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June 24, 2022

Project 0078000050.04.****

Mr. Michael Squire
Assistant Engineer
New York State Department of Environmental Conservation
625 Broadway
Albany, NY 12233

Subject: Groundwater Monitoring Report—January Through July 2022
National Grid Former Albion MGP Site
Albion, New York
Case #837012

Dear Mr. Squire:

Wood Environment & Infrastructure Solutions, Inc. is submitting the subject report on behalf of our client, National Grid. This report presents the results of monitoring activities conducted during the period from January through July 2022.

Please contact either of the undersigned if you have any questions or require additional information.

Sincerely,
Wood Environment & Infrastructure Solutions, Inc.

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Enclosure

cc: Brian Stearns - National Grid
Steve Stucker - National Grid
Devin Shay - Groundwater & Environmental Services, Inc.



GROUNDWATER MONITORING REPORT JULY THROUGH DECEMBER 2021

National Grid Former Albion MGP Site
Albion, New York

Prepared for:

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Prepared by:

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June 2022

Project No. 0078000050.04.****

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GROUNDWATER MONITORING REPORT

JANUARY THROUGH JUNE 2022

National Grid Former Albion MGP Site Albion, New York

1.0 INTRODUCTION

This report summarizes groundwater monitoring and sampling activities performed by Wood Environment & Infrastructure Solutions, Inc. ("Wood"), on behalf of National Grid Corporation ("National Grid"), during the period from January through June 2022 ("reporting period") at the Former Albion Manufactured Gas Plant (MGP), Site Identification Number 837012, in Albion, New York (the site; Figure 1). Groundwater monitoring and sampling activities were performed in accordance with the *Monitoring and Sampling Plan* (Wood, 2018), as summarized in Table 1.

Activities performed at the site during the reporting period include the following:

- Collection of depth to groundwater measurements and groundwater samples at site monitoring wells; and
- Inspection of the site Engineering Control (i.e., soil cap) and Institutional Controls (i.e., land use).

Groundwater elevation and analytical results for the reporting period are generally consistent with historical data. No damages or changes to land use were observed during the site inspection. Depth to groundwater measurement and sampling procedures are described in Section 2, and groundwater monitoring results are provided in Section 3. A quality assurance/quality control (QA/QC) assessment of the groundwater data is provided in Section 4. Results of the inspection of the site Engineering Control and Institutional Controls are described in Section 5. Project activities planned for the next monitoring period are outlined in Section 6.

1.1 BACKGROUND

The site consists of two adjoining parcels totaling approximately 0.5 acres formerly occupied by a single MGP that is bounded by the New York State Erie Barge Canal to the north, East Bank Street and a commercial property to the south, Ingersoll Street to the east, and a park and commercial property to the west (Figure 2). The western parcel (0.3 acres) is currently



owned by National Grid, which maintains an active electrical substation on the property; previous environmental investigations did not identify environmental conditions requiring remediation. The eastern parcel (0.2 acres), which is currently owned by New York State Electric and Gas Corporation (NYSEG), has been remediated to commercial use and is currently vacant and undeveloped.

Niagara Mohawk Power Corporation (doing business as National Grid) entered an Order of Consent in November 2003 with the NYSDEC to remediate soil and groundwater at the site, which have been impacted by historical MGP operations. The contaminants of concern (COCs) identified at the site, as listed in the Record of Decision (NYSDEC, 2010a) are: benzene, toluene, ethylbenzene, and xylene (collectively referred to as BTEX); polycyclic aromatic hydrocarbons (PAHs) acenaphthene, benzo(a)pyrene, benzo(b)fluoranthene, benzo[k]fluoranthene, chrysene, fluorene, and indeno(1,2,3-cd) pyrene; and cyanide. In 2012, Engineering Controls were constructed at the eastern parcel including remedial excavation of the upper two feet of impacted surficial soil and construction of a soil cap system consisting of 18 inches of clean soil underlain by a demarcation layer to delineate clean soil from historical fill.

