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Date: June 6, 2025  
Our Ref: 30270811  
Subject: **First Quarter 2025 Groundwater Monitoring Report**  
New York State Electric & Gas Corporation  
Clyde Former Manufactured Gas Plant, Clyde, New York  
NYSDEC Site No. 859019

Dear Mr. Garland,

On behalf of New York State Electric & Gas Corporation (NYSEG), this letter summarizes activities completed during the first quarter of 2025 (Q1) for the Clyde former manufactured gas plant (MGP) site located in the Village of Clyde, Wayne County, New York (New York State Department of Environmental Conservation [NYSDEC] Site No. 859019) (Figure 1).

Arcadis of New York, Inc. (Arcadis) conducted the Q1 monitoring event on February 24-25, 2025, in accordance with the Site Management Plan (SMP)<sup>1</sup> (pending NYSDEC approval). In addition, Arcadis installed two monitoring wells (MW14 and MW15), in accordance with the Monitoring Well Installation Work Plan<sup>2</sup>, on March 10-14, 2025. During the March well installation event, Arcadis located several existing monitoring wells (MWBH1, MW11B, MW12, and MW13) that could not be located during the February monitoring event. This quarterly report summarizes activities conducted from January 1, 2025, to March 31, 2025, and includes data from the February 24-25, 2025 monitoring event and the March 10-14, 2025 well installation event.

The SMP<sup>1</sup> requires that groundwater samples are collected from MW4, MW12, MW14 and MW15. Please note that the Q1 monitoring event was conducted in February 2025 and MW14 and MW15 were installed in March 2025. As such, groundwater results summarized in this letter are only for groundwater collected from MW4 and MW12.

Relevant background information is presented in the following section, followed by a Q1 monitoring and operation and maintenance activity summary.

## Background

The former Clyde MGP was built in 1856 and operated, primarily by the Clyde Gas and Light Company, as a coal gas plant until it was decommissioned in 1908. Above-grade structures associated with the MGP were removed

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<sup>1</sup> GEI Consultants, Inc. 2022. *Site Management Plan*, Clyde Former Manufactured Gas Plant Site, Wayne County, Clyde, New York. October.

<sup>2</sup> Arcadis. 2025. *Monitoring Well Installation Work Plan*, Clyde Former Manufactured Gas Plant Site, 16 Sodus Street, Clyde, New York. January. 2025.

between 1907 and 1918. NYSEG purchased the parcel in 1936 and, from the late 1950s until the early 1960s, used an on-site building as a transformer house until it was demolished in the late 1960s. The current electrical substation was built in the early 1970s, during which time below-grade foundations for several of the former MGP structures were removed. Prior to remediation in 2021, the foundations for the MGP Building and the Gas Holder were still present in the subsurface. Key historical features of the MGP and surrounding area are shown on Figure 2.

The former MGP site is located along the west side of Sodus Street (approximately 16 Sodus Street) in the central business district of the Village of Clyde. The site primarily consists of two parcels that are owned by NYSEG, herein referred to as the western and eastern parcels.

The western parcel of the NYSEG property contains the Clyde Electrical Substation, which is surrounded by a perimeter fence that limits access to NYSEG employees only, and the ground surface is covered by gravel inside and around the substation. The eastern parcel of the NYSEG property is primarily maintained grass, except for the gravel access driveway along the northern side of the property that provided access to the property and substation from Sodus Street. Commercial properties, which are mainly vacant and overgrown with brush and trees, are located north of the site, and the Village of Clyde Museum and a bottle and can redemption business are located east of the site. An active railroad corridor, operated by CSX Transportation, Inc., is located south of the site, and the New York State Barge Canal is located south of the railroad corridor. The Village of Clyde owns the parcel west of the site, which is vacant and covered by weeds, brush, and small trees.

Historical site investigations and details about the remedy completed in 2021 are summarized in the SMP<sup>1</sup>. The primary groundwater constituents of concern at the site are benzene, toluene, ethylbenzene, and xylenes (BTEX) and naphthalene<sup>3</sup>.

## First Quarter 2025 Monitoring and Sampling

As presented in the SMP<sup>1</sup>, groundwater remedy objectives for the Q1 monitoring period are to:

- assess site groundwater movement patterns; and
- collect and analyze site groundwater samples quarterly to document dissolved BTEX, polycyclic aromatic hydrocarbons (PAHs), total cyanide, and target analyte list metals concentrations.

To document achieving the objectives, this report presents:

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

## Groundwater Gauging Activities and Results

During the Q1 monitoring event, field personnel measured depth to groundwater, depth to non-aqueous phase liquid, and depth to bottom from surveyed measuring points at the following monitoring wells (shown on Figure 2):

- MWBH1, MW1D, MW1S, MW3, MW4, MW6B, MW8, MW9, MW9B, MW11, MW11B, MW12, and MW13.

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<sup>3</sup> NYSDEC. 2024. *Record of Decision*, NYSEG-Clyde MPG, Clyde, Wayne County, Site No. 859019. February. 2014.

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Gauging results, including calculated groundwater elevations and sediment thickness during this reporting period, are summarized in Table 1.

## Groundwater Elevation and Flow

The shallow groundwater contour map for the Q1 gauging event is presented on Figure 3. As shown on the figure, the groundwater flow direction was generally to the south.

## Non-Aqueous Phase Liquid Monitoring

Non-aqueous phase liquid was not observed in the monitoring wells gauged during the reporting period.

## Well Depth Monitoring

Calculated sediment thickness in each monitoring well is summarized in Table 1. Accumulated sediment measured greater than 1 foot at the following locations: MWBH1 (2.53 feet), MW1S (3.57 feet), and MW8 (1.87 feet).

## Groundwater Sampling Activities and Results

Groundwater sampling activities and associated analytical results from the Q1 monitoring event and the March well installation event are summarized below.

### Groundwater Sampling Activities

Arcadis field personnel collected groundwater samples from two monitoring wells, MW4 and MW12, using low-flow groundwater purging and sampling techniques. Groundwater samples were collected from MW4 on February 25, 2025, and groundwater samples were collected from MW12 on March 14, 2025. As mentioned above, MW12 was not able to be located during the February monitoring event. Groundwater samples and appropriate quality assurance/quality control samples, to facilitate data validation, were submitted to Eurofins Laboratories, located in Amherst, New York, for the following analysis:

- BTEX using United States Environmental Protection Agency (USEPA) SW-846 Method 8260;
- PAHs using USEPA SW-846 Method 8270;
- Total cyanide using USEPA SW-846 Method 9012; and
- Target analyte list metals using USEPA SW-846 Method 6010.

Groundwater sampling logs are provided as Attachment 1.

### Groundwater Quality

Arcadis reviewed and validated the laboratory analytical data and prepared Data Usability Summary Reports (DUSRs). The 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 DUSRs, and the data has been appropriately qualified. Laboratory reports are included as Attachment 2, and the DUSRs are included as Attachment 3.

The analytical results are presented in Table 2 and are compared to the NYSDEC's Division of Water Technical and Operational Guidance Series 1.1.1: Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations Class GA<sup>4</sup> (Class GA) groundwater quality standards/guidance values.

The BTEX, PAHs, total cyanide, and metals analytical results for groundwater samples collected from monitoring wells MW-4 and MW-12 during the reporting period are summarized below.

- BTEX:
  - BTEX was not detected.
- PAHs:
  - PAH concentrations did not exceed Class GA<sup>4</sup> groundwater quality standards or guidance values.
  - Acenaphthene (0.54 micrograms per liter [µg/L]), fluoranthene (0.90 µg/L), fluorene (0.40 µg/L), and pyrene (1.3 µg/L) were detected in the groundwater sample collected from MW4 at concentrations less than their respective Class GA<sup>4</sup> groundwater quality standards or guidance values.
- Total cyanide:
  - Total cyanide was not detected.
- Metals:
  - Iron (25.3 µg/L), manganese (1.0 µg/L), and sodium (36.8 µg/L) were detected in the groundwater sample collected from MW4 at concentrations exceeding their respective Class GA<sup>Error! Bookmark not defined.</sup> groundwater quality standards or guidance values.
  - Iron (0.44 µg/L) and sodium (70.2 µg/L) were detected in the groundwater sample collected from MW12 at concentrations exceeding their respective Class GA<sup>Error! Bookmark not defined.</sup> groundwater quality standards or guidance values.

Concentrations of groundwater constituents of concern listed in the Record of Decision<sup>3</sup> were not detected.

## Monitoring Well Installation and Well Repairs

Arcadis installed and developed two monitoring wells, MW14 and MW15, on March 10-14, 2025, in accordance with the Monitoring Well Installation Work Plan<sup>2</sup>. Monitoring well construction details for MW14 and MW15 are provided on the monitoring well installation logs included as Attachment 4.

Some monitoring wells had either been damaged or buried by imported gravel during remedial construction; therefore, Arcadis replaced the well surface completions at five existing monitoring wells (MWBH1, MW1D, MW11B, MW12, and MW13) and increased the riser height at three existing monitoring wells (MW-11B, MW12, and MW13).

## Waste Management

Arcadis containerized and staged investigation-derived waste generated during the groundwater sampling and well installation activities in appropriately labeled, New York State Department of Transportation-approved, 55-gallon drums. The drums of investigation-derived waste were staged on pallets on site and will be subsequently transported off site for treatment/disposal by NYSEG's waste disposal vendor.

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<sup>4</sup> NYSDEC. 1998. Division of Water Technical and Operational Guidance Series (1.1.1) Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. October 22, 1993, reissued June 1998.

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## Conclusions and Recommendations

The Q1 monitoring results represent the first groundwater sampling event since completing the remedy in 2021. Based on the Q1 monitoring results:

- The groundwater flow direction is to the south toward the New York State Barge Canal.
- Concentrations of groundwater constituents of concern listed in the Record of Decision<sup>3</sup> were not detected.

Based on data from this monitoring period, the following are recommended:

- Remove sediment from monitoring wells MWBH1, MW-1S, and MW-8 using a pump or weighted bailer.

Quarterly monitoring and reporting will continue to be completed as required by the SMP<sup>1</sup>. The next groundwater sampling event is scheduled for May 2025 and will include results from newly installed wells MW14 and MW15. Groundwater samples will continue to be analyzed for BTEX, PAHs, total cyanide, and target analyte list metals as required by the SMP<sup>1</sup>.

Please contact John Ruspantini of NYSEG at 607.725.3801 or [jjruspantini@nyseg.com](mailto:jjruspantini@nyseg.com) with any questions or comments.

Sincerely,  
Arcadis of New York, Inc.



Nicholas Beyrle  
Principal Geologist

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CC. John Ruspantini, CHMM, NYSEG  
Mark Gravelding, PE, Arcadis

### Enclosures:

- Table 1 – Gauging Data
- Table 2 – Groundwater Analytical Results
- Figure 1 – Site Location Map
- Figure 2 – Site Layout
- Figure 3 – Shallow Groundwater Contour Map – February 24, 2025
- Attachment 1 – Groundwater Sampling Logs
- Attachment 2 – Groundwater Laboratory Reports
- Attachment 3 – Data Usability Summary Reports
- Attachment 4 – MW-14 and MW-15 Well Installation Logs

# Tables

**Table 1**  
**Gauging Data**  
**First Quarter 2025 Groundwater Monitoring Report**  
**New York State Electric & Gas Corporation**  
**Clyde Former Manufactured Gas Plant**  
**Clyde, New York**



| Well ID | Measuring Point Elevation | Installed Depth to Bottom (feet TOC) | Screen Interval Elevation | Date              | Depth to Water (feet TOC) | Groundwater Elevation | Depth to Product (feet TOC) | Depth to Bottom (feet TOC) | Accumulated Sediment Thickness (feet) |
|---------|---------------------------|--------------------------------------|---------------------------|-------------------|---------------------------|-----------------------|-----------------------------|----------------------------|---------------------------------------|
| MWBH1   | 393.21                    | 27.71                                | 373.2-368.2               | February 24, 2025 | Could not locate          |                       |                             |                            |                                       |
|         |                           |                                      |                           | March 12, 2025    | 3.70                      | 389.51                | -                           | 25.18                      | 2.53                                  |
| MW1D    | 390.64                    | 19.84                                | 377.6-382.6               | February 24, 2025 | 0.95                      | 389.69                | -                           | 19.45                      | 0.39                                  |
|         |                           |                                      |                           | March 12, 2025    | -                         | -                     | -                           | -                          | -                                     |
| MW1S    | 390.86                    | 9.66                                 | 387.8-382.8               | February 24, 2025 | 0.20                      | 390.66                | -                           | 6.09                       | 3.57                                  |
|         |                           |                                      |                           | March 12, 2025    | -                         | -                     | -                           | -                          | -                                     |
| MW3     | 392.36                    | 12.96                                | 385.9-380.9               | February 24, 2025 | 3.44                      | 388.92                | -                           | 12.78                      | 0.18                                  |
|         |                           |                                      |                           | March 12, 2025    | -                         | -                     | -                           | -                          | -                                     |
| MW4     | 391.25                    | 12.95                                | 384.8-379.3               | February 24, 2025 | 3.76                      | 387.49                | -                           | 14.00                      | -1.05                                 |
|         |                           |                                      |                           | March 12, 2025    | -                         | -                     | -                           | -                          | -                                     |
| MW6B    | 392.67                    | 42.57                                | 362.1-352.1               | February 24, 2025 | 8.93                      | 383.74                | -                           | 42.60                      | -0.03                                 |
|         |                           |                                      |                           | March 12, 2025    | -                         | -                     | -                           | -                          | -                                     |
| MW8     | 392.98                    | 24.68                                | 390.3-376.3               | February 24, 2025 | 3.39                      | 389.59                | -                           | 22.81                      | 1.87                                  |
|         |                           |                                      |                           | March 12, 2025    | -                         | -                     | -                           | -                          | -                                     |
| MW9     | 394.62                    | 17.62                                | 389.0-379.0               | February 24, 2025 | 5.27                      | 389.35                | -                           | 17.59                      | 0.03                                  |
|         |                           |                                      |                           | March 12, 2025    | -                         | -                     | -                           | -                          | -                                     |
| MW9B    | 394.58                    | 35.68                                | 370.9-360.9               | February 24, 2025 | 11.33                     | 383.25                | -                           | 35.60                      | 0.08                                  |
|         |                           |                                      |                           | March 12, 2025    | -                         | -                     | -                           | -                          | -                                     |
| MW11    | 393.98                    | 24.58                                | 386.7-371.7               | February 24, 2025 | 5.40                      | 388.58                | -                           | 24.27                      | 0.31                                  |
|         |                           |                                      |                           | March 12, 2025    | -                         | -                     | -                           | -                          | -                                     |
| MW11B   | 393.33                    | 39.83                                | 365.5-355.5               | February 24, 2025 | Could not locate          |                       |                             |                            |                                       |
|         |                           |                                      |                           | March 12, 2025    | -                         | -                     | -                           | -                          | -                                     |
| MW12    | 392.46                    | 15.66                                | 388.8-378.8               | February 24, 2025 | Could not locate          |                       |                             |                            |                                       |
|         |                           |                                      |                           | March 12, 2025    | 0.97                      | 391.49                | -                           | 15.75                      | -0.09                                 |
| MW13    | 392.79                    | 17.69                                | 387.1-377.1               | February 24, 2025 | Could not locate          |                       |                             |                            |                                       |
|         |                           |                                      |                           | March 12, 2025    | 1.62                      | 391.17                | -                           | 17.65                      | 0.04                                  |
| MW14    | 393.48                    | 13.85                                | 390.3-380.3               | March 12, 2025    | -                         | -                     | -                           | -                          | -                                     |
| MW15    | 392.95                    | 13.81                                | 389.2-379.2               | March 12, 2025    | -                         | -                     | -                           | -                          | -                                     |

**Notes:**

1. Elevations in feet referenced to the 1988 North American Vertical Datum.
2. MW-14 and MW-15 were installed by Arcadis on March 12, 2025. All other monitoring wells were installed by GEI.
3. Installation depths for MWBH1, MW1D, MW1S, MW3, MW4, MW6B, MW8, MW9, MW9B, MW11, MW11B, MW12, and MW13 were calculated based on well installation information provided by GEI in the Site Management Plan (GEI 2022) table titled "Monitoring Well Details and Groundwater Elevation Measurements." Note that well installation details in the aforementioned SMP table do not match the respective well installation logs in Appendix D of the SMP for MW-1D, MW-3, and MW-8.
4. "-" Indicates a measurement was not taken or was not available.

**Acronyms and Abbreviations:**

TOC - top of casing  
GEI - GEI Consultants, Inc.

**Reference:**

GEI Consultants, Inc. 2022. *Site Management Plan*, Clyde Former Manufactured Gas Plant Site, Wayne County, Clyde, New York. October.

**Table 2**  
**Groundwater Analytical Results**  
**First Quarter 2025 Groundwater Monitoring Report**  
**New York State Electric & Gas Corporation**  
**Clyde Former Manufactured Gas Plant**  
**Clyde, New York**

| Location ID:           | NYSDEC TOGS 1.1.1<br>Standards or<br>Guidance Values | Units | MW4<br>02/25/25 | MW12<br>03/14/25 |
|------------------------|--|-------|-----------------|------------------|
| Date Collected:        |  |       |                 |                  |
| <b>BTEX</b>            |  |       |                 |                  |
| Benzene                | 1  | µg/L  | 1.0 U           | 1.0 U            |
| Ethylbenzene           | 5  | µg/L  | 1.0 U           | 1.0 U            |
| Toluene                | 5  | µg/L  | 1.0 U           | 1.0 U            |
| Xylenes (total)        | 5  | µg/L  | 2.0 U           | 2.0 U            |
| Total BTEX             | --   | µg/L  | ND              | ND               |
| <b>PAHs</b>            |  |       |                 |                  |
| Acenaphthene           | 20   | µg/L  | <b>0.54 J</b>   | 5.0 U            |
| Acenaphthylene         | --   | µg/L  | 5.0 U           | 5.0 U            |
| Anthracene             | 50   | µg/L  | 5.0 U           | 5.0 U            |
| Benzo(a)anthracene     | 0.002  | µg/L  | 5.0 U           | 5.0 U            |
| Benzo(a)pyrene         | --   | µg/L  | 5.0 U           | 5.0 U            |
| Benzo(b)fluoranthene   | 0.002  | µg/L  | 5.0 U           | 5.0 U            |
| Benzo(g,h,i)perylene   | --   | µg/L  | 5.0 U           | 5.0 U            |
| Benzo(k)fluoranthene   | 0.002  | µg/L  | 5.0 U           | 5.0 U            |
| Chrysene               | 0.002  | µg/L  | 5.0 U           | 5.0 U            |
| Dibenzo(a,h)anthracene | --   | µg/L  | 5.0 U           | 5.0 U            |
| Fluoranthene           | 50   | µg/L  | <b>0.90 J</b>   | 5.0 U            |
| Fluorene               | 50   | µg/L  | <b>0.40 J</b>   | 5.0 U            |
| Indeno(1,2,3-cd)pyrene | 0.002  | µg/L  | 5.0 U           | 5.0 U            |
| Naphthalene            | 10   | µg/L  | 5.0 U           | 5.0 U            |
| Phenanthrene           | 50   | µg/L  | 5.0 U           | 5.0 U            |
| Pyrene                 | 50   | µg/L  | <b>1.3 J</b>    | 5.0 U            |
| Total PAHs             | --   | µg/L  | <b>3.14 J</b>   | ND               |
| <b>Inorganics</b>      |  |       |                 |                  |
| Aluminum               | --   | mg/L  | 0.20 U          | 0.20 U           |
| Antimony               | 0.003  | mg/L  | 0.020 U         | 0.020 U          |
| Arsenic                | 0.025  | mg/L  | 0.015 U         | 0.015 U          |
| Barium                 | 1  | mg/L  | <b>0.24</b>     | <b>0.10 J</b>    |
| Beryllium              | 0.003  | mg/L  | 0.0020 U        | 0.0020 UJ        |
| Cadmium                | 0.005  | mg/L  | 0.0020 U        | 0.0020 UJ        |
| Calcium                | --   | mg/L  | <b>197</b>      | <b>142</b>       |
| Chromium               | 0.05   | mg/L  | 0.0040 U        | 0.0040 U         |
| Cobalt                 |  | mg/L  | 0.0040 U        | 0.0040 UJ        |
| Copper                 | 0.2  | mg/L  | 0.010 U         | <b>0.0017 J</b>  |
| Iron                   | 0.3  | mg/L  | <b>25.3</b>     | <b>0.44 J</b>    |
| Lead                   | 0.025  | mg/L  | <b>0.0033 J</b> | 0.010 UJ         |
| Magnesium              | 35   | mg/L  | <b>30.9</b>     | <b>22.3</b>      |
| Manganese              | 0.3  | mg/L  | <b>1.0</b>      | <b>0.16</b>      |
| Nickel                 | 0.1  | mg/L  | 0.010 U         | 0.010 UBJ        |
| Potassium              | --   | mg/L  | <b>6.9</b>      | <b>4.7 J</b>     |
| Selenium               | 0.01   | mg/L  | 0.025 U         | 0.025 UJ         |
| Silver                 | 0.05   | mg/L  | 0.0060 U        | 0.0060 UJ        |
| Sodium                 | 20   | mg/L  | <b>36.8</b>     | <b>70.2</b>      |
| Thallium               | 0.0005   | mg/L  | 0.020 U         | 0.020 UJ         |
| Vanadium               | --   | mg/L  | 0.0050 U        | 0.0050 U         |
| Zinc                   | 2  | mg/L  | <b>0.15</b>     | <b>0.22</b>      |
| <b>Cyanide</b>         |  |       |                 |                  |
| Cyanide                | 0.2  | mg/L  | 0.010 U         | 0.010 U          |

See notes on Page 2.



**Table 2**  
**Groundwater Analytical Results**  
**First Quarter 2025 Groundwater Monitoring Report**  
**New York State Electric & Gas Corporation**  
**Clyde Former Manufactured Gas Plant**  
**Clyde, New York**

**Notes:**

1. Samples were submitted to Eurofins TestAmerica, Amherst, New York, for analysis using USEPA SW-846 Methods 8260B (VOCs), 8270C (SVOCs) 6010 (inorganics), and 9012 (cyanide).
2. "-" Indicates no NYSDEC Division of Water TOGS 1.1.1 Water Quality Standard or Guidance Value (NYSDEC 1998) established.
3. Sample results detected above the MDL are presented in bold font.
4. Shading indicates that the result exceeds the NYSDEC TOGS 1.1.1 Water Quality Standard or Guidance Value (NYSDEC 1998).

**Acronyms and Abbreviations:**

BTEX - benzene, ethylbenzene, toluene, and xylenes

MDL - Method Detection Limit

mg/L - milligrams per liter

ND - not detected

NYSDEC - New York State Department of Environmental Conservation

PAH - polycyclic aromatic hydrocarbon

SVOC - semi-volatile organic compound

TOGS - Technical and Operational Guidance

µg/L - micrograms per liter

USEPA - United States Environmental Protection Agency

VOC - volatile organic compound

**Lab Qualifiers:**

J - The compound was positively identified; however, the associated numerical value is an estimated concentration only.

U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

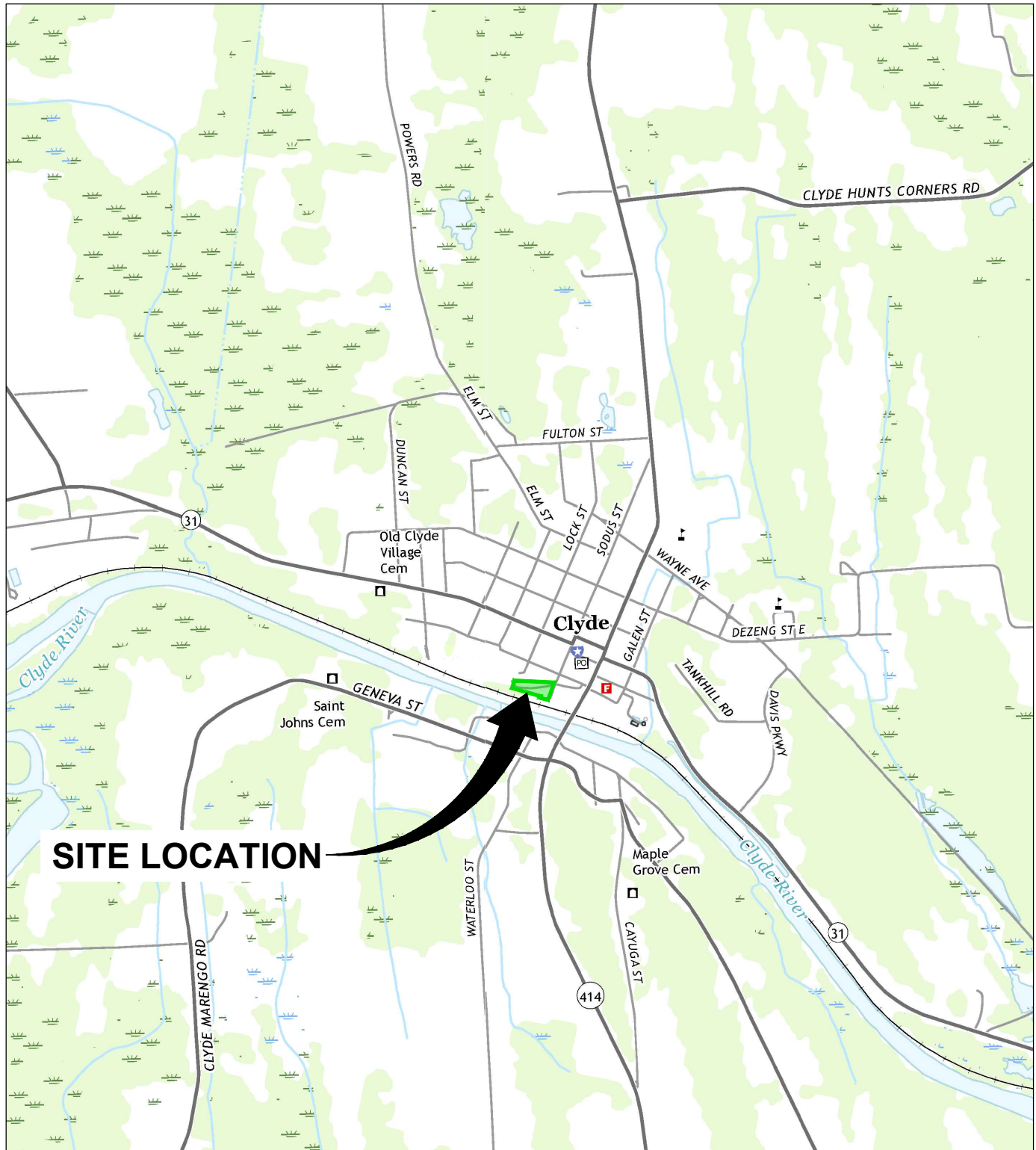
UBJ - The compound is considered non-detect at the listed value due to associated blank contamination. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.

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.

**Reference:**

NYSDEC 1998. Division of Water Technical and Operational Guidance Series (1.1.1) Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. October 22, 1993; reissued June 1998.

# Figures



REFERENCE: BASE MAP USGS 7.5. MIN. TOPO. QUAD., LYONS & SAVANNAH, NEW YORK, 2016.

0 2000' 4000'  
Approximate Scale: 1 in. = 2000 ft.



NEW YORK

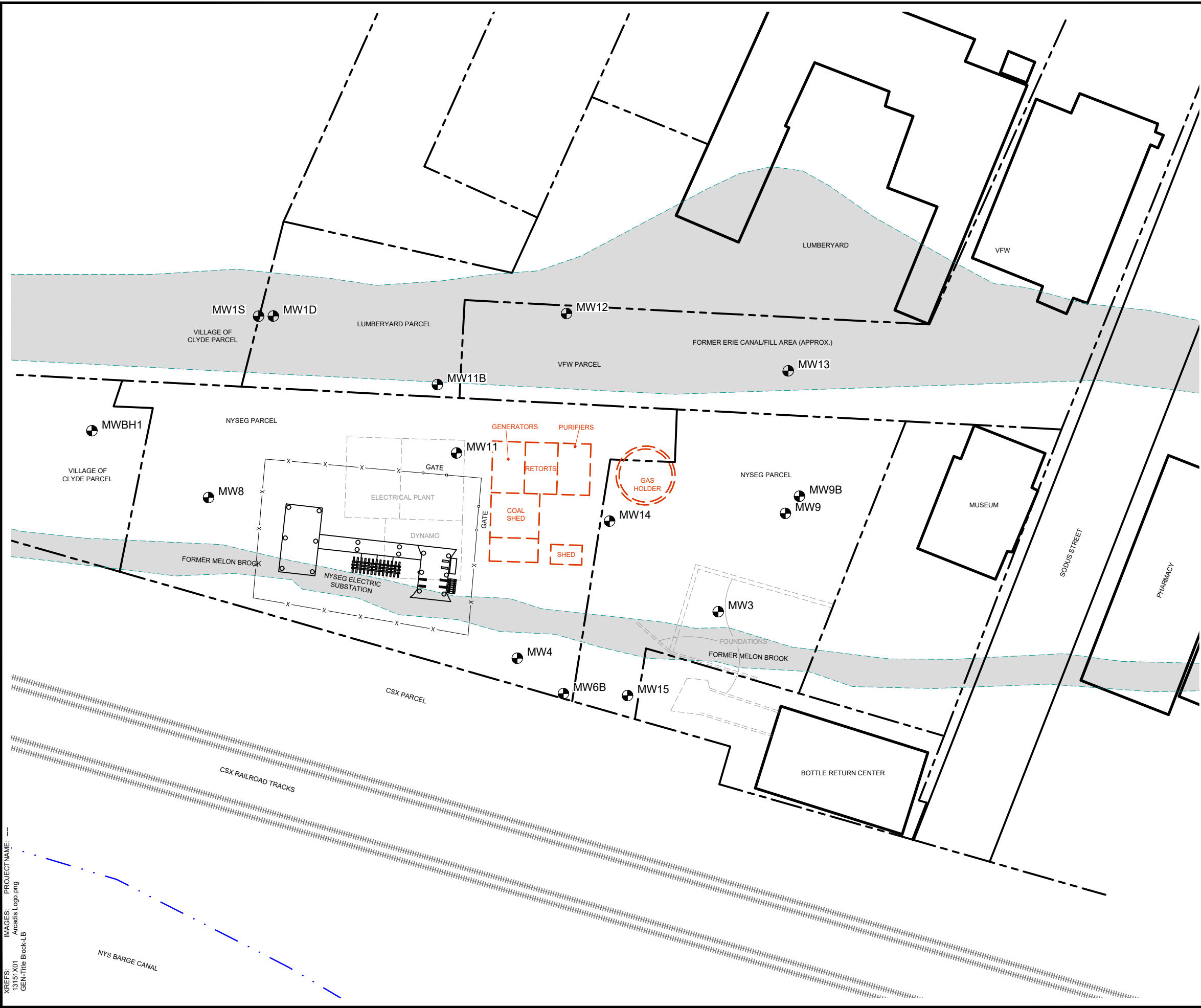
NYSEG  
CLYDE FORMER MGP SITE  
CLYDE, NEW YORK

## SITE LOCATION MAP



FIGURE

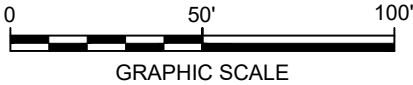
1



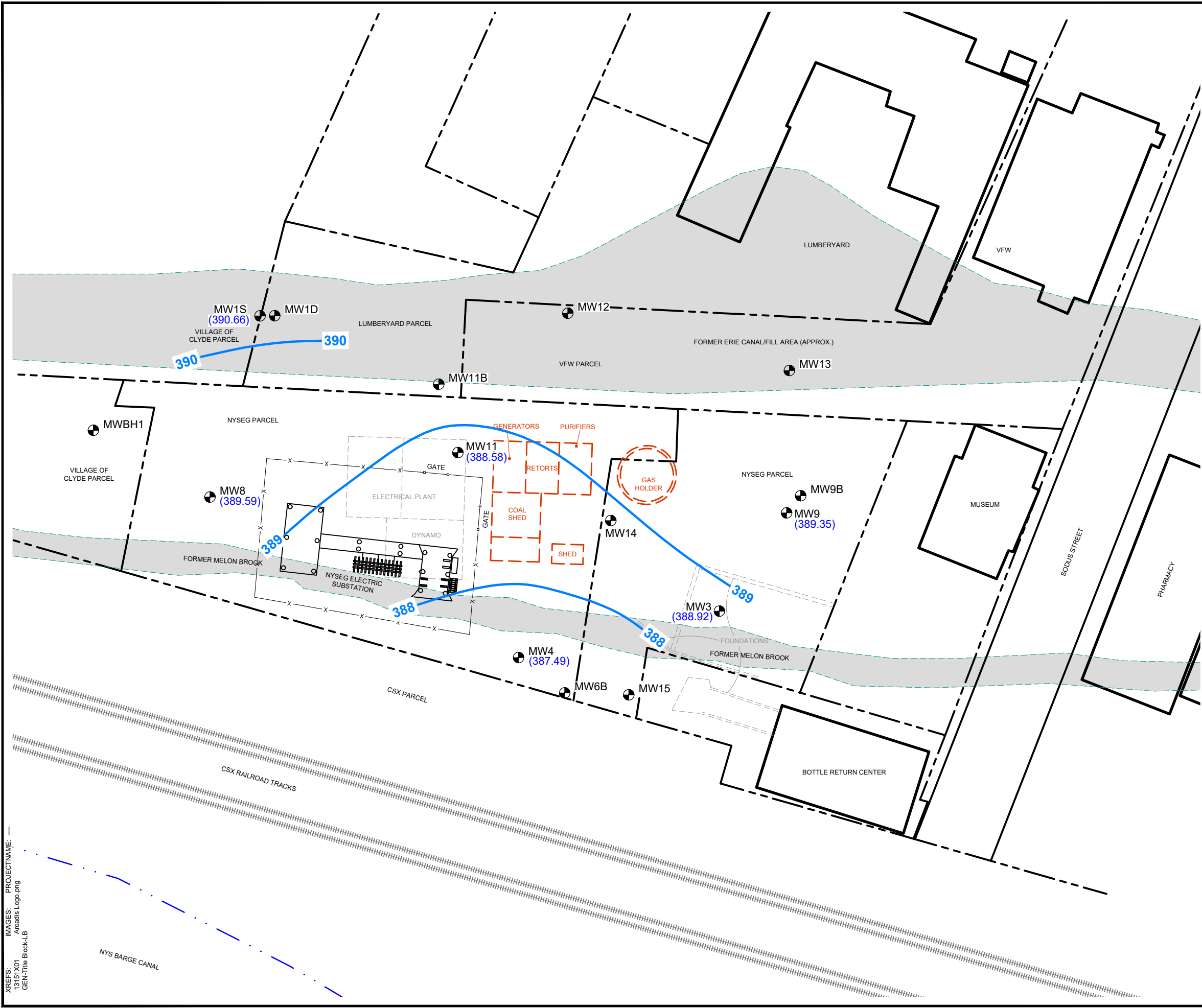
**LEGEND:**

- MONITORING WELL
- PROPERTY LINE
- FORMER MGP STRUCTURES
- APPROXIMATE LOCATION OF FORMER BROOK/CANAL
- FENCE LINE

- NOTES:**
- ALL LOCATIONS ARE APPROXIMATE.
  - BASE MAP REFERENCES: MAP SHOWING EXISTING CONDITIONS AT THE NYSEG CLYDE FORMER MANUFACTURED GAS PLANT - DRAWN BY THEW ASSOCIATES LAND SURVEYORS AND DATED SEPTEMBER 7, 2011, REVISED ON APRIL 23, 2012. HORIZONTAL DATUM: NEW YORK STATE PLANE COORDINATE SYSTEM (EAST ZONE, NORTH AMERICAN DATUM (NAD83). VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM (NAVD 88).
  - MONITORING WELLS MW5, MW6, MWBH6, MW7, MW10 AND MW10B HAVE BEEN DECOMMISSIONED AND ARE NOT SHOWN ON THIS FIGURE.



