 16:40 02/24/2022
Matrix: Water
Date Received: 02/26/22 09:50

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			03/01/22 16:16	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/01/22 16:16	1
Toluene	ND		1.0	0.51	ug/L			03/01/22 16:16	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/01/22 16:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*77 - 120*		*03/01/22 16:16*	*1*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*03/01/22 16:16*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 123*		*03/01/22 16:16*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*03/01/22 16:16*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.055**	**J**	0.51	0.036	ug/L		03/01/22 09:22	03/02/22 18:28	1
Acenaphthylene	ND		0.30	0.057	ug/L		03/01/22 09:22	03/02/22 18:28	1
Anthracene	ND		0.51	0.034	ug/L		03/01/22 09:22	03/02/22 18:28	1
Benzo[a]anthracene	ND		0.30	0.034	ug/L		03/01/22 09:22	03/02/22 18:28	1
Benzo[a]pyrene	ND		0.18	0.13	ug/L		03/01/22 09:22	03/02/22 18:28	1
Benzo[b]fluoranthene	ND		0.30	0.064	ug/L		03/01/22 09:22	03/02/22 18:28	1
Benzo[g,h,i]perylene	ND		0.51	0.059	ug/L		03/01/22 09:22	03/02/22 18:28	1
Benzo[k]fluoranthene	ND		0.30	0.071	ug/L		03/01/22 09:22	03/02/22 18:28	1
Chrysene	ND		0.51	0.075	ug/L		03/01/22 09:22	03/02/22 18:28	1
Dibenz(a,h)anthracene	ND		0.51	0.071	ug/L		03/01/22 09:22	03/02/22 18:28	1
Fluoranthene	ND		0.51	0.081	ug/L		03/01/22 09:22	03/02/22 18:28	1
Fluorene	ND		0.51	0.059	ug/L		03/01/22 09:22	03/02/22 18:28	1
Indeno[1,2,3-cd]pyrene	ND		0.51	0.11	ug/L		03/01/22 09:22	03/02/22 18:28	1
Naphthalene	ND		1.0	0.065	ug/L		03/01/22 09:22	03/02/22 18:28	1
Phenanthrene	**0.066**	**J**	0.20	0.063	ug/L		03/01/22 09:22	03/02/22 18:28	1
Pyrene	ND		0.51	0.077	ug/L		03/01/22 09:22	03/02/22 18:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*109*		*37 - 120*	*03/01/22 09:22*	*03/02/22 18:28*	*1*
Nitrobenzene-d5 (Surr)	*99*		*26 - 120*	*03/01/22 09:22*	*03/02/22 18:28*	*1*
p-Terphenyl-d14	*83*		*64 - 127*	*03/01/22 09:22*	*03/02/22 18:28*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		03/01/22 12:48	03/01/22 14:26	1