In addition to Engineering Controls, Institutional Controls including a site-wide Site Management Plan (SMP) and Environmental Easement are part of the site remedy to control exposure to remaining contamination and to maintain protection of public health and the environment. The *Monitoring and Sampling Plan* will ultimately be incorporated with the site wide SMP, which is currently under development, to conduct post-remediation monitoring to assess the performance and effectiveness of the remedy.

2.0 GROUNDWATER MONITORING

This section describes groundwater monitoring activities performed by Wood during the reporting period. The groundwater monitoring program including wells and their monitoring and sampling frequencies is summarized in Table 1. Figure 2 shows the locations of groundwater monitoring wells at the site. Appendix A includes the logs on which field data were recorded.

2.1 WATER LEVEL MEASUREMENTS

Depth to water measurements at site monitoring wells were measured on April 06, 2022, prior to sampling of the wells (Table 2). Depth to groundwater was measured with an electronic

water level sounder from a surveyed reference point marked on the top of each well casing and measurements were recorded to the nearest 0.01 foot. The depth to water of the Erie Canal, which borders the Site to the north, was also measured from a dedicated, non-surveyed point selected and recorded by field personnel during the April 2022 sampling event. The sounder was decontaminated between measurement locations by rinsing with an anionic detergent/distilled water mixture, followed by a distilled water rinse.

2.2 GROUNDWATER SAMPLING AND ANALYSIS

Groundwater samples were collected on April 06, 2022, in accordance with *Monitoring and Sampling Plan*. Monitoring wells were purged using low-flow sampling techniques prior to sampling using a peristaltic pump. Water quality parameters, including temperature, pH, specific conductance, oxidation-reduction potential, and dissolved oxygen were measured periodically during purging and were recorded on the sampling records. Samples were collected when parameter measurements changed less than 10 percent between three sequential measurements. Sampling records are provided in Appendix A.

Groundwater samples were collected into laboratory-provided sample containers immediately following purging. The sample containers were immediately labeled with the project number, well number, date, time, and analyses requested, stored in an ice cooled chest, and shipped to the analytical laboratory under Wood chain-of-custody procedures.

One blind field duplicate, one trip blank, and one equipment blank were collected for quality control purposes. These quality control samples were stored and delivered to the lab with the primary samples and were analyzed for the same parameters.

Eurofins TestAmerica Laboratories, Inc., of Amherst, New York, analyzed the samples for BTEX using United States Environmental Protection Agency (U.S. EPA) Method 8260C and the U.S. EPA 16-PAH list of polycyclic aromatic hydrocarbons (PAHs) using U.S. EPA Method 8270D. The samples were analyzed for total cyanide by Eurofins TestAmerica of Pittsburgh, PA, using Standard Method SM4500-CN-C/E. Both laboratories are accredited under the National Environmental Laboratory Accreditation Program.

2.3 INVESTIGATION DERIVED WASTE

Groundwater purged from the monitoring wells was stored in a Department of Transportation-approved 55-gallon steel drum pending waste profiling. Following laboratory analysis and

profiling, the investigation derived waste was disposed of at an off-site, permitted facility in accordance with state and federal regulations.

3.0 RESULTS

This section presents the results from the groundwater monitoring activities, including groundwater elevation measurement and analytical testing.

3.1 OCCURRENCE AND MOVEMENT OF GROUNDWATER

Measurements from the monitoring wells were used to evaluate the occurrence and movement of groundwater at the site.

On April 06, 2022, measured groundwater elevations in monitoring wells ranged from 501.89 (MW-9R) to 505.49 feet (MW-1). Depth to water measurements and water level elevations are summarized in Table 2. All elevations referenced are relative to the North American Vertical Datum 1988.

Figure 3 presents the potentiometric surface map for the water levels measured in the monitoring wells in April 2022. The potentiometric surface map indicates that groundwater flow generally remains toward the southeast across the site. The horizontal gradient was approximately 0.021 foot per foot (ft/ft) in April 2022.

The Erie Canal was dry beneath the measuring point during the April 2022 sampling event. The depth to water in the canal will be measured during future events at the same measuring point as previous events.