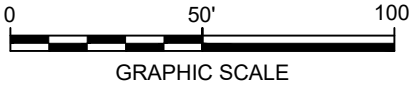
|   |             |
|---|-------------|
| NYSEG<br>CLYDE FORMER MGP SITE<br>CLYDE, NEW YORK |             |
| SITE LAYOUT                                       |             |
| ARCADIS   | FIGURE<br>2 |



**LEGEND:**

- MONITORING WELL
- PROPERTY LINE
- FORMER MGP STRUCTURES
- APPROXIMATE LOCATION OF FORMER BROOK/CANAL
- FENCE LINE
- GROUNDWATER ELEVATION CONTOUR LINE
- GROUNDWATER ELEVATION (FEET NAVD88)

- NOTES:**
- ALL LOCATIONS ARE APPROXIMATE.
  - BASE MAP REFERENCES: MAP SHOWING EXISTING CONDITIONS AT THE NYSEG CLYDE FORMER MANUFACTURED GAS PLANT - DRAWN BY THE ASSOCIATES LAND SURVEYORS AND DATED SEPTEMBER 7, 2011, REVISED ON APRIL 23, 2012. HORIZONTAL DATUM: NEW YORK STATE PLANE COORDINATE SYSTEM (EAST ZONE, NORTH AMERICAN DATUM (NAD83). VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM (NAVD 88).
  - MONITORING WELLS MW5, MW6, MWBH6, MW7, MW10 AND MW10B HAVE BEEN DECOMMISSIONED AND ARE NOT SHOWN ON THIS FIGURE.



NYSEG  
CLYDE FORMER MGP SITE  
CLYDE, NEW YORK

**SHALLOW GROUNDWATER  
CONTOUR MAP - FEBRUARY 24, 2025**

**ARCADIS**

FIGURE  
**3**

# Attachment 1

## Groundwater Sampling Logs



# GROUNDWATER SAMPLING LOG

Site: NYSEG Clyde Former MGP

Clyde, NY

Event: February 2025 GWS

Sampling Personnel: Bailey Kudla-Williams / Kaitlyn Fleming

Well ID: MW-4

Client / Job Number: NYSEG / 30270811

Date: 2/25/2025

Weather: 37°F, Light Rain

Time In: 1040

Time Out: 1230

## Well Information

Depth to Water: 3.76 (feet TIC)  
Total Depth: 14.00 (feet TIC)  
Length of Water Column: 10.24 (feet)  
Volume of Water in Well: 1.6 (gal)  
Screen Interval: 9-14' (feet)  
Depth to pump Intake: ~12 (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: 84 (min)  
Average Pumping Rate: 200 (ml/min) Water-Quality Meter Type: YSI ProD SS  
Total Volume Removed: 2.25 (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 |
|-------------------------|------|-------|-------|--------|--------|--------|--------|--------|--------|------|----|----|----|
| Volume Purged (gal)     | Pump | 0.25  | 0.5   | 0.75   | 1.0    | 1.25   | 1.5    | 1.75   | 2.0    | 2.25 |    |    |    |
| Rate (mL/min)           | 01   | 200   | 200   | 200    | 200    | 200    | 200    | 200    | 200    | 5    |    |    |    |
| Depth to Water (ft.)    | 3.71 | 3.72  | 3.72  | 3.72   | 3.72   | 3.72   | 3.72   | 3.72   | 3.72   | A    |    |    |    |
| pH                      |      | 7.00  | 7.00  | 7.00   | 7.01   | 7.01   | 7.01   | 7.01   | 7.01   | M    |    |    |    |
| Temp. (C)               |      | 9.2   | 9.2   | 9.2    | 9.2    | 9.2    | 9.3    | 9.2    | 9.2    | P    |    |    |    |
| Conductivity (mS/cm)    |      | 1,209 | 1,210 | 1,211  | 1,213  | 1,213  | 1,214  | 1,215  | 1,215  | L    |    |    |    |
| Dissolved Oxygen (mg/l) |      | 1.22  | 0.95  | 0.79   | 0.69   | 0.61   | 0.58   | 0.55   | 0.53   | E    |    |    |    |
| ORP (mV)                |      | -90.8 | -99.9 | -106.1 | -112.1 | -117.0 | -118.7 | -120.0 | -121.0 | D    |    |    |    |
| Turbidity (NTU)         |      | 7.97  | 7.48  | 4.93   | 4.51   | 2.88   | 2.60   | 2.31   | 1.80   |      |    |    |    |
| Notes:                  |      |       |       |        |        |        |        |        |        |      |    |    |    |

## Sampling Information

| Analyses                    | #   | Laboratory        |
|-----------------------------|-----|-------------------|
| VOCs - 8260                 | 12  | Eurofins          |
| PAHs - 8270                 | 8   | Eurofins          |
| Total Cn - 9012             | 4   | Eurofins          |
| TAL Metals - 6010           | 4   | Eurofins          |
| Sample ID: MW4              |     | Sample Time: 1140 |
| MS/MSD:                     | Yes | No                |
| Duplicate:                  | Yes | No                |
| Duplicate ID: DUP-20250225  |     | Dup. Time: 1150   |
| Chain of Custody Signed By: |     | BKW               |

## Problems / Observations

Initial Purge: Pump on at 1055 - clear w/ suspended particles, no odor

Final Purge: Pump off at 1219 - clear, no odor



# GROUNDWATER SAMPLING LOG

Site: NYSEG Clyde Former MGP

Clyde, NY

Event: February 2025 GWS

Sampling Personnel: Bailey Kudla-Williams / Kaitlyn Fleming

Well ID: MW12

Client / Job Number: NYSEG / 30270811

Date: 3/14/25

Weather: Sunny 45°F

Time In: 1040

Time Out: 1220

## Well Information

Depth to Water: 1.95 (feet TIC)  
Total Depth: 16.28 (feet TIC)  
Length of Water Column: 14.33 (feet)  
Volume of Water in Well: 2.34 (gal)  
Screen Interval: 4-14 (feet)  
Depth to pump Intake: ~12 (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: 85 (min)  
Average Pumping Rate: 150 (ml/min) Water-Quality Meter Type: YSI  
Total Volume Removed: 1.8 (gal) Did well go dry: Yes No

| Conversion Factors                            |       |       |       |       |
|---|-------|-------|-------|-------|
| gal / ft.<br>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 |
|-------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|----|----|----|
| Volume Purged (gal)     | 1050  | 1055  | 1100  | 1105  | 1110  | 1115  | 1120  | 1125  | 1130  | 1135 |    |    |    |
| Rate (mL/min)           | 150   | 150   | 150   | 150   | 150   | 150   | 150   | 150   | 150   | A    |    |    |    |
| Depth to Water (ft.)    | 3.21  | 3.23  | 3.27  | 3.27  | 3.21  | 3.21  | 3.21  | 3.21  | 3.21  | M    |    |    |    |
| pH                      | 7.03  | 7.01  | 7.01  | 7.00  | 7.00  | 7.00  | 7.00  | 7.00  | 7.01  | P    |    |    |    |
| Temp. (C)               | 7.6   | 7.8   | 7.8   | 7.8   | 7.9   | 7.9   | 7.9   | 7.9   | 7.9   | L    |    |    |    |
| Conductivity (mS/cm)    | 1.339 | 1.347 | 1.344 | 1.339 | 1.345 | 1.348 | 1.353 | 1.362 | 1.362 | E    |    |    |    |
| Dissolved Oxygen (mg/l) | 2.02  | 1.87  | 1.74  | 1.68  | 1.63  | 1.60  | 1.61  | 1.55  | 1.54  |      |    |    |    |
| ORP (mV)                | 126.9 | 125.6 | 123.0 | 119.9 | 116.7 | 114.3 | 111.9 | 109.5 | 106.6 |      |    |    |    |
| Turbidity (NTU)         | 13.81 | 16.60 | 21.64 | 19.12 | 28.20 | 37.04 | 7.06  | 7.22  | 6.77  |      |    |    |    |
| Notes:                  |       |       |       |       |       |       |       |       |       |      |    |    |    |

## Sampling Information

## Problems / Observations

| Analyses                        | #                 | Laboratory |
|---------------------------------|-------------------|------------|
| VOCs - 8260                     | 12                | Eurofins   |
| PAHs - 8270                     | 8                 | Eurofins   |
| Total Cn - 9012                 | 4                 | Eurofins   |
| TAL Metals - 6010               | 4                 | Eurofins   |
| Sample ID: MW12                 | Sample Time: 1135 |            |
| MS/MSD: Yes                     | No                |            |
| Duplicate: Yes                  | No                |            |
| Duplicate ID DUP-20250314       | Dup. Time: 1135   |            |
| Chain of Custody Signed By: MRS |                   |            |

### Initial Purge:

Pump on @ 1045. Clear. No odor.

### Final Purge:

Pump off @ 1210. Clear. No odor.



# Attachment 2

## Groundwater Laboratory Reports

# ANALYTICAL REPORT

## PREPARED FOR

Attn: Mr. John J Ruspantini  
New York State Electric & Gas  
18 Link Drive  
Binghamton, New York 13902

Generated 3/5/2025 10:42:21 AM

## JOB DESCRIPTION

NYSEG - Clyde  
Groundwater

## JOB NUMBER

480-227535-1

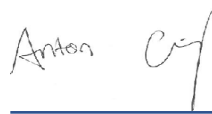
# Eurofins Buffalo

## Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

## Authorization



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## Definitions/Glossary

Client: New York State Electric & Gas  
Project/Site: NYSEG - Clyde

Job ID: 480-227535-1

### 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. |

#### Metals

| Qualifier | Qualifier Description   |
|-----------|---|
| ^5-       | Linear Range Check (LRC) is outside acceptance limits, low biased.  |
| ^5+       | Linear Range Check (LRC) is outside acceptance limits, high biased.   |
| 4         | MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable. |
| J         | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.  |

#### General Chemistry

| Qualifier | Qualifier Description                          |
|-----------|--|
| F1        | MS and/or MSD recovery exceeds control limits. |

### 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: NYSEG - Clyde

Job ID: 480-227535-1

**Job ID: 480-227535-1**

**Eurofins Buffalo**

## Job Narrative 480-227535-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

### Receipt

The samples were received on 2/26/2025 11:20 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 time was 2.6°C.

### GC/MS VOA

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

### GC/MS Semi VOA

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

### Metals

Method 6010D: The linear range check (LRC) standard recovery associated with 480-739825 is outside the acceptance criteria for the following analytes: total Silver, Beryllium, Chromium, Copper, Iron, Magnesium, Manganese, Sodium, Vanadium, and Zinc. The concentration of these analyte(s) in the sample(s) are below the highest standard of the calibration curve; therefore, the data have been reported.

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

### General Chemistry

Method 9012B\_NP: The continuing calibration blank (CCB) for analytical batch 480-739740 contained Cyanide, Total above the reporting limit (RL). All reported samples associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed: MW-4 (480-227535-1), MW-4 (480-227535-1[MS]), MW-4 (480-227535-1[MSD]) and Dup-20250225 (480-227535-2).

Method 9012B\_NP: The method blank for batch 480-739740 contained Cyanide, Total above the reporting limit (RL). None of the samples associated with this method blank contained the target compound; therefore, re-extraction and/or re-analysis of samples were not performed: MW-4 (480-227535-1), MW-4 (480-227535-1[MS]), MW-4 (480-227535-1[MSD]) and Dup-20250225 (480-227535-2).

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

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# Detection Summary

Client: New York State Electric & Gas  
Project/Site: NYSEG - Clyde

Job ID: 480-227535-1

Client Sample ID: MW-4

Lab Sample ID: 480-227535-1

| Analyte      | Result | Qualifier | RL     | MDL     | Unit | Dil Fac | D | Method | Prep Type |
|--------------|--------|-----------|--------|---------|------|---------|---|--------|-----------|
| Acenaphthene | 0.54   | J         | 5.0    | 0.41    | ug/L | 1       |   | 8270D  | Total/NA  |
| Fluoranthene | 0.90   | J         | 5.0    | 0.40    | ug/L | 1       |   | 8270D  | Total/NA  |
| Fluorene     | 0.40   | J         | 5.0    | 0.36    | ug/L | 1       |   | 8270D  | Total/NA  |
| Pyrene       | 1.3    | J         | 5.0    | 0.34    | ug/L | 1       |   | 8270D  | Total/NA  |
| Barium       | 0.24   |           | 0.0020 | 0.00070 | mg/L | 1       |   | 6010D  | Total/NA  |
| Calcium      | 197    |           | 0.50   | 0.10    | mg/L | 1       |   | 6010D  | Total/NA  |
| Iron         | 25.3   | ^5-       | 0.050  | 0.019   | mg/L | 1       |   | 6010D  | Total/NA  |
| Lead         | 0.0033 | J         | 0.010  | 0.0030  | mg/L | 1       |   | 6010D  | Total/NA  |
| Magnesium    | 30.9   | ^5-       | 0.20   | 0.043   | mg/L | 1       |   | 6010D  | Total/NA  |
| Manganese    | 1.0    | ^5-       | 0.0030 | 0.00040 | mg/L | 1       |   | 6010D  | Total/NA  |
| Potassium    | 6.9    |           | 0.50   | 0.10    | mg/L | 1       |   | 6010D  | Total/NA  |
| Sodium       | 36.8   | ^5-       | 1.0    | 0.32    | mg/L | 1       |   | 6010D  | Total/NA  |
| Zinc         | 0.15   | ^5-       | 0.010  | 0.0015  | mg/L | 1       |   | 6010D  | Total/NA  |

Client Sample ID: Dup-20250225

Lab Sample ID: 480-227535-2

| Analyte      | Result | Qualifier | RL     | MDL     | Unit | Dil Fac | D | Method | Prep Type |
|--------------|--------|-----------|--------|---------|------|---------|---|--------|-----------|
| Acenaphthene | 0.51   | J         | 5.0    | 0.41    | ug/L | 1       |   | 8270D  | Total/NA  |
| Fluoranthene | 0.87   | J         | 5.0    | 0.40    | ug/L | 1       |   | 8270D  | Total/NA  |
| Fluorene     | 0.38   | J         | 5.0    | 0.36    | ug/L | 1       |   | 8270D  | Total/NA  |
| Pyrene       | 1.3    | J         | 5.0    | 0.34    | ug/L | 1       |   | 8270D  | Total/NA  |
| Barium       | 0.24   |           | 0.0020 | 0.00070 | mg/L | 1       |   | 6010D  | Total/NA  |
| Calcium      | 189    |           | 0.50   | 0.10    | mg/L | 1       |   | 6010D  | Total/NA  |
| Iron         | 25.5   | ^5-       | 0.050  | 0.019   | mg/L | 1       |   | 6010D  | Total/NA  |
| Lead         | 0.0037 | J         | 0.010  | 0.0030  | mg/L | 1       |   | 6010D  | Total/NA  |
| Magnesium    | 31.2   | ^5-       | 0.20   | 0.043   | mg/L | 1       |   | 6010D  | Total/NA  |
| Manganese    | 1.0    | ^5-       | 0.0030 | 0.00040 | mg/L | 1       |   | 6010D  | Total/NA  |
| Potassium    | 6.9    |           | 0.50   | 0.10    | mg/L | 1       |   | 6010D  | Total/NA  |
| Sodium       | 36.7   | ^5-       | 1.0    | 0.32    | mg/L | 1       |   | 6010D  | Total/NA  |
| Zinc         | 0.097  | ^5-       | 0.010  | 0.0015  | mg/L | 1       |   | 6010D  | Total/NA  |

This Detection Summary does not include radiochemical test results.

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# Client Sample Results

Client: New York State Electric & Gas  
Project/Site: NYSEG - Clyde

Job ID: 480-227535-1

Client Sample ID: MW-4

Lab Sample ID: 480-227535-1

Date Collected: 02/25/25 11:40

Matrix: Ground Water

Date Received: 02/26/25 11:20

## Method: SW846 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 |   |          | 02/27/25 22:19 | 1       |
| Ethylbenzene   | ND     |           | 1.0 | 0.74 | ug/L |   |          | 02/27/25 22:19 | 1       |
| Toluene        | ND     |           | 1.0 | 0.51 | ug/L |   |          | 02/27/25 22:19 | 1       |
| Xylenes, Total | ND     |           | 2.0 | 0.66 | ug/L |   |          | 02/27/25 22:19 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 105       |           | 77 - 120 |          | 02/27/25 22:19 | 1       |
| 4-Bromofluorobenzene (Surr)  | 100       |           | 73 - 120 |          | 02/27/25 22:19 | 1       |
| Dibromofluoromethane (Surr)  | 101       |           | 75 - 123 |          | 02/27/25 22:19 | 1       |
| Toluene-d8 (Surr)            | 101       |           | 80 - 120 |          | 02/27/25 22:19 | 1       |

## Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

| Analyte                | Result | Qualifier | RL  | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|--------|-----------|-----|------|------|---|----------------|----------------|---------|
| Acenaphthene           | 0.54   | J         | 5.0 | 0.41 | ug/L |   | 02/28/25 13:52 | 03/03/25 16:11 | 1       |
| Acenaphthylene         | ND     |           | 5.0 | 0.38 | ug/L |   | 02/28/25 13:52 | 03/03/25 16:11 | 1       |
| Anthracene             | ND     |           | 5.0 | 0.28 | ug/L |   | 02/28/25 13:52 | 03/03/25 16:11 | 1       |
| Benzo[a]anthracene     | ND     |           | 5.0 | 0.36 | ug/L |   | 02/28/25 13:52 | 03/03/25 16:11 | 1       |
| Benzo[a]pyrene         | ND     |           | 5.0 | 0.47 | ug/L |   | 02/28/25 13:52 | 03/03/25 16:11 | 1       |
| Benzo[b]fluoranthene   | ND     |           | 5.0 | 0.34 | ug/L |   | 02/28/25 13:52 | 03/03/25 16:11 | 1       |
| Benzo[g,h,i]perylene   | ND     |           | 5.0 | 0.35 | ug/L |   | 02/28/25 13:52 | 03/03/25 16:11 | 1       |
| Benzo[k]fluoranthene   | ND     |           | 5.0 | 0.73 | ug/L |   | 02/28/25 13:52 | 03/03/25 16:11 | 1       |
| Chrysene               | ND     |           | 5.0 | 0.33 | ug/L |   | 02/28/25 13:52 | 03/03/25 16:11 | 1       |
| Dibenz(a,h)anthracene  | ND     |           | 5.0 | 0.42 | ug/L |   | 02/28/25 13:52 | 03/03/25 16:11 | 1       |
| Fluoranthene           | 0.90   | J         | 5.0 | 0.40 | ug/L |   | 02/28/25 13:52 | 03/03/25 16:11 | 1       |
| Fluorene               | 0.40   | J         | 5.0 | 0.36 | ug/L |   | 02/28/25 13:52 | 03/03/25 16:11 | 1       |
| Indeno[1,2,3-cd]pyrene | ND     |           | 5.0 | 0.47 | ug/L |   | 02/28/25 13:52 | 03/03/25 16:11 | 1       |
| Naphthalene            | ND     |           | 5.0 | 0.76 | ug/L |   | 02/28/25 13:52 | 03/03/25 16:11 | 1       |
| Phenanthrene           | ND     |           | 5.0 | 0.44 | ug/L |   | 02/28/25 13:52 | 03/03/25 16:11 | 1       |
| Pyrene                 | 1.3    | J         | 5.0 | 0.34 | ug/L |   | 02/28/25 13:52 | 03/03/25 16:11 | 1       |

| Surrogate               | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2-Fluorobiphenyl (Surr) | 86        |           | 53 - 126 | 02/28/25 13:52 | 03/03/25 16:11 | 1       |
| Nitrobenzene-d5 (Surr)  | 76        |           | 29 - 129 | 02/28/25 13:52 | 03/03/25 16:11 | 1       |
| p-Terphenyl-d14 (Surr)  | 81        |           | 33 - 132 | 02/28/25 13:52 | 03/03/25 16:11 | 1       |

## Method: SW846 6010D - Metals (ICP)

| Analyte   | Result | Qualifier | RL     | MDL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|--------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Aluminum  | ND     |           | 0.20   | 0.060   | mg/L |   | 02/27/25 09:16 | 02/27/25 15:04 | 1       |
| Antimony  | ND     |           | 0.020  | 0.0068  | mg/L |   | 02/27/25 09:16 | 02/27/25 15:04 | 1       |
| Arsenic   | ND     |           | 0.015  | 0.0056  | mg/L |   | 02/27/25 09:16 | 02/27/25 15:04 | 1       |
| Barium    | 0.24   |           | 0.0020 | 0.00070 | mg/L |   | 02/27/25 09:16 | 02/27/25 15:04 | 1       |
| Beryllium | ND     | ^5-       | 0.0020 | 0.00030 | mg/L |   | 02/27/25 09:16 | 02/27/25 15:04 | 1       |
| Cadmium   | ND     |           | 0.0020 | 0.00050 | mg/L |   | 02/27/25 09:16 | 02/27/25 15:04 | 1       |
| Calcium   | 197    |           | 0.50   | 0.10    | mg/L |   | 02/27/25 09:16 | 03/04/25 18:17 | 1       |
| Chromium  | ND     | ^5-       | 0.0040 | 0.0010  | mg/L |   | 02/27/25 09:16 | 02/27/25 15:04 | 1       |
| Cobalt    | ND     |           | 0.0040 | 0.00063 | mg/L |   | 02/27/25 09:16 | 02/27/25 15:04 | 1       |
| Copper    | ND     | ^5+       | 0.010  | 0.0016  | mg/L |   | 02/27/25 09:16 | 02/27/25 15:04 | 1       |
| Iron      | 25.3   | ^5-       | 0.050  | 0.019   | mg/L |   | 02/27/25 09:16 | 02/27/25 15:04 | 1       |
| Lead      | 0.0033 | J         | 0.010  | 0.0030  | mg/L |   | 02/27/25 09:16 | 02/27/25 15:04 | 1       |
| Magnesium | 30.9   | ^5-       | 0.20   | 0.043   | mg/L |   | 02/27/25 09:16 | 02/27/25 15:04 | 1       |

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# Client Sample Results

Client: New York State Electric & Gas  
Project/Site: NYSEG - Clyde

Job ID: 480-227535-1

Client Sample ID: MW-4

Lab Sample ID: 480-227535-1

Date Collected: 02/25/25 11:40

Matrix: Ground Water

Date Received: 02/26/25 11:20

## Method: SW846 6010D - Metals (ICP) (Continued)

| Analyte   | Result | Qualifier | RL     | MDL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|--------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Manganese | 1.0    | ^5-       | 0.0030 | 0.00040 | mg/L |   | 02/27/25 09:16 | 02/27/25 15:04 | 1       |
| Nickel    | ND     |           | 0.010  | 0.0013  | mg/L |   | 02/27/25 09:16 | 02/27/25 15:04 | 1       |
| Potassium | 6.9    |           | 0.50   | 0.10    | mg/L |   | 02/27/25 09:16 | 02/27/25 15:04 | 1       |
| Selenium  | ND     |           | 0.025  | 0.0087  | mg/L |   | 02/27/25 09:16 | 02/27/25 15:04 | 1       |
| Silver    | ND     | ^5-       | 0.0060 | 0.0017  | mg/L |   | 02/27/25 09:16 | 02/27/25 15:04 | 1       |
| Sodium    | 36.8   | ^5-       | 1.0    | 0.32    | mg/L |   | 02/27/25 09:16 | 02/27/25 15:04 | 1       |
| Thallium  | ND     |           | 0.020  | 0.010   | mg/L |   | 02/27/25 09:16 | 02/27/25 15:04 | 1       |
| Vanadium  | ND     | ^5-       | 0.0050 | 0.0015  | mg/L |   | 02/27/25 09:16 | 02/27/25 15:04 | 1       |
| Zinc      | 0.15   | ^5-       | 0.010  | 0.0015  | mg/L |   | 02/27/25 09:16 | 02/27/25 15:04 | 1       |

## General Chemistry

| Analyte                      | Result | Qualifier | RL    | MDL    | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------|-----------|-------|--------|------|---|----------|----------------|---------|
| Cyanide, Total (SW846 9012B) | ND     | F1        | 0.010 | 0.0041 | mg/L |   |          | 02/26/25 20:36 | 1       |

Client Sample ID: Dup-20250225

Lab Sample ID: 480-227535-2

Date Collected: 02/25/25 00:00

Matrix: Ground Water

Date Received: 02/26/25 11:20

## Method: SW846 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 |   |          | 02/27/25 22:41 | 1       |
| Ethylbenzene   | ND     |           | 1.0 | 0.74 | ug/L |   |          | 02/27/25 22:41 | 1       |
| Toluene        | ND     |           | 1.0 | 0.51 | ug/L |   |          | 02/27/25 22:41 | 1       |
| Xylenes, Total | ND     |           | 2.0 | 0.66 | ug/L |   |          | 02/27/25 22:41 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 106       |           | 77 - 120 |          | 02/27/25 22:41 | 1       |
| 4-Bromofluorobenzene (Surr)  | 102       |           | 73 - 120 |          | 02/27/25 22:41 | 1       |
| Dibromofluoromethane (Surr)  | 105       |           | 75 - 123 |          | 02/27/25 22:41 | 1       |
| Toluene-d8 (Surr)            | 100       |           | 80 - 120 |          | 02/27/25 22:41 | 1       |

## Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

| Analyte                | Result | Qualifier | RL  | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|--------|-----------|-----|------|------|---|----------------|----------------|---------|
| Acenaphthene           | 0.51   | J         | 5.0 | 0.41 | ug/L |   | 02/28/25 13:52 | 03/03/25 17:58 | 1       |
| Acenaphthylene         | ND     |           | 5.0 | 0.38 | ug/L |   | 02/28/25 13:52 | 03/03/25 17:58 | 1       |
| Anthracene             | ND     |           | 5.0 | 0.28 | ug/L |   | 02/28/25 13:52 | 03/03/25 17:58 | 1       |
| Benzo[a]anthracene     | ND     |           | 5.0 | 0.36 | ug/L |   | 02/28/25 13:52 | 03/03/25 17:58 | 1       |
| Benzo[a]pyrene         | ND     |           | 5.0 | 0.47 | ug/L |   | 02/28/25 13:52 | 03/03/25 17:58 | 1       |
| Benzo[b]fluoranthene   | ND     |           | 5.0 | 0.34 | ug/L |   | 02/28/25 13:52 | 03/03/25 17:58 | 1       |
| Benzo[g,h,i]perylene   | ND     |           | 5.0 | 0.35 | ug/L |   | 02/28/25 13:52 | 03/03/25 17:58 | 1       |
| Benzo[k]fluoranthene   | ND     |           | 5.0 | 0.73 | ug/L |   | 02/28/25 13:52 | 03/03/25 17:58 | 1       |
| Chrysene               | ND     |           | 5.0 | 0.33 | ug/L |   | 02/28/25 13:52 | 03/03/25 17:58 | 1       |
| Dibenz(a,h)anthracene  | ND     |           | 5.0 | 0.42 | ug/L |   | 02/28/25 13:52 | 03/03/25 17:58 | 1       |
| Fluoranthene           | 0.87   | J         | 5.0 | 0.40 | ug/L |   | 02/28/25 13:52 | 03/03/25 17:58 | 1       |
| Fluorene               | 0.38   | J         | 5.0 | 0.36 | ug/L |   | 02/28/25 13:52 | 03/03/25 17:58 | 1       |
| Indeno[1,2,3-cd]pyrene | ND     |           | 5.0 | 0.47 | ug/L |   | 02/28/25 13:52 | 03/03/25 17:58 | 1       |
| Naphthalene            | ND     |           | 5.0 | 0.76 | ug/L |   | 02/28/25 13:52 | 03/03/25 17:58 | 1       |
| Phenanthrene           | ND     |           | 5.0 | 0.44 | ug/L |   | 02/28/25 13:52 | 03/03/25 17:58 | 1       |
| Pyrene                 | 1.3    | J         | 5.0 | 0.34 | ug/L |   | 02/28/25 13:52 | 03/03/25 17:58 | 1       |

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# Client Sample Results

Client: New York State Electric & Gas  
Project/Site: NYSEG - Clyde

Job ID: 480-227535-1

**Client Sample ID: Dup-20250225**

**Lab Sample ID: 480-227535-2**

**Date Collected: 02/25/25 00:00**

**Matrix: Ground Water**

**Date Received: 02/26/25 11:20**

| Surrogate               | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2-Fluorobiphenyl (Surr) | 85        |           | 53 - 126 | 02/28/25 13:52 | 03/03/25 17:58 | 1       |
| Nitrobenzene-d5 (Surr)  | 75        |           | 29 - 129 | 02/28/25 13:52 | 03/03/25 17:58 | 1       |
| p-Terphenyl-d14 (Surr)  | 78        |           | 33 - 132 | 02/28/25 13:52 | 03/03/25 17:58 | 1       |