Client Sample ID: PRMW-5S

Date Collected: ~~02/25/22~~ 14:15 02/24/2022
Date Received: 02/26/22 09:50

Lab Sample ID: 480-195339-8

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	14		1.0	0.41	ug/L			03/01/22 16:38	1
Ethylbenzene	3.3		1.0	0.74	ug/L			03/01/22 16:38	1
Toluene	0.65	J	1.0	0.51	ug/L			03/01/22 16:38	1
Xylenes, Total	2.9		2.0	0.66	ug/L			03/01/22 16:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*77 - 120*		*03/01/22 16:38*	*1*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*03/01/22 16:38*	*1*
Dibromofluoromethane (Surr)	*98*		*75 - 123*		*03/01/22 16:38*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*03/01/22 16:38*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	22	E	0.53	0.038	ug/L		03/01/22 09:22	03/02/22 18:56	1
Acenaphthylene	5.2		0.32	0.060	ug/L		03/01/22 09:22	03/02/22 18:56	1
Anthracene	0.73		0.53	0.036	ug/L		03/01/22 09:22	03/02/22 18:56	1
Benzo[a]anthracene	ND		0.32	0.036	ug/L		03/01/22 09:22	03/02/22 18:56	1
Benzo[a]pyrene	ND		0.19	0.14	ug/L		03/01/22 09:22	03/02/22 18:56	1
Benzo[b]fluoranthene	ND		0.32	0.067	ug/L		03/01/22 09:22	03/02/22 18:56	1
Benzo[g,h,i]perylene	ND		0.53	0.062	ug/L		03/01/22 09:22	03/02/22 18:56	1
Benzo[k]fluoranthene	ND		0.32	0.074	ug/L		03/01/22 09:22	03/02/22 18:56	1
Chrysene	0.084	J	0.53	0.079	ug/L		03/01/22 09:22	03/02/22 18:56	1
Dibenz(a,h)anthracene	ND		0.53	0.074	ug/L		03/01/22 09:22	03/02/22 18:56	1
Fluoranthene	2.5		0.53	0.085	ug/L		03/01/22 09:22	03/02/22 18:56	1
Fluorene	10		0.53	0.062	ug/L		03/01/22 09:22	03/02/22 18:56	1
Indeno[1,2,3-cd]pyrene	ND		0.53	0.12	ug/L		03/01/22 09:22	03/02/22 18:56	1
Naphthalene	18	E	1.1	0.068	ug/L		03/01/22 09:22	03/02/22 18:56	1
Phenanthrene	9.8		0.21	0.066	ug/L		03/01/22 09:22	03/02/22 18:56	1
Pyrene	1.5		0.53	0.081	ug/L		03/01/22 09:22	03/02/22 18:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*108*		*37 - 120*	*03/01/22 09:22*	*03/02/22 18:56*	*1*
Nitrobenzene-d5 (Surr)	*95*		*26 - 120*	*03/01/22 09:22*	*03/02/22 18:56*	*1*
p-Terphenyl-d14	*104*		*64 - 127*	*03/01/22 09:22*	*03/02/22 18:56*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	26	D	2.7	0.19	ug/L		03/01/22 09:22	03/03/22 18:06	5
Acenaphthylene	4.9		1.6	0.30	ug/L		03/01/22 09:22	03/03/22 18:06	5
Anthracene	0.96	J	2.7	0.18	ug/L		03/01/22 09:22	03/03/22 18:06	5
Benzo[a]anthracene	ND		1.6	0.18	ug/L		03/01/22 09:22	03/03/22 18:06	5
Benzo[a]pyrene	ND		0.96	0.69	ug/L		03/01/22 09:22	03/03/22 18:06	5
Benzo[b]fluoranthene	ND		1.6	0.34	ug/L		03/01/22 09:22	03/03/22 18:06	5
Benzo[g,h,i]perylene	ND		2.7	0.31	ug/L		03/01/22 09:22	03/03/22 18:06	5
Benzo[k]fluoranthene	ND		1.6	0.37	ug/L		03/01/22 09:22	03/03/22 18:06	5
Chrysene	ND		2.7	0.39	ug/L		03/01/22 09:22	03/03/22 18:06	5
Dibenz(a,h)anthracene	ND		2.7	0.37	ug/L		03/01/22 09:22	03/03/22 18:06	5
Fluoranthene	2.5	J	2.7	0.43	ug/L		03/01/22 09:22	03/03/22 18:06	5
Fluorene	9.6		2.7	0.31	ug/L		03/01/22 09:22	03/03/22 18:06	5
Indeno[1,2,3-cd]pyrene	ND		2.7	0.59	ug/L		03/01/22 09:22	03/03/22 18:06	5

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

Job ID: 480-195339-1

Client Sample ID: PRMW-5S
Date Collected: ~~02/25/22~~ 14:15 02/24/2022
Date Received: 02/26/22 09:50

Lab Sample ID: 480-195339-8
Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	26	D	5.3	0.34	ug/L		03/01/22 09:22	03/03/22 18:06	5
Phenanthrene	10		1.1	0.33	ug/L		03/01/22 09:22	03/03/22 18:06	5
Pyrene	1.4	J	2.7	0.40	ug/L		03/01/22 09:22	03/03/22 18:06	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*104*		*37 - 120*	*03/01/22 09:22*	*03/03/22 18:06*	*5*
Nitrobenzene-d5 (Surr)	*88*		*26 - 120*	*03/01/22 09:22*	*03/03/22 18:06*	*5*
p-Terphenyl-d14	*102*		*64 - 127*	*03/01/22 09:22*	*03/03/22 18:06*	*5*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.076		0.010	0.0050	mg/L		03/01/22 12:48	03/01/22 14:28	1