3.2 GROUNDWATER ANALYTICAL RESULTS

Groundwater samples were collected from six monitoring wells for BTEX, PAH, and total cyanide analysis on April 06, 2022. Groundwater evaluation criteria are the Ambient Water Quality Standards and Guidance Values (Technical & Operational Guidance Series 1.1.1, Division of Water 1998). Groundwater results are compared to the Standard Values (or Guidance Values, where Standard Values are not available) for groundwater as a drinking water source. Copies of laboratory reports are included in Appendix B. Analytical results and evaluation criteria for BTEX, PAHs, and total cyanide are presented in Table 3, Table 4, and Table 5, respectively, and on Figure 4. Compounds that were detected at concentrations exceeding their respective evaluation criteria are summarized below:

- Benzene (MW-5, MW-8R, and MW-10R)
- Ethylbenzene (MW-5 and MW-8R)
- Xylenes (MW-8R)
- Acenaphthene (MW-8R)
- Naphthalene (MW-8R)
- Toluene (MW-8R)
- Cyanide (MW-8R)

Groundwater results from April 2022 are generally lower than those from the recent sampling events. BTEX compounds in well MW-8R were observed at concentrations an order of magnitude lower than those observed in August 2021. While the concentrations in MW-8R have shown significant variability during recent monitoring events, they are within the range of historical concentrations at this well (AMEC Geomatrix, Inc., 2010).

4.0 DATA QUALITY REVIEW

Analytical data (Appendix B) were reviewed by the laboratory and by Wood. Consistent with the DER-10 Section 2.2 (NYSDEC, 2010b), this report meets the submittal requirements for a Category A data deliverable. The data quality review included accuracy and precision assessments for the samples collected in April 2022. Consistent with the Quality Assurance Project Plan included in the Monitoring and Sampling Plan, the data quality review was performed in accordance with the procedures specified in the U.S. EPA National Functional Guidelines for Inorganic Superfund Methods Data Review (U.S. EPA, 2020a) and the U.S. EPA National Functional Guidelines for Organic Superfund Methods Data Review (U.S. EPA, 2020b). Results of the data validation and precision assessment indicate the following:

- Analytical accuracy was evaluated by reviewing laboratory control sample/laboratory control sample duplicate (LCS/LCSD) recoveries and matrix spike/matrix spike duplicate (MS/MSD) recoveries (recoveries of spiked compounds expressed as a percentage of the true concentrations). Surrogate recoveries, holding times, and field and laboratory blank results for samples collected in April 2022 were also used to assess accuracy. No QC issues requiring data qualifiers were identified for the laboratory and field QC samples. Results for several analytes in multiple samples were qualified "J," indicating that the analyte was positively detected in the sample, but that the reported result is approximate because it was detected at a concentration below the reporting limit but above the method detection limit. Fluoranthene and Pyrene results from sample MW-5-040622 were

qualified with a "J-" to indicate a possible low bias due to surrogate recovery being outside QC limits. Non-detections for this sample were qualified as "UJ" for the following parameters, indicating that the compound was not detected but the reporting limit is considered estimated: Benzo[a]anthracene, Benzo[a]pyrene, Benzo[b]fluoranthene, Benzo[g,h,i]perylene, Benzo[k]fluoranthene, Chrysene, Dibenzo(a,h)anthracene, Indeno[1,2,3-cd]pyrene.

- Data precision was evaluated by comparing analytical results from duplicate pairs and evaluating the calculated RPDs between primary and blind field duplicate samples. The blind field duplicate sample collected from MW-6 had no detections; therefore, RPD's were not able to be calculated on the April 2022 data.

Based upon the data quality review, the April 2022 results are considered valid and usable. The data are acceptable and can be used for decision-making purposes. Data completeness (the number of successful analyses relative to the number of requested analyses) was 100 percent for samples collected in April 2022.

5.0 SITE INSPECTION

During the semiannual groundwater sampling event, Wood field personnel performed a visual assessment of the soil cap in order to evaluate changes due to erosion, land use, construction, or other factors that may indicate a physical change in the soil cap. Observations were recorded on a "Soil Cap Inspection Form" (Appendix C).

The visual inspections did not indicate any damage to the physical integrity of the soil cap, the need for any repairs or maintenance, or changes to the land use.