## Method: SW846 6010D - Metals (ICP)

| Analyte   | Result | Qualifier | RL     | MDL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|--------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Aluminum  | ND     |           | 0.20   | 0.060   | mg/L |   | 02/27/25 09:16 | 02/27/25 15:13 | 1       |
| Antimony  | ND     |           | 0.020  | 0.0068  | mg/L |   | 02/27/25 09:16 | 02/27/25 15:13 | 1       |
| Arsenic   | ND     |           | 0.015  | 0.0056  | mg/L |   | 02/27/25 09:16 | 02/27/25 15:13 | 1       |
| Barium    | 0.24   |           | 0.0020 | 0.00070 | mg/L |   | 02/27/25 09:16 | 02/27/25 15:13 | 1       |
| Beryllium | ND     | ^5-       | 0.0020 | 0.00030 | mg/L |   | 02/27/25 09:16 | 02/27/25 15:13 | 1       |
| Cadmium   | ND     |           | 0.0020 | 0.00050 | mg/L |   | 02/27/25 09:16 | 02/27/25 15:13 | 1       |
| Calcium   | 189    |           | 0.50   | 0.10    | mg/L |   | 02/27/25 09:16 | 03/04/25 18:27 | 1       |
| Chromium  | ND     | ^5-       | 0.0040 | 0.0010  | mg/L |   | 02/27/25 09:16 | 02/27/25 15:13 | 1       |
| Cobalt    | ND     |           | 0.0040 | 0.00063 | mg/L |   | 02/27/25 09:16 | 02/27/25 15:13 | 1       |
| Copper    | ND     | ^5+       | 0.010  | 0.0016  | mg/L |   | 02/27/25 09:16 | 02/27/25 15:13 | 1       |
| Iron      | 25.5   | ^5-       | 0.050  | 0.019   | mg/L |   | 02/27/25 09:16 | 02/27/25 15:13 | 1       |
| Lead      | 0.0037 | J         | 0.010  | 0.0030  | mg/L |   | 02/27/25 09:16 | 02/27/25 15:13 | 1       |
| Magnesium | 31.2   | ^5-       | 0.20   | 0.043   | mg/L |   | 02/27/25 09:16 | 02/27/25 15:13 | 1       |
| Manganese | 1.0    | ^5-       | 0.0030 | 0.00040 | mg/L |   | 02/27/25 09:16 | 02/27/25 15:13 | 1       |
| Nickel    | ND     |           | 0.010  | 0.0013  | mg/L |   | 02/27/25 09:16 | 02/27/25 15:13 | 1       |
| Potassium | 6.9    |           | 0.50   | 0.10    | mg/L |   | 02/27/25 09:16 | 02/27/25 15:13 | 1       |
| Selenium  | ND     |           | 0.025  | 0.0087  | mg/L |   | 02/27/25 09:16 | 02/27/25 15:13 | 1       |
| Silver    | ND     | ^5-       | 0.0060 | 0.0017  | mg/L |   | 02/27/25 09:16 | 02/27/25 15:13 | 1       |
| Sodium    | 36.7   | ^5-       | 1.0    | 0.32    | mg/L |   | 02/27/25 09:16 | 02/27/25 15:13 | 1       |
| Thallium  | ND     |           | 0.020  | 0.010   | mg/L |   | 02/27/25 09:16 | 02/27/25 15:13 | 1       |
| Vanadium  | ND     | ^5-       | 0.0050 | 0.0015  | mg/L |   | 02/27/25 09:16 | 02/27/25 15:13 | 1       |
| Zinc      | 0.097  | ^5-       | 0.010  | 0.0015  | mg/L |   | 02/27/25 09:16 | 02/27/25 15:13 | 1       |

## General Chemistry

| Analyte                      | Result | Qualifier | RL    | MDL    | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------|-----------|-------|--------|------|---|----------|----------------|---------|
| Cyanide, Total (SW846 9012B) | ND     |           | 0.010 | 0.0041 | mg/L |   |          | 02/26/25 20:46 | 1       |

# Surrogate Summary

Client: New York State Electric & Gas  
Project/Site: NYSEG - Clyde

Job ID: 480-227535-1

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

Matrix: Ground Water

Prep Type: Total/NA

| Lab Sample ID    | Client Sample ID | Percent Surrogate Recovery (Acceptance Limits) |                 |                  |                 |
|------------------|------------------|--|-----------------|------------------|-----------------|
|                  |                  | DCA<br>(77-120)                                | BFB<br>(73-120) | DBFM<br>(75-123) | TOL<br>(80-120) |
| 480-227535-1     | MW-4             | 105  | 100             | 101              | 101             |
| 480-227535-1 MS  | MW-4             | 103  | 100             | 102              | 98              |
| 480-227535-1 MSD | MW-4             | 100  | 97              | 98               | 102             |
| 480-227535-2     | Dup-20250225     | 106  | 102             | 105              | 100             |

### Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

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

Matrix: Water

Prep Type: Total/NA

| Lab Sample ID    | Client Sample ID   | Percent Surrogate Recovery (Acceptance Limits) |                 |                  |                 |
|------------------|--------------------|--|-----------------|------------------|-----------------|
|                  |                    | DCA<br>(77-120)                                | BFB<br>(73-120) | DBFM<br>(75-123) | TOL<br>(80-120) |
| LCS 480-739828/6 | Lab Control Sample | 101  | 101             | 103              | 97              |
| MB 480-739828/8  | Method Blank       | 103  | 102             | 106              | 98              |

### Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

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

Matrix: Ground Water

Prep Type: Total/NA

| Lab Sample ID    | Client Sample ID | Percent Surrogate Recovery (Acceptance Limits) |                 |                    |
|------------------|------------------|--|-----------------|--------------------|
|                  |                  | FBP<br>(53-126)                                | NBZ<br>(29-129) | TPHd14<br>(33-132) |
| 480-227535-1     | MW-4             | 86   | 76              | 81                 |
| 480-227535-1 MS  | MW-4             | 94   | 87              | 72                 |
| 480-227535-1 MSD | MW-4             | 88   | 84              | 68                 |
| 480-227535-2     | Dup-20250225     | 85   | 75              | 78                 |

### Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)

NBZ = Nitrobenzene-d5 (Surr)

TPHd14 = p-Terphenyl-d14 (Surr)

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

Matrix: Water

Prep Type: Total/NA

| Lab Sample ID      | Client Sample ID   | Percent Surrogate Recovery (Acceptance Limits) |                 |                    |
|--------------------|--------------------|--|-----------------|--------------------|
|                    |                    | FBP<br>(53-126)                                | NBZ<br>(29-129) | TPHd14<br>(33-132) |
| LCS 480-739876/2-A | Lab Control Sample | 83   | 76              | 93                 |
| MB 480-739876/1-A  | Method Blank       | 74   | 67              | 86                 |

### Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)

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# Surrogate Summary

Client: New York State Electric & Gas  
Project/Site: NYSEG - Clyde  
NBZ = Nitrobenzene-d5 (Surr)  
TPHd14 = p-Terphenyl-d14 (Surr)

Job ID: 480-227535-1

|    |
|----|
| 1  |
| 2  |
| 3  |
| 4  |
| 5  |
| 6  |
| 7  |
| 8  |
| 9  |
| 10 |
| 11 |
| 12 |
| 13 |
| 14 |
| 15 |

# QC Sample Results

Client: New York State Electric & Gas  
Project/Site: NYSEG - Clyde

Job ID: 480-227535-1

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

Lab Sample ID: MB 480-739828/8

Matrix: Water

Analysis Batch: 739828

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 |   |          | 02/27/25 20:03 | 1       |
| Ethylbenzene   | ND        |              | 1.0 | 0.74 | ug/L |   |          | 02/27/25 20:03 | 1       |
| Toluene        | ND        |              | 1.0 | 0.51 | ug/L |   |          | 02/27/25 20:03 | 1       |
| Xylenes, Total | ND        |              | 2.0 | 0.66 | ug/L |   |          | 02/27/25 20:03 | 1       |

| Surrogate                    | MB %Recovery | MB Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------------|--------------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 103          |              | 77 - 120 |          | 02/27/25 20:03 | 1       |
| 4-Bromofluorobenzene (Surr)  | 102          |              | 73 - 120 |          | 02/27/25 20:03 | 1       |
| Dibromofluoromethane (Surr)  | 106          |              | 75 - 123 |          | 02/27/25 20:03 | 1       |
| Toluene-d8 (Surr)            | 98           |              | 80 - 120 |          | 02/27/25 20:03 | 1       |

Lab Sample ID: LCS 480-739828/6

Matrix: Water

Analysis Batch: 739828

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        | 24.5       |               | ug/L |   | 98   | 71 - 124    |
| Ethylbenzene   | 25.0        | 23.1       |               | ug/L |   | 92   | 77 - 123    |
| Toluene        | 25.0        | 24.2       |               | ug/L |   | 97   | 80 - 122    |
| Xylenes, Total | 50.0        | 46.9       |               | ug/L |   | 94   | 76 - 122    |

| Surrogate                    | LCS %Recovery | LCS Qualifier | Limits   |
|------------------------------|---------------|---------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 101           |               | 77 - 120 |
| 4-Bromofluorobenzene (Surr)  | 101           |               | 73 - 120 |
| Dibromofluoromethane (Surr)  | 103           |               | 75 - 123 |
| Toluene-d8 (Surr)            | 97            |               | 80 - 120 |

Lab Sample ID: 480-227535-1 MS

Matrix: Ground Water

Analysis Batch: 739828

Client Sample ID: MW-4

Prep Type: Total/NA

| Analyte        | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Benzene        | ND            |                  | 25.0        | 26.8      |              | ug/L |   | 107  | 71 - 124    |
| Ethylbenzene   | ND            |                  | 25.0        | 25.6      |              | ug/L |   | 103  | 77 - 123    |
| Toluene        | ND            |                  | 25.0        | 26.8      |              | ug/L |   | 107  | 80 - 122    |
| Xylenes, Total | ND            |                  | 50.0        | 50.9      |              | ug/L |   | 102  | 76 - 122    |

| Surrogate                    | MS %Recovery | MS Qualifier | Limits   |
|------------------------------|--------------|--------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 103          |              | 77 - 120 |
| 4-Bromofluorobenzene (Surr)  | 100          |              | 73 - 120 |
| Dibromofluoromethane (Surr)  | 102          |              | 75 - 123 |
| Toluene-d8 (Surr)            | 98           |              | 80 - 120 |

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# QC Sample Results

Client: New York State Electric & Gas  
Project/Site: NYSEG - Clyde

Job ID: 480-227535-1

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

Lab Sample ID: 480-227535-1 MSD

Matrix: Ground Water

Analysis Batch: 739828

Client Sample ID: MW-4

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        | 26.8       |               | ug/L |   | 107  | 71 - 124    | 0   | 13        |
| Ethylbenzene   | ND            |                  | 25.0        | 25.8       |               | ug/L |   | 103  | 77 - 123    | 1   | 15        |
| Toluene        | ND            |                  | 25.0        | 27.3       |               | ug/L |   | 109  | 80 - 122    | 2   | 15        |
| Xylenes, Total | ND            |                  | 50.0        | 51.3       |               | ug/L |   | 103  | 76 - 122    | 1   | 16        |

| Surrogate                    | MSD %Recovery | MSD Qualifier | Limits   |
|------------------------------|---------------|---------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 100           |               | 77 - 120 |
| 4-Bromofluorobenzene (Surr)  | 97            |               | 73 - 120 |
| Dibromofluoromethane (Surr)  | 98            |               | 75 - 123 |
| Toluene-d8 (Surr)            | 102           |               | 80 - 120 |

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

Lab Sample ID: MB 480-739876/1-A

Matrix: Water

Analysis Batch: 739945

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 739876

| Analyte                | MB Result | MB Qualifier | RL  | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|-----------|--------------|-----|------|------|---|----------------|----------------|---------|
| Acenaphthene           | ND        |              | 5.0 | 0.41 | ug/L |   | 02/28/25 13:52 | 03/03/25 14:24 | 1       |
| Acenaphthylene         | ND        |              | 5.0 | 0.38 | ug/L |   | 02/28/25 13:52 | 03/03/25 14:24 | 1       |
| Anthracene             | ND        |              | 5.0 | 0.28 | ug/L |   | 02/28/25 13:52 | 03/03/25 14:24 | 1       |
| Benzo[a]anthracene     | ND        |              | 5.0 | 0.36 | ug/L |   | 02/28/25 13:52 | 03/03/25 14:24 | 1       |
| Benzo[a]pyrene         | ND        |              | 5.0 | 0.47 | ug/L |   | 02/28/25 13:52 | 03/03/25 14:24 | 1       |
| Benzo[b]fluoranthene   | ND        |              | 5.0 | 0.34 | ug/L |   | 02/28/25 13:52 | 03/03/25 14:24 | 1       |
| Benzo[g,h,i]perylene   | ND        |              | 5.0 | 0.35 | ug/L |   | 02/28/25 13:52 | 03/03/25 14:24 | 1       |
| Benzo[k]fluoranthene   | ND        |              | 5.0 | 0.73 | ug/L |   | 02/28/25 13:52 | 03/03/25 14:24 | 1       |
| Chrysene               | ND        |              | 5.0 | 0.33 | ug/L |   | 02/28/25 13:52 | 03/03/25 14:24 | 1       |
| Dibenz(a,h)anthracene  | ND        |              | 5.0 | 0.42 | ug/L |   | 02/28/25 13:52 | 03/03/25 14:24 | 1       |
| Fluoranthene           | ND        |              | 5.0 | 0.40 | ug/L |   | 02/28/25 13:52 | 03/03/25 14:24 | 1       |
| Fluorene               | ND        |              | 5.0 | 0.36 | ug/L |   | 02/28/25 13:52 | 03/03/25 14:24 | 1       |
| Indeno[1,2,3-cd]pyrene | ND        |              | 5.0 | 0.47 | ug/L |   | 02/28/25 13:52 | 03/03/25 14:24 | 1       |
| Naphthalene            | ND        |              | 5.0 | 0.76 | ug/L |   | 02/28/25 13:52 | 03/03/25 14:24 | 1       |
| Phenanthrene           | ND        |              | 5.0 | 0.44 | ug/L |   | 02/28/25 13:52 | 03/03/25 14:24 | 1       |
| Pyrene                 | ND        |              | 5.0 | 0.34 | ug/L |   | 02/28/25 13:52 | 03/03/25 14:24 | 1       |

| Surrogate               | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 2-Fluorobiphenyl (Surr) | 74           |              | 53 - 126 | 02/28/25 13:52 | 03/03/25 14:24 | 1       |
| Nitrobenzene-d5 (Surr)  | 67           |              | 29 - 129 | 02/28/25 13:52 | 03/03/25 14:24 | 1       |
| p-Terphenyl-d14 (Surr)  | 86           |              | 33 - 132 | 02/28/25 13:52 | 03/03/25 14:24 | 1       |

Lab Sample ID: LCS 480-739876/2-A

Matrix: Water

Analysis Batch: 739945

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 739876

| Analyte        | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------------|-------------|------------|---------------|------|---|------|-------------|
| Acenaphthene   | 32.0        | 28.2       |               | ug/L |   | 88   | 60 - 120    |
| Acenaphthylene | 32.0        | 29.1       |               | ug/L |   | 91   | 63 - 120    |
| Anthracene     | 32.0        | 32.2       |               | ug/L |   | 100  | 67 - 120    |

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# QC Sample Results

Client: New York State Electric & Gas  
Project/Site: NYSEG - Clyde

Job ID: 480-227535-1

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

Lab Sample ID: LCS 480-739876/2-A

Matrix: Water

Analysis Batch: 739945

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 739876

| Analyte                | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|------------------------|-------------|------------|---------------|------|---|------|-------------|
| Benzo[a]anthracene     | 32.0        | 32.1       |               | ug/L |   | 100  | 70 - 121    |
| Benzo[a]pyrene         | 32.0        | 32.7       |               | ug/L |   | 102  | 60 - 123    |
| Benzo[b]fluoranthene   | 32.0        | 32.0       |               | ug/L |   | 100  | 66 - 126    |
| Benzo[g,h,i]perylene   | 32.0        | 31.9       |               | ug/L |   | 100  | 66 - 150    |
| Benzo[k]fluoranthene   | 32.0        | 33.8       |               | ug/L |   | 106  | 65 - 124    |
| Chrysene               | 32.0        | 31.6       |               | ug/L |   | 99   | 69 - 120    |
| Dibenz(a,h)anthracene  | 32.0        | 31.0       |               | ug/L |   | 97   | 65 - 135    |
| Fluoranthene           | 32.0        | 32.2       |               | ug/L |   | 101  | 69 - 126    |
| Fluorene               | 32.0        | 30.1       |               | ug/L |   | 94   | 66 - 120    |
| Indeno[1,2,3-cd]pyrene | 32.0        | 31.8       |               | ug/L |   | 99   | 69 - 146    |
| Naphthalene            | 32.0        | 23.3       |               | ug/L |   | 73   | 57 - 120    |
| Phenanthrene           | 32.0        | 32.6       |               | ug/L |   | 102  | 68 - 120    |
| Pyrene                 | 32.0        | 32.9       |               | ug/L |   | 103  | 70 - 125    |

| Surrogate               | LCS %Recovery | LCS Qualifier | Limits   |
|-------------------------|---------------|---------------|----------|
| 2-Fluorobiphenyl (Surr) | 83            |               | 53 - 126 |
| Nitrobenzene-d5 (Surr)  | 76            |               | 29 - 129 |
| p-Terphenyl-d14 (Surr)  | 93            |               | 33 - 132 |

Lab Sample ID: 480-227535-1 MS

Matrix: Ground Water

Analysis Batch: 739945

Client Sample ID: MW-4

Prep Type: Total/NA

Prep Batch: 739876

| Analyte                | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|------------------------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Acenaphthene           | 0.54          | J                | 32.0        | 32.0      |              | ug/L |   | 98   | 48 - 120    |
| Acenaphthylene         | ND            |                  | 32.0        | 32.6      |              | ug/L |   | 102  | 63 - 120    |
| Anthracene             | ND            |                  | 32.0        | 33.4      |              | ug/L |   | 104  | 65 - 122    |
| Benzo[a]anthracene     | ND            |                  | 32.0        | 30.4      |              | ug/L |   | 95   | 43 - 124    |
| Benzo[a]pyrene         | ND            |                  | 32.0        | 29.7      |              | ug/L |   | 93   | 23 - 125    |
| Benzo[b]fluoranthene   | ND            |                  | 32.0        | 29.2      |              | ug/L |   | 91   | 27 - 127    |
| Benzo[g,h,i]perylene   | ND            |                  | 32.0        | 28.0      |              | ug/L |   | 87   | 16 - 147    |
| Benzo[k]fluoranthene   | ND            |                  | 32.0        | 29.9      |              | ug/L |   | 93   | 20 - 124    |
| Chrysene               | ND            |                  | 32.0        | 30.6      |              | ug/L |   | 96   | 44 - 122    |
| Dibenz(a,h)anthracene  | ND            |                  | 32.0        | 27.3      |              | ug/L |   | 85   | 16 - 139    |
| Fluoranthene           | 0.90          | J                | 32.0        | 34.9      |              | ug/L |   | 106  | 63 - 129    |
| Fluorene               | 0.40          | J                | 32.0        | 33.6      |              | ug/L |   | 104  | 62 - 120    |
| Indeno[1,2,3-cd]pyrene | ND            |                  | 32.0        | 28.0      |              | ug/L |   | 88   | 16 - 140    |
| Naphthalene            | ND            |                  | 32.0        | 26.3      |              | ug/L |   | 82   | 45 - 120    |
| Phenanthrene           | ND            |                  | 32.0        | 37.5      |              | ug/L |   | 117  | 65 - 122    |
| Pyrene                 | 1.3           | J                | 32.0        | 35.5      |              | ug/L |   | 107  | 58 - 128    |

| Surrogate               | MS %Recovery | MS Qualifier | Limits   |
|-------------------------|--------------|--------------|----------|
| 2-Fluorobiphenyl (Surr) | 94           |              | 53 - 126 |
| Nitrobenzene-d5 (Surr)  | 87           |              | 29 - 129 |
| p-Terphenyl-d14 (Surr)  | 72           |              | 33 - 132 |

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# QC Sample Results

Client: New York State Electric & Gas  
Project/Site: NYSEG - Clyde

Job ID: 480-227535-1

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

Lab Sample ID: 480-227535-1 MSD

Matrix: Ground Water

Analysis Batch: 739945

Client Sample ID: MW-4

Prep Type: Total/NA

Prep Batch: 739876

| Analyte                | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|------------------------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| Acenaphthene           | 0.54          | J                | 32.0        | 29.7       |               | ug/L |   | 91   | 48 - 120    | 7   | 24        |
| Acenaphthylene         | ND            |                  | 32.0        | 30.6       |               | ug/L |   | 96   | 63 - 120    | 6   | 18        |
| Anthracene             | ND            |                  | 32.0        | 31.5       |               | ug/L |   | 98   | 65 - 122    | 6   | 15        |
| Benzo[a]anthracene     | ND            |                  | 32.0        | 28.5       |               | ug/L |   | 89   | 43 - 124    | 7   | 15        |
| Benzo[a]pyrene         | ND            |                  | 32.0        | 26.8       |               | ug/L |   | 84   | 23 - 125    | 10  | 15        |
| Benzo[b]fluoranthene   | ND            |                  | 32.0        | 26.9       |               | ug/L |   | 84   | 27 - 127    | 8   | 15        |
| Benzo[g,h,i]perylene   | ND            |                  | 32.0        | 25.4       |               | ug/L |   | 79   | 16 - 147    | 10  | 15        |
| Benzo[k]fluoranthene   | ND            |                  | 32.0        | 27.8       |               | ug/L |   | 87   | 20 - 124    | 7   | 22        |
| Chrysene               | ND            |                  | 32.0        | 28.3       |               | ug/L |   | 89   | 44 - 122    | 8   | 15        |
| Dibenz(a,h)anthracene  | ND            |                  | 32.0        | 25.0       |               | ug/L |   | 78   | 16 - 139    | 9   | 15        |
| Fluoranthene           | 0.90          | J                | 32.0        | 32.5       |               | ug/L |   | 99   | 63 - 129    | 7   | 15        |
| Fluorene               | 0.40          | J                | 32.0        | 31.2       |               | ug/L |   | 96   | 62 - 120    | 8   | 15        |
| Indeno[1,2,3-cd]pyrene | ND            |                  | 32.0        | 25.6       |               | ug/L |   | 80   | 16 - 140    | 9   | 15        |
| Naphthalene            | ND            |                  | 32.0        | 25.5       |               | ug/L |   | 80   | 45 - 120    | 3   | 29        |
| Phenanthrene           | ND            |                  | 32.0        | 35.0       |               | ug/L |   | 109  | 65 - 122    | 7   | 15        |
| Pyrene                 | 1.3           | J                | 32.0        | 33.1       |               | ug/L |   | 99   | 58 - 128    | 7   | 19        |

| Surrogate               | MSD %Recovery | MSD Qualifier | Limits   |
|-------------------------|---------------|---------------|----------|
| 2-Fluorobiphenyl (Surr) | 88            |               | 53 - 126 |
| Nitrobenzene-d5 (Surr)  | 84            |               | 29 - 129 |
| p-Terphenyl-d14 (Surr)  | 68            |               | 33 - 132 |

## Method: 6010D - Metals (ICP)

Lab Sample ID: MB 480-739713/1-A

Matrix: Water

Analysis Batch: 739825

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 739713

| Analyte   | MB Result | MB Qualifier | RL     | MDL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|-----------|--------------|--------|---------|------|---|----------------|----------------|---------|
| Aluminum  | ND        |              | 0.20   | 0.060   | mg/L |   | 02/27/25 09:16 | 02/27/25 15:00 | 1       |
| Antimony  | ND        |              | 0.020  | 0.0068  | mg/L |   | 02/27/25 09:16 | 02/27/25 15:00 | 1       |
| Arsenic   | ND        |              | 0.015  | 0.0056  | mg/L |   | 02/27/25 09:16 | 02/27/25 15:00 | 1       |
| Barium    | ND        |              | 0.0020 | 0.00070 | mg/L |   | 02/27/25 09:16 | 02/27/25 15:00 | 1       |
| Beryllium | ND        | ^5-          | 0.0020 | 0.00030 | mg/L |   | 02/27/25 09:16 | 02/27/25 15:00 | 1       |
| Cadmium   | ND        |              | 0.0020 | 0.00050 | mg/L |   | 02/27/25 09:16 | 02/27/25 15:00 | 1       |
| Calcium   | ND        | ^5-          | 0.50   | 0.10    | mg/L |   | 02/27/25 09:16 | 02/27/25 15:00 | 1       |
| Chromium  | ND        | ^5-          | 0.0040 | 0.0010  | mg/L |   | 02/27/25 09:16 | 02/27/25 15:00 | 1       |
| Cobalt    | 0.000951  | J            | 0.0040 | 0.00063 | mg/L |   | 02/27/25 09:16 | 02/27/25 15:00 | 1       |
| Copper    | ND        | ^5+          | 0.010  | 0.0016  | mg/L |   | 02/27/25 09:16 | 02/27/25 15:00 | 1       |
| Iron      | ND        | ^5-          | 0.050  | 0.019   | mg/L |   | 02/27/25 09:16 | 02/27/25 15:00 | 1       |
| Lead      | ND        |              | 0.010  | 0.0030  | mg/L |   | 02/27/25 09:16 | 02/27/25 15:00 | 1       |
| Magnesium | ND        | ^5-          | 0.20   | 0.043   | mg/L |   | 02/27/25 09:16 | 02/27/25 15:00 | 1       |
| Manganese | ND        | ^5-          | 0.0030 | 0.00040 | mg/L |   | 02/27/25 09:16 | 02/27/25 15:00 | 1       |
| Nickel    | ND        |              | 0.010  | 0.0013  | mg/L |   | 02/27/25 09:16 | 02/27/25 15:00 | 1       |
| Potassium | ND        |              | 0.50   | 0.10    | mg/L |   | 02/27/25 09:16 | 02/27/25 15:00 | 1       |
| Selenium  | ND        |              | 0.025  | 0.0087  | mg/L |   | 02/27/25 09:16 | 02/27/25 15:00 | 1       |
| Silver    | ND        | ^5-          | 0.0060 | 0.0017  | mg/L |   | 02/27/25 09:16 | 02/27/25 15:00 | 1       |
| Sodium    | ND        | ^5-          | 1.0    | 0.32    | mg/L |   | 02/27/25 09:16 | 02/27/25 15:00 | 1       |

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# QC Sample Results

Client: New York State Electric & Gas  
Project/Site: NYSEG - Clyde

Job ID: 480-227535-1

## Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: MB 480-739713/1-A  
Matrix: Water  
Analysis Batch: 739825

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 739713

| Analyte  | MB Result | MB Qualifier | RL     | MDL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------|-----------|--------------|--------|--------|------|---|----------------|----------------|---------|
| Thallium | ND        |              | 0.020  | 0.010  | mg/L |   | 02/27/25 09:16 | 02/27/25 15:00 | 1       |
| Vanadium | ND        | ^5-          | 0.0050 | 0.0015 | mg/L |   | 02/27/25 09:16 | 02/27/25 15:00 | 1       |
| Zinc     | ND        | ^5-          | 0.010  | 0.0015 | mg/L |   | 02/27/25 09:16 | 02/27/25 15:00 | 1       |

Lab Sample ID: LCS 480-739713/2-A  
Matrix: Water  
Analysis Batch: 739825

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 739713

| Analyte   | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|-----------|-------------|------------|---------------|------|---|------|-------------|
| Aluminum  | 5.11        | 5.09       |               | mg/L |   | 99   | 80 - 120    |
| Antimony  | 0.500       | 0.486      |               | mg/L |   | 97   | 80 - 120    |
| Arsenic   | 1.01        | 0.961      |               | mg/L |   | 96   | 80 - 120    |
| Barium    | 1.00        | 0.993      |               | mg/L |   | 99   | 80 - 120    |
| Beryllium | 0.496       | 0.516      | ^5-           | mg/L |   | 104  | 80 - 120    |
| Cadmium   | 0.500       | 0.502      |               | mg/L |   | 100  | 80 - 120    |
| Calcium   | 25.0        | 25.41      | ^5-           | mg/L |   | 102  | 80 - 120    |
| Chromium  | 0.499       | 0.514      | ^5-           | mg/L |   | 103  | 80 - 120    |
| Cobalt    | 0.500       | 0.506      |               | mg/L |   | 101  | 80 - 120    |
| Copper    | 0.500       | 0.493      | ^5+           | mg/L |   | 99   | 80 - 120    |
| Iron      | 5.12        | 5.46       | ^5-           | mg/L |   | 107  | 80 - 120    |
| Lead      | 0.500       | 0.518      |               | mg/L |   | 104  | 80 - 120    |
| Magnesium | 25.0        | 24.65      | ^5-           | mg/L |   | 99   | 80 - 120    |
| Manganese | 0.498       | 0.497      | ^5-           | mg/L |   | 100  | 80 - 120    |
| Nickel    | 0.501       | 0.522      |               | mg/L |   | 104  | 80 - 120    |
| Potassium | 25.0        | 25.91      |               | mg/L |   | 104  | 80 - 120    |
| Selenium  | 1.00        | 0.987      |               | mg/L |   | 99   | 80 - 120    |
| Silver    | 0.0500      | 0.0498     | ^5-           | mg/L |   | 100  | 80 - 120    |
| Sodium    | 25.0        | 25.12      | ^5-           | mg/L |   | 101  | 80 - 120    |
| Thallium  | 1.00        | 1.01       |               | mg/L |   | 101  | 80 - 120    |
| Vanadium  | 0.502       | 0.497      | ^5-           | mg/L |   | 99   | 80 - 120    |
| Zinc      | 0.500       | 0.531      | ^5-           | mg/L |   | 106  | 80 - 120    |

Lab Sample ID: 480-227535-1 MS  
Matrix: Ground Water  
Analysis Batch: 739825

Client Sample ID: MW-4  
Prep Type: Total/NA  
Prep Batch: 739713

| Analyte   | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|-----------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Aluminum  | ND            |                  | 5.11        | 5.01      |              | mg/L |   | 98   | 75 - 125    |
| Antimony  | ND            |                  | 0.500       | 0.498     |              | mg/L |   | 100  | 75 - 125    |
| Arsenic   | ND            |                  | 1.01        | 0.972     |              | mg/L |   | 97   | 75 - 125    |
| Barium    | 0.24          |                  | 1.00        | 1.21      |              | mg/L |   | 97   | 75 - 125    |
| Beryllium | ND            | ^5-              | 0.496       | 0.506     | ^5-          | mg/L |   | 102  | 75 - 125    |
| Cadmium   | ND            |                  | 0.500       | 0.514     |              | mg/L |   | 103  | 75 - 125    |
| Chromium  | ND            | ^5-              | 0.499       | 0.510     | ^5-          | mg/L |   | 102  | 75 - 125    |
| Cobalt    | ND            |                  | 0.500       | 0.504     |              | mg/L |   | 101  | 75 - 125    |
| Copper    | ND            | ^5+              | 0.500       | 0.531     | ^5+          | mg/L |   | 106  | 75 - 125    |
| Iron      | 25.3          | ^5-              | 5.12        | 30.81     | ^5- 4        | mg/L |   | 108  | 75 - 125    |
| Lead      | 0.0033        | J                | 0.500       | 0.524     |              | mg/L |   | 104  | 75 - 125    |
| Magnesium | 30.9          | ^5-              | 25.0        | 53.87     | ^5-          | mg/L |   | 92   | 75 - 125    |