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

Job ID: 480-195339-1

Client Sample ID: PRMW-6D

Date Collected: ~~02/25/22~~ 14:30 02/24/2022
Date Received: 02/26/22 09:50

Lab Sample ID: 480-195339-9

Matrix: Water

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			03/01/22 17:00	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/01/22 17:00	1
Toluene	ND		1.0	0.51	ug/L			03/01/22 17:00	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/01/22 17:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*		*03/01/22 17:00*	*1*
4-Bromofluorobenzene (Surr)	*110*		*73 - 120*		*03/01/22 17:00*	*1*
Dibromofluoromethane (Surr)	*106*		*75 - 123*		*03/01/22 17:00*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*03/01/22 17:00*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.50	0.036	ug/L		03/01/22 09:22	03/02/22 19:23	1
Acenaphthylene	ND		0.30	0.056	ug/L		03/01/22 09:22	03/02/22 19:23	1
Anthracene	ND		0.50	0.034	ug/L		03/01/22 09:22	03/02/22 19:23	1
Benzo[a]anthracene	ND		0.30	0.034	ug/L		03/01/22 09:22	03/02/22 19:23	1
Benzo[a]pyrene	ND		0.18	0.13	ug/L		03/01/22 09:22	03/02/22 19:23	1
Benzo[b]fluoranthene	ND		0.30	0.063	ug/L		03/01/22 09:22	03/02/22 19:23	1
Benzo[g,h,i]perylene	ND		0.50	0.058	ug/L		03/01/22 09:22	03/02/22 19:23	1
Benzo[k]fluoranthene	ND		0.30	0.070	ug/L		03/01/22 09:22	03/02/22 19:23	1
Chrysene	ND		0.50	0.074	ug/L		03/01/22 09:22	03/02/22 19:23	1
Dibenz(a,h)anthracene	ND		0.50	0.070	ug/L		03/01/22 09:22	03/02/22 19:23	1
Fluoranthene	ND		0.50	0.080	ug/L		03/01/22 09:22	03/02/22 19:23	1
Fluorene	ND		0.50	0.058	ug/L		03/01/22 09:22	03/02/22 19:23	1
Indeno[1,2,3-cd]pyrene	ND		0.50	0.11	ug/L		03/01/22 09:22	03/02/22 19:23	1
Naphthalene	ND		1.0	0.064	ug/L		03/01/22 09:22	03/02/22 19:23	1
Phenanthrene	ND		0.20	0.062	ug/L		03/01/22 09:22	03/02/22 19:23	1
Pyrene	ND		0.50	0.076	ug/L		03/01/22 09:22	03/02/22 19:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*97*		*37 - 120*	*03/01/22 09:22*	*03/02/22 19:23*	*1*
Nitrobenzene-d5 (Surr)	*87*		*26 - 120*	*03/01/22 09:22*	*03/02/22 19:23*	*1*
p-Terphenyl-d14	*97*		*64 - 127*	*03/01/22 09:22*	*03/02/22 19:23*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		03/01/22 12:48	03/01/22 14:29	1

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

Job ID: 480-195339-1

Client Sample ID: PRMW-6S
Date Collected: ~~02/25/22~~ 16:50 02/24/2022
Date Received: 02/26/22 09:50