6.0 PLANNED ACTIVITIES

The following activities are planned for the monitoring period of July to December 2022:

- The second 2022 semiannual groundwater monitoring event, which will include collection of depth to groundwater measurements and groundwater samples in accordance with the NYSDEC-approved groundwater monitoring program, will be performed.
- The second 2022 semiannual groundwater monitoring report will be submitted to the NYSDEC following the completion of groundwater monitoring and evaluation activities.

7.0 REFERENCES

AMEC Geomatrix, Inc., 2010. Feasibility Study Report, Albion Former Manufactured Gas Plant Site, Site No: 8-37-012, Orleans County, Albion, New York. February.

Division of Water, 1998. Technical and Operational Guidance Series (TOGS) 1.1.1. June.
Available at https://www.dec.ny.gov/docs/water_pdf/togs111.pdf

New York State Department of Environmental Conservation (NYSDEC), 2010a. Record of Decision. NM-Albion MGP State Superfund Project, Albion, Orleans County Site No.:837013. March.

NYSDEC, 2010b. DER-10: Technical Guidance for Site Investigation and Remediation. May 3.
Available at https://www.dec.ny.gov/docs/remediation_hudson_pdf/der10.pdf

United States Environmental Protection Agency (U.S. EPA), 2020a. National Functional Guidelines for Inorganic Superfund Methods Data Review: OLEM 9240.1-66, EPA 540-R-20-006, November.

U.S. EPA, 2020b. National Functional Guidelines for Organic Superfund Methods Data Review: OLEM 9240.0-51, EPA 540-R-20-005, November.

Wood Environment & Infrastructure Solutions, Inc., 2018. Monitoring and Sampling Plan, National Grid Former Albion MGP Site, Albion, New York, December 21.

TABLE 1

GROUNDWATER MONITORING PROGRAM

Former Albion MGP Site

Albion, New York

Well ID	Water Level Monitoring Schedule	Water Quality Monitoring Schedule	Laboratory Analysis
MW-1	Semiannual	Semiannual	BTEX by U.S. EPA 8260C, PAHs by U.S. EPA 8270D, Total Cyanide by SM4500-CN-C/E
MW-5			
MW-6			
MW-8R			
MW-9R			
MW-10R			

Abbreviations

BTEX = benzene, toluene, ethylbenzene, xylenes

PAHs = polycyclic aromatic hydrocarbons

U.S. EPA = United States Environmental Protection Agency

TABLE 2

GROUNDWATER ELEVATIONS, APRIL 2022

Former Albion MGP Site

Albion, New York

Well ID	Well Location	Date Measured	Measuring Point Elevation (NAVD 88)	Depth Below Measuring Point (feet)	Groundwater Elevation (NAVD 88)
MW-1	Up-gradient	11/19/2019	515.04	7.91	507.13
		9/22/2020	515.04	6.74	508.30
		4/12/2021	515.04	9.76	505.28
		8/18/2021	515.04	6.72	508.32
		4/6/2022	515.04	9.55	505.49
MW-5	On-site	11/19/2019	513.14	7.92	505.22
		9/22/2020	513.14	7.55	505.59
		4/12/2021	513.14	9.22	503.92
		8/18/2021	513.14	7.31	505.83
		4/6/2022	513.14	9.2	503.94
MW-6	On-site	11/20/2019	510.74	5.46	505.28
		9/22/2020	510.74	6.39	504.35
		4/12/2021	510.74	5.94	504.80
		8/18/2021	510.74	5.86	504.88
		4/6/2022	510.74	6.2	504.54
MW-8R	On-site	11/20/2019	515.53	11.84	503.69
		9/22/2020	515.53	11.67	503.86
		4/12/2021	515.53	12.73	502.80
		8/18/2021	515.53	11.50	504.03
		4/6/2022	515.53	12.25	503.28
MW-9R	Down-gradient	11/20/2019	514.70	12.89	501.81
		9/22/2020	514.70	13.93	500.77
		4/12/2021	514.70	13.15	501.55
		8/18/2021	514.70	13.56	501.14
		4/6/2022	514.70	12.81	501.89
MW-10R	Down-gradient	11/19/2019	515.81	12.92	502.89
		9/22/2020	515.81	12.75	503.06
		4/12/2021	515.81	13.94	501.87
		8/18/2021	515.81	12.77	503.04
		4/6/2022	515.81	13.38	502.43

TABLE 2

GROUNDWATER ELEVATIONS, APRIL 2022

Former Albion MGP Site

Albion, New York

Note

1. Wells were surveyed by Costich Engineering, Land Surveying & Landscape Architecture D.P.C. (Costich Engineering), a New York-licensed land surveyor in June 2018. Monitoring well MW-9R was surveyed on November 11, 2019 by Costich Engineering. Water elevations are relative to the North American Vertical Datum 1988 (NAVD 88).