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# QC Sample Results

Client: New York State Electric & Gas  
Project/Site: NYSEG - Clyde

Job ID: 480-227535-1

## Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 480-227535-1 MS

Matrix: Ground Water

Analysis Batch: 739825

Client Sample ID: MW-4

Prep Type: Total/NA

Prep Batch: 739713

| Analyte   | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|-----------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Manganese | 1.0           | ^5-              | 0.498       | 1.46      | ^5-          | mg/L |   | 91   | 75 - 125    |
| Nickel    | ND            |                  | 0.501       | 0.518     |              | mg/L |   | 103  | 75 - 125    |
| Potassium | 6.9           |                  | 25.0        | 32.84     |              | mg/L |   | 104  | 75 - 125    |
| Selenium  | ND            |                  | 1.00        | 1.00      |              | mg/L |   | 100  | 75 - 125    |
| Silver    | ND            | ^5-              | 0.0500      | 0.0511    | ^5-          | mg/L |   | 102  | 75 - 125    |
| Sodium    | 36.4          |                  | 25.0        | 60.33     |              | mg/L |   | 96   | 75 - 125    |
| Thallium  | ND            |                  | 1.00        | 1.03      |              | mg/L |   | 103  | 75 - 125    |
| Vanadium  | ND            | ^5-              | 0.502       | 0.499     | ^5-          | mg/L |   | 99   | 75 - 125    |
| Zinc      | 0.15          | ^5-              | 0.500       | 0.624     | ^5-          | mg/L |   | 95   | 75 - 125    |

Lab Sample ID: 480-227535-1 MS

Matrix: Ground Water

Analysis Batch: 740058

Client Sample ID: MW-4

Prep Type: Total/NA

Prep Batch: 739713

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Calcium | 197           |                  | 25.0        | 212.7     | 4            | mg/L |   | 62   | 75 - 125    |

Lab Sample ID: 480-227535-1 MSD

Matrix: Ground Water

Analysis Batch: 739825

Client Sample ID: MW-4

Prep Type: Total/NA

Prep Batch: 739713

| Analyte   | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | Limit |
|-----------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-------|
| Aluminum  | ND            |                  | 5.11        | 5.23       |               | mg/L |   | 102  | 75 - 125    | 4   | 20    |
| Antimony  | ND            |                  | 0.500       | 0.504      |               | mg/L |   | 101  | 75 - 125    | 1   | 20    |
| Arsenic   | ND            |                  | 1.01        | 0.989      |               | mg/L |   | 98   | 75 - 125    | 2   | 20    |
| Barium    | 0.24          |                  | 1.00        | 1.25       |               | mg/L |   | 101  | 75 - 125    | 3   | 20    |
| Beryllium | ND            | ^5-              | 0.496       | 0.527      | ^5-           | mg/L |   | 106  | 75 - 125    | 4   | 20    |
| Cadmium   | ND            |                  | 0.500       | 0.522      |               | mg/L |   | 104  | 75 - 125    | 2   | 20    |
| Chromium  | ND            | ^5-              | 0.499       | 0.519      | ^5-           | mg/L |   | 104  | 75 - 125    | 2   | 20    |
| Cobalt    | ND            |                  | 0.500       | 0.510      |               | mg/L |   | 102  | 75 - 125    | 1   | 20    |
| Copper    | ND            | ^5+              | 0.500       | 0.537      | ^5+           | mg/L |   | 107  | 75 - 125    | 1   | 20    |
| Iron      | 25.3          | ^5-              | 5.12        | 31.13      | ^5- 4         | mg/L |   | 114  | 75 - 125    | 1   | 20    |
| Lead      | 0.0033        | J                | 0.500       | 0.530      |               | mg/L |   | 105  | 75 - 125    | 1   | 20    |
| Magnesium | 30.9          | ^5-              | 25.0        | 56.51      | ^5-           | mg/L |   | 102  | 75 - 125    | 5   | 20    |
| Manganese | 1.0           | ^5-              | 0.498       | 1.51       | ^5-           | mg/L |   | 102  | 75 - 125    | 4   | 20    |
| Nickel    | ND            |                  | 0.501       | 0.523      |               | mg/L |   | 104  | 75 - 125    | 1   | 20    |
| Potassium | 6.9           |                  | 25.0        | 33.89      |               | mg/L |   | 108  | 75 - 125    | 3   | 20    |
| Selenium  | ND            |                  | 1.00        | 1.01       |               | mg/L |   | 101  | 75 - 125    | 1   | 20    |
| Silver    | ND            | ^5-              | 0.0500      | 0.0515     | ^5-           | mg/L |   | 103  | 75 - 125    | 1   | 20    |
| Sodium    | 36.4          |                  | 25.0        | 61.93      |               | mg/L |   | 102  | 75 - 125    | 3   | 20    |
| Thallium  | ND            |                  | 1.00        | 1.04       |               | mg/L |   | 104  | 75 - 125    | 1   | 20    |
| Vanadium  | ND            | ^5-              | 0.502       | 0.506      | ^5-           | mg/L |   | 101  | 75 - 125    | 1   | 20    |
| Zinc      | 0.15          | ^5-              | 0.500       | 0.625      | ^5-           | mg/L |   | 95   | 75 - 125    | 0   | 20    |

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# QC Sample Results

Client: New York State Electric & Gas  
Project/Site: NYSEG - Clyde

Job ID: 480-227535-1

## Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 480-227535-1 MSD  
Matrix: Ground Water  
Analysis Batch: 740058

Client Sample ID: MW-4  
Prep Type: Total/NA  
Prep Batch: 739713

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| Calcium | 197           |                  | 25.0        | 216.6      | 4             | mg/L |   | 78   | 75 - 125    | 2   | 20        |

## Method: 9012B - Cyanide, Total and/or Amenable

Lab Sample ID: MB 480-739740/47  
Matrix: Water  
Analysis Batch: 739740

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

| Analyte        | MB Result | MB Qualifier | RL    | MDL    | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------|-----------|--------------|-------|--------|------|---|----------|----------------|---------|
| Cyanide, Total | 0.0134    |              | 0.010 | 0.0041 | mg/L |   |          | 02/26/25 20:30 | 1       |

Lab Sample ID: HLCS 480-739740/22  
Matrix: Water  
Analysis Batch: 739740

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

| Analyte        | Spike Added | HLCS Result | HLCS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------------|-------------|-------------|----------------|------|---|------|-------------|
| Cyanide, Total | 0.400       | 0.407       |                | mg/L |   | 102  | 90 - 110    |

Lab Sample ID: LCS 480-739740/48  
Matrix: Water  
Analysis Batch: 739740

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

| Analyte        | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------------|-------------|------------|---------------|------|---|------|-------------|
| Cyanide, Total | 0.250       | 0.256      |               | mg/L |   | 102  | 90 - 110    |

Lab Sample ID: 480-227535-1 MS  
Matrix: Ground Water  
Analysis Batch: 739740

Client Sample ID: MW-4  
Prep Type: Total/NA

| Analyte        | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Cyanide, Total | ND            | F1               | 0.100       | 0.0700    | F1           | mg/L |   | 70   | 90 - 110    |

Lab Sample ID: 480-227535-1 MSD  
Matrix: Ground Water  
Analysis Batch: 739740

Client Sample ID: MW-4  
Prep Type: Total/NA

| Analyte        | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| Cyanide, Total | ND            | F1               | 0.100       | 0.0724     | F1            | mg/L |   | 72   | 90 - 110    | 3   | 15        |

# QC Association Summary

Client: New York State Electric & Gas  
Project/Site: NYSEG - Clyde

Job ID: 480-227535-1

## GC/MS VOA

### Analysis Batch: 739828

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix       | Method | Prep Batch |
|------------------|--------------------|-----------|--------------|--------|------------|
| 480-227535-1     | MW-4               | Total/NA  | Ground Water | 8260C  |            |
| 480-227535-2     | Dup-20250225       | Total/NA  | Ground Water | 8260C  |            |
| MB 480-739828/8  | Method Blank       | Total/NA  | Water        | 8260C  |            |
| LCS 480-739828/6 | Lab Control Sample | Total/NA  | Water        | 8260C  |            |
| 480-227535-1 MS  | MW-4               | Total/NA  | Ground Water | 8260C  |            |
| 480-227535-1 MSD | MW-4               | Total/NA  | Ground Water | 8260C  |            |

## GC/MS Semi VOA

### Prep Batch: 739876

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix       | Method | Prep Batch |
|--------------------|--------------------|-----------|--------------|--------|------------|
| 480-227535-1       | MW-4               | Total/NA  | Ground Water | 3510C  |            |
| 480-227535-2       | Dup-20250225       | Total/NA  | Ground Water | 3510C  |            |
| MB 480-739876/1-A  | Method Blank       | Total/NA  | Water        | 3510C  |            |
| LCS 480-739876/2-A | Lab Control Sample | Total/NA  | Water        | 3510C  |            |
| 480-227535-1 MS    | MW-4               | Total/NA  | Ground Water | 3510C  |            |
| 480-227535-1 MSD   | MW-4               | Total/NA  | Ground Water | 3510C  |            |

### Analysis Batch: 739945

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix       | Method | Prep Batch |
|--------------------|--------------------|-----------|--------------|--------|------------|
| 480-227535-1       | MW-4               | Total/NA  | Ground Water | 8270D  | 739876     |
| 480-227535-2       | Dup-20250225       | Total/NA  | Ground Water | 8270D  | 739876     |
| MB 480-739876/1-A  | Method Blank       | Total/NA  | Water        | 8270D  | 739876     |
| LCS 480-739876/2-A | Lab Control Sample | Total/NA  | Water        | 8270D  | 739876     |
| 480-227535-1 MS    | MW-4               | Total/NA  | Ground Water | 8270D  | 739876     |
| 480-227535-1 MSD   | MW-4               | Total/NA  | Ground Water | 8270D  | 739876     |

## Metals

### Prep Batch: 739713

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix       | Method | Prep Batch |
|--------------------|--------------------|-----------|--------------|--------|------------|
| 480-227535-1       | MW-4               | Total/NA  | Ground Water | 3005A  |            |
| 480-227535-2       | Dup-20250225       | Total/NA  | Ground Water | 3005A  |            |
| MB 480-739713/1-A  | Method Blank       | Total/NA  | Water        | 3005A  |            |
| LCS 480-739713/2-A | Lab Control Sample | Total/NA  | Water        | 3005A  |            |
| 480-227535-1 MS    | MW-4               | Total/NA  | Ground Water | 3005A  |            |
| 480-227535-1 MSD   | MW-4               | Total/NA  | Ground Water | 3005A  |            |

### Analysis Batch: 739825

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix       | Method | Prep Batch |
|--------------------|--------------------|-----------|--------------|--------|------------|
| 480-227535-1       | MW-4               | Total/NA  | Ground Water | 6010D  | 739713     |
| 480-227535-2       | Dup-20250225       | Total/NA  | Ground Water | 6010D  | 739713     |
| MB 480-739713/1-A  | Method Blank       | Total/NA  | Water        | 6010D  | 739713     |
| LCS 480-739713/2-A | Lab Control Sample | Total/NA  | Water        | 6010D  | 739713     |
| 480-227535-1 MS    | MW-4               | Total/NA  | Ground Water | 6010D  | 739713     |
| 480-227535-1 MSD   | MW-4               | Total/NA  | Ground Water | 6010D  | 739713     |

### Analysis Batch: 740058

| Lab Sample ID   | Client Sample ID | Prep Type | Matrix       | Method | Prep Batch |
|-----------------|------------------|-----------|--------------|--------|------------|
| 480-227535-1    | MW-4             | Total/NA  | Ground Water | 6010D  | 739713     |
| 480-227535-2    | Dup-20250225     | Total/NA  | Ground Water | 6010D  | 739713     |
| 480-227535-1 MS | MW-4             | Total/NA  | Ground Water | 6010D  | 739713     |

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## QC Association Summary

Client: New York State Electric & Gas  
Project/Site: NYSEG - Clyde

Job ID: 480-227535-1

### Metals (Continued)

#### Analysis Batch: 740058 (Continued)

| Lab Sample ID    | Client Sample ID | Prep Type | Matrix       | Method | Prep Batch |
|------------------|------------------|-----------|--------------|--------|------------|
| 480-227535-1 MSD | MW-4             | Total/NA  | Ground Water | 6010D  | 739713     |

### General Chemistry

#### Analysis Batch: 739740

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix       | Method | Prep Batch |
|--------------------|--------------------|-----------|--------------|--------|------------|
| 480-227535-1       | MW-4               | Total/NA  | Ground Water | 9012B  |            |
| 480-227535-2       | Dup-20250225       | Total/NA  | Ground Water | 9012B  |            |
| MB 480-739740/47   | Method Blank       | Total/NA  | Water        | 9012B  |            |
| HLCS 480-739740/22 | Lab Control Sample | Total/NA  | Water        | 9012B  |            |
| LCS 480-739740/48  | Lab Control Sample | Total/NA  | Water        | 9012B  |            |
| 480-227535-1 MS    | MW-4               | Total/NA  | Ground Water | 9012B  |            |
| 480-227535-1 MSD   | MW-4               | Total/NA  | Ground Water | 9012B  |            |

# Lab Chronicle

Client: New York State Electric & Gas  
Project/Site: NYSEG - Clyde

Job ID: 480-227535-1

**Client Sample ID: MW-4**

**Date Collected: 02/25/25 11:40**

**Date Received: 02/26/25 11:20**

**Lab Sample ID: 480-227535-1**

**Matrix: Ground Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Analysis   | 8260C        |     | 1               | 739828       | LCH     | EET BUF | 02/27/25 22:19       |
| Total/NA  | Prep       | 3510C        |     |                 | 739876       | LSC     | EET BUF | 02/28/25 13:52       |
| Total/NA  | Analysis   | 8270D        |     | 1               | 739945       | AF      | EET BUF | 03/03/25 16:11       |
| Total/NA  | Prep       | 3005A        |     |                 | 739713       | ET      | EET BUF | 02/27/25 09:16       |
| Total/NA  | Analysis   | 6010D        |     | 1               | 739825       | BMB     | EET BUF | 02/27/25 15:04       |
| Total/NA  | Prep       | 3005A        |     |                 | 739713       | ET      | EET BUF | 02/27/25 09:16       |
| Total/NA  | Analysis   | 6010D        |     | 1               | 740058       | ESB     | EET BUF | 03/04/25 18:17       |
| Total/NA  | Analysis   | 9012B        |     | 1               | 739740       | GW      | EET BUF | 02/26/25 20:36       |

**Client Sample ID: Dup-20250225**

**Date Collected: 02/25/25 00:00**

**Date Received: 02/26/25 11:20**

**Lab Sample ID: 480-227535-2**

**Matrix: Ground Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Analysis   | 8260C        |     | 1               | 739828       | LCH     | EET BUF | 02/27/25 22:41       |
| Total/NA  | Prep       | 3510C        |     |                 | 739876       | LSC     | EET BUF | 02/28/25 13:52       |
| Total/NA  | Analysis   | 8270D        |     | 1               | 739945       | AF      | EET BUF | 03/03/25 17:58       |
| Total/NA  | Prep       | 3005A        |     |                 | 739713       | ET      | EET BUF | 02/27/25 09:16       |
| Total/NA  | Analysis   | 6010D        |     | 1               | 739825       | BMB     | EET BUF | 02/27/25 15:13       |
| Total/NA  | Prep       | 3005A        |     |                 | 739713       | ET      | EET BUF | 02/27/25 09:16       |
| Total/NA  | Analysis   | 6010D        |     | 1               | 740058       | ESB     | EET BUF | 03/04/25 18:27       |
| Total/NA  | Analysis   | 9012B        |     | 1               | 739740       | GW      | EET BUF | 02/26/25 20:46       |

## Laboratory References:

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

Accreditation/Certification Summary

Client: New York State Electric & Gas  
Project/Site: NYSEG - Clyde

Job ID: 480-227535-1

Laboratory: Eurofins Buffalo

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

| Authority | Program | Identification Number | Expiration Date |
|-----------|---------|-----------------------|-----------------|
| New York  | NELAP   | 10026                 | 03-31-25        |

- 1
- 2
- 3
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## Method Summary

Client: New York State Electric & Gas  
Project/Site: NYSEG - Clyde

Job ID: 480-227535-1

| Method | Method Description                           | Protocol | Laboratory |
|--------|--|----------|------------|
| 8260C  | Volatile Organic Compounds by GC/MS          | SW846    | EET BUF    |
| 8270D  | Semivolatile Organic Compounds (GC/MS)       | SW846    | EET BUF    |
| 6010D  | Metals (ICP)                                 | SW846    | EET BUF    |
| 9012B  | Cyanide, Total and/or Amenable               | SW846    | EET BUF    |
| 3005A  | Preparation, Total Metals                    | SW846    | EET BUF    |
| 3510C  | Liquid-Liquid Extraction (Separatory Funnel) | SW846    | EET BUF    |
| 5030C  | Purge and Trap                               | SW846    | EET BUF    |

### Protocol References:

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

### Laboratory References:

EET 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 - Clyde

Job ID: 480-227535-1

| Lab Sample ID | Client Sample ID | Matrix       | Collected      | Received       |
|---------------|------------------|--------------|----------------|----------------|
| 480-227535-1  | MW-4             | Ground Water | 02/25/25 11:40 | 02/26/25 11:20 |
| 480-227535-2  | Dup-20250225     | Ground Water | 02/25/25 00:00 | 02/26/25 11:20 |

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## Chain of Custody Record

|  |  |  |  |  |  |
|--|--|--|--|--|--|
| <b>Client Information</b>  |  |  | <b>Carrier Tracking No(s)</b>  |  |  |
| Client Contact<br>Mr. John Ruspantini  |  |  | 480-201975-41503.1   |  |  |
| Company<br>New York State Electric & Gas   |  |  | Page 1 of 1  |  |  |
| Address<br>18 Link Drive<br>City<br>Binghamton<br>State, Zip<br>NY, 13902<br>Phone   |  |  | Job #  |  |  |
| Email<br>jruspantini@nyseg.com   |  |  | Preservation Codes:<br>B - NaOH<br>N - None<br>D - HNO3<br>A - HCL   |  |  |
| Project Name<br>NYSEG - Clyde/ Event Desc: Groundwater   |  |  | Barcode<br>480-227535 Chain of Custody   |  |  |
| Site<br>New York   |  |  | Special Instructions/Note:   |  |  |
| Sample Identification  |  |  | Total Number   |  |  |
| MW-4   |  |  | 21   |  |  |
| DUP - 20250225   |  |  | 7  |  |  |
| TRIP BLANK   |  |  | 2  |  |  |
| Possible Hazard Identification<br><input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological |  |  | Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)<br><input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months |  |  |
| Deliverable Requested: I, II, III, IV, Other (specify)   |  |  | Special Instructions/QC Requirements:  |  |  |
| Empty Kit Relinquished by:   |  |  | Method of Shipment   |  |  |
| Relinquished by<br>B. K. Williams  |  |  | Date/Time<br>2/26/25 0900  |  |  |
| Relinquished by<br>B. K. Williams  |  |  | Date/Time<br>2-26-25 1120  |  |  |
| Relinquished by  |  |  | Date/Time  |  |  |
| Custody Seals Intact:<br>Δ Yes Δ No  |  |  | Cooler Temperature(s) and Other Remarks:<br>2.6 ICEIR # 50   |  |  |

## Login Sample Receipt Checklist

Client: New York State Electric & Gas

Job Number: 480-227535-1

**Login Number: 227535**

**List Number: 1**

**Creator: Yeager, Brian A**

**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   | 2.6 ICE IR# SC |
| 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   | Arcadis        |
| Samples received within 48 hours of sampling.                                    | True   |                |
| Samples requiring field filtration have been filtered in the field.              | True   |                |
| Chlorine Residual checked.   | N/A    |                |

# ANALYTICAL REPORT

## PREPARED FOR

Attn: Mr. John J Ruspantini  
New York State Electric & Gas  
18 Link Drive  
Binghamton, New York 13902

Generated 3/20/2025 12:44:06 PM

## JOB DESCRIPTION

NYSEG - Clyde  
Groundwater

## JOB NUMBER

480-227898-1

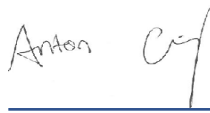
# Eurofins Buffalo

## Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

## Authorization



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Authorized for release by  
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(716)504-9838

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## Definitions/Glossary

Client: New York State Electric & Gas  
Project/Site: NYSEG - Clyde

Job ID: 480-227898-1

### Qualifiers

#### Metals

| Qualifier | Qualifier Description   |
|-----------|---|
| ^5-       | Linear Range Check (LRC) is outside acceptance limits, low biased.  |
| ^5+       | Linear Range Check (LRC) is outside acceptance limits, high biased.   |
| 4         | MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable. |
| B         | Compound was found in the blank and sample.   |
| J         | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.  |

#### General Chemistry

| Qualifier | Qualifier Description  |
|-----------|--|
| B         | Compound was found in the blank and sample.  |
| 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: NYSEG - Clyde

Job ID: 480-227898-1

**Job ID: 480-227898-1**

**Eurofins Buffalo**

### **Job Narrative 480-227898-1**

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

#### **Receipt**

The samples were received on 3/15/2025 9:00 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 time was 2.6°C.

#### **GC/MS VOA**

Method 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 480-741081 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits. The following associated sample is impacted: MW-12 MSD (480-227898-1[MSD])

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

#### **GC/MS Semi VOA**

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

#### **Metals**

Method 6010D: The linear range check (LRC) standard recovery associated with 480-741101 is outside the acceptance criteria for the following analytes: total Silver, Beryllium, Cobalt, Copper, Lead, Selenium, and Thallium. The concentration of these analyte(s) in the sample(s) are below the highest standard of the calibration curve; therefore, the data have been reported.

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

#### **General Chemistry**

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

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## Detection Summary

Client: New York State Electric & Gas  
Project/Site: NYSEG - Clyde

Job ID: 480-227898-1

### Client Sample ID: MW-12

### Lab Sample ID: 480-227898-1

| Analyte        | Result | Qualifier | RL     | MDL     | Unit | Dil Fac | D | Method | Prep Type |
|----------------|--------|-----------|--------|---------|------|---------|---|--------|-----------|
| Barium         | 0.10   |           | 0.0020 | 0.00070 | mg/L | 1       |   | 6010D  | Total/NA  |
| Calcium        | 142    |           | 0.50   | 0.10    | mg/L | 1       |   | 6010D  | Total/NA  |
| Copper         | 0.0017 | J ^5+     | 0.010  | 0.0016  | mg/L | 1       |   | 6010D  | Total/NA  |
| Iron           | 0.44   |           | 0.050  | 0.019   | mg/L | 1       |   | 6010D  | Total/NA  |
| Magnesium      | 22.3   |           | 0.20   | 0.043   | mg/L | 1       |   | 6010D  | Total/NA  |
| Manganese      | 0.16   |           | 0.0030 | 0.00040 | mg/L | 1       |   | 6010D  | Total/NA  |
| Nickel         | 0.0014 | J B       | 0.010  | 0.0013  | mg/L | 1       |   | 6010D  | Total/NA  |
| Potassium      | 4.7    |           | 0.50   | 0.10    | mg/L | 1       |   | 6010D  | Total/NA  |
| Sodium         | 70.2   |           | 1.0    | 0.32    | mg/L | 1       |   | 6010D  | Total/NA  |
| Zinc           | 0.22   |           | 0.010  | 0.0015  | mg/L | 1       |   | 6010D  | Total/NA  |
| Cyanide, Total | 0.0091 | J B F1    | 0.010  | 0.0041  | mg/L | 1       |   | 9012B  | Total/NA  |

### Client Sample ID: TRIP BLANK

### Lab Sample ID: 480-227898-2

No Detections.

### Client Sample ID: DUP-20250314

### Lab Sample ID: 480-227898-3

| Analyte        | Result | Qualifier | RL     | MDL     | Unit | Dil Fac | D | Method | Prep Type |
|----------------|--------|-----------|--------|---------|------|---------|---|--------|-----------|
| Barium         | 0.10   |           | 0.0020 | 0.00070 | mg/L | 1       |   | 6010D  | Total/NA  |
| Calcium        | 140    |           | 0.50   | 0.10    | mg/L | 1       |   | 6010D  | Total/NA  |
| Copper         | 0.0020 | J ^5+     | 0.010  | 0.0016  | mg/L | 1       |   | 6010D  | Total/NA  |
| Iron           | 0.46   |           | 0.050  | 0.019   | mg/L | 1       |   | 6010D  | Total/NA  |
| Magnesium      | 22.0   |           | 0.20   | 0.043   | mg/L | 1       |   | 6010D  | Total/NA  |
| Manganese      | 0.16   |           | 0.0030 | 0.00040 | mg/L | 1       |   | 6010D  | Total/NA  |
| Potassium      | 4.7    |           | 0.50   | 0.10    | mg/L | 1       |   | 6010D  | Total/NA  |
| Sodium         | 70.7   |           | 1.0    | 0.32    | mg/L | 1       |   | 6010D  | Total/NA  |
| Zinc           | 0.22   |           | 0.010  | 0.0015  | mg/L | 1       |   | 6010D  | Total/NA  |
| Cyanide, Total | 0.0061 | J B       | 0.010  | 0.0041  | mg/L | 1       |   | 9012B  | Total/NA  |

This Detection Summary does not include radiochemical test results.

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# Client Sample Results

Client: New York State Electric & Gas  
Project/Site: NYSEG - Clyde

Job ID: 480-227898-1

Client Sample ID: MW-12

Lab Sample ID: 480-227898-1

Date Collected: 03/14/25 11:35

Matrix: Ground Water

Date Received: 03/15/25 09:00

## Method: SW846 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 |   |          | 03/19/25 01:56 | 1       |
| Ethylbenzene   | ND     |           | 1.0 | 0.74 | ug/L |   |          | 03/19/25 01:56 | 1       |
| Toluene        | ND     |           | 1.0 | 0.51 | ug/L |   |          | 03/19/25 01:56 | 1       |
| Xylenes, Total | ND     |           | 2.0 | 0.66 | ug/L |   |          | 03/19/25 01:56 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 94        |           | 77 - 120 |          | 03/19/25 01:56 | 1       |
| 4-Bromofluorobenzene (Surr)  | 107       |           | 73 - 120 |          | 03/19/25 01:56 | 1       |
| Dibromofluoromethane (Surr)  | 97        |           | 75 - 123 |          | 03/19/25 01:56 | 1       |
| Toluene-d8 (Surr)            | 89        |           | 80 - 120 |          | 03/19/25 01:56 | 1       |

## Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

| Analyte                | Result | Qualifier | RL  | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|--------|-----------|-----|------|------|---|----------------|----------------|---------|
| Acenaphthene           | ND     |           | 5.0 | 0.41 | ug/L |   | 03/17/25 13:27 | 03/18/25 16:19 | 1       |
| Acenaphthylene         | ND     |           | 5.0 | 0.38 | ug/L |   | 03/17/25 13:27 | 03/18/25 16:19 | 1       |
| Anthracene             | ND     |           | 5.0 | 0.28 | ug/L |   | 03/17/25 13:27 | 03/18/25 16:19 | 1       |
| Benzo[a]anthracene     | ND     |           | 5.0 | 0.36 | ug/L |   | 03/17/25 13:27 | 03/18/25 16:19 | 1       |
| Benzo[a]pyrene         | ND     |           | 5.0 | 0.47 | ug/L |   | 03/17/25 13:27 | 03/18/25 16:19 | 1       |
| Benzo[b]fluoranthene   | ND     |           | 5.0 | 0.34 | ug/L |   | 03/17/25 13:27 | 03/18/25 16:19 | 1       |
| Benzo[g,h,i]perylene   | ND     |           | 5.0 | 0.35 | ug/L |   | 03/17/25 13:27 | 03/18/25 16:19 | 1       |
| Benzo[k]fluoranthene   | ND     |           | 5.0 | 0.73 | ug/L |   | 03/17/25 13:27 | 03/18/25 16:19 | 1       |
| Chrysene               | ND     |           | 5.0 | 0.33 | ug/L |   | 03/17/25 13:27 | 03/18/25 16:19 | 1       |
| Dibenz(a,h)anthracene  | ND     |           | 5.0 | 0.42 | ug/L |   | 03/17/25 13:27 | 03/18/25 16:19 | 1       |
| Fluoranthene           | ND     |           | 5.0 | 0.40 | ug/L |   | 03/17/25 13:27 | 03/18/25 16:19 | 1       |
| Fluorene               | ND     |           | 5.0 | 0.36 | ug/L |   | 03/17/25 13:27 | 03/18/25 16:19 | 1       |
| Indeno[1,2,3-cd]pyrene | ND     |           | 5.0 | 0.47 | ug/L |   | 03/17/25 13:27 | 03/18/25 16:19 | 1       |
| Naphthalene            | ND     |           | 5.0 | 0.76 | ug/L |   | 03/17/25 13:27 | 03/18/25 16:19 | 1       |
| Phenanthrene           | ND     |           | 5.0 | 0.44 | ug/L |   | 03/17/25 13:27 | 03/18/25 16:19 | 1       |
| Pyrene                 | ND     |           | 5.0 | 0.34 | ug/L |   | 03/17/25 13:27 | 03/18/25 16:19 | 1       |

| Surrogate               | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2-Fluorobiphenyl (Surr) | 76        |           | 53 - 126 | 03/17/25 13:27 | 03/18/25 16:19 | 1       |
| Nitrobenzene-d5 (Surr)  | 66        |           | 29 - 129 | 03/17/25 13:27 | 03/18/25 16:19 | 1       |
| p-Terphenyl-d14 (Surr)  | 66        |           | 33 - 132 | 03/17/25 13:27 | 03/18/25 16:19 | 1       |

## Method: SW846 6010D - Metals (ICP)

| Analyte   | Result | Qualifier | RL     | MDL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|--------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Aluminum  | ND     |           | 0.20   | 0.060   | mg/L |   | 03/18/25 08:50 | 03/18/25 14:25 | 1       |
| Antimony  | ND     |           | 0.020  | 0.0068  | mg/L |   | 03/18/25 08:50 | 03/18/25 14:25 | 1       |
| Arsenic   | ND     |           | 0.015  | 0.0056  | mg/L |   | 03/18/25 08:50 | 03/18/25 14:25 | 1       |
| Barium    | 0.10   |           | 0.0020 | 0.00070 | mg/L |   | 03/18/25 08:50 | 03/18/25 14:25 | 1       |
| Beryllium | ND     | ^5-       | 0.0020 | 0.00030 | mg/L |   | 03/18/25 08:50 | 03/18/25 14:25 | 1       |
| Cadmium   | ND     |           | 0.0020 | 0.00050 | mg/L |   | 03/18/25 08:50 | 03/18/25 14:25 | 1       |
| Calcium   | 142    |           | 0.50   | 0.10    | mg/L |   | 03/18/25 08:50 | 03/18/25 14:25 | 1       |
| Chromium  | ND     |           | 0.0040 | 0.0010  | mg/L |   | 03/18/25 08:50 | 03/18/25 14:25 | 1       |
| Cobalt    | ND     | ^5+       | 0.0040 | 0.00063 | mg/L |   | 03/18/25 08:50 | 03/18/25 14:25 | 1       |
| Copper    | 0.0017 | J ^5+     | 0.010  | 0.0016  | mg/L |   | 03/18/25 08:50 | 03/18/25 14:25 | 1       |
| Iron      | 0.44   |           | 0.050  | 0.019   | mg/L |   | 03/18/25 08:50 | 03/18/25 14:25 | 1       |
| Lead      | ND     | ^5+       | 0.010  | 0.0030  | mg/L |   | 03/18/25 08:50 | 03/18/25 14:25 | 1       |
| Magnesium | 22.3   |           | 0.20   | 0.043   | mg/L |   | 03/18/25 08:50 | 03/18/25 14:25 | 1       |

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# Client Sample Results

Client: New York State Electric & Gas  
Project/Site: NYSEG - Clyde

Job ID: 480-227898-1

Client Sample ID: MW-12

Date Collected: 03/14/25 11:35

Date Received: 03/15/25 09:00

Lab Sample ID: 480-227898-1

Matrix: Ground Water

## Method: SW846 6010D - Metals (ICP) (Continued)

| Analyte   | Result | Qualifier | RL     | MDL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|--------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Manganese | 0.16   |           | 0.0030 | 0.00040 | mg/L |   | 03/18/25 08:50 | 03/18/25 14:25 | 1       |
| Nickel    | 0.0014 | J B       | 0.010  | 0.0013  | mg/L |   | 03/18/25 08:50 | 03/18/25 14:25 | 1       |
| Potassium | 4.7    |           | 0.50   | 0.10    | mg/L |   | 03/18/25 08:50 | 03/18/25 14:25 | 1       |
| Selenium  | ND     | ^5+       | 0.025  | 0.0087  | mg/L |   | 03/18/25 08:50 | 03/18/25 14:25 | 1       |
| Silver    | ND     | ^5-       | 0.0060 | 0.0017  | mg/L |   | 03/18/25 08:50 | 03/18/25 14:25 | 1       |
| Sodium    | 70.2   |           | 1.0    | 0.32    | mg/L |   | 03/18/25 08:50 | 03/18/25 14:25 | 1       |
| Thallium  | ND     | ^5+       | 0.020  | 0.010   | mg/L |   | 03/18/25 08:50 | 03/18/25 14:25 | 1       |
| Vanadium  | ND     |           | 0.0050 | 0.0015  | mg/L |   | 03/18/25 08:50 | 03/18/25 14:25 | 1       |
| Zinc      | 0.22   |           | 0.010  | 0.0015  | mg/L |   | 03/18/25 08:50 | 03/18/25 14:25 | 1       |