Lab Sample ID: 480-195339-10
Matrix: Water

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			03/01/22 17:22	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/01/22 17:22	1
Toluene	ND		1.0	0.51	ug/L			03/01/22 17:22	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/01/22 17:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*77 - 120*		*03/01/22 17:22*	*1*
4-Bromofluorobenzene (Surr)	*104*		*73 - 120*		*03/01/22 17:22*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 123*		*03/01/22 17:22*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*03/01/22 17:22*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.51	0.037	ug/L		03/01/22 09:22	03/02/22 19:51	1
Acenaphthylene	ND		0.31	0.057	ug/L		03/01/22 09:22	03/02/22 19:51	1
Anthracene	ND		0.51	0.035	ug/L		03/01/22 09:22	03/02/22 19:51	1
Benzo[a]anthracene	ND		0.31	0.035	ug/L		03/01/22 09:22	03/02/22 19:51	1
Benzo[a]pyrene	ND		0.18	0.13	ug/L		03/01/22 09:22	03/02/22 19:51	1
Benzo[b]fluoranthene	ND		0.31	0.064	ug/L		03/01/22 09:22	03/02/22 19:51	1
Benzo[g,h,i]perylene	ND		0.51	0.059	ug/L		03/01/22 09:22	03/02/22 19:51	1
Benzo[k]fluoranthene	ND		0.31	0.071	ug/L		03/01/22 09:22	03/02/22 19:51	1
Chrysene	ND		0.51	0.076	ug/L		03/01/22 09:22	03/02/22 19:51	1
Dibenz(a,h)anthracene	ND		0.51	0.071	ug/L		03/01/22 09:22	03/02/22 19:51	1
Fluoranthene	ND		0.51	0.082	ug/L		03/01/22 09:22	03/02/22 19:51	1
Fluorene	ND		0.51	0.059	ug/L		03/01/22 09:22	03/02/22 19:51	1
Indeno[1,2,3-cd]pyrene	ND		0.51	0.11	ug/L		03/01/22 09:22	03/02/22 19:51	1
Naphthalene	ND		1.0	0.065	ug/L		03/01/22 09:22	03/02/22 19:51	1
Phenanthrene	ND		0.20	0.063	ug/L		03/01/22 09:22	03/02/22 19:51	1
Pyrene	ND		0.51	0.078	ug/L		03/01/22 09:22	03/02/22 19:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*102*		*37 - 120*	*03/01/22 09:22*	*03/02/22 19:51*	*1*
Nitrobenzene-d5 (Surr)	*90*		*26 - 120*	*03/01/22 09:22*	*03/02/22 19:51*	*1*
p-Terphenyl-d14	*103*		*64 - 127*	*03/01/22 09:22*	*03/02/22 19:51*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		03/01/22 12:48	03/01/22 14:31	1

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

Job ID: 480-195339-1

Client Sample ID: TMW-1D

Date Collected: 02/25/22 18:35
Date Received: 02/26/22 09:50

Lab Sample ID: 480-195339-11

Matrix: Water

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			03/01/22 17:44	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/01/22 17:44	1
Toluene	ND		1.0	0.51	ug/L			03/01/22 17:44	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/01/22 17:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*		*03/01/22 17:44*	*1*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*		*03/01/22 17:44*	*1*
Dibromofluoromethane (Surr)	*103*		*75 - 123*		*03/01/22 17:44*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*03/01/22 17:44*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.52	0.038	ug/L		03/01/22 09:22	03/02/22 20:18	1
Acenaphthylene	ND		0.31	0.058	ug/L		03/01/22 09:22	03/02/22 20:18	1
Anthracene	ND		0.52	0.035	ug/L		03/01/22 09:22	03/02/22 20:18	1
Benzo[a]anthracene	ND		0.31	0.035	ug/L		03/01/22 09:22	03/02/22 20:18	1
Benzo[a]pyrene	ND		0.19	0.14	ug/L		03/01/22 09:22	03/02/22 20:18	1
Benzo[b]fluoranthene	ND		0.31	0.066	ug/L		03/01/22 09:22	03/02/22 20:18	1
Benzo[g,h,i]perylene	ND		0.52	0.060	ug/L		03/01/22 09:22	03/02/22 20:18	1
Benzo[k]fluoranthene	ND		0.31	0.073	ug/L		03/01/22 09:22	03/02/22 20:18	1
Chrysene	ND		0.52	0.077	ug/L		03/01/22 09:22	03/02/22 20:18	1
Dibenz(a,h)anthracene	ND		0.52	0.073	ug/L		03/01/22 09:22	03/02/22 20:18	1
Fluoranthene	ND		0.52	0.083	ug/L		03/01/22 09:22	03/02/22 20:18	1
Fluorene	ND		0.52	0.060	ug/L		03/01/22 09:22	03/02/22 20:18	1
Indeno[1,2,3-cd]pyrene	ND		0.52	0.11	ug/L		03/01/22 09:22	03/02/22 20:18	1
Naphthalene	ND		1.0	0.067	ug/L		03/01/22 09:22	03/02/22 20:18	1
Phenanthrene	ND		0.21	0.065	ug/L		03/01/22 09:22	03/02/22 20:18	1
Pyrene	ND		0.52	0.079	ug/L		03/01/22 09:22	03/02/22 20:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*106*		*37 - 120*	*03/01/22 09:22*	*03/02/22 20:18*	*1*
Nitrobenzene-d5 (Surr)	*97*		*26 - 120*	*03/01/22 09:22*	*03/02/22 20:18*	*1*
p-Terphenyl-d14	*107*		*64 - 127*	*03/01/22 09:22*	*03/02/22 20:18*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		03/01/22 12:48	03/01/22 14:32	1