Abbreviation

NAVD 88 = North American Vertical Datum of 1988

TABLE 3
GROUNDWATER ANALYTICAL RESULTS - VOLATILE ORGANIC COMPOUNDS ^{1,2}
APRIL 2022
Former Albion MGP Site
Albion, New York

Results in micrograms per liter (µg/L)

Well ID	Sample ID	Sample Date	Benzene	Toluene	Ethylbenzene	m,p-Xylenes	o-Xylene	Xylenes, Total	Total BTEX
MW-1	MW-1-111919	11/19/2019	<1.0 ³	<1.0	<1.0	<2.0	<1.0	<2.0	<2.0
	MW-1-20200922	9/22/2020	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<2.0
	MW-1-041221	4/12/2021	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<2.0
	MW-1-081821	8/18/2021	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<2.0
	MW-1-040622	4/6/2022	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<2.0
MW-5	MW-5-111919/DUP	11/19/2019	23 / 23	4.0 / 4.1	13 / 12	9.1 / 8.6	12 / 11	21 / 20	61 / 59
	MW-5-20200922/DUP	9/22/2020	42 / 42	4.2 / 4.5	8.7 / 9.4	3.4 / 3.4	5.3 / 5.7	8.7 / 9.1	64 / 65
	MW-5-041221/DUP	4/12/2021	28 / 28	3.2 / 2.8	11 / 10	6.4 / 5.6	8.4 / 8.1	15 / 14	57 / 55
	MW-5-081821/DUP	8/18/2021	50 / 52	4.1 / 4.0	10 / 10	2.6 J / 2.4	3.3 / 3.2	5.9 / 5.6	70 / 72
	MW-5-040622	4/6/2022	14	1.0	5.2	1.2	3.3	4.5	25
MW-6	MW-6-112019	11/20/2019	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<2.0
	MW-6-20200923	9/23/2020	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<2.0
	MW-6-041221	4/12/2021	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<2.0
	MW-6-081821	8/18/2021	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<2.0
	MW-6-040622/DUP	4/6/2022	<1.0 / <1.0	<1.0 / <1.0	<1.0 / <1.0	<2.0 / <2.0	<1.0 / <1.0	<2.0 / <2.0	<2.0 / <2.0
MW-8R	MW-8R-112019	11/20/2019	49	2.6	3.7	12	5.7	18	73
	MW-8R-20200923	9/23/2020	4,900	160	380	1,600	520	2,100	7,600
	MW-8R-041321	4/13/2021	2,000	45 J	130	470	180	650	2,800
	MW-8R-081821	8/18/2021	4,700	210	380	1,300	510	1,800	7,100
	MW-8R-040622	4/6/2022	290	28	53	100	45	150	520
MW-9R	MW-9R-112019	11/20/2019	<1.0	0.57 J	<1.0	<2.0	<1.0	<2.0	<2.0
	MW-9R-20200923	9/23/2020	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<2.0
	MW-9R-041321	4/13/2021	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<2.0
	MW-9R-081821	8/18/2021	<4.0	<4.0	<4.0	<8.0	<4.0	<8.0	<8.0
	MW-9R-040622	4/6/2022	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<2.0

TABLE 3
GROUNDWATER ANALYTICAL RESULTS - VOLATILE ORGANIC COMPOUNDS^{1,2}
APRIL 2022
Former Albion MGP Site
Albion, New York

Results in micrograms per liter (µg/L)