## General Chemistry

| Analyte                      | Result | Qualifier | RL    | MDL    | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------|-----------|-------|--------|------|---|----------|----------------|---------|
| Cyanide, Total (SW846 9012B) | 0.0091 | J B F1    | 0.010 | 0.0041 | mg/L |   |          | 03/18/25 19:34 | 1       |

Client Sample ID: TRIP BLANK

Date Collected: 03/14/25 00:00

Date Received: 03/15/25 09:00

Lab Sample ID: 480-227898-2

Matrix: WQ

## Method: SW846 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 |   |          | 03/19/25 02:20 | 1       |
| Ethylbenzene   | ND     |           | 1.0 | 0.74 | ug/L |   |          | 03/19/25 02:20 | 1       |
| Toluene        | ND     |           | 1.0 | 0.51 | ug/L |   |          | 03/19/25 02:20 | 1       |
| Xylenes, Total | ND     |           | 2.0 | 0.66 | ug/L |   |          | 03/19/25 02:20 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 103       |           | 77 - 120 |          | 03/19/25 02:20 | 1       |
| 4-Bromofluorobenzene (Surr)  | 118       |           | 73 - 120 |          | 03/19/25 02:20 | 1       |
| Dibromofluoromethane (Surr)  | 110       |           | 75 - 123 |          | 03/19/25 02:20 | 1       |
| Toluene-d8 (Surr)            | 100       |           | 80 - 120 |          | 03/19/25 02:20 | 1       |

Client Sample ID: DUP-20250314

Date Collected: 03/14/25 00:00

Date Received: 03/15/25 09:00

Lab Sample ID: 480-227898-3

Matrix: Water

## Method: SW846 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 |   |          | 03/19/25 02:43 | 1       |
| Ethylbenzene   | ND     |           | 1.0 | 0.74 | ug/L |   |          | 03/19/25 02:43 | 1       |
| Toluene        | ND     |           | 1.0 | 0.51 | ug/L |   |          | 03/19/25 02:43 | 1       |
| Xylenes, Total | ND     |           | 2.0 | 0.66 | ug/L |   |          | 03/19/25 02:43 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 101       |           | 77 - 120 |          | 03/19/25 02:43 | 1       |
| 4-Bromofluorobenzene (Surr)  | 119       |           | 73 - 120 |          | 03/19/25 02:43 | 1       |
| Dibromofluoromethane (Surr)  | 108       |           | 75 - 123 |          | 03/19/25 02:43 | 1       |
| Toluene-d8 (Surr)            | 102       |           | 80 - 120 |          | 03/19/25 02:43 | 1       |

## Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

| Analyte      | Result | Qualifier | RL  | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|--------------|--------|-----------|-----|------|------|---|----------------|----------------|---------|
| Acenaphthene | ND     |           | 5.0 | 0.41 | ug/L |   | 03/17/25 13:27 | 03/18/25 16:46 | 1       |

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# Client Sample Results

Client: New York State Electric & Gas  
Project/Site: NYSEG - Clyde

Job ID: 480-227898-1

Client Sample ID: DUP-20250314

Lab Sample ID: 480-227898-3

Date Collected: 03/14/25 00:00

Matrix: Water

Date Received: 03/15/25 09:00

## Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

| Analyte                | Result | Qualifier | RL  | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|--------|-----------|-----|------|------|---|----------------|----------------|---------|
| Acenaphthylene         | ND     |           | 5.0 | 0.38 | ug/L |   | 03/17/25 13:27 | 03/18/25 16:46 | 1       |
| Anthracene             | ND     |           | 5.0 | 0.28 | ug/L |   | 03/17/25 13:27 | 03/18/25 16:46 | 1       |
| Benzo[a]anthracene     | ND     |           | 5.0 | 0.36 | ug/L |   | 03/17/25 13:27 | 03/18/25 16:46 | 1       |
| Benzo[a]pyrene         | ND     |           | 5.0 | 0.47 | ug/L |   | 03/17/25 13:27 | 03/18/25 16:46 | 1       |
| Benzo[b]fluoranthene   | ND     |           | 5.0 | 0.34 | ug/L |   | 03/17/25 13:27 | 03/18/25 16:46 | 1       |
| Benzo[g,h,i]perylene   | ND     |           | 5.0 | 0.35 | ug/L |   | 03/17/25 13:27 | 03/18/25 16:46 | 1       |
| Benzo[k]fluoranthene   | ND     |           | 5.0 | 0.73 | ug/L |   | 03/17/25 13:27 | 03/18/25 16:46 | 1       |
| Chrysene               | ND     |           | 5.0 | 0.33 | ug/L |   | 03/17/25 13:27 | 03/18/25 16:46 | 1       |
| Dibenz(a,h)anthracene  | ND     |           | 5.0 | 0.42 | ug/L |   | 03/17/25 13:27 | 03/18/25 16:46 | 1       |
| Fluoranthene           | ND     |           | 5.0 | 0.40 | ug/L |   | 03/17/25 13:27 | 03/18/25 16:46 | 1       |
| Fluorene               | ND     |           | 5.0 | 0.36 | ug/L |   | 03/17/25 13:27 | 03/18/25 16:46 | 1       |
| Indeno[1,2,3-cd]pyrene | ND     |           | 5.0 | 0.47 | ug/L |   | 03/17/25 13:27 | 03/18/25 16:46 | 1       |
| Naphthalene            | ND     |           | 5.0 | 0.76 | ug/L |   | 03/17/25 13:27 | 03/18/25 16:46 | 1       |
| Phenanthrene           | ND     |           | 5.0 | 0.44 | ug/L |   | 03/17/25 13:27 | 03/18/25 16:46 | 1       |
| Pyrene                 | ND     |           | 5.0 | 0.34 | ug/L |   | 03/17/25 13:27 | 03/18/25 16:46 | 1       |

| Surrogate               | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2-Fluorobiphenyl (Surr) | 102       |           | 53 - 126 | 03/17/25 13:27 | 03/18/25 16:46 | 1       |
| Nitrobenzene-d5 (Surr)  | 87        |           | 29 - 129 | 03/17/25 13:27 | 03/18/25 16:46 | 1       |
| p-Terphenyl-d14 (Surr)  | 87        |           | 33 - 132 | 03/17/25 13:27 | 03/18/25 16:46 | 1       |

## Method: SW846 6010D - Metals (ICP)

| Analyte   | Result | Qualifier | RL     | MDL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|--------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Aluminum  | ND     |           | 0.20   | 0.060   | mg/L |   | 03/18/25 08:50 | 03/18/25 14:36 | 1       |
| Antimony  | ND     |           | 0.020  | 0.0068  | mg/L |   | 03/18/25 08:50 | 03/18/25 14:36 | 1       |
| Arsenic   | ND     |           | 0.015  | 0.0056  | mg/L |   | 03/18/25 08:50 | 03/18/25 14:36 | 1       |
| Barium    | 0.10   |           | 0.0020 | 0.00070 | mg/L |   | 03/18/25 08:50 | 03/18/25 14:36 | 1       |
| Beryllium | ND     | ^5-       | 0.0020 | 0.00030 | mg/L |   | 03/18/25 08:50 | 03/18/25 14:36 | 1       |
| Cadmium   | ND     |           | 0.0020 | 0.00050 | mg/L |   | 03/18/25 08:50 | 03/18/25 14:36 | 1       |
| Calcium   | 140    |           | 0.50   | 0.10    | mg/L |   | 03/18/25 08:50 | 03/18/25 14:36 | 1       |
| Chromium  | ND     |           | 0.0040 | 0.0010  | mg/L |   | 03/18/25 08:50 | 03/18/25 14:36 | 1       |
| Cobalt    | ND     | ^5+       | 0.0040 | 0.00063 | mg/L |   | 03/18/25 08:50 | 03/18/25 14:36 | 1       |
| Copper    | 0.0020 | J ^5+     | 0.010  | 0.0016  | mg/L |   | 03/18/25 08:50 | 03/18/25 14:36 | 1       |
| Iron      | 0.46   |           | 0.050  | 0.019   | mg/L |   | 03/18/25 08:50 | 03/18/25 14:36 | 1       |
| Lead      | ND     | ^5+       | 0.010  | 0.0030  | mg/L |   | 03/18/25 08:50 | 03/18/25 14:36 | 1       |
| Magnesium | 22.0   |           | 0.20   | 0.043   | mg/L |   | 03/18/25 08:50 | 03/18/25 14:36 | 1       |
| Manganese | 0.16   |           | 0.0030 | 0.00040 | mg/L |   | 03/18/25 08:50 | 03/18/25 14:36 | 1       |
| Nickel    | ND     |           | 0.010  | 0.0013  | mg/L |   | 03/18/25 08:50 | 03/18/25 14:36 | 1       |
| Potassium | 4.7    |           | 0.50   | 0.10    | mg/L |   | 03/18/25 08:50 | 03/18/25 14:36 | 1       |
| Selenium  | ND     | ^5+       | 0.025  | 0.0087  | mg/L |   | 03/18/25 08:50 | 03/18/25 14:36 | 1       |
| Silver    | ND     | ^5-       | 0.0060 | 0.0017  | mg/L |   | 03/18/25 08:50 | 03/18/25 14:36 | 1       |
| Sodium    | 70.7   |           | 1.0    | 0.32    | mg/L |   | 03/18/25 08:50 | 03/18/25 14:36 | 1       |
| Thallium  | ND     | ^5+       | 0.020  | 0.010   | mg/L |   | 03/18/25 08:50 | 03/18/25 14:36 | 1       |
| Vanadium  | ND     |           | 0.0050 | 0.0015  | mg/L |   | 03/18/25 08:50 | 03/18/25 14:36 | 1       |
| Zinc      | 0.22   |           | 0.010  | 0.0015  | mg/L |   | 03/18/25 08:50 | 03/18/25 14:36 | 1       |

## General Chemistry

| Analyte                      | Result | Qualifier | RL    | MDL    | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------|-----------|-------|--------|------|---|----------|----------------|---------|
| Cyanide, Total (SW846 9012B) | 0.0061 | J B       | 0.010 | 0.0041 | mg/L |   |          | 03/18/25 19:53 | 1       |

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# Surrogate Summary

Client: New York State Electric & Gas  
Project/Site: NYSEG - Clyde

Job ID: 480-227898-1

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

Matrix: Ground Water

Prep Type: Total/NA

| Lab Sample ID    | Client Sample ID | Percent Surrogate Recovery (Acceptance Limits) |                 |                  |                 |
|------------------|------------------|--|-----------------|------------------|-----------------|
|                  |                  | DCA<br>(77-120)                                | BFB<br>(73-120) | DBFM<br>(75-123) | TOL<br>(80-120) |
| 480-227898-1     | MW-12            | 94   | 107             | 97               | 89              |
| 480-227898-1 MS  | MW-12 MS         | 100  | 113             | 108              | 101             |
| 480-227898-1 MSD | MW-12 MSD        | 103  | 115             | 108              | 103             |

### Surrogate Legend

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

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

Matrix: Water

Prep Type: Total/NA

| Lab Sample ID    | Client Sample ID   | Percent Surrogate Recovery (Acceptance Limits) |                 |                  |                 |
|------------------|--------------------|--|-----------------|------------------|-----------------|
|                  |                    | DCA<br>(77-120)                                | BFB<br>(73-120) | DBFM<br>(75-123) | TOL<br>(80-120) |
| 480-227898-3     | DUP-20250314       | 101  | 119             | 108              | 102             |
| LCS 480-741081/6 | Lab Control Sample | 100  | 116             | 109              | 103             |
| MB 480-741081/8  | Method Blank       | 96   | 104             | 97               | 90              |

### Surrogate Legend

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

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

Matrix: WQ

Prep Type: Total/NA

| Lab Sample ID | Client Sample ID | Percent Surrogate Recovery (Acceptance Limits) |                 |                  |                 |
|---------------|------------------|--|-----------------|------------------|-----------------|
|               |                  | DCA<br>(77-120)                                | BFB<br>(73-120) | DBFM<br>(75-123) | TOL<br>(80-120) |
| 480-227898-2  | TRIP BLANK       | 103  | 118             | 110              | 100             |

### Surrogate Legend

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

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

Matrix: Ground Water

Prep Type: Total/NA

| Lab Sample ID    | Client Sample ID | Percent Surrogate Recovery (Acceptance Limits) |                 |                    |
|------------------|------------------|--|-----------------|--------------------|
|                  |                  | FBP<br>(53-126)                                | NBZ<br>(29-129) | TPHd14<br>(33-132) |
| 480-227898-1     | MW-12            | 76   | 66              | 66                 |
| 480-227898-1 MS  | MW-12 MS         | 101  | 97              | 83                 |
| 480-227898-1 MSD | MW-12 MSD        | 99   | 94              | 80                 |

### Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)  
NBZ = Nitrobenzene-d5 (Surr)

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Surrogate Summary

Client: New York State Electric & Gas  
Project/Site: NYSEG - Clyde  
TPHd14 = p-Terphenyl-d14 (Surr)

Job ID: 480-227898-1

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

Prep Type: Total/NA

|                                 |                    | Percent Surrogate Recovery (Acceptance Limits) |          |          |
|---------------------------------|--------------------|--|----------|----------|
| Lab Sample ID                   | Client Sample ID   | FBP  | NBZ      | TPHd14   |
|                                 |                    | (53-126)                                       | (29-129) | (33-132) |
| 480-227898-3                    | DUP-20250314       | 102  | 87       | 87       |
| LCS 480-740955/2-A              | Lab Control Sample | 98   | 94       | 100      |
| MB 480-740955/1-A               | Method Blank       | 84   | 76       | 94       |
| Surrogate Legend                |                    |  |          |          |
| FBP = 2-Fluorobiphenyl (Surr)   |                    |  |          |          |
| NBZ = Nitrobenzene-d5 (Surr)    |                    |  |          |          |
| TPHd14 = p-Terphenyl-d14 (Surr) |                    |  |          |          |

# QC Sample Results

Client: New York State Electric & Gas  
Project/Site: NYSEG - Clyde

Job ID: 480-227898-1

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

Lab Sample ID: MB 480-741081/8

Matrix: Water

Analysis Batch: 741081

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 |   |          | 03/19/25 01:33 | 1       |
| Ethylbenzene   | ND        |              | 1.0 | 0.74 | ug/L |   |          | 03/19/25 01:33 | 1       |
| Toluene        | ND        |              | 1.0 | 0.51 | ug/L |   |          | 03/19/25 01:33 | 1       |
| Xylenes, Total | ND        |              | 2.0 | 0.66 | ug/L |   |          | 03/19/25 01:33 | 1       |

| Surrogate                    | MB %Recovery | MB Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------------|--------------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 96           |              | 77 - 120 |          | 03/19/25 01:33 | 1       |
| 4-Bromofluorobenzene (Surr)  | 104          |              | 73 - 120 |          | 03/19/25 01:33 | 1       |
| Dibromofluoromethane (Surr)  | 97           |              | 75 - 123 |          | 03/19/25 01:33 | 1       |
| Toluene-d8 (Surr)            | 90           |              | 80 - 120 |          | 03/19/25 01:33 | 1       |

Lab Sample ID: LCS 480-741081/6

Matrix: Water

Analysis Batch: 741081

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        | 25.3       |               | ug/L |   | 101  | 71 - 124    |
| Ethylbenzene   | 25.0        | 26.1       |               | ug/L |   | 105  | 77 - 123    |
| Toluene        | 25.0        | 24.8       |               | ug/L |   | 99   | 80 - 122    |
| Xylenes, Total | 50.0        | 52.2       |               | ug/L |   | 104  | 76 - 122    |

| Surrogate                    | LCS %Recovery | LCS Qualifier | Limits   |
|------------------------------|---------------|---------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 100           |               | 77 - 120 |
| 4-Bromofluorobenzene (Surr)  | 116           |               | 73 - 120 |
| Dibromofluoromethane (Surr)  | 109           |               | 75 - 123 |
| Toluene-d8 (Surr)            | 103           |               | 80 - 120 |

Lab Sample ID: 480-227898-1 MS

Matrix: Ground Water

Analysis Batch: 741081

Client Sample ID: MW-12 MS

Prep Type: Total/NA

| Analyte        | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Benzene        | ND            |                  | 25.0        | 28.9      |              | ug/L |   | 116  | 71 - 124    |
| Ethylbenzene   | ND            |                  | 25.0        | 29.9      |              | ug/L |   | 120  | 77 - 123    |
| Toluene        | ND            |                  | 25.0        | 28.3      |              | ug/L |   | 113  | 80 - 122    |
| Xylenes, Total | ND            |                  | 50.0        | 60.3      |              | ug/L |   | 121  | 76 - 122    |

| Surrogate                    | MS %Recovery | MS Qualifier | Limits   |
|------------------------------|--------------|--------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 100          |              | 77 - 120 |
| 4-Bromofluorobenzene (Surr)  | 113          |              | 73 - 120 |
| Dibromofluoromethane (Surr)  | 108          |              | 75 - 123 |
| Toluene-d8 (Surr)            | 101          |              | 80 - 120 |

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# QC Sample Results

Client: New York State Electric & Gas  
Project/Site: NYSEG - Clyde

Job ID: 480-227898-1

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

Lab Sample ID: 480-227898-1 MSD

Matrix: Ground Water

Analysis Batch: 741081

Client Sample ID: MW-12 MSD

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        | 29.6       |               | ug/L |   | 118  | 71 - 124    | 2   | 13        |
| Ethylbenzene   | ND            |                  | 25.0        | 30.6       |               | ug/L |   | 122  | 77 - 123    | 2   | 15        |
| Toluene        | ND            |                  | 25.0        | 28.6       |               | ug/L |   | 114  | 80 - 122    | 1   | 15        |
| Xylenes, Total | ND            |                  | 50.0        | 61.0       |               | ug/L |   | 122  | 76 - 122    | 1   | 16        |

| Surrogate                    | MSD %Recovery | MSD Qualifier | Limits   |
|------------------------------|---------------|---------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 103           |               | 77 - 120 |
| 4-Bromofluorobenzene (Surr)  | 115           |               | 73 - 120 |
| Dibromofluoromethane (Surr)  | 108           |               | 75 - 123 |
| Toluene-d8 (Surr)            | 103           |               | 80 - 120 |

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

Lab Sample ID: MB 480-740955/1-A

Matrix: Water

Analysis Batch: 741010

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 740955

| Analyte                | MB Result | MB Qualifier | RL  | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|-----------|--------------|-----|------|------|---|----------------|----------------|---------|
| Acenaphthene           | ND        |              | 5.0 | 0.41 | ug/L |   | 03/17/25 13:27 | 03/18/25 14:32 | 1       |
| Acenaphthylene         | ND        |              | 5.0 | 0.38 | ug/L |   | 03/17/25 13:27 | 03/18/25 14:32 | 1       |
| Anthracene             | ND        |              | 5.0 | 0.28 | ug/L |   | 03/17/25 13:27 | 03/18/25 14:32 | 1       |
| Benzo[a]anthracene     | ND        |              | 5.0 | 0.36 | ug/L |   | 03/17/25 13:27 | 03/18/25 14:32 | 1       |
| Benzo[a]pyrene         | ND        |              | 5.0 | 0.47 | ug/L |   | 03/17/25 13:27 | 03/18/25 14:32 | 1       |
| Benzo[b]fluoranthene   | ND        |              | 5.0 | 0.34 | ug/L |   | 03/17/25 13:27 | 03/18/25 14:32 | 1       |
| Benzo[g,h,i]perylene   | ND        |              | 5.0 | 0.35 | ug/L |   | 03/17/25 13:27 | 03/18/25 14:32 | 1       |
| Benzo[k]fluoranthene   | ND        |              | 5.0 | 0.73 | ug/L |   | 03/17/25 13:27 | 03/18/25 14:32 | 1       |
| Chrysene               | ND        |              | 5.0 | 0.33 | ug/L |   | 03/17/25 13:27 | 03/18/25 14:32 | 1       |
| Dibenz(a,h)anthracene  | ND        |              | 5.0 | 0.42 | ug/L |   | 03/17/25 13:27 | 03/18/25 14:32 | 1       |
| Fluoranthene           | ND        |              | 5.0 | 0.40 | ug/L |   | 03/17/25 13:27 | 03/18/25 14:32 | 1       |
| Fluorene               | ND        |              | 5.0 | 0.36 | ug/L |   | 03/17/25 13:27 | 03/18/25 14:32 | 1       |
| Indeno[1,2,3-cd]pyrene | ND        |              | 5.0 | 0.47 | ug/L |   | 03/17/25 13:27 | 03/18/25 14:32 | 1       |
| Naphthalene            | ND        |              | 5.0 | 0.76 | ug/L |   | 03/17/25 13:27 | 03/18/25 14:32 | 1       |
| Phenanthrene           | ND        |              | 5.0 | 0.44 | ug/L |   | 03/17/25 13:27 | 03/18/25 14:32 | 1       |
| Pyrene                 | ND        |              | 5.0 | 0.34 | ug/L |   | 03/17/25 13:27 | 03/18/25 14:32 | 1       |

| Surrogate               | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 2-Fluorobiphenyl (Surr) | 84           |              | 53 - 126 | 03/17/25 13:27 | 03/18/25 14:32 | 1       |
| Nitrobenzene-d5 (Surr)  | 76           |              | 29 - 129 | 03/17/25 13:27 | 03/18/25 14:32 | 1       |
| p-Terphenyl-d14 (Surr)  | 94           |              | 33 - 132 | 03/17/25 13:27 | 03/18/25 14:32 | 1       |

Lab Sample ID: LCS 480-740955/2-A

Matrix: Water

Analysis Batch: 741010

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 740955

| Analyte        | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------------|-------------|------------|---------------|------|---|------|-------------|
| Acenaphthene   | 32.0        | 31.4       |               | ug/L |   | 98   | 60 - 120    |
| Acenaphthylene | 32.0        | 31.9       |               | ug/L |   | 100  | 63 - 120    |
| Anthracene     | 32.0        | 33.0       |               | ug/L |   | 103  | 67 - 120    |

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# QC Sample Results

Client: New York State Electric & Gas  
Project/Site: NYSEG - Clyde

Job ID: 480-227898-1

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

Lab Sample ID: LCS 480-740955/2-A

Matrix: Water

Analysis Batch: 741010

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 740955

| Analyte                | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|------------------------|-------------|------------|---------------|------|---|------|-------------|
| Benzo[a]anthracene     | 32.0        | 33.9       |               | ug/L |   | 106  | 70 - 121    |
| Benzo[a]pyrene         | 32.0        | 34.5       |               | ug/L |   | 108  | 60 - 123    |
| Benzo[b]fluoranthene   | 32.0        | 33.5       |               | ug/L |   | 105  | 66 - 126    |
| Benzo[g,h,i]perylene   | 32.0        | 33.1       |               | ug/L |   | 103  | 66 - 150    |
| Benzo[k]fluoranthene   | 32.0        | 36.5       |               | ug/L |   | 114  | 65 - 124    |
| Chrysene               | 32.0        | 32.9       |               | ug/L |   | 103  | 69 - 120    |
| Dibenz(a,h)anthracene  | 32.0        | 34.2       |               | ug/L |   | 107  | 65 - 135    |
| Fluoranthene           | 32.0        | 33.5       |               | ug/L |   | 105  | 69 - 126    |
| Fluorene               | 32.0        | 32.7       |               | ug/L |   | 102  | 66 - 120    |
| Indeno[1,2,3-cd]pyrene | 32.0        | 34.9       |               | ug/L |   | 109  | 69 - 146    |
| Naphthalene            | 32.0        | 28.4       |               | ug/L |   | 89   | 57 - 120    |
| Phenanthrene           | 32.0        | 32.7       |               | ug/L |   | 102  | 68 - 120    |
| Pyrene                 | 32.0        | 34.0       |               | ug/L |   | 106  | 70 - 125    |

| Surrogate               | LCS %Recovery | LCS Qualifier | Limits   |
|-------------------------|---------------|---------------|----------|
| 2-Fluorobiphenyl (Surr) | 98            |               | 53 - 126 |
| Nitrobenzene-d5 (Surr)  | 94            |               | 29 - 129 |
| p-Terphenyl-d14 (Surr)  | 100           |               | 33 - 132 |

Lab Sample ID: 480-227898-1 MS

Matrix: Ground Water

Analysis Batch: 741010

Client Sample ID: MW-12 MS

Prep Type: Total/NA

Prep Batch: 740955

| Analyte                | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|------------------------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Acenaphthene           | ND            |                  | 32.0        | 33.9      |              | ug/L |   | 106  | 48 - 120    |
| Acenaphthylene         | ND            |                  | 32.0        | 34.0      |              | ug/L |   | 106  | 63 - 120    |
| Anthracene             | ND            |                  | 32.0        | 35.1      |              | ug/L |   | 110  | 65 - 122    |
| Benzo[a]anthracene     | ND            |                  | 32.0        | 32.3      |              | ug/L |   | 101  | 43 - 124    |
| Benzo[a]pyrene         | ND            |                  | 32.0        | 31.1      |              | ug/L |   | 97   | 23 - 125    |
| Benzo[b]fluoranthene   | ND            |                  | 32.0        | 31.0      |              | ug/L |   | 97   | 27 - 127    |
| Benzo[g,h,i]perylene   | ND            |                  | 32.0        | 30.0      |              | ug/L |   | 94   | 16 - 147    |
| Benzo[k]fluoranthene   | ND            |                  | 32.0        | 32.2      |              | ug/L |   | 101  | 20 - 124    |
| Chrysene               | ND            |                  | 32.0        | 30.8      |              | ug/L |   | 96   | 44 - 122    |
| Dibenz(a,h)anthracene  | ND            |                  | 32.0        | 30.1      |              | ug/L |   | 94   | 16 - 139    |
| Fluoranthene           | ND            |                  | 32.0        | 34.5      |              | ug/L |   | 108  | 63 - 129    |
| Fluorene               | ND            |                  | 32.0        | 34.7      |              | ug/L |   | 109  | 62 - 120    |
| Indeno[1,2,3-cd]pyrene | ND            |                  | 32.0        | 30.9      |              | ug/L |   | 97   | 16 - 140    |
| Naphthalene            | ND            |                  | 32.0        | 30.0      |              | ug/L |   | 94   | 45 - 120    |
| Phenanthrene           | ND            |                  | 32.0        | 35.2      |              | ug/L |   | 110  | 65 - 122    |
| Pyrene                 | ND            |                  | 32.0        | 34.2      |              | ug/L |   | 107  | 58 - 128    |

| Surrogate               | MS %Recovery | MS Qualifier | Limits   |
|-------------------------|--------------|--------------|----------|
| 2-Fluorobiphenyl (Surr) | 101          |              | 53 - 126 |
| Nitrobenzene-d5 (Surr)  | 97           |              | 29 - 129 |
| p-Terphenyl-d14 (Surr)  | 83           |              | 33 - 132 |

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# QC Sample Results

Client: New York State Electric & Gas  
Project/Site: NYSEG - Clyde

Job ID: 480-227898-1

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

Lab Sample ID: 480-227898-1 MSD

Matrix: Ground Water

Analysis Batch: 741010

Client Sample ID: MW-12 MSD

Prep Type: Total/NA

Prep Batch: 740955

| Analyte                | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|------------------------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| Acenaphthene           | ND            |                  | 32.0        | 33.8       |               | ug/L |   | 106  | 48 - 120    | 0   | 24        |
| Acenaphthylene         | ND            |                  | 32.0        | 32.9       |               | ug/L |   | 103  | 63 - 120    | 3   | 18        |
| Anthracene             | ND            |                  | 32.0        | 34.4       |               | ug/L |   | 107  | 65 - 122    | 2   | 15        |
| Benzo[a]anthracene     | ND            |                  | 32.0        | 32.1       |               | ug/L |   | 100  | 43 - 124    | 1   | 15        |
| Benzo[a]pyrene         | ND            |                  | 32.0        | 32.0       |               | ug/L |   | 100  | 23 - 125    | 3   | 15        |
| Benzo[b]fluoranthene   | ND            |                  | 32.0        | 31.3       |               | ug/L |   | 98   | 27 - 127    | 1   | 15        |
| Benzo[g,h,i]perylene   | ND            |                  | 32.0        | 30.2       |               | ug/L |   | 94   | 16 - 147    | 1   | 15        |
| Benzo[k]fluoranthene   | ND            |                  | 32.0        | 33.2       |               | ug/L |   | 104  | 20 - 124    | 3   | 22        |
| Chrysene               | ND            |                  | 32.0        | 31.3       |               | ug/L |   | 98   | 44 - 122    | 2   | 15        |
| Dibenz(a,h)anthracene  | ND            |                  | 32.0        | 31.1       |               | ug/L |   | 97   | 16 - 139    | 3   | 15        |
| Fluoranthene           | ND            |                  | 32.0        | 33.9       |               | ug/L |   | 106  | 63 - 129    | 2   | 15        |
| Fluorene               | ND            |                  | 32.0        | 34.0       |               | ug/L |   | 106  | 62 - 120    | 2   | 15        |
| Indeno[1,2,3-cd]pyrene | ND            |                  | 32.0        | 31.5       |               | ug/L |   | 98   | 16 - 140    | 2   | 15        |
| Naphthalene            | ND            |                  | 32.0        | 29.3       |               | ug/L |   | 92   | 45 - 120    | 2   | 29        |
| Phenanthrene           | ND            |                  | 32.0        | 34.1       |               | ug/L |   | 107  | 65 - 122    | 3   | 15        |
| Pyrene                 | ND            |                  | 32.0        | 34.0       |               | ug/L |   | 106  | 58 - 128    | 1   | 19        |

| Surrogate               | MSD %Recovery | MSD Qualifier | Limits   |
|-------------------------|---------------|---------------|----------|
| 2-Fluorobiphenyl (Surr) | 99            |               | 53 - 126 |
| Nitrobenzene-d5 (Surr)  | 94            |               | 29 - 129 |
| p-Terphenyl-d14 (Surr)  | 80            |               | 33 - 132 |

## Method: 6010D - Metals (ICP)

Lab Sample ID: MB 480-740970/1-A

Matrix: Water

Analysis Batch: 741101

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 740970

| Analyte   | MB Result | MB Qualifier | RL     | MDL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|-----------|--------------|--------|---------|------|---|----------------|----------------|---------|
| Aluminum  | ND        |              | 0.20   | 0.060   | mg/L |   | 03/18/25 08:50 | 03/18/25 13:53 | 1       |
| Antimony  | ND        |              | 0.020  | 0.0068  | mg/L |   | 03/18/25 08:50 | 03/18/25 13:53 | 1       |
| Arsenic   | ND        |              | 0.015  | 0.0056  | mg/L |   | 03/18/25 08:50 | 03/18/25 13:53 | 1       |
| Barium    | ND        |              | 0.0020 | 0.00070 | mg/L |   | 03/18/25 08:50 | 03/18/25 13:53 | 1       |
| Beryllium | ND        | ^5-          | 0.0020 | 0.00030 | mg/L |   | 03/18/25 08:50 | 03/18/25 13:53 | 1       |
| Cadmium   | ND        |              | 0.0020 | 0.00050 | mg/L |   | 03/18/25 08:50 | 03/18/25 13:53 | 1       |
| Calcium   | ND        |              | 0.50   | 0.10    | mg/L |   | 03/18/25 08:50 | 03/18/25 13:53 | 1       |
| Chromium  | ND        |              | 0.0040 | 0.0010  | mg/L |   | 03/18/25 08:50 | 03/18/25 13:53 | 1       |
| Cobalt    | ND        | ^5+          | 0.0040 | 0.00063 | mg/L |   | 03/18/25 08:50 | 03/18/25 13:53 | 1       |
| Copper    | ND        | ^5+          | 0.010  | 0.0016  | mg/L |   | 03/18/25 08:50 | 03/18/25 13:53 | 1       |
| Iron      | ND        |              | 0.050  | 0.019   | mg/L |   | 03/18/25 08:50 | 03/18/25 13:53 | 1       |
| Lead      | ND        | ^5+          | 0.010  | 0.0030  | mg/L |   | 03/18/25 08:50 | 03/18/25 13:53 | 1       |
| Magnesium | ND        |              | 0.20   | 0.043   | mg/L |   | 03/18/25 08:50 | 03/18/25 13:53 | 1       |
| Manganese | ND        |              | 0.0030 | 0.00040 | mg/L |   | 03/18/25 08:50 | 03/18/25 13:53 | 1       |
| Nickel    | 0.00328   | J            | 0.010  | 0.0013  | mg/L |   | 03/18/25 08:50 | 03/18/25 13:53 | 1       |
| Potassium | ND        |              | 0.50   | 0.10    | mg/L |   | 03/18/25 08:50 | 03/18/25 13:53 | 1       |
| Selenium  | ND        | ^5+          | 0.025  | 0.0087  | mg/L |   | 03/18/25 08:50 | 03/18/25 13:53 | 1       |
| Silver    | ND        | ^5-          | 0.0060 | 0.0017  | mg/L |   | 03/18/25 08:50 | 03/18/25 13:53 | 1       |
| Sodium    | ND        |              | 1.0    | 0.32    | mg/L |   | 03/18/25 08:50 | 03/18/25 13:53 | 1       |