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

Job ID: 480-195339-1

Client Sample ID: DUP-20222502

Date Collected: 02/25/22 00:00
Date Received: 02/26/22 09:50

Lab Sample ID: 480-195339-12

Matrix: Water

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			03/01/22 18:06	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/01/22 18:06	1
Toluene	ND		1.0	0.51	ug/L			03/01/22 18:06	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/01/22 18:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*77 - 120*		*03/01/22 18:06*	*1*
4-Bromofluorobenzene (Surr)	*106*		*73 - 120*		*03/01/22 18:06*	*1*
Dibromofluoromethane (Surr)	*106*		*75 - 123*		*03/01/22 18:06*	*1*
Toluene-d8 (Surr)	*105*		*80 - 120*		*03/01/22 18:06*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.51	0.037	ug/L		03/01/22 09:22	03/02/22 20:46	1
Acenaphthylene	ND		0.31	0.057	ug/L		03/01/22 09:22	03/02/22 20:46	1
Anthracene	ND		0.51	0.035	ug/L		03/01/22 09:22	03/02/22 20:46	1
Benzo[a]anthracene	ND		0.31	0.035	ug/L		03/01/22 09:22	03/02/22 20:46	1
Benzo[a]pyrene	ND		0.18	0.13	ug/L		03/01/22 09:22	03/02/22 20:46	1
Benzo[b]fluoranthene	ND		0.31	0.064	ug/L		03/01/22 09:22	03/02/22 20:46	1
Benzo[g,h,i]perylene	ND		0.51	0.059	ug/L		03/01/22 09:22	03/02/22 20:46	1
Benzo[k]fluoranthene	ND		0.31	0.071	ug/L		03/01/22 09:22	03/02/22 20:46	1
Chrysene	ND		0.51	0.076	ug/L		03/01/22 09:22	03/02/22 20:46	1
Dibenz(a,h)anthracene	ND		0.51	0.071	ug/L		03/01/22 09:22	03/02/22 20:46	1
Fluoranthene	ND		0.51	0.082	ug/L		03/01/22 09:22	03/02/22 20:46	1
Fluorene	ND		0.51	0.059	ug/L		03/01/22 09:22	03/02/22 20:46	1
Indeno[1,2,3-cd]pyrene	ND		0.51	0.11	ug/L		03/01/22 09:22	03/02/22 20:46	1
Naphthalene	ND		1.0	0.065	ug/L		03/01/22 09:22	03/02/22 20:46	1
Phenanthrene	ND		0.20	0.063	ug/L		03/01/22 09:22	03/02/22 20:46	1
Pyrene	ND		0.51	0.078	ug/L		03/01/22 09:22	03/02/22 20:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*106*		*37 - 120*	*03/01/22 09:22*	*03/02/22 20:46*	*1*
Nitrobenzene-d5 (Surr)	*97*		*26 - 120*	*03/01/22 09:22*	*03/02/22 20:46*	*1*
p-Terphenyl-d14	*104*		*64 - 127*	*03/01/22 09:22*	*03/02/22 20:46*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		03/01/22 12:48	03/01/22 14:33	1

Client Sample Results

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

Job ID: 480-195339-1

Client Sample ID: TRIP BLANK
Date Collected: ~~02/25/22~~ 00:00 02/11/2022
Date Received: 02/26/22 09:50