Well ID	Sample ID	Sample Date	Benzene	Toluene	Ethylbenzene	m,p-Xylenes	o-Xylene	Xylenes, Total	Total BTEX
MW-10R	MW-10-111919	11/19/2019	14	<1.0	<1.0	<2.0	<1.0	<2.0	14
	MW-10R-20200922	9/22/2020	24	<1.0	<1.0	0.95 J	<1.0	0.95 J	25
	MW-10R-041221	4/12/2021	23	<1.0	<1.0	<2.0	<1.0	<2.0	23
	MW-10R-081821	8/18/2021	20	<2.0	<2.0	<4.0	<2.0	<4.0	20
	MW-10R-040622	4/6/2022	4.1	<1.0	<1.0	<2.0	<1.0	<2.0	4.1
Ambient Water Quality Standards and Guidance Values ⁴			1	5	5	5	5	5	--

Notes

1. Only detected compounds are presented. Detections are shown in **bold**. Highlighted cells indicate the concentration exceeds the respective screening criteria.
2. Samples analyzed for VOCs in accordance with U.S. EPA Methods 8260B or 8260C by Eurofins TestAmerica of Buffalo, New York.
3. "<" indicates constituent was not detected at a concentration equal to or greater than the laboratory reporting limit shown.
4. Division of Water 1998. Technical and Operational Guidance Series 1.1.1. June. Groundwater Standard Values for groundwater as a drinking source are shown where available; Guidance Values are shown where no Standard Value is available. Available at:
https://www.dec.ny.gov/docs/water_pdf/togs111.pdf

Abbreviations

-- = not applicable
BTEX = benzene, toluene, ethylbenzene, and xylenes
DUP = field duplicate sample
J = the analyte detected at a level less than the reporting limit and greater than or equal to the method detection limit
U.S. EPA = United States Environmental Protection Agency
VOCs = volatile organic compounds

TABLE 4
GROUNDWATER ANALYTICAL RESULTS - POLYCYCLIC AROMATIC HYDROCARBONS ^{1,2}
APRIL 2022
Former Albion MGP Site
Albion, New York