Eurofins Buffalo

# QC Sample Results

Client: New York State Electric & Gas  
Project/Site: NYSEG - Clyde

Job ID: 480-227898-1

## Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: MB 480-740970/1-A

Matrix: Water

Analysis Batch: 741101

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 740970

| Analyte  | MB Result | MB Qualifier | RL     | MDL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------|-----------|--------------|--------|--------|------|---|----------------|----------------|---------|
| Thallium | ND        | ^5+          | 0.020  | 0.010  | mg/L |   | 03/18/25 08:50 | 03/18/25 13:53 | 1       |
| Vanadium | ND        |              | 0.0050 | 0.0015 | mg/L |   | 03/18/25 08:50 | 03/18/25 13:53 | 1       |
| Zinc     | ND        |              | 0.010  | 0.0015 | mg/L |   | 03/18/25 08:50 | 03/18/25 13:53 | 1       |

Lab Sample ID: LCS 480-740970/2-A

Matrix: Water

Analysis Batch: 741101

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 740970

| Analyte   | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|-----------|-------------|------------|---------------|------|---|------|-------------|
| Aluminum  | 5.11        | 4.81       |               | mg/L |   | 94   | 80 - 120    |
| Antimony  | 0.500       | 0.476      |               | mg/L |   | 95   | 80 - 120    |
| Arsenic   | 1.00        | 0.953      |               | mg/L |   | 95   | 80 - 120    |
| Barium    | 1.00        | 0.950      |               | mg/L |   | 95   | 80 - 120    |
| Beryllium | 0.496       | 0.504      | ^5-           | mg/L |   | 102  | 80 - 120    |
| Cadmium   | 0.500       | 0.500      |               | mg/L |   | 100  | 80 - 120    |
| Calcium   | 25.0        | 24.59      |               | mg/L |   | 98   | 80 - 120    |
| Chromium  | 0.500       | 0.479      |               | mg/L |   | 96   | 80 - 120    |
| Cobalt    | 0.500       | 0.496      | ^5+           | mg/L |   | 99   | 80 - 120    |
| Copper    | 0.500       | 0.467      | ^5+           | mg/L |   | 93   | 80 - 120    |
| Iron      | 5.12        | 5.05       |               | mg/L |   | 99   | 80 - 120    |
| Lead      | 0.500       | 0.476      | ^5+           | mg/L |   | 95   | 80 - 120    |
| Magnesium | 25.0        | 23.81      |               | mg/L |   | 95   | 80 - 120    |
| Manganese | 0.500       | 0.478      |               | mg/L |   | 96   | 80 - 120    |
| Nickel    | 0.500       | 0.478      |               | mg/L |   | 96   | 80 - 120    |
| Potassium | 25.0        | 24.59      |               | mg/L |   | 98   | 80 - 120    |
| Selenium  | 1.00        | 0.962      | ^5+           | mg/L |   | 96   | 80 - 120    |
| Silver    | 0.0500      | 0.0482     | ^5-           | mg/L |   | 96   | 80 - 120    |
| Sodium    | 25.0        | 23.95      |               | mg/L |   | 96   | 80 - 120    |
| Thallium  | 1.00        | 0.991      | ^5+           | mg/L |   | 99   | 80 - 120    |
| Vanadium  | 0.500       | 0.476      |               | mg/L |   | 95   | 80 - 120    |
| Zinc      | 0.500       | 0.526      |               | mg/L |   | 105  | 80 - 120    |

Lab Sample ID: 480-227898-1 MS

Matrix: Ground Water

Analysis Batch: 741101

Client Sample ID: MW-12 MS

Prep Type: Total/NA

Prep Batch: 740970

| Analyte   | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|-----------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Aluminum  | ND            |                  | 5.11        | 5.09      |              | mg/L |   | 100  | 75 - 125    |
| Antimony  | ND            |                  | 0.500       | 0.501     |              | mg/L |   | 100  | 75 - 125    |
| Arsenic   | ND            |                  | 1.00        | 1.01      |              | mg/L |   | 101  | 75 - 125    |
| Barium    | 0.10          |                  | 1.00        | 1.10      |              | mg/L |   | 100  | 75 - 125    |
| Beryllium | ND            | ^5-              | 0.496       | 0.524     | ^5-          | mg/L |   | 106  | 75 - 125    |
| Cadmium   | ND            |                  | 0.500       | 0.531     |              | mg/L |   | 106  | 75 - 125    |
| Calcium   | 142           |                  | 25.0        | 165.7     | 4            | mg/L |   | 94   | 75 - 125    |
| Chromium  | ND            |                  | 0.500       | 0.496     |              | mg/L |   | 99   | 75 - 125    |
| Cobalt    | ND            | ^5+              | 0.500       | 0.513     | ^5+          | mg/L |   | 103  | 75 - 125    |
| Copper    | 0.0017        | J ^5+            | 0.500       | 0.517     | ^5+          | mg/L |   | 103  | 75 - 125    |
| Iron      | 0.44          |                  | 5.12        | 5.68      |              | mg/L |   | 102  | 75 - 125    |
| Lead      | ND            | ^5+              | 0.500       | 0.501     | ^5+          | mg/L |   | 100  | 75 - 125    |

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# QC Sample Results

Client: New York State Electric & Gas  
Project/Site: NYSEG - Clyde

Job ID: 480-227898-1

## Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 480-227898-1 MS

Matrix: Ground Water

Analysis Batch: 741101

Client Sample ID: MW-12 MS

Prep Type: Total/NA

Prep Batch: 740970

| Analyte   | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|-----------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Magnesium | 22.3          |                  | 25.0        | 46.57     |              | mg/L |   | 97   | 75 - 125    |
| Manganese | 0.16          |                  | 0.500       | 0.648     |              | mg/L |   | 98   | 75 - 125    |
| Nickel    | 0.0014        | J B              | 0.500       | 0.489     |              | mg/L |   | 97   | 75 - 125    |
| Potassium | 4.7           |                  | 25.0        | 30.14     |              | mg/L |   | 102  | 75 - 125    |
| Selenium  | ND            | ^5+              | 1.00        | 1.04      | ^5+          | mg/L |   | 104  | 75 - 125    |
| Silver    | ND            | ^5-              | 0.0500      | 0.0522    | ^5-          | mg/L |   | 104  | 75 - 125    |
| Sodium    | 70.2          |                  | 25.0        | 96.41     |              | mg/L |   | 105  | 75 - 125    |
| Thallium  | ND            | ^5+              | 1.00        | 1.07      | ^5+          | mg/L |   | 107  | 75 - 125    |
| Vanadium  | ND            |                  | 0.500       | 0.496     |              | mg/L |   | 99   | 75 - 125    |
| Zinc      | 0.22          |                  | 0.500       | 0.759     |              | mg/L |   | 108  | 75 - 125    |

Lab Sample ID: 480-227898-1 MSD

Matrix: Ground Water

Analysis Batch: 741101

Client Sample ID: MW-12 MSD

Prep Type: Total/NA

Prep Batch: 740970

| Analyte   | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|-----------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| Aluminum  | ND            |                  | 5.11        | 4.99       |               | mg/L |   | 98   | 75 - 125    | 2   | 20        |
| Antimony  | ND            |                  | 0.500       | 0.497      |               | mg/L |   | 99   | 75 - 125    | 1   | 20        |
| Arsenic   | ND            |                  | 1.00        | 0.990      |               | mg/L |   | 99   | 75 - 125    | 2   | 20        |
| Barium    | 0.10          |                  | 1.00        | 1.09       |               | mg/L |   | 99   | 75 - 125    | 1   | 20        |
| Beryllium | ND            | ^5-              | 0.496       | 0.514      | ^5-           | mg/L |   | 104  | 75 - 125    | 2   | 20        |
| Cadmium   | ND            |                  | 0.500       | 0.516      |               | mg/L |   | 103  | 75 - 125    | 3   | 20        |
| Calcium   | 142           |                  | 25.0        | 162.8      | 4             | mg/L |   | 82   | 75 - 125    | 2   | 20        |
| Chromium  | ND            |                  | 0.500       | 0.486      |               | mg/L |   | 97   | 75 - 125    | 2   | 20        |
| Cobalt    | ND            | ^5+              | 0.500       | 0.504      | ^5+           | mg/L |   | 101  | 75 - 125    | 2   | 20        |
| Copper    | 0.0017        | J ^5+            | 0.500       | 0.505      | ^5+           | mg/L |   | 101  | 75 - 125    | 2   | 20        |
| Iron      | 0.44          |                  | 5.12        | 5.56       |               | mg/L |   | 100  | 75 - 125    | 2   | 20        |
| Lead      | ND            | ^5+              | 0.500       | 0.496      | ^5+           | mg/L |   | 99   | 75 - 125    | 1   | 20        |
| Magnesium | 22.3          |                  | 25.0        | 45.61      |               | mg/L |   | 93   | 75 - 125    | 2   | 20        |
| Manganese | 0.16          |                  | 0.500       | 0.636      |               | mg/L |   | 96   | 75 - 125    | 2   | 20        |
| Nickel    | 0.0014        | J B              | 0.500       | 0.481      |               | mg/L |   | 96   | 75 - 125    | 2   | 20        |
| Potassium | 4.7           |                  | 25.0        | 29.53      |               | mg/L |   | 99   | 75 - 125    | 2   | 20        |
| Selenium  | ND            | ^5+              | 1.00        | 1.01       | ^5+           | mg/L |   | 101  | 75 - 125    | 2   | 20        |
| Silver    | ND            | ^5-              | 0.0500      | 0.0505     | ^5-           | mg/L |   | 101  | 75 - 125    | 3   | 20        |
| Sodium    | 70.2          |                  | 25.0        | 94.71      |               | mg/L |   | 98   | 75 - 125    | 2   | 20        |
| Thallium  | ND            | ^5+              | 1.00        | 1.05       | ^5+           | mg/L |   | 105  | 75 - 125    | 2   | 20        |
| Vanadium  | ND            |                  | 0.500       | 0.487      |               | mg/L |   | 97   | 75 - 125    | 2   | 20        |
| Zinc      | 0.22          |                  | 0.500       | 0.712      |               | mg/L |   | 99   | 75 - 125    | 6   | 20        |

## Method: 9012B - Cyanide, Total and/or Amenable

Lab Sample ID: MB 480-741113/21

Matrix: Water

Analysis Batch: 741113

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte        | MB Result | MB Qualifier | RL    | MDL    | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------|-----------|--------------|-------|--------|------|---|----------|----------------|---------|
| Cyanide, Total | 0.00560   | J            | 0.010 | 0.0041 | mg/L |   |          | 03/18/25 18:53 | 1       |

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# QC Sample Results

Client: New York State Electric & Gas  
Project/Site: NYSEG - Clyde

Job ID: 480-227898-1

## Method: 9012B - Cyanide, Total and/or Amenable (Continued)

Lab Sample ID: HLCS 480-741113/22

Matrix: Water

Analysis Batch: 741113

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte        | Spike Added | HLCS Result | HLCS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------------|-------------|-------------|----------------|------|---|------|-------------|
| Cyanide, Total | 0.400       | 0.400       |                | mg/L |   | 100  | 90 - 110    |

Lab Sample ID: LCS 480-741113/23

Matrix: Water

Analysis Batch: 741113

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte        | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------------|-------------|------------|---------------|------|---|------|-------------|
| Cyanide, Total | 0.250       | 0.241      |               | mg/L |   | 96   | 90 - 110    |

Lab Sample ID: 480-227898-1 MS

Matrix: Ground Water

Analysis Batch: 741113

Client Sample ID: MW-12 MS

Prep Type: Total/NA

| Analyte        | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Cyanide, Total | 0.0091        | J B F1           | 0.100       | 0.0984    | F1           | mg/L |   | 89   | 90 - 110    |

Lab Sample ID: 480-227898-1 MSD

Matrix: Ground Water

Analysis Batch: 741113

Client Sample ID: MW-12 MSD

Prep Type: Total/NA

| Analyte        | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| Cyanide, Total | 0.0091        | J B F1           | 0.100       | 0.0992     |               | mg/L |   | 90   | 90 - 110    | 1   | 15        |

# QC Association Summary

Client: New York State Electric & Gas  
Project/Site: NYSEG - Clyde

Job ID: 480-227898-1

## GC/MS VOA

### Analysis Batch: 741081

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix       | Method | Prep Batch |
|------------------|--------------------|-----------|--------------|--------|------------|
| 480-227898-1     | MW-12              | Total/NA  | Ground Water | 8260C  |            |
| 480-227898-2     | TRIP BLANK         | Total/NA  | WQ           | 8260C  |            |
| 480-227898-3     | DUP-20250314       | Total/NA  | Water        | 8260C  |            |
| MB 480-741081/8  | Method Blank       | Total/NA  | Water        | 8260C  |            |
| LCS 480-741081/6 | Lab Control Sample | Total/NA  | Water        | 8260C  |            |
| 480-227898-1 MS  | MW-12 MS           | Total/NA  | Ground Water | 8260C  |            |
| 480-227898-1 MSD | MW-12 MSD          | Total/NA  | Ground Water | 8260C  |            |

## GC/MS Semi VOA

### Prep Batch: 740955

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix       | Method | Prep Batch |
|--------------------|--------------------|-----------|--------------|--------|------------|
| 480-227898-1       | MW-12              | Total/NA  | Ground Water | 3510C  |            |
| 480-227898-3       | DUP-20250314       | Total/NA  | Water        | 3510C  |            |
| MB 480-740955/1-A  | Method Blank       | Total/NA  | Water        | 3510C  |            |
| LCS 480-740955/2-A | Lab Control Sample | Total/NA  | Water        | 3510C  |            |
| 480-227898-1 MS    | MW-12 MS           | Total/NA  | Ground Water | 3510C  |            |
| 480-227898-1 MSD   | MW-12 MSD          | Total/NA  | Ground Water | 3510C  |            |

### Analysis Batch: 741010

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix       | Method | Prep Batch |
|--------------------|--------------------|-----------|--------------|--------|------------|
| 480-227898-1       | MW-12              | Total/NA  | Ground Water | 8270D  | 740955     |
| 480-227898-3       | DUP-20250314       | Total/NA  | Water        | 8270D  | 740955     |
| MB 480-740955/1-A  | Method Blank       | Total/NA  | Water        | 8270D  | 740955     |
| LCS 480-740955/2-A | Lab Control Sample | Total/NA  | Water        | 8270D  | 740955     |
| 480-227898-1 MS    | MW-12 MS           | Total/NA  | Ground Water | 8270D  | 740955     |
| 480-227898-1 MSD   | MW-12 MSD          | Total/NA  | Ground Water | 8270D  | 740955     |

## Metals

### Prep Batch: 740970

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix       | Method | Prep Batch |
|--------------------|--------------------|-----------|--------------|--------|------------|
| 480-227898-1       | MW-12              | Total/NA  | Ground Water | 3005A  |            |
| 480-227898-3       | DUP-20250314       | Total/NA  | Water        | 3005A  |            |
| MB 480-740970/1-A  | Method Blank       | Total/NA  | Water        | 3005A  |            |
| LCS 480-740970/2-A | Lab Control Sample | Total/NA  | Water        | 3005A  |            |
| 480-227898-1 MS    | MW-12 MS           | Total/NA  | Ground Water | 3005A  |            |
| 480-227898-1 MSD   | MW-12 MSD          | Total/NA  | Ground Water | 3005A  |            |

### Analysis Batch: 741101

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix       | Method | Prep Batch |
|--------------------|--------------------|-----------|--------------|--------|------------|
| 480-227898-1       | MW-12              | Total/NA  | Ground Water | 6010D  | 740970     |
| 480-227898-3       | DUP-20250314       | Total/NA  | Water        | 6010D  | 740970     |
| MB 480-740970/1-A  | Method Blank       | Total/NA  | Water        | 6010D  | 740970     |
| LCS 480-740970/2-A | Lab Control Sample | Total/NA  | Water        | 6010D  | 740970     |
| 480-227898-1 MS    | MW-12 MS           | Total/NA  | Ground Water | 6010D  | 740970     |
| 480-227898-1 MSD   | MW-12 MSD          | Total/NA  | Ground Water | 6010D  | 740970     |

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## QC Association Summary

Client: New York State Electric & Gas  
Project/Site: NYSEG - Clyde

Job ID: 480-227898-1

### General Chemistry

#### Analysis Batch: 741113

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix       | Method | Prep Batch |
|--------------------|--------------------|-----------|--------------|--------|------------|
| 480-227898-1       | MW-12              | Total/NA  | Ground Water | 9012B  |            |
| 480-227898-3       | DUP-20250314       | Total/NA  | Water        | 9012B  |            |
| MB 480-741113/21   | Method Blank       | Total/NA  | Water        | 9012B  |            |
| HLCS 480-741113/22 | Lab Control Sample | Total/NA  | Water        | 9012B  |            |
| LCS 480-741113/23  | Lab Control Sample | Total/NA  | Water        | 9012B  |            |
| 480-227898-1 MS    | MW-12 MS           | Total/NA  | Ground Water | 9012B  |            |
| 480-227898-1 MSD   | MW-12 MSD          | Total/NA  | Ground Water | 9012B  |            |

# Lab Chronicle

Client: New York State Electric & Gas  
Project/Site: NYSEG - Clyde

Job ID: 480-227898-1

**Client Sample ID: MW-12**

**Date Collected: 03/14/25 11:35**

**Date Received: 03/15/25 09:00**

**Lab Sample ID: 480-227898-1**

**Matrix: Ground Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Analysis   | 8260C        |     | 1               | 741081       | ERS     | EET BUF | 03/19/25 01:56       |
| Total/NA  | Prep       | 3510C        |     |                 | 740955       | LSC     | EET BUF | 03/17/25 13:27       |
| Total/NA  | Analysis   | 8270D        |     | 1               | 741010       | JMM     | EET BUF | 03/18/25 16:19       |
| Total/NA  | Prep       | 3005A        |     |                 | 740970       | EMO     | EET BUF | 03/18/25 08:50       |
| Total/NA  | Analysis   | 6010D        |     | 1               | 741101       | BMB     | EET BUF | 03/18/25 14:25       |
| Total/NA  | Analysis   | 9012B        |     | 1               | 741113       | GW      | EET BUF | 03/18/25 19:34       |

**Client Sample ID: TRIP BLANK**

**Date Collected: 03/14/25 00:00**

**Date Received: 03/15/25 09:00**

**Lab Sample ID: 480-227898-2**

**Matrix: WQ**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Analysis   | 8260C        |     | 1               | 741081       | ERS     | EET BUF | 03/19/25 02:20       |

**Client Sample ID: DUP-20250314**

**Date Collected: 03/14/25 00:00**

**Date Received: 03/15/25 09:00**

**Lab Sample ID: 480-227898-3**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Analysis   | 8260C        |     | 1               | 741081       | ERS     | EET BUF | 03/19/25 02:43       |
| Total/NA  | Prep       | 3510C        |     |                 | 740955       | LSC     | EET BUF | 03/17/25 13:27       |
| Total/NA  | Analysis   | 8270D        |     | 1               | 741010       | JMM     | EET BUF | 03/18/25 16:46       |
| Total/NA  | Prep       | 3005A        |     |                 | 740970       | EMO     | EET BUF | 03/18/25 08:50       |
| Total/NA  | Analysis   | 6010D        |     | 1               | 741101       | BMB     | EET BUF | 03/18/25 14:36       |
| Total/NA  | Analysis   | 9012B        |     | 1               | 741113       | GW      | EET BUF | 03/18/25 19:53       |

## Laboratory References:

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



Accreditation/Certification Summary

Client: New York State Electric & Gas  
Project/Site: NYSEG - Clyde

Job ID: 480-227898-1

Laboratory: Eurofins Buffalo

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

| Authority | Program | Identification Number | Expiration Date |
|-----------|---------|-----------------------|-----------------|
| New York  | NELAP   | 10026                 | 03-31-25        |

- 1
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## Method Summary

Client: New York State Electric & Gas  
Project/Site: NYSEG - Clyde

Job ID: 480-227898-1

| Method | Method Description                           | Protocol | Laboratory |
|--------|--|----------|------------|
| 8260C  | Volatile Organic Compounds by GC/MS          | SW846    | EET BUF    |
| 8270D  | Semivolatile Organic Compounds (GC/MS)       | SW846    | EET BUF    |
| 6010D  | Metals (ICP)                                 | SW846    | EET BUF    |
| 9012B  | Cyanide, Total and/or Amenable               | SW846    | EET BUF    |
| 3005A  | Preparation, Total Metals                    | SW846    | EET BUF    |
| 3510C  | Liquid-Liquid Extraction (Separatory Funnel) | SW846    | EET BUF    |
| 5030C  | Purge and Trap                               | SW846    | EET BUF    |

### Protocol References:

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

### Laboratory References:

EET 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 - Clyde

Job ID: 480-227898-1

| Lab Sample ID | Client Sample ID | Matrix       | Collected      | Received       |
|---------------|------------------|--------------|----------------|----------------|
| 480-227898-1  | MW-12            | Ground Water | 03/14/25 11:35 | 03/15/25 09:00 |
| 480-227898-2  | TRIP BLANK       | WQ           | 03/14/25 00:00 | 03/15/25 09:00 |
| 480-227898-3  | DUP-20250314     | Water        | 03/14/25 00:00 | 03/15/25 09:00 |

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

## Chain of Custody Record

[illegible]

## Login Sample Receipt Checklist

Client: New York State Electric & Gas

Job Number: 480-227898-1

**Login Number: 227898**

**List Number: 1**

**Creator: Stopa, Erik S**

**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   |         |
| 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   | ARCADIS |
| Samples received within 48 hours of sampling.                                    | True   |         |
| Samples requiring field filtration have been filtered in the field.              | N/A    |         |
| Chlorine Residual checked.   | N/A    |         |

# Attachment 3

## Data Usability Summary Reports

NYSEG – Clyde  
Groundwater

# Data Usability Summary Report

**Clyde, New York**

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

SDG # 480-227535-1

Analyses Performed By:  
Eurofins Buffalo  
Amherst, New York

Report # 58267R  
Review Level: Tier III  
Project: 30270811.2



## Summary

This Data Usability Summary Report (DUSR) summarizes the review of Sample Delivery Group (SDG) # 480-227535-1 for samples collected in association with the NYSEG Clyde, New York 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 | Metals | CYANIDE |
| MW-4         | 480-227535-1 | Water  | 02/25/2025             |               | X        | X    | X      | X       |
| Dup-20250225 | 480-227535-2 | Water  | 02/25/2025             | MW-4          | X        | X    | X      | X       |

**Notes:**

VOC = Volatile Organic Compounds

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

## 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 Compounds (VOCs) Analyses

### 1. Holding Times/Preservation

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) | Cool to <6 °C; preserved to a pH of less than 2 s.u. with hydrochloric acid. |

**Note:**

s.u. = standard units

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 (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).

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

## **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 MW-4. The MS/MSD analysis exhibited recoveries and RPDs 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.

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

## Data Usability Summary Report

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 | Compounds     | Sample Result (ug/L) | Duplicate Result (ug/L) | RPD |
|------------------------|---------------|----------------------|-------------------------|-----|
| MW-4 / Dup-20250225    | All compounds | U                    | U                       | AC  |

**Note:**

U Non detected

AC Acceptable

The calculated RPDs 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 |              |  |
| <b>GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)</b>         |          |     |                        |     |              |  |
| <b>Tier II Validation</b>                                   |          |     |                        |     |              |  |
| Holding times/Preservation                                  |          | X   |                        | X   |              |  |
| Reporting limits (units)                                    |          | X   |                        | X   |              |  |
| Blanks  |          |     |                        |     |              |  |
| A. Method blanks  |          | X   |                        | X   |              |  |
| B. Equipment blanks/Field 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            |  |
| <b>Tier III Validation</b>                                  |          |     |                        |     |              |  |
| 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   |              |  |
| 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   |              |  |



## Data Usability Summary Report

| VOCs: SW-846 8260C                                       | Reported |     | Performance Acceptable |     | Not Required |
|--|----------|-----|------------------------|-----|--------------|
|  | No       | Yes | No                     | Yes |              |
| GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)             |          |     |                        |     |              |
| 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 Compounds (SVOCs) Analyses

### 1. Holding Times/Preservation

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.

Caprolactam was detected in the associated equipment blank; however, the associated sample results were non detected. No other qualification of the sample results was required.

### 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).

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

## 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 continuing calibrations were within the specified control limits.

### 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. SVOC analysis requires that two of the three SVOC surrogate compounds within each fraction exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

## 5. 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.

## 6. 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 MW-4. The MS/MSD analysis exhibited recoveries and RPDs within the control limits.

## 7. 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.

The LCS analysis exhibited recoveries within the control limits.

## 8. 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 and 50% for soil 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.

## Data Usability Summary Report

Results for duplicate samples are summarized in the following table.

| Sample ID/Duplicate ID | Compounds    | Sample Result (ug/L) | Duplicate Result (ug/Kg) | RPD |
|------------------------|--------------|----------------------|--------------------------|-----|
| MW-4/ Dup-20250225     | Acenaphthene | 0.54 J               | 0.51 J                   | AC  |
|                        | Fluoranthene | 0.90 J               | 0.87 J                   | AC  |
|                        | Fluorene     | 0.40 J               | 0.38 J                   | AC  |
|                        | Pyrene       | 1.3 J                | 1.3 J                    | AC  |

**Note:**

AC      Acceptable

The calculated RPDs between the parent sample and field duplicate were acceptable.

## 9. 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.

## 10. 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 |              |  |
| <b>GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)</b>         |          |     |                        |     |              |  |
| <b>Tier II Validation</b>                                   |          |     |                        |     |              |  |
| Holding times/Preservation                                  |          | X   |                        | X   |              |  |
| Reporting limits (units)                                    |          | X   |                        | X   |              |  |
| Blanks  |          |     |                        |     |              |  |
| A. Method blanks  |          | X   |                        | X   |              |  |
| B. Equipment blanks/Field 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            |  |
| <b>Tier III Validation</b>                                  |          |     |                        |     |              |  |
| 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   |              |  |
| 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   |              |  |

## Data Usability Summary Report

| SVOCs: SW-846 8270D                                      | Reported |     | Performance Acceptable |     | Not Required |
|--|----------|-----|------------------------|-----|--------------|
|  | No       | Yes | No                     | Yes |              |
| GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)             |          |     |                        |     |              |
| 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 Methods 6010D and 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 compound was quantitated above the calibration range.
  - 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.



## Metals Analyses

### 1. Holding Times/Preservation

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

| Method       | Matrix | Holding Time                         | Preservation   |
|--------------|--------|--------------------------------------|----------------|
| SW-846 6010D | Water  | 180 days from collection to analysis | Cool to <6 °C. |

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 detected in the associated method blank; however, the associated sample results were non-detect. No other qualification of the sample results was required.

### 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.

#### 3.2 RL Check Standard

The RL check standard serves to verify the linearity of calibration of the analysis at the reporting limit. The RL standard is not required for the analysis of aluminum (Al), barium (Ba), calcium (Ca), iron (Fe), magnesium (Mg), sodium (Na), and potassium (K). The criteria used to evaluate the RL standard analysis are presented below in the RL standards evaluation table (if applicable).

All RL standard recoveries were within control limits.

### 3.3 ICP Interference Control Sample (ICS)

The ICS verifies the laboratories interelement and background correction factors.

All ICS exhibited recoveries within the control limits.

## 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/MSD 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/MSD 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 MW-4. The MS/MSD analysis exhibited recoveries and RPDs 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 matrix 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 matrix.

The laboratory duplicate analysis was not performed on any of the sample from this SDG.

## 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 and 50% for soil matrix 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 or three times the RL is applied for soil matrix.

Results for duplicate samples are summarized in the following table.

| Sample ID/Duplicate ID | Analytes  | Sample Result (mg/L) | Duplicate Result (mg/L) | RPD  |
|------------------------|-----------|----------------------|-------------------------|------|
| MW-4 / Dup-20250225    | Barium    | 0.24                 | 0.24                    | AC   |
|                        | Calcium   | 197                  | 189                     | 4.1% |
|                        | Iron      | 25.3                 | 25.5                    | 0.8% |
|                        | Lead      | 0.0033 J             | 0.0037 J                | AC   |
|                        | Magnesium | 30.9                 | 31.2                    | 1.0% |

## Data Usability Summary Report

| Sample ID/Duplicate ID | Analytes  | Sample Result (mg/L) | Duplicate Result (mg/L) | RPD  |
|------------------------|-----------|----------------------|-------------------------|------|
|                        | Manganese | 1.0                  | 1.0                     | 0.0% |
|                        | Potassium | 6.9                  | 6.9                     | 0.0% |
|                        | Sodium    | 36.8                 | 36.7                    | 0.3% |
|                        | Zinc      | 0.15                 | 0.097                   | AC   |

Note:

AC      Acceptable

The calculated RPDs 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. Serial Dilution

The serial dilution analysis is used to assess if a significant physical or chemical interference exists due to sample matrix. Analytes exhibiting concentrations greater than 50 times the MDL in the undiluted sample are evaluated to determine if matrix interference exists. These analytes are required to have less than a 10% difference (%D) between sample results from the undiluted (parent) sample and results associated with the same sample analyzed with a five-fold dilution.

The serial dilution analysis was not performed on the samples from this SDG.

## 8. System Performance and Overall Assessment

The laboratory noted: Method 6010D: The linear range check (LRC) standard recovery associated with 480-739825 is outside the acceptance criteria for the following analytes: total Silver, Beryllium, Chromium, Copper, Iron, Magnesium, Manganese, Sodium, Vanadium, and Zinc. The concentration of these analyte(s) in the sample(s) are below the highest standard of the calibration curve; therefore, the data have been reported. No qualification was required.

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 Metals

| METALS: SW-846 6010D  | Reported                                  |     | Performance Acceptable |     | Not Required |  |
|---|---|-----|------------------------|-----|--------------|--|
|   | No  | Yes | No                     | Yes |              |  |
| <b>Inductively Coupled Plasma-Optical Emission Spectrometry (ICP-OES)</b> |   |     |                        |     |              |  |
| <b>Tier II Validation</b>   |   |     |                        |     |              |  |
| Holding Times/Preservation  |   | 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   |              |  |
| 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   |              |  |
| ICP Serial Dilution %D  | X   |     |                        |     | X            |  |
| Reporting Limit Verification  |   | X   |                        | X   |              |  |
| <b>Tier III Validation</b>  |   |     |                        |     |              |  |
| Initial Calibration Verification  |   | X   |                        | X   |              |  |
| Continuing Calibration Verification                                       |   | X   |                        | X   |              |  |
| CRDL Standard Recovery  |   | X   |                        | X   |              |  |
| ICP Interference Check  |   | X   |                        | X   |              |  |
| ICP-MS Internal Standards   | X   |     |                        |     | X            |  |
| Transcription/calculations acceptable                                     | Not required for Tier II plus calibration |     |                        |     |              |  |
| Raw Data  | X   |     |                        |     | X            |  |
| Reporting limits adjusted to reflect sample dilutions                     |   | X   |                        | X   |              |  |

Notes:

%R Percent recovery

RPD Relative percent difference

%D Percent difference

## 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.

Total Cyanide was detected in the associated method blank; however, the associated sample results were non-detect. No other qualification of the sample results was required.