Lab Sample ID: 480-195339-13
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND	UJ	1.0	0.41	ug/L			02/28/22 14:33	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/28/22 14:33	1
Toluene	ND		1.0	0.51	ug/L			02/28/22 14:33	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/28/22 14:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*		*02/28/22 14:33*	*1*
4-Bromofluorobenzene (Surr)	*114*		*73 - 120*		*02/28/22 14:33*	*1*
Dibromofluoromethane (Surr)	*110*		*75 - 123*		*02/28/22 14:33*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*02/28/22 14:33*	*1*

NYSEG Penn Yan
Former MGP Site

Data Usability Summary Report

Penn Yan, New York

Semi-volatile Organic Compound (SVOC) Analyses

SDG # 480-195340-1

Analyses Performed By:
Eurofins Buffalo
Amherst, New York

Report # 45141R
Review Level: Tier III
Project: 30126623.2

Summary

This Data Usability Summary Report (DUSR) summarizes the review of Sample Delivery Group (SDG) # 480-195340-1 for samples collected in association with the NYSEG Penn Yan water St, Former MGP Site. The review was conducted as a Tier III evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis
					SVOC
PRMW-1S	480-195340-1	Water	02/25/2022		X
PRMW-3S	480-195340-2	Water	02/25/2022		X
PRMW-6S	480-195340-3	Water	02/24/2022		X
DUP-20222502	480-195340-4	Water	02/25/2022	PRMW-3S	X
FB-01	480-195340-5	Water	02/25/2022		X
EB-01	480-195340-6	Water	02/25/2022		X

Note:
SVOC = Semi-volatile Organic Compounds

Analytical Data Package Documentation

The table below evaluates the data package completeness.

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		X		X	
3. Master tracking list		X		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		X	
6. Sample collection date		X	X		
7. Laboratory sample received date		X		X	
8. Sample preservation verification (as applicable)		X		X	
9. Sample preparation/extraction/analysis dates		X		X	
10. Fully executed chain-of-custody form		X		X	
11. Narrative summary of QA or sample problems provided		X		X	
12. Data package completeness and compliance		X		X	

Note:
QA = quality assurance

6. The sample PRMW-6S (480-195340-3) collection date did not match between chain-of-custody (COC) and sample result pages. The sample result pages list as 02/25/2022 while the COC list as 02/24/2022. The collection date per COC was considered and corrected in this review report.

Organic Analysis Introduction

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Method 8270D SIM. Data were reviewed in accordance with USEPA National Functional Guidelines for Organic Superfund Methods Data Review, EPA 540-R-20-005, November 2020 (with reference to the historical USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review, OSWER 9240.1-05A-P, October 1999), as appropriate and applicable Region II SOPs. USEPA NFGs and Region II SOPs were followed for qualification purposes.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers
  - U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
  - B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.
- Quantitation (Q) Qualifiers
  - E The compound was quantitated above the calibration range.
  - D Concentration is based on a diluted sample analysis.
- Validation Qualifiers
  - J The compound was positively identified; however, the associated numerical value is an estimated concentration only.
  - UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.
  - JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.
  - UB Compound is considered non-detect at the listed value due to associated blank contamination.
  - N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.
  - R The sample results are rejected.

The "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second

fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Semi-volatile Organic Compound (SVOC) Analyses

1. Holding Times

The specified holding times for the following methods are presented in the table below.

Method	Matrix	Holding Time	Preservation
SW-846 8270D SIM	Water	7 days from collection to extraction and 40 days from extraction to analysis	Cool to <6 °C

All samples were analyzed within the specified holding time criteria.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

All compounds associated with the QA blanks exhibited a concentration less than the MDL, with the exception of the compounds listed in the following table. Sample results less than the BAL associated with the following sample locations were qualified as listed in the following table.

Sample ID	Compound	Sample Result	Qualification
PRMW-3S	1,4-Dioxane (EB and FB)	Detected sample results <RL and <BAL	"UB" at the RL
PRMW-6S DUP-20222502	1,4-Dioxane (EB and FB)	Detected sample results >RL and <BAL	"UB" at detected sample concentration

Notes:

RL = Reporting limit

EB = Equipment Blank

FB = Field Blank

3. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable and all analyses were performed within a 12-hour tune clock.

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (20%) or a correlation coefficient greater than 0.99 and an RRF value greater than control limit (0.05).

4.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the calibrations were within the specified control limits.

5. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. VOC analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

6. Internal Standard Performance

Internal standard performance criteria ensure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria require the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on samples where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

The MS/MSD analysis performed on sample PRMW-3S exhibited recoveries and RPD within the control limits.

8. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

All compounds associated with the LCS analysis exhibited recoveries within the control limits.

9. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water.

Results for duplicate samples are summarized in the following table.

Sample ID / Duplicate ID	Compound	Sample Result (µg/l)	Duplicate Result (µg/l)	RPD
PRMW-3S / DUP-20222502	1,4-Dioxane	0.10 J	2.5	NC

Note:
NC = Not compliant

The compound 1,4-dioxane associated with samples PRMW-3S and DUP-20222502 exhibited a field duplicate absolute difference greater than the control limit. The associated sample results were qualified as estimated (J/UJ).

10. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

All identified compounds met the specified criteria.

11. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for SVOCs

SVOCs: SW-846 8270D SIM	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
Tier II Validation					
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X		X	
B. Equipment blanks		X	X		
Laboratory Control Sample (LCS) %R		X		X	
Laboratory Control Sample Duplicate (LCSD) %R	X				X
LCS/LCSD Precision (RPD)	X				X
Matrix Spike (MS) %R		X		X	
Matrix Spike Duplicate (MSD) %R		X		X	
MS/MSD Precision (RPD)		X		X	
Field/Lab Duplicate (RPD)		X	X		
Surrogate Spike Recoveries		X		X	
Dilution Factor		X		X	
Moisture Content	X				X
Tier III Validation					
System performance and column resolution		X		X	
Initial calibration %RSDs		X		X	
Initial calibration %Ds		X		X	
Continuing calibration RRFs		X		X	
Continuing calibration %Ds		X		X	
Instrument tune and performance check		X		X	

SVOCs: SW-846 8270D SIM	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
Ion abundance criteria for each instrument used		X		X	
Internal standard		X		X	
Compound identification and quantitation					
A. Reconstructed ion chromatograms		X		X	
B. Quantitation Reports		X		X	
C. RT of sample compounds within the established RT windows		X		X	
D. Transcription/calculation errors present		X		X	
E. Reporting limits adjusted to reflect sample dilutions		X		X	

Notes:

%RSD Relative standard deviation
%R Percent recovery
RPD Relative percent difference
%D Percent difference

SAMPLE COMPLIANCE REPORT

Sample Delivery Group (SDG)	Sampling Date	Protocol	Sample ID	Matrix	Compliancy[1]	Noncompliance
					SVOC	
480-195340-1	02/25/2022	SW846	PRMW-1S	Water	Yes	--
	02/25/2022	SW846	PRMW-3S	Water	No	Blank Contamination and Field Duplicate
	02/24/2022	SW846	PRMW-6S	Water	No	Blank Contamination
	02/25/2022	SW846	DUP-20222502	Water	No	Blank Contamination and Field Duplicate
	02/25/2022	SW846	FB-01	Water	Yes	
	02/25/2022	SW846	EB-01	Water	Yes	

Note:

1 Samples which are compliant with no added validation qualifiers are listed as "yes". Samples which are non-compliant or which have added qualifiers are listed as "no". A "no" designation does not necessarily indicate that the data have been rejected or are otherwise unusable.

VALIDATION PERFORMED BY: Vinayak Hegde

SIGNATURE: 

DATE: April 5, 2022

PEER REVIEW: Joseph C. Houser

DATE: April 5, 2022

Chain of Custody Corrected Sample Analysis Data Sheets

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive

Amherst, NY 14228-2223
phone 716.691.2600 fax 716.691.7991

Chain of Custody Record

eurofins | Environment Testing America

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc. d/b/a Eurofins TestAmerica

Client Contact	Project Manager: Nicholas Beyrle	Site Contact: A. Svensson	Date: 2/24/22 - 2/25/22	COC No: 480-170857-37076.1
Mr. John Ruspantini - NYSEG	Email: nicholas.beyrle@arcadis.com	Lab Contact: Schove, John R	Carrier: drop-off	1 of 1 COCs
PO box 5224	Tel/Fax: 585 662 4044			TALS Project #:
Binghamton NY, 13902	Analysis Turnaround Time			Sampler: A. Svensson, K. Fleming
585-484-6787	☑ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
JJRuspantini@nyseg.com	TAT if different from Below _____			Walk-in Client:
NYSEG Former MGP Site - Penn Yan	☑ 2 weeks			Lab Sampling:
PN: 30055489.1	☐ 1 week			
P O # TBD	☐ 2 days			Job / SDG No.:
	☐ 1 day			48024595

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	8270D_SIM_MS_ID - 1,4 Dioxane	Sample Specific Notes:
PRMW-1S	2/25/2022	1355	G	GW	2	N	N	X	Sampled using 1L ambers
PRMW-3S	2/25/2022	1145	G	GW	6	N	Y	X	MS/MSD
PRMW-6S	2/24/2022	1650	G	GW	2	N	N	X	
DUP-20222502	2/25/2022	----	G	GW	2	N	N	X	
FB-01	2/25/2022	1415	G	GW	2	N	N	X	Field Blank
EB-01	2/25/2022	1410	G	GW	2	N	N	X	Equipment Blank

480-195340 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments: PRMW-1S sampled using 1L ambers, ran out of 250mL ambers.

2.5 #1

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: _____ Corr'd: _____		Therm ID No.: _____
Relinquished by: Adam Svensson	Company: Arcadis	Date/Time: 7/26/22 0950	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: DHB	Date/Time: 7/26/22 950

Form No. CA-C-WI-002, Rev. 4.35, dated 10/6/2020

3/9/2022 (Rev. 1)

Client Sample ID: PRMW-1S
Lab Sample ID: 480-195340-1
Date Collected: 02/25/22 13:55
Matrix: Water
Date Received: 02/26/22 09:52

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.10	ug/L		03/01/22 09:37	03/02/22 16:36	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*34*		*15 - 110*	*03/01/22 09:37*	*03/02/22 16:36*	*1*

Client Sample ID: PRMW-3S
Lab Sample ID: 480-195340-2
Date Collected: 02/25/22 11:45
Matrix: Water
Date Received: 02/26/22 09:52

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	~~0.10~~ ~~J~~ 0.20		0.20	UBJ 0.10	ug/L		03/01/22 09:37	03/02/22 16:13	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*31*		*15 - 110*	*03/01/22 09:37*	*03/02/22 16:13*	*1*

Client Sample ID: PRMW-6S
Lab Sample ID: 480-195340-3
Date Collected: ~~02/25/22 16:50~~ 02/24/22 16:50
Matrix: Water
Date Received: 02/26/22 09:52

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.85	UB	0.20	0.10	ug/L		03/01/22 09:37	03/02/22 16:58	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*36*		*15 - 110*	*03/01/22 09:37*	*03/02/22 16:58*	*1*

Client Sample ID: DUP-20222502
Lab Sample ID: 480-195340-4
Date Collected: 02/25/22 00:00
Matrix: Water
Date Received: 02/26/22 09:52

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.5	UBJ	0.20	0.10	ug/L		03/01/22 09:37	03/02/22 17:21	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*27*		*15 - 110*	*03/01/22 09:37*	*03/02/22 17:21*	*1*

Client Sample ID: FB-01
Lab Sample ID: 480-195340-5
Date Collected: 02/25/22 14:15
Matrix: Water
Date Received: 02/26/22 09:52

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	3.7		0.20	0.10	ug/L		03/01/22 09:37	03/02/22 17:43	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*34*		*15 - 110*	*03/01/22 09:37*	*03/02/22 17:43*	*1*

Client Sample ID: EB-01
Lab Sample ID: 480-195340-6
Date Collected: 02/25/22 14:10
Matrix: Water
Date Received: 02/26/22 09:52

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.96		0.21	0.10	ug/L		03/01/22 09:37	03/02/22 18:05	1

Client Sample Results

Client: New York State Electric & Gas
Job ID: 480-195340-1
Project/Site: NYSEG - Penn Yan Water St. MGP

Client Sample ID: EB-01
Lab Sample ID: 480-195340-6
Date Collected: 02/25/22 14:10
Matrix: Water
Date Received: 02/26/22 09:52

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	36		15 - 110	03/01/22 09:37	03/02/22 18:05	1