### 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 MW-4. The MS/MSD analysis exhibited recoveries and RPDs 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.

The laboratory duplicate analysis was not performed on samples from this SDG.

## 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 (mg/L) | Duplicate Result (mg/L) | RPD |
|------------------------|-----------------|----------------------|-------------------------|-----|
| MW-4 / Dup-20250225    | Cyanide (total) | U                    | U                       | AC  |

**Note:**

AC Acceptable

The calculated RPDs 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                         |          |     |                        |     |              |
| <b>Tier II Validation</b>                             |          |     |                        |     |              |
| 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   |              |
| 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   |              |
| <b>Tier III Validation</b>                            |          |     |                        |     |              |
| 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 | Compliance <sup>1</sup> |      |        |         | Noncompliance |
|-----------------------------|---------------|----------|--------------|--------|-------------------------|------|--------|---------|---------------|
|                             |               |          |              |        | VOC                     | SVOC | METALS | CYANIDE |               |
| 480-227535-1                | 02/25/2025    | SW846    | MW-4         | Water  | Yes                     | Yes  | Yes    | Yes     | --            |
|                             | 02/25/2025    | SW846    | Dup-20250225 | Water  | Yes                     | Yes  | Yes    | 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

## Data Usability Summary Report

VALIDATION PERFORMED BY: Amrutha M

SIGNATURE:

A handwritten signature in black ink, appearing to read "Amrutha M", with a small smiley face drawn below the name.

DATE: March 17, 2024

PEER REVIEW: Joe Houser

DATE: March 17, 2024

## **Chain of Custody Corrected Sample Analysis Data Sheets**

## Environment Testing

|  |  |   |  |  |  |   |                                   |                           |                           |              |              |              |                            |
|--|--|---|--|--|--|---|-----------------------------------|---------------------------|---------------------------|--------------|--------------|--------------|----------------------------|
| Client Information   |  | Sampler: <u>Kathryn Fleming</u>   | Lab PM                                   | Carrier Tracking No(s)   | COC No:  |   |                                   |                           |                           |              |              |              |                            |
| Client Contact<br>Mr. John Ruspantini  |  | Phone: <u>619-727-1921</u>  | Schove, John R                           | 480-201975-41503.1   |  |   |                                   |                           |                           |              |              |              |                            |
| Company<br>New York State Electric & Gas   |  | PWSID   | E-Mail:<br>John.Schove@et.eurofinsus.com | State of Origin:<br><u>NY</u>  | Page<br>Page 1 of 1  |   |                                   |                           |                           |              |              |              |                            |
| Address:<br>18 Link Drive  |  | Due Date Requested:   | Analysis Requested                       |  |  |   |                                   |                           |                           |              |              |              |                            |
| City:<br>Binghamton  |  | TAT Requested (days):<br><u>Standard</u>  |  |  |  |   |                                   |                           |                           |              |              |              |                            |
| State, Zip<br>NY, 13902  |  | Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |  |  |  |   |                                   |                           |                           |              |              |              |                            |
| Phone:   |  | PO #:   |  |  |  |   |                                   |                           |                           |              |              |              |                            |
| Email:<br>jjruspantini@nyseg.com   |  | Purchase Order Requested  |  |  |  |   |                                   |                           |                           |              |              |              |                            |
| Project Name:<br>NYSEG - Clyde/ Event Desc: Groundwater  |  | WO #:<br>NYSEG-Clyde/John Ruspantini  |  |  |  |   |                                   |                           |                           |              |              |              |                            |
| Site:<br>New York  |  | Project #:<br>48028408  |  |  |  |   |                                   |                           |                           |              |              |              |                            |
|  |  | SSOW#   |  |  |  |   |                                   |                           |                           |              |              |              |                            |
| Sample Identification  |  | Sample Date   | Sample Time                              | Sample Type<br>(C=Comp,<br>G=grab)                                   | Matrix<br>(W=water,<br>S=solid,<br>O=waste/oil,<br>BT=Tissue, A=Air) | Field Filtered Sample (Yes or No)   | Perform MS/MSD (Yes or No)        | 9012B_NP - Cyanide, Total | 8270D - PAH Semivolatiles | 6010D, 7470A | 8260C - BTEX | Total Number | Special Instructions/Note: |
| MW-4   |  | 2/25/25   | 1140                                     | G  | Water  | X   | X                                 | B                         | N                         | D            | A            |              |                            |
| <del>XXXXX</del> Dup - 20250225  |  | 2/25/25   | —  | G  | Water  | N   | N                                 | X                         | X                         | X            | X            | 21           |                            |
| <del>XXXXX</del> <u>LCR</u>  |  |   |  |  | Water  |   |                                   |                           |                           |              |              | 7            |                            |
| <del>XXXXX</del> <u>MR</u>   |  |   |  |  | Water  |   |                                   |                           |                           |              |              |              |                            |
|  |  |   |  |  | Water  |   |                                   |                           |                           |              |              |              |                            |
|  |  |   |  |  | Water  |   |                                   |                           |                           |              |              |              |                            |
|  |  |   |  |  | Water  |   |                                   |                           |                           |              |              |              |                            |
|  |  |   |  |  | Water  |   |                                   |                           |                           |              |              |              |                            |
|  |  |   |  |  | Water  |   |                                   |                           |                           |              |              |              |                            |
| TRIP BLANK   |  | —   | —  | —  | Water  |   |                                   |                           |                           | X            |              | 2            |                            |
|  |  |   |  |  | Water  |   |                                   |                           |                           |              |              |              |                            |
| Possible Hazard Identification   |  |   |  |  |  | Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)  |                                   |                           |                           |              |              |              |                            |
| <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological |  |   |  |  |  | <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months |                                   |                           |                           |              |              |              |                            |
| Deliverable Requested: I, II, III, IV, Other (specify)   |  |   |  |  |  | Special Instructions/QC Requirements:   |                                   |                           |                           |              |              |              |                            |
| Empty Kit Relinquished by:   |  | Date:   | Time:                                    |  | Method of Shipment:  |   |                                   |                           |                           |              |              |              |                            |
| Relinquished by:<br><u>B. Kudlaw Williams</u>  |  | Date/Time:<br><u>2/25/2025 1730</u>   | Company:<br><u>Arccadis</u>              |  | Received by:<br><u>[Signature]</u>                                   |   | Date/Time:<br><u>2/26/25 0900</u> |                           | Company:<br><u>EET</u>    |              |              |              |                            |
| Relinquished by:<br><u>[Signature]</u>   |  | Date/Time:<br><u>2/26/25 11:20</u>  | Company:<br><u>EGL</u>                   |  | Received by:<br><u>[Signature]</u>                                   |   | Date/Time:<br><u>2-26-25 1120</u> |                           | Company:<br><u>JAB</u>    |              |              |              |                            |
| Relinquished by:   |  | Date/Time:  | Company:                                 |  | Received by:   |   | Date/Time:                        |                           | Company:                  |              |              |              |                            |
| Custody Seals Intact:<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No   |  | Custody Seal No.:   |  | Cooler Temperature(s) °C and Other Remarks:<br><u>2.6 ICEIR # 56</u> |  |   |                                   |                           |                           |              |              |              |                            |

Ver: 10/10/2024

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3/5/2025

# Definitions/Glossary

Client: New York State Electric & Gas  
Project/Site: NYSEG - Clyde

Job ID: 480-227535-1

## 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. |

### Metals

| Qualifier | Qualifier Description   |
|-----------|---|
| ^5-       | Linear Range Check (LRC) is outside acceptance limits, low biased.  |
| ^5+       | Linear Range Check (LRC) is outside acceptance limits, high biased.   |
| 4         | MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable. |
| J         | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.  |

### General Chemistry

| Qualifier | Qualifier Description                          |
|-----------|--|
| F1        | MS and/or MSD recovery exceeds control limits. |

## 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   |

# Client Sample Results

Client: New York State Electric & Gas  
Project/Site: NYSEG - Clyde

Job ID: 480-227535-1

Client Sample ID: MW-4

Lab Sample ID: 480-227535-1

Date Collected: 02/25/25 11:40

Matrix: Ground Water

Date Received: 02/26/25 11:20

## Method: SW846 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 |   |          | 02/27/25 22:19 | 1       |
| Ethylbenzene   | ND     |           | 1.0 | 0.74 | ug/L |   |          | 02/27/25 22:19 | 1       |
| Toluene        | ND     |           | 1.0 | 0.51 | ug/L |   |          | 02/27/25 22:19 | 1       |
| Xylenes, Total | ND     |           | 2.0 | 0.66 | ug/L |   |          | 02/27/25 22:19 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 105       |           | 77 - 120 |          | 02/27/25 22:19 | 1       |
| 4-Bromofluorobenzene (Surr)  | 100       |           | 73 - 120 |          | 02/27/25 22:19 | 1       |
| Dibromofluoromethane (Surr)  | 101       |           | 75 - 123 |          | 02/27/25 22:19 | 1       |
| Toluene-d8 (Surr)            | 101       |           | 80 - 120 |          | 02/27/25 22:19 | 1       |

## Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

| Analyte                | Result | Qualifier | RL  | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|--------|-----------|-----|------|------|---|----------------|----------------|---------|
| Acenaphthene           | 0.54   | J         | 5.0 | 0.41 | ug/L |   | 02/28/25 13:52 | 03/03/25 16:11 | 1       |
| Acenaphthylene         | ND     |           | 5.0 | 0.38 | ug/L |   | 02/28/25 13:52 | 03/03/25 16:11 | 1       |
| Anthracene             | ND     |           | 5.0 | 0.28 | ug/L |   | 02/28/25 13:52 | 03/03/25 16:11 | 1       |
| Benzo[a]anthracene     | ND     |           | 5.0 | 0.36 | ug/L |   | 02/28/25 13:52 | 03/03/25 16:11 | 1       |
| Benzo[a]pyrene         | ND     |           | 5.0 | 0.47 | ug/L |   | 02/28/25 13:52 | 03/03/25 16:11 | 1       |
| Benzo[b]fluoranthene   | ND     |           | 5.0 | 0.34 | ug/L |   | 02/28/25 13:52 | 03/03/25 16:11 | 1       |
| Benzo[g,h,i]perylene   | ND     |           | 5.0 | 0.35 | ug/L |   | 02/28/25 13:52 | 03/03/25 16:11 | 1       |
| Benzo[k]fluoranthene   | ND     |           | 5.0 | 0.73 | ug/L |   | 02/28/25 13:52 | 03/03/25 16:11 | 1       |
| Chrysene               | ND     |           | 5.0 | 0.33 | ug/L |   | 02/28/25 13:52 | 03/03/25 16:11 | 1       |
| Dibenz(a,h)anthracene  | ND     |           | 5.0 | 0.42 | ug/L |   | 02/28/25 13:52 | 03/03/25 16:11 | 1       |
| Fluoranthene           | 0.90   | J         | 5.0 | 0.40 | ug/L |   | 02/28/25 13:52 | 03/03/25 16:11 | 1       |
| Fluorene               | 0.40   | J         | 5.0 | 0.36 | ug/L |   | 02/28/25 13:52 | 03/03/25 16:11 | 1       |
| Indeno[1,2,3-cd]pyrene | ND     |           | 5.0 | 0.47 | ug/L |   | 02/28/25 13:52 | 03/03/25 16:11 | 1       |
| Naphthalene            | ND     |           | 5.0 | 0.76 | ug/L |   | 02/28/25 13:52 | 03/03/25 16:11 | 1       |
| Phenanthrene           | ND     |           | 5.0 | 0.44 | ug/L |   | 02/28/25 13:52 | 03/03/25 16:11 | 1       |
| Pyrene                 | 1.3    | J         | 5.0 | 0.34 | ug/L |   | 02/28/25 13:52 | 03/03/25 16:11 | 1       |

| Surrogate               | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2-Fluorobiphenyl (Surr) | 86        |           | 53 - 126 | 02/28/25 13:52 | 03/03/25 16:11 | 1       |
| Nitrobenzene-d5 (Surr)  | 76        |           | 29 - 129 | 02/28/25 13:52 | 03/03/25 16:11 | 1       |
| p-Terphenyl-d14 (Surr)  | 81        |           | 33 - 132 | 02/28/25 13:52 | 03/03/25 16:11 | 1       |

## Method: SW846 6010D - Metals (ICP)

| Analyte   | Result | Qualifier | RL     | MDL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|--------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Aluminum  | ND     |           | 0.20   | 0.060   | mg/L |   | 02/27/25 09:16 | 02/27/25 15:04 | 1       |
| Antimony  | ND     |           | 0.020  | 0.0068  | mg/L |   | 02/27/25 09:16 | 02/27/25 15:04 | 1       |
| Arsenic   | ND     |           | 0.015  | 0.0056  | mg/L |   | 02/27/25 09:16 | 02/27/25 15:04 | 1       |
| Barium    | 0.24   |           | 0.0020 | 0.00070 | mg/L |   | 02/27/25 09:16 | 02/27/25 15:04 | 1       |
| Beryllium | ND     | ^5-       | 0.0020 | 0.00030 | mg/L |   | 02/27/25 09:16 | 02/27/25 15:04 | 1       |
| Cadmium   | ND     |           | 0.0020 | 0.00050 | mg/L |   | 02/27/25 09:16 | 02/27/25 15:04 | 1       |
| Calcium   | 197    |           | 0.50   | 0.10    | mg/L |   | 02/27/25 09:16 | 03/04/25 18:17 | 1       |
| Chromium  | ND     | ^5-       | 0.0040 | 0.0010  | mg/L |   | 02/27/25 09:16 | 02/27/25 15:04 | 1       |
| Cobalt    | ND     |           | 0.0040 | 0.00063 | mg/L |   | 02/27/25 09:16 | 02/27/25 15:04 | 1       |
| Copper    | ND     | ^5+       | 0.010  | 0.0016  | mg/L |   | 02/27/25 09:16 | 02/27/25 15:04 | 1       |
| Iron      | 25.3   | ^5-       | 0.050  | 0.019   | mg/L |   | 02/27/25 09:16 | 02/27/25 15:04 | 1       |
| Lead      | 0.0033 | J         | 0.010  | 0.0030  | mg/L |   | 02/27/25 09:16 | 02/27/25 15:04 | 1       |
| Magnesium | 30.9   | ^5-       | 0.20   | 0.043   | mg/L |   | 02/27/25 09:16 | 02/27/25 15:04 | 1       |

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# Client Sample Results

Client: New York State Electric & Gas  
Project/Site: NYSEG - Clyde

Job ID: 480-227535-1

Client Sample ID: MW-4

Lab Sample ID: 480-227535-1

Date Collected: 02/25/25 11:40

Matrix: Ground Water

Date Received: 02/26/25 11:20

## Method: SW846 6010D - Metals (ICP) (Continued)

| Analyte   | Result | Qualifier | RL     | MDL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|--------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Manganese | 1.0    | ^5-       | 0.0030 | 0.00040 | mg/L |   | 02/27/25 09:16 | 02/27/25 15:04 | 1       |
| Nickel    | ND     |           | 0.010  | 0.0013  | mg/L |   | 02/27/25 09:16 | 02/27/25 15:04 | 1       |
| Potassium | 6.9    |           | 0.50   | 0.10    | mg/L |   | 02/27/25 09:16 | 02/27/25 15:04 | 1       |
| Selenium  | ND     |           | 0.025  | 0.0087  | mg/L |   | 02/27/25 09:16 | 02/27/25 15:04 | 1       |
| Silver    | ND     | ^5-       | 0.0060 | 0.0017  | mg/L |   | 02/27/25 09:16 | 02/27/25 15:04 | 1       |
| Sodium    | 36.8   | ^5-       | 1.0    | 0.32    | mg/L |   | 02/27/25 09:16 | 02/27/25 15:04 | 1       |
| Thallium  | ND     |           | 0.020  | 0.010   | mg/L |   | 02/27/25 09:16 | 02/27/25 15:04 | 1       |
| Vanadium  | ND     | ^5-       | 0.0050 | 0.0015  | mg/L |   | 02/27/25 09:16 | 02/27/25 15:04 | 1       |
| Zinc      | 0.15   | ^5-       | 0.010  | 0.0015  | mg/L |   | 02/27/25 09:16 | 02/27/25 15:04 | 1       |

## General Chemistry

| Analyte                      | Result | Qualifier | RL    | MDL    | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------|-----------|-------|--------|------|---|----------|----------------|---------|
| Cyanide, Total (SW846 9012B) | ND     | F1        | 0.010 | 0.0041 | mg/L |   |          | 02/26/25 20:36 | 1       |

Client Sample ID: Dup-20250225

Lab Sample ID: 480-227535-2

Date Collected: 02/25/25 00:00

Matrix: Ground Water

Date Received: 02/26/25 11:20

## Method: SW846 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 |   |          | 02/27/25 22:41 | 1       |
| Ethylbenzene   | ND     |           | 1.0 | 0.74 | ug/L |   |          | 02/27/25 22:41 | 1       |
| Toluene        | ND     |           | 1.0 | 0.51 | ug/L |   |          | 02/27/25 22:41 | 1       |
| Xylenes, Total | ND     |           | 2.0 | 0.66 | ug/L |   |          | 02/27/25 22:41 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 106       |           | 77 - 120 |          | 02/27/25 22:41 | 1       |
| 4-Bromofluorobenzene (Surr)  | 102       |           | 73 - 120 |          | 02/27/25 22:41 | 1       |
| Dibromofluoromethane (Surr)  | 105       |           | 75 - 123 |          | 02/27/25 22:41 | 1       |
| Toluene-d8 (Surr)            | 100       |           | 80 - 120 |          | 02/27/25 22:41 | 1       |

## Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

| Analyte                | Result | Qualifier | RL  | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|--------|-----------|-----|------|------|---|----------------|----------------|---------|
| Acenaphthene           | 0.51   | J         | 5.0 | 0.41 | ug/L |   | 02/28/25 13:52 | 03/03/25 17:58 | 1       |
| Acenaphthylene         | ND     |           | 5.0 | 0.38 | ug/L |   | 02/28/25 13:52 | 03/03/25 17:58 | 1       |
| Anthracene             | ND     |           | 5.0 | 0.28 | ug/L |   | 02/28/25 13:52 | 03/03/25 17:58 | 1       |
| Benzo[a]anthracene     | ND     |           | 5.0 | 0.36 | ug/L |   | 02/28/25 13:52 | 03/03/25 17:58 | 1       |
| Benzo[a]pyrene         | ND     |           | 5.0 | 0.47 | ug/L |   | 02/28/25 13:52 | 03/03/25 17:58 | 1       |
| Benzo[b]fluoranthene   | ND     |           | 5.0 | 0.34 | ug/L |   | 02/28/25 13:52 | 03/03/25 17:58 | 1       |
| Benzo[g,h,i]perylene   | ND     |           | 5.0 | 0.35 | ug/L |   | 02/28/25 13:52 | 03/03/25 17:58 | 1       |
| Benzo[k]fluoranthene   | ND     |           | 5.0 | 0.73 | ug/L |   | 02/28/25 13:52 | 03/03/25 17:58 | 1       |
| Chrysene               | ND     |           | 5.0 | 0.33 | ug/L |   | 02/28/25 13:52 | 03/03/25 17:58 | 1       |
| Dibenz(a,h)anthracene  | ND     |           | 5.0 | 0.42 | ug/L |   | 02/28/25 13:52 | 03/03/25 17:58 | 1       |
| Fluoranthene           | 0.87   | J         | 5.0 | 0.40 | ug/L |   | 02/28/25 13:52 | 03/03/25 17:58 | 1       |
| Fluorene               | 0.38   | J         | 5.0 | 0.36 | ug/L |   | 02/28/25 13:52 | 03/03/25 17:58 | 1       |
| Indeno[1,2,3-cd]pyrene | ND     |           | 5.0 | 0.47 | ug/L |   | 02/28/25 13:52 | 03/03/25 17:58 | 1       |
| Naphthalene            | ND     |           | 5.0 | 0.76 | ug/L |   | 02/28/25 13:52 | 03/03/25 17:58 | 1       |
| Phenanthrene           | ND     |           | 5.0 | 0.44 | ug/L |   | 02/28/25 13:52 | 03/03/25 17:58 | 1       |
| Pyrene                 | 1.3    | J         | 5.0 | 0.34 | ug/L |   | 02/28/25 13:52 | 03/03/25 17:58 | 1       |

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# Client Sample Results

Client: New York State Electric & Gas  
Project/Site: NYSEG - Clyde

Job ID: 480-227535-1

Client Sample ID: Dup-20250225

Lab Sample ID: 480-227535-2

Date Collected: 02/25/25 00:00

Matrix: Ground Water

Date Received: 02/26/25 11:20

| Surrogate               | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2-Fluorobiphenyl (Surr) | 85        |           | 53 - 126 | 02/28/25 13:52 | 03/03/25 17:58 | 1       |
| Nitrobenzene-d5 (Surr)  | 75        |           | 29 - 129 | 02/28/25 13:52 | 03/03/25 17:58 | 1       |
| p-Terphenyl-d14 (Surr)  | 78        |           | 33 - 132 | 02/28/25 13:52 | 03/03/25 17:58 | 1       |

## Method: SW846 6010D - Metals (ICP)

| Analyte   | Result | Qualifier | RL     | MDL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|--------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Aluminum  | ND     |           | 0.20   | 0.060   | mg/L |   | 02/27/25 09:16 | 02/27/25 15:13 | 1       |
| Antimony  | ND     |           | 0.020  | 0.0068  | mg/L |   | 02/27/25 09:16 | 02/27/25 15:13 | 1       |
| Arsenic   | ND     |           | 0.015  | 0.0056  | mg/L |   | 02/27/25 09:16 | 02/27/25 15:13 | 1       |
| Barium    | 0.24   |           | 0.0020 | 0.00070 | mg/L |   | 02/27/25 09:16 | 02/27/25 15:13 | 1       |
| Beryllium | ND     | ^5-       | 0.0020 | 0.00030 | mg/L |   | 02/27/25 09:16 | 02/27/25 15:13 | 1       |
| Cadmium   | ND     |           | 0.0020 | 0.00050 | mg/L |   | 02/27/25 09:16 | 02/27/25 15:13 | 1       |
| Calcium   | 189    |           | 0.50   | 0.10    | mg/L |   | 02/27/25 09:16 | 03/04/25 18:27 | 1       |
| Chromium  | ND     | ^5-       | 0.0040 | 0.0010  | mg/L |   | 02/27/25 09:16 | 02/27/25 15:13 | 1       |
| Cobalt    | ND     |           | 0.0040 | 0.00063 | mg/L |   | 02/27/25 09:16 | 02/27/25 15:13 | 1       |
| Copper    | ND     | ^5+       | 0.010  | 0.0016  | mg/L |   | 02/27/25 09:16 | 02/27/25 15:13 | 1       |
| Iron      | 25.5   | ^5-       | 0.050  | 0.019   | mg/L |   | 02/27/25 09:16 | 02/27/25 15:13 | 1       |
| Lead      | 0.0037 | J         | 0.010  | 0.0030  | mg/L |   | 02/27/25 09:16 | 02/27/25 15:13 | 1       |
| Magnesium | 31.2   | ^5-       | 0.20   | 0.043   | mg/L |   | 02/27/25 09:16 | 02/27/25 15:13 | 1       |
| Manganese | 1.0    | ^5-       | 0.0030 | 0.00040 | mg/L |   | 02/27/25 09:16 | 02/27/25 15:13 | 1       |
| Nickel    | ND     |           | 0.010  | 0.0013  | mg/L |   | 02/27/25 09:16 | 02/27/25 15:13 | 1       |
| Potassium | 6.9    |           | 0.50   | 0.10    | mg/L |   | 02/27/25 09:16 | 02/27/25 15:13 | 1       |
| Selenium  | ND     |           | 0.025  | 0.0087  | mg/L |   | 02/27/25 09:16 | 02/27/25 15:13 | 1       |
| Silver    | ND     | ^5-       | 0.0060 | 0.0017  | mg/L |   | 02/27/25 09:16 | 02/27/25 15:13 | 1       |
| Sodium    | 36.7   | ^5-       | 1.0    | 0.32    | mg/L |   | 02/27/25 09:16 | 02/27/25 15:13 | 1       |
| Thallium  | ND     |           | 0.020  | 0.010   | mg/L |   | 02/27/25 09:16 | 02/27/25 15:13 | 1       |
| Vanadium  | ND     | ^5-       | 0.0050 | 0.0015  | mg/L |   | 02/27/25 09:16 | 02/27/25 15:13 | 1       |
| Zinc      | 0.097  | ^5-       | 0.010  | 0.0015  | mg/L |   | 02/27/25 09:16 | 02/27/25 15:13 | 1       |

## General Chemistry

| Analyte                      | Result | Qualifier | RL    | MDL    | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------|-----------|-------|--------|------|---|----------|----------------|---------|
| Cyanide, Total (SW846 9012B) | ND     |           | 0.010 | 0.0041 | mg/L |   |          | 02/26/25 20:46 | 1       |



NYSEG – Clyde  
Groundwater

# Data Usability Summary Report

**Clyde, New York**

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

SDG # 480-227898-1

Analyses Performed By:  
Eurofins Buffalo  
Amherst, New York

Report # 58603R  
Review Level: Tier III  
Project: 30270811.2

## Summary

This Data Usability Summary Report (DUSR) summarizes the review of Sample Delivery Group (SDG)# 480-227898-1 for samples collected in association with the NYSEG Clyde, New York 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 | Metals | CYANIDE |
| MW-12        | 480-227898-1 | Water  | 03/14/2025             |               | X        | X    | X      | X       |
| TRIP BLANK   | 480-227898-2 | Water  | 03/14/2025             |               | X        |      |        |         |
| DUP-20250314 | 480-227898-3 | Water  | 03/14/2025             | MW-12         | X        | X    | X      | X       |

**Notes:**

VOC = Volatile Organic Compounds

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

## 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 Compounds (VOCs) Analyses

### 1. Holding Times/Preservation

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) | Cool to <6 °C; preserved to a pH of less than 2 s.u. with hydrochloric acid. |

**Note:**

s.u. = standard units

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 (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).

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

## **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 MW-12. The MS/MSD analysis exhibited recoveries and RPDs 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.

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

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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 | Compounds     | Sample Result (ug/L) | Duplicate Result (ug/L) | RPD |
|------------------------|---------------|----------------------|-------------------------|-----|
| MW-12 / DUP-20250314   | All compounds | U                    | U                       | AC  |

**Notes:**

U Non detected

AC Acceptable

The calculated RPDs 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 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/Preservation                                  |          | X   |                        | X   |              |
| Reporting limits (units)                                    |          | X   |                        | X   |              |
| Blanks  |          |     |                        |     |              |
| A. Method blanks  |          | X   |                        | X   |              |
| B. Equipment blanks/Field 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   |              |
| 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   |              |



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| VOCs: SW-846 8260C                                       | Reported |     | Performance Acceptable |     | Not Required |
|--|----------|-----|------------------------|-----|--------------|
|  | No       | Yes | No                     | Yes |              |
| GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)             |          |     |                        |     |              |
| 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 Compounds (SVOCs) Analyses

### 1. Holding Times/Preservation

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).

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

## **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 continuing 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. SVOC analysis requires that two of the three SVOC surrogate compounds within each fraction 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 MW-12. The MS/MSD analysis exhibited recoveries and RPDs 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.

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 and 50% for soil matrices is applied to the RPD between the

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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 | Compounds     | Sample Result (ug/L) | Duplicate Result (ug/Kg) | RPD |
|------------------------|---------------|----------------------|--------------------------|-----|
| MW-12/ DUP-20250314    | All compounds | U                    | U                        | AC  |

**Notes:**

U Non detected

AC Acceptable

The calculated RPDs 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 SVOCs

| SVOCs: SW-846 8270D   | Reported |     | Performance Acceptable |     | Not Required |  |
|---|----------|-----|------------------------|-----|--------------|--|
|   | No       | Yes | No                     | Yes |              |  |
| <b>GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)</b>         |          |     |                        |     |              |  |
| <b>Tier II Validation</b>                                   |          |     |                        |     |              |  |
| Holding times/Preservation                                  |          | X   |                        | X   |              |  |
| Reporting limits (units)                                    |          | X   |                        | X   |              |  |
| Blanks  |          |     |                        |     |              |  |
| A. Method blanks  |          | X   |                        | X   |              |  |
| B. Equipment blanks/Field 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            |  |
| <b>Tier III Validation</b>                                  |          |     |                        |     |              |  |
| 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   |              |  |
| 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   |              |  |

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| SVOCs: SW-846 8270D                                      | Reported |     | Performance Acceptable |     | Not Required |
|--|----------|-----|------------------------|-----|--------------|
|  | No       | Yes | No                     | Yes |              |
| GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)             |          |     |                        |     |              |
| 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 Methods 6010D and 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 compound was quantitated above the calibration range.
  - 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.

## Metals Analyses

### 1. Holding Times/Preservation

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

| Method       | Matrix | Holding Time                         | Preservation   |
|--------------|--------|--------------------------------------|----------------|
| SW-846 6010D | Water  | 180 days from collection to analysis | Cool to <6 °C. |

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.

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                         |
|-----------|-------------|--------------------------------------|---------------------------------------|
| MW-12     | Nickel (MB) | Detected sample results >RL and <BAL | "UB" at detected sample concentration |

**Note:**

MB Method blank

### 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 with the exception noted below.



| Sample ID             | ICV/CCV | Analytes  | Standard Recovery |
|-----------------------|---------|-----------|-------------------|
| MW-12<br>DUP-20250314 | ICV %D  | Arsenic   | 116%              |
|                       |         | Barium    | 83%               |
|                       |         | Cadmium   | 85 %              |
|                       |         | Cobalt    | 117%              |
|                       |         | Iron      | 114%              |
|                       |         | Nickel    | 116%              |
|                       |         | Potassium | 85%               |
|                       |         | Thallium  | 120%              |
|                       |         | Zinc      | 119%              |
|                       | CCV %D  | Arsenic   | 115%              |
|                       |         | Barium    | 82%               |
|                       |         | Cobalt    | 125%              |
|                       |         | Lead      | 119%              |
|                       |         | Zinc      | 111%              |

The criteria used to evaluate the ICV and CCV standard recoveries are presented in the following table. In the case of a calibration deviation, the sample results are qualified.

| Analytes  | Control Limit                   | Sample Result | Qualification |
|---|---------------------------------|---------------|---------------|
| All analytes quantitated with multi-point curve | Correlation coefficient < 0.995 | Non-detect    | UJ            |
|   |                                 | Detect        | J             |
| All analytes<br>(except Mercury)                | 75% to 89%                      | Non-detect    | UJ            |
|   |                                 | Detect        | J             |
|   | 111% to 125%                    | Non-detect    | No Action     |
|   |                                 | Detect        | J             |
|   | <75%                            | Non-detect    | R             |
|   |                                 | Detect        | J             |
|   | >125%                           | Non-detect    | No Action     |
|   |                                 | Detect        | R             |

### 3.2 RL Check Standard

The RL check standard serves to verify the linearity of calibration of the analysis at the reporting limit. The RL standard is not required for the analysis of aluminum (Al), barium (Ba), calcium (Ca), iron (Fe), magnesium (Mg), sodium (Na), and potassium (K). The criteria used to evaluate the RL standard analysis are presented below in the RL standards evaluation table (if applicable).

All RL standard recoveries were within control limits.

### 3.3 ICP Interference Control Sample (ICS)

The ICS verifies the laboratories interelement and background correction factors.

All ICS exhibited recoveries within the control limits.

## 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/MSD 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/MSD 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 MW-12. The MS/MSD analysis exhibited recoveries and RPDs 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 matrix 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 matrix.

The laboratory duplicate analysis was not performed on any of the sample from this SDG.

## 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 and 50% for soil matrix 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 or three times the RL is applied for soil matrix.

Results for duplicate samples are summarized in the following table.

| Sample ID/Duplicate ID | Analytes  | Sample Result (mg/L) | Duplicate Result (mg/L) | RPD  |
|------------------------|-----------|----------------------|-------------------------|------|
| MW-12 / DUP-20250314   | Barium    | 0.10                 | 0.10                    | 0.0% |
|                        | Calcium   | 142                  | 140                     | 1.4% |
|                        | Copper    | 0.0017 J             | 0.0020 J                | AC   |
|                        | Iron      | 0.44                 | 0.46                    | 4.4% |
|                        | Magnesium | 22.3                 | 22.0                    | 1.4% |

| Sample ID/Duplicate ID | Analytes  | Sample Result (mg/L) | Duplicate Result (mg/L) | RPD  |
|------------------------|-----------|----------------------|-------------------------|------|
|                        | Manganese | 0.16                 | 0.16                    | 0.0% |
|                        | Nickel    | 0.0014 J             | 0.010 U                 | AC   |
|                        | Potassium | 4.7                  | 4.7                     | 0.0% |
|                        | Sodium    | 70.2                 | 70.7                    | 0.7% |
|                        | Zinc      | 0.22                 | 0.22                    | 0.0% |

**Note:**

AC      Acceptable

The calculated RPDs 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. Serial Dilution

The serial dilution analysis is used to assess if a significant physical or chemical interference exists due to sample matrix. Analytes exhibiting concentrations greater than 50 times the MDL in the undiluted sample are evaluated to determine if matrix interference exists. These analytes are required to have less than a 10% difference (%D) between sample results from the undiluted (parent) sample and results associated with the same sample analyzed with a five-fold dilution.

The serial dilution analysis was not performed on the samples from this SDG.

## 8. System Performance and Overall Assessment

The laboratory noted: Method 6010D: The linear range check (LRC) standard recovery associated with 480-741101 is outside the acceptance criteria for the following analytes: total Silver, Beryllium, Cobalt, Copper, Lead, Selenium, and Thallium. The concentration of these analyte(s) in the sample(s) are below the highest standard of the calibration curve; therefore, the data have been reported. The analytes listed above for samples MW-12 and DUP-20250314 were qualified as estimated (UJ/J).

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

## Data Validation Checklist for Metals

| METALS: SW-846 6010D  | Reported                                  |     | Performance Acceptable |     | Not Required |  |
|---|---|-----|------------------------|-----|--------------|--|
|   | No  | Yes | No                     | Yes |              |  |
| <b>Inductively Coupled Plasma-Optical Emission Spectrometry (ICP-OES)</b> |   |     |                        |     |              |  |
| <b>Tier II Validation</b>   |   |     |                        |     |              |  |
| Holding Times/Preservation  |   | 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   |              |  |
| 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   |              |  |
| ICP Serial Dilution %D  | X   |     |                        |     | X            |  |
| Reporting Limit Verification  |   | X   |                        | X   |              |  |
| <b>Tier III Validation</b>  |   |     |                        |     |              |  |
| Initial Calibration Verification  |   | X   | X                      |     |              |  |
| Continuing Calibration Verification                                       |   | X   | X                      |     |              |  |
| CRDL Standard Recovery  |   | X   |                        | X   |              |  |
| ICP Interference Check  |   | X   |                        | X   |              |  |
| ICP-MS Internal Standards   | X   |     |                        |     | X            |  |
| Transcription/calculations acceptable                                     | Not required for Tier II plus calibration |     |                        |     |              |  |
| Raw Data  | X   |     |                        |     | X            |  |
| Reporting limits adjusted to reflect sample dilutions                     |   | X   |                        | X   |              |  |

## Notes:

%R     Percent recovery  
 RPD     Relative percent difference  
 %D     Percent difference

## 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.

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             | Analyte             | Sample Result                        | Qualification                         |
|-----------------------|---------------------|--------------------------------------|---------------------------------------|
| MW-12<br>DUP-20250314 | Cyanide, Total (MB) | Detected sample results >RL and <BAL | "UB" at detected sample concentration |

**Note:**

MB Method blank

### 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/MSD 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/MSD 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 MW-4. The MS/MSD analysis exhibited recoveries and RPDs 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.

The laboratory duplicate analysis was not performed on samples from this SDG.

## 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 (mg/L) | Duplicate Result (mg/L) | RPD |
|------------------------|-----------------|----------------------|-------------------------|-----|
| MW-12/ DUP-20250314    | Cyanide (total) | U                    | U                       | AC  |

**Note:**

AC      Acceptable

The calculated RPDs 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                         |          |     |                        |     |              |
| <b>Tier II Validation</b>                             |          |     |                        |     |              |
| 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   |              |
| 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   |              |
| <b>Tier III Validation</b>                            |          |     |                        |     |              |
| 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 | Compliance <sup>1</sup> |      |        |         | Noncompliance   |
|-----------------------------|---------------|----------|--------------|--------|-------------------------|------|--------|---------|---|
|                             |               |          |              |        | VOC                     | SVOC | METALS | CYANIDE |   |
| 480-227898-1                | 03/14/2025    | SW846    | MW-12        | Water  | Yes                     | Yes  | No     | No      | Metals- Blank contamination, ICV %D and CCV %D, LRC %R<br>General Chemistry - Blank contamination |
|                             | 03/14/2025    | SW846    | TRIP BLANK   | Water  | Yes                     | --   | --     | --      | --  |
|                             | 03/14/2025    | SW846    | DUP-20250314 | Water  | Yes                     | Yes  | No     | No      | Metals- ICV %D and CCV %D, LRC %R<br>General Chemistry - Blank contamination                      |

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: Amrutha M

SIGNATURE:   
\_\_\_\_\_

DATE: April 8, 2024  
\_\_\_\_\_

PEER REVIEW: Joe Houser

DATE: April 8, 2024  
\_\_\_\_\_

## **Chain of Custody Corrected Sample Analysis Data Sheets**

 **eurofins** | Environment Testing

[illegible]

# Definitions/Glossary

Client: New York State Electric & Gas  
Project/Site: NYSEG - Clyde

Job ID: 480-227898-1

## Qualifiers

### Metals

| Qualifier | Qualifier Description   |
|-----------|---|
| ^5-       | Linear Range Check (LRC) is outside acceptance limits, low biased.  |
| ^5+       | Linear Range Check (LRC) is outside acceptance limits, high biased.   |
| 4         | MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable. |
| B         | Compound was found in the blank and sample.   |
| J         | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.  |

### General Chemistry

| Qualifier | Qualifier Description  |
|-----------|--|
| B         | Compound was found in the blank and sample.  |
| 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   |

# Client Sample Results

Client: New York State Electric & Gas  
Project/Site: NYSEG - Clyde

Job ID: 480-227898-1

Client Sample ID: MW-12

Lab Sample ID: 480-227898-1

Date Collected: 03/14/25 11:35

Matrix: Ground Water

Date Received: 03/15/25 09:00

## Method: SW846 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 |   |          | 03/19/25 01:56 | 1       |
| Ethylbenzene   | ND     |           | 1.0 | 0.74 | ug/L |   |          | 03/19/25 01:56 | 1       |
| Toluene        | ND     |           | 1.0 | 0.51 | ug/L |   |          | 03/19/25 01:56 | 1       |
| Xylenes, Total | ND     |           | 2.0 | 0.66 | ug/L |   |          | 03/19/25 01:56 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 94        |           | 77 - 120 |          | 03/19/25 01:56 | 1       |
| 4-Bromofluorobenzene (Surr)  | 107       |           | 73 - 120 |          | 03/19/25 01:56 | 1       |
| Dibromofluoromethane (Surr)  | 97        |           | 75 - 123 |          | 03/19/25 01:56 | 1       |
| Toluene-d8 (Surr)            | 89        |           | 80 - 120 |          | 03/19/25 01:56 | 1       |

## Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

| Analyte                | Result | Qualifier | RL  | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|--------|-----------|-----|------|------|---|----------------|----------------|---------|
| Acenaphthene           | ND     |           | 5.0 | 0.41 | ug/L |   | 03/17/25 13:27 | 03/18/25 16:19 | 1       |
| Acenaphthylene         | ND     |           | 5.0 | 0.38 | ug/L |   | 03/17/25 13:27 | 03/18/25 16:19 | 1       |
| Anthracene             | ND     |           | 5.0 | 0.28 | ug/L |   | 03/17/25 13:27 | 03/18/25 16:19 | 1       |
| Benzo[a]anthracene     | ND     |           | 5.0 | 0.36 | ug/L |   | 03/17/25 13:27 | 03/18/25 16:19 | 1       |
| Benzo[a]pyrene         | ND     |           | 5.0 | 0.47 | ug/L |   | 03/17/25 13:27 | 03/18/25 16:19 | 1       |
| Benzo[b]fluoranthene   | ND     |           | 5.0 | 0.34 | ug/L |   | 03/17/25 13:27 | 03/18/25 16:19 | 1       |
| Benzo[g,h,i]perylene   | ND     |           | 5.0 | 0.35 | ug/L |   | 03/17/25 13:27 | 03/18/25 16:19 | 1       |
| Benzo[k]fluoranthene   | ND     |           | 5.0 | 0.73 | ug/L |   | 03/17/25 13:27 | 03/18/25 16:19 | 1       |
| Chrysene               | ND     |           | 5.0 | 0.33 | ug/L |   | 03/17/25 13:27 | 03/18/25 16:19 | 1       |
| Dibenz(a,h)anthracene  | ND     |           | 5.0 | 0.42 | ug/L |   | 03/17/25 13:27 | 03/18/25 16:19 | 1       |
| Fluoranthene           | ND     |           | 5.0 | 0.40 | ug/L |   | 03/17/25 13:27 | 03/18/25 16:19 | 1       |
| Fluorene               | ND     |           | 5.0 | 0.36 | ug/L |   | 03/17/25 13:27 | 03/18/25 16:19 | 1       |
| Indeno[1,2,3-cd]pyrene | ND     |           | 5.0 | 0.47 | ug/L |   | 03/17/25 13:27 | 03/18/25 16:19 | 1       |
| Naphthalene            | ND     |           | 5.0 | 0.76 | ug/L |   | 03/17/25 13:27 | 03/18/25 16:19 | 1       |
| Phenanthrene           | ND     |           | 5.0 | 0.44 | ug/L |   | 03/17/25 13:27 | 03/18/25 16:19 | 1       |
| Pyrene                 | ND     |           | 5.0 | 0.34 | ug/L |   | 03/17/25 13:27 | 03/18/25 16:19 | 1       |

| Surrogate               | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2-Fluorobiphenyl (Surr) | 76        |           | 53 - 126 | 03/17/25 13:27 | 03/18/25 16:19 | 1       |
| Nitrobenzene-d5 (Surr)  | 66        |           | 29 - 129 | 03/17/25 13:27 | 03/18/25 16:19 | 1       |
| p-Terphenyl-d14 (Surr)  | 66        |           | 33 - 132 | 03/17/25 13:27 | 03/18/25 16:19 | 1       |

## Method: SW846 6010D - Metals (ICP)

| Analyte   | Result | Qualifier | RL     | MDL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|--------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Aluminum  | ND     |           | 0.20   | 0.060   | mg/L |   | 03/18/25 08:50 | 03/18/25 14:25 | 1       |
| Antimony  | ND     |           | 0.020  | 0.0068  | mg/L |   | 03/18/25 08:50 | 03/18/25 14:25 | 1       |
| Arsenic   | ND     | UJ        | 0.015  | 0.0056  | mg/L |   | 03/18/25 08:50 | 03/18/25 14:25 | 1       |
| Barium    | 0.10   | J         | 0.0020 | 0.00070 | mg/L |   | 03/18/25 08:50 | 03/18/25 14:25 | 1       |
| Beryllium | ND     | 45- UJ    | 0.0020 | 0.00030 | mg/L |   | 03/18/25 08:50 | 03/18/25 14:25 | 1       |
| Cadmium   | ND     | UJ        | 0.0020 | 0.00050 | mg/L |   | 03/18/25 08:50 | 03/18/25 14:25 | 1       |
| Calcium   | 142    |           | 0.50   | 0.10    | mg/L |   | 03/18/25 08:50 | 03/18/25 14:25 | 1       |
| Chromium  | ND     |           | 0.0040 | 0.0010  | mg/L |   | 03/18/25 08:50 | 03/18/25 14:25 | 1       |
| Cobalt    | ND     | 45+ UJ    | 0.0040 | 0.00063 | mg/L |   | 03/18/25 08:50 | 03/18/25 14:25 | 1       |
| Copper    | 0.0017 | J 45+     | 0.010  | 0.0016  | mg/L |   | 03/18/25 08:50 | 03/18/25 14:25 | 1       |
| Iron      | 0.44   | J         | 0.050  | 0.019   | mg/L |   | 03/18/25 08:50 | 03/18/25 14:25 | 1       |
| Lead      | ND     | 45+ UJ    | 0.010  | 0.0030  | mg/L |   | 03/18/25 08:50 | 03/18/25 14:25 | 1       |
| Magnesium | 22.3   |           | 0.20   | 0.043   | mg/L |   | 03/18/25 08:50 | 03/18/25 14:25 | 1       |

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# Client Sample Results

Client: New York State Electric & Gas  
Project/Site: NYSEG - Clyde

Job ID: 480-227898-1

Client Sample ID: MW-12

Date Collected: 03/14/25 11:35

Date Received: 03/15/25 09:00

Lab Sample ID: 480-227898-1

Matrix: Ground Water

## Method: SW846 6010D - Metals (ICP) (Continued)

| Analyte   | Result | Qualifier | RL     | MDL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|--------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Manganese | 0.16   |           | 0.0030 | 0.00040 | mg/L |   | 03/18/25 08:50 | 03/18/25 14:25 | 1       |
| Nickel    | 0.0014 | J-B UBJ   | 0.010  | 0.0013  | mg/L |   | 03/18/25 08:50 | 03/18/25 14:25 | 1       |
| Potassium | 4.7    | J         | 0.50   | 0.10    | mg/L |   | 03/18/25 08:50 | 03/18/25 14:25 | 1       |
| Selenium  | ND     | ^5+ UJ    | 0.025  | 0.0087  | mg/L |   | 03/18/25 08:50 | 03/18/25 14:25 | 1       |
| Silver    | ND     | ^5- UJ    | 0.0060 | 0.0017  | mg/L |   | 03/18/25 08:50 | 03/18/25 14:25 | 1       |
| Sodium    | 70.2   |           | 1.0    | 0.32    | mg/L |   | 03/18/25 08:50 | 03/18/25 14:25 | 1       |
| Thallium  | ND     | ^5+ UJ    | 0.020  | 0.010   | mg/L |   | 03/18/25 08:50 | 03/18/25 14:25 | 1       |
| Vanadium  | ND     |           | 0.0050 | 0.0015  | mg/L |   | 03/18/25 08:50 | 03/18/25 14:25 | 1       |
| Zinc      | 0.22   | J         | 0.010  | 0.0015  | mg/L |   | 03/18/25 08:50 | 03/18/25 14:25 | 1       |

## General Chemistry

| Analyte                      | Result | Qualifier | RL    | MDL    | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------|-----------|-------|--------|------|---|----------|----------------|---------|
| Cyanide, Total (SW846 9012B) | 0.0091 | J-B-E1 UB | 0.010 | 0.0041 | mg/L |   |          | 03/18/25 19:34 | 1       |

Client Sample ID: TRIP BLANK

Date Collected: 03/14/25 00:00

Date Received: 03/15/25 09:00

Lab Sample ID: 480-227898-2

Matrix: WQ

## Method: SW846 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 |   |          | 03/19/25 02:20 | 1       |
| Ethylbenzene   | ND     |           | 1.0 | 0.74 | ug/L |   |          | 03/19/25 02:20 | 1       |
| Toluene        | ND     |           | 1.0 | 0.51 | ug/L |   |          | 03/19/25 02:20 | 1       |
| Xylenes, Total | ND     |           | 2.0 | 0.66 | ug/L |   |          | 03/19/25 02:20 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 103       |           | 77 - 120 |          | 03/19/25 02:20 | 1       |
| 4-Bromofluorobenzene (Surr)  | 118       |           | 73 - 120 |          | 03/19/25 02:20 | 1       |
| Dibromofluoromethane (Surr)  | 110       |           | 75 - 123 |          | 03/19/25 02:20 | 1       |
| Toluene-d8 (Surr)            | 100       |           | 80 - 120 |          | 03/19/25 02:20 | 1       |

Client Sample ID: DUP-20250314

Date Collected: 03/14/25 00:00

Date Received: 03/15/25 09:00

Lab Sample ID: 480-227898-3

Matrix: Water

## Method: SW846 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 |   |          | 03/19/25 02:43 | 1       |
| Ethylbenzene   | ND     |           | 1.0 | 0.74 | ug/L |   |          | 03/19/25 02:43 | 1       |
| Toluene        | ND     |           | 1.0 | 0.51 | ug/L |   |          | 03/19/25 02:43 | 1       |
| Xylenes, Total | ND     |           | 2.0 | 0.66 | ug/L |   |          | 03/19/25 02:43 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 101       |           | 77 - 120 |          | 03/19/25 02:43 | 1       |
| 4-Bromofluorobenzene (Surr)  | 119       |           | 73 - 120 |          | 03/19/25 02:43 | 1       |
| Dibromofluoromethane (Surr)  | 108       |           | 75 - 123 |          | 03/19/25 02:43 | 1       |
| Toluene-d8 (Surr)            | 102       |           | 80 - 120 |          | 03/19/25 02:43 | 1       |

## Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

| Analyte      | Result | Qualifier | RL  | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|--------------|--------|-----------|-----|------|------|---|----------------|----------------|---------|
| Acenaphthene | ND     |           | 5.0 | 0.41 | ug/L |   | 03/17/25 13:27 | 03/18/25 16:46 | 1       |

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# Client Sample Results

Client: New York State Electric & Gas  
Project/Site: NYSEG - Clyde

Job ID: 480-227898-1

Client Sample ID: DUP-20250314

Lab Sample ID: 480-227898-3

Date Collected: 03/14/25 00:00

Matrix: Water

Date Received: 03/15/25 09:00

## Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

| Analyte                | Result | Qualifier | RL  | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|--------|-----------|-----|------|------|---|----------------|----------------|---------|
| Acenaphthylene         | ND     |           | 5.0 | 0.38 | ug/L |   | 03/17/25 13:27 | 03/18/25 16:46 | 1       |
| Anthracene             | ND     |           | 5.0 | 0.28 | ug/L |   | 03/17/25 13:27 | 03/18/25 16:46 | 1       |
| Benzo[a]anthracene     | ND     |           | 5.0 | 0.36 | ug/L |   | 03/17/25 13:27 | 03/18/25 16:46 | 1       |
| Benzo[a]pyrene         | ND     |           | 5.0 | 0.47 | ug/L |   | 03/17/25 13:27 | 03/18/25 16:46 | 1       |
| Benzo[b]fluoranthene   | ND     |           | 5.0 | 0.34 | ug/L |   | 03/17/25 13:27 | 03/18/25 16:46 | 1       |
| Benzo[g,h,i]perylene   | ND     |           | 5.0 | 0.35 | ug/L |   | 03/17/25 13:27 | 03/18/25 16:46 | 1       |
| Benzo[k]fluoranthene   | ND     |           | 5.0 | 0.73 | ug/L |   | 03/17/25 13:27 | 03/18/25 16:46 | 1       |
| Chrysene               | ND     |           | 5.0 | 0.33 | ug/L |   | 03/17/25 13:27 | 03/18/25 16:46 | 1       |
| Dibenz(a,h)anthracene  | ND     |           | 5.0 | 0.42 | ug/L |   | 03/17/25 13:27 | 03/18/25 16:46 | 1       |
| Fluoranthene           | ND     |           | 5.0 | 0.40 | ug/L |   | 03/17/25 13:27 | 03/18/25 16:46 | 1       |
| Fluorene               | ND     |           | 5.0 | 0.36 | ug/L |   | 03/17/25 13:27 | 03/18/25 16:46 | 1       |
| Indeno[1,2,3-cd]pyrene | ND     |           | 5.0 | 0.47 | ug/L |   | 03/17/25 13:27 | 03/18/25 16:46 | 1       |
| Naphthalene            | ND     |           | 5.0 | 0.76 | ug/L |   | 03/17/25 13:27 | 03/18/25 16:46 | 1       |
| Phenanthrene           | ND     |           | 5.0 | 0.44 | ug/L |   | 03/17/25 13:27 | 03/18/25 16:46 | 1       |
| Pyrene                 | ND     |           | 5.0 | 0.34 | ug/L |   | 03/17/25 13:27 | 03/18/25 16:46 | 1       |

| Surrogate               | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2-Fluorobiphenyl (Surr) | 102       |           | 53 - 126 | 03/17/25 13:27 | 03/18/25 16:46 | 1       |
| Nitrobenzene-d5 (Surr)  | 87        |           | 29 - 129 | 03/17/25 13:27 | 03/18/25 16:46 | 1       |
| p-Terphenyl-d14 (Surr)  | 87        |           | 33 - 132 | 03/17/25 13:27 | 03/18/25 16:46 | 1       |

## Method: SW846 6010D - Metals (ICP)

| Analyte   | Result | Qualifier | RL     | MDL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|--------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Aluminum  | ND     |           | 0.20   | 0.060   | mg/L |   | 03/18/25 08:50 | 03/18/25 14:36 | 1       |
| Antimony  | ND     |           | 0.020  | 0.0068  | mg/L |   | 03/18/25 08:50 | 03/18/25 14:36 | 1       |
| Arsenic   | ND     | UJ        | 0.015  | 0.0056  | mg/L |   | 03/18/25 08:50 | 03/18/25 14:36 | 1       |
| Barium    | 0.10   | J         | 0.0020 | 0.00070 | mg/L |   | 03/18/25 08:50 | 03/18/25 14:36 | 1       |
| Beryllium | ND     | 5- UJ     | 0.0020 | 0.00030 | mg/L |   | 03/18/25 08:50 | 03/18/25 14:36 | 1       |
| Cadmium   | ND     | UJ        | 0.0020 | 0.00050 | mg/L |   | 03/18/25 08:50 | 03/18/25 14:36 | 1       |
| Calcium   | 140    |           | 0.50   | 0.10    | mg/L |   | 03/18/25 08:50 | 03/18/25 14:36 | 1       |
| Chromium  | ND     |           | 0.0040 | 0.0010  | mg/L |   | 03/18/25 08:50 | 03/18/25 14:36 | 1       |
| Cobalt    | ND     | 5+ UJ     | 0.0040 | 0.00063 | mg/L |   | 03/18/25 08:50 | 03/18/25 14:36 | 1       |
| Copper    | 0.0020 | J 5+      | 0.010  | 0.0016  | mg/L |   | 03/18/25 08:50 | 03/18/25 14:36 | 1       |
| Iron      | 0.46   | J         | 0.050  | 0.019   | mg/L |   | 03/18/25 08:50 | 03/18/25 14:36 | 1       |
| Lead      | ND     | 5+ UJ     | 0.010  | 0.0030  | mg/L |   | 03/18/25 08:50 | 03/18/25 14:36 | 1       |
| Magnesium | 22.0   |           | 0.20   | 0.043   | mg/L |   | 03/18/25 08:50 | 03/18/25 14:36 | 1       |
| Manganese | 0.16   |           | 0.0030 | 0.00040 | mg/L |   | 03/18/25 08:50 | 03/18/25 14:36 | 1       |
| Nickel    | ND     | UJ        | 0.010  | 0.0013  | mg/L |   | 03/18/25 08:50 | 03/18/25 14:36 | 1       |
| Potassium | 4.7    | J         | 0.50   | 0.10    | mg/L |   | 03/18/25 08:50 | 03/18/25 14:36 | 1       |
| Selenium  | ND     | 5+ UJ     | 0.025  | 0.0087  | mg/L |   | 03/18/25 08:50 | 03/18/25 14:36 | 1       |
| Silver    | ND     | 5- UJ     | 0.0060 | 0.0017  | mg/L |   | 03/18/25 08:50 | 03/18/25 14:36 | 1       |
| Sodium    | 70.7   |           | 1.0    | 0.32    | mg/L |   | 03/18/25 08:50 | 03/18/25 14:36 | 1       |
| Thallium  | ND     | 5+ UJ     | 0.020  | 0.010   | mg/L |   | 03/18/25 08:50 | 03/18/25 14:36 | 1       |
| Vanadium  | ND     |           | 0.0050 | 0.0015  | mg/L |   | 03/18/25 08:50 | 03/18/25 14:36 | 1       |
| Zinc      | 0.22   | J         | 0.010  | 0.0015  | mg/L |   | 03/18/25 08:50 | 03/18/25 14:36 | 1       |

## General Chemistry

| Analyte                      | Result | Qualifier | RL    | MDL    | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------|-----------|-------|--------|------|---|----------|----------------|---------|
| Cyanide, Total (SW846 9012B) | 0.0061 | J-B UB    | 0.010 | 0.0041 | mg/L |   |          | 03/18/25 19:53 | 1       |

Eurofins Buffalo



# Attachment 4

**MW-14 and MW-15 Well Installation Logs**

Boring No./Well ID: **SB-MW14 / MW14**Surface Finish: Flushmount

# Soil Boring and Construction Log

Sheet: 1 of 1

Client Name: New York State Electric & GasDate Started: 03-10-2025Well Type: Single ScreenedProject Number: 30251446Date Completed: 03-12-2025Logger(s): Bailey Kudla-WilliamsProject Name: Clyde Former MGP SiteTotal Depth: 14.0 ft bgsReviewer: NA

| Depth (ft) | Rec. (ft) | PID (ppm) | Graphic | Material Description  | Construction Details             |
|------------|-----------|-----------|---------|---|----------------------------------|
|            |           | 0.0       |         | (0.0-0.5 ft) NOTE: Topsoil.   |                                  |
| 1          |           | 0.0       |         | (0.5-4.5 ft): SAND, fine to coarse, subangular to subround, little gravel, small to medium pebbles, subround, little silt; poorly sorted, moist, 10YR 5/3 - brown.  | Concrete                         |
| 2          |           |           |         |   | Bentonite Chips                  |
| 3          |           | 0.0       |         |   | 2" Sch. 40 PVC Casing            |
| 4          |           | 0.0       |         |   |                                  |
| 5          |           |           |         | (4.5-13.5 ft): SAND, fine to medium, subangular to subround, some gravel, small to large pebbles, subround to round, trace silt; soft, poorly sorted, wet, 10YR 4/3 - brown.  |                                  |
| 6          | 2.00      |           |         |   |                                  |
| 7          |           |           |         |   |                                  |
| 8          |           | 0.0       |         |   | Zero Sand                        |
| 9          |           |           |         |   | 2" 0.01"-Slot Sch. 40 PVC Screen |
| 10         | 2.42      |           |         |   |                                  |
| 11         |           |           |         |   |                                  |
| 12         |           |           |         |   |                                  |
| 13         | 1.33      | 1.1       |         |   |                                  |
| 14         |           |           |         | (13.5-14.0 ft): Partially Weathered Bedrock (Shale); 10G 7/1 - light greenish gray; highly weathered; soft (scratched with fingernail); very intensely fractured (few intact core segments).<br>End Depth: 14.00 ft | Natural Collapse                 |

Drilling Co.: Parratt-Wolff, Inc., East Syracuse, NYInterval Length: 4.0 ftDriller: Lee Penrod+Lamont ClemonsFirst Encountered Water (ft bgs): ▼ 4.00Drilling Method: Geoprobe (GP)Static Water Level (ft btoc): ▽ 2.71Sampling Method: MacrocoreTop of Casing Elevation: 393.48 ft amslDrill Rig: Geoprobe 7822DTGround Surface Elevation: 393.77 ft amsl**Terminology****Remarks**

ft: feet  
bgs: below ground surface  
PID: photoionization detector  
DVM: organic vapor meter  
ppm: parts per million  
NA: Not Applicable/Not Available  
PVC: Polyvinyl Chloride

Hand cleared 0-4.5 ft bgs

Easting: 742769.53 ftNorthing: 1123297.11 ftCoordinate System: NAD 1983 StatePlane New York West

# Soil Boring and Construction Log

Client Name: **New York State Electric & Gas**

Date Started: **03-10-2025**

Well Type: **Single Screened**

Project Number: **30251446**
















Date Completed: **03-12-2025**

Logger(s): **Bailey Kudla-Williams**

Project Name: **Clyde Former MGP Site**

Total Depth: **14.0 ft bgs**

Reviewer: **NA**

| Depth (ft) | Rec. (ft) | PID (ppm) | Graphic  | Material Description  | Construction Details             |
|------------|-----------|-----------|--|---|----------------------------------|
| 0.0        |           |           |   | (0.0-1.0 ft) NOTE: Topsoil. Geotextile membrane at 1'   |                                  |
| 1          |           |           |   | (1.0-3.0 ft): SAND, fine to coarse, subangular to subround, some gravel, small to medium pebbles, subround, little silt; poorly sorted, moist, 10YR 3/3 - dark brown.   | Concrete →                       |
| 2          |           | 0.0       |   |   | Bentonite Chips →                |
| 3          |           |           |   | (3.0-4.0 ft): SAND, fine to coarse, subangular to subround, some gravel, small pebbles to large cobbles, subround, trace silt, trace clay; poorly sorted, moist, 10YR 3/3 dark brown. NOTE: Cobbles and concrete at 3'.   | 2" Sch. 40 PVC Casing            |
| 4          |           | 11.6      |   | (4.0-4.5 ft): SAND, fine to medium, subangular to subround, some silt, little gravel, small to medium pebbles, subround, little clay; soft, low plasticity, no dilatancy, poorly sorted, wet, 10YR 3/3 - dark brown. NOTE: Brick, concrete, wood at 4'.                           |                                  |
| 5          |           |           |   | (4.5-6.0 ft): SAND, fine to medium, subangular to subround, some silt, little gravel, granules to small pebbles, subangular to subround; soft, no dilatancy, poorly sorted, wet, 2.5Y 3/1 - very dark gray. NOTE: Slight petroleum-like odor, mild sheen.                         |                                  |
| 6          | 1.58      | 46.2      |   | (6.0-8.0 ft): GRAVEL, granules to small pebbles, subangular to subround, some medium to coarse sand, subangular to subround, trace silt; soft, poorly sorted, wet, 2.5Y 3/1 - very dark gray. NOTE: Slight petroleum-like odor, mild sheen, granules and pebbles consist of slag. |                                  |
| 7          |           |           |   |   |                                  |
| 8          |           |           |   | (8.0-10.0 ft): SAND, medium to coarse, subangular to subround, some silt, little gravel, granules to small pebbles, subangular to subround; soft, no dilatancy, poorly sorted, wet, 2.5Y 3/1 - very dark gray. NOTE: Little slag. Clay lenses 2-3" high plasticity, light gray.   | Zero Sand →                      |
| 9          |           | 0.1       |   |   | 2" 0.01"-Slot Sch. 40 PVC Screen |
| 10         | 3.50      | 0.2       |   | (10.0-11.0 ft): SAND, medium to coarse, subangular to subround and SILT, little gravel, granules, subangular to subround, trace clay; soft, no dilatancy, poorly sorted, wet, 2.5Y 3/1 - very dark gray. NOTE: Trace wood chips.  |                                  |
| 11         |           | 0.2       |   | (11.0-11.5 ft): CLAY, little silt; soft, medium plasticity, moist, 10YR 7/1 - light gray.   |                                  |
| 12         |           | 0.0       |   | (11.5-13.0 ft): CLAY; soft, medium plasticity, moist, 10YR 7/1 - light gray. NOTE: Some oxidation orange coloring.  |                                  |
| 13         | 3.08      | 0.0       |   | (13.0-13.9 ft): CLAY, little silt, trace very fine sand; soft, medium plasticity, moist, 10YR 7/1 - light gray.   |                                  |
| 14         |           |           |  | (13.9-14.0 ft): Partially Weathered Bedrock (Shale); 10BG 6/1 - greenish gray; highly weathered; soft (scratched with fingernail); very intensely fractured (few intact core segments).<br>End Depth: 14.00 ft  |                                  |

Drilling Co.: **Parratt-Wolff, Inc., East Syracuse, NY**

Interval Length: **4.0 ft**

Driller: **Lee Penrod+Lamont Clemons**

First Encountered Water (ft bgs): **▼ 4.00**

Drilling Method: **Geoprobe (GP)**

Static Water Level (ft btoc): **▽ 2.92**

Sampling Method: **Macrocore**

Top of Casing Elevation: **392.95 ft amsl**

Drill Rig: **Geoprobe 7822DT**

Ground Surface Elevation: **393.21 ft amsl**

## Terminology

ft: feet  
bgs: below ground surface  
PID: photoionization detector  
TVOC: organic vapor meter  
ppm: parts per million  
NA: Not Applicable/Not Available  
PVC: Polyvinyl Chloride

## Remarks

Hand cleared 0-4.5 ft bgs

Easting: **742778.96 ft**

Northing: **1123207.93 ft**

Coordinate System: **NAD 1983 StatePlane New York West**