Results in micrograms per liter (µg/L)																		
Well ID	Sample ID	Sample Date	Acenaphthene	Acenaphthylene	Anthracene	Benzo[a]anthracene	Benzo[a]pyrene	Benzo[b]fluoranthene	Benzo[k]fluoranthene	Benzo[g,h,i]perylene	Chrysene	Dibenz[a,h]anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Phenanthrene	Pyrene	Naphthalene
MW-1	MW-1-111919	11/19/2019	<5.0 ³	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	MW-1-20200922	9/22/2020	24 J	20 J	5.8 J	<25	<25	<25	<25	<25	<25	<25	6.4 J	26	<25	32	4.2 J	14 J
	MW-1-041221	4/12/2021	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	MW-1-081821	8/18/2021	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-5	MW-1-040622	4/6/2022	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	MW-5-111919/DUP	11/19/2019	34 / 38	33 / 36	6.2 / 6.4 J	<5.0 / <25	<5.0 / <25	<5.0 / <25	<5.0 / <25	<5.0 / <25	<5.0 / <25	<5.0 / <25	5.6 / 5.4 J	45 / 46	<5.0 / <25	23 / 23 J	3.1 J / 3.5 J	24 / 25
	MW-5-20200922/DUP	9/22/2020	22 J / 22 J	19 J / 19 J	6.0 J / 6.0 J	<25 / <25	<25 / <25	<25 / <25	<25 / <25	<25 / <25	<25 / <25	<25 / <25	6.2 J / 6.2 J	24 J / 24 J	<25 / <25	29 J+ / 29 J+	4.0 J / 4.0 J	13 J / 13 J
	MW-5-041221/DUP	4/12/2021	16 J / 14 J	21 J / 17 J	3.7 J / 2.8 J	<25 / <25	<25 / <25	<25 / <25	<25 / <25	<25 / <25	<25 / <25	<25 / <25	3.9 J / 3.5 J	20 J / 17 J	<25 / <25	12 J / 6.7 J	2.2 J / 2.2 J	41 / 31
MW-6	MW-5-081821/DUP	8/18/2021	15 / 18	8.9 / 10	3.9 J / 3.9 J	<5.0 / <5.0	<5.0 / <5.0	<5.0 / <5.0	<5.0 / <5.0	<5.0 / <5.0	<5.0 / <5.0	<5.0 / <5.0	4.8 J / 5.3	15 / 17	<5.0 / <5.0	10 / 7.7	2.7 J / 3.0 J	5.6 / 5.3
	MW-5-040622	4/6/2022	7.1	7.6	0.69	<5.0 UJ	<5.0 UJ	<5.0 UJ	<5.0 UJ	<5.0 UJ	<5.0 UJ	<5.0 UJ	2.0 J-	7.3	<5.0 UJ	<5.0	1.1 J-	1.9
	MW-6-112019	11/20/2019	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	MW-6-20200923	9/23/2020	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-8R	MW-6-041221	4/12/2021	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	MW-6-081821	8/18/2021	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	MW-6-040622/DUP	4/6/2022	<5.0 / <5.0	<5.0 / <5.0	<5.0 / <5.0	<5.0 / <5.0	<5.0 / <5.0	<5.0 / <5.0	<5.0 / <5.0	<5.0 / <5.0	<5.0 / <5.0	<5.0 / <5.0	<5.0 / <5.0	<5.0 / <5.0	<5.0 / <5.0	<5.0 / <5.0	<5.0 / <5.0	<5.0 / <5.0
	MW-8R-112019	11/20/2019	57	21 J	<25	<25	<25	<25	<25	<25	<25	<25	4.2 J	34	<25	33	2.1 J	900
MW-9R	MW-8R-20200923	9/23/2020	95 J	8.1 J	7.6 J	<100	<100	<100	<100	<100	<100	<100	<100	41 J	<100	<100 U	<100	2,300
	MW-8R-041321	4/13/2021	65 J	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	860
	MW-8R-081821	8/18/2021	64 J	23 J	<250	<250	<250	<250	<250	<250	<250	<250	<250	42 J	<250	32 J	<250	1,900
	MW-8R-040622	4/6/2022	33	7.2	3.2	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	2.5	17	<5.0	12	1.4	350
MW-10R	MW-9R-112019	11/20/2019	6.1 J+	0.38 J+	0.65 J+	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	3.0 J+	<5.0	2.8 J+	<5.0	50
	MW-9R-20200923	9/23/2020	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
	MW-9R-041321	4/13/2021	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
	MW-9R-081821	8/18/2021	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-10R	MW-9R-040622	4/6/2022	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	MW-10-111919	11/19/2019	0.86 J	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	0.99 J
	MW-10R-20200922	9/22/2020	1.0 J+	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0 U	<5.0	3.5 J+
	MW-10R-041221	4/12/2021	0.73 J	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	3.4 J
MW-10R	MW-10R-081821	8/18/2021	2.1 J	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	8.9
	MW-10R-040622	4/6/2022	0.52	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	1.3
Ambient Water Quality Standards and Guidance Values ⁴			20	--	50	0.002	0.002	0.002	0.002	--	0.002	--	50	50	0.002	50	50	10

Notes

- Only detected compounds are presented. Detections are shown in **bold**. Highlighted cells indicate the concentration exceeds the respective screening criteria.
- Samples analyzed for PAHs in accordance with U.S. EPA Method 8270D by Eurofins TestAmerica of Buffalo, New York.
- "<" indicates constituent was not detected at a concentration equal to or greater than the laboratory reporting limit shown.
- Division of Water 1998. Technical and Operational Guidance Series 1.1.1. June. Groundwater Standard Values for groundwater as a drinking source are shown where available; Guidance Values are shown where no Standard Value is available.
Available at https://www.dec.ny.gov/docs/water_pdf/togs111.pdf

Abbreviations

-- = not applicable

DUP = field duplicate sample

J = the analyte detected at a concentration less than the reporting limit and greater than or equal to the method detection limit

J+ = the reported concentration may be estimated high

PAH = polycyclic aromatic hydrocarbons

UJ = The analyte was not detected but the reporting limit shown is considered estimated.

U.S. EPA = United States Environmental Protection Agency

TABLE 5

GROUNDWATER ANALYTICAL RESULTS - TOTAL CYANIDE ^{1,2}

APRIL 2022

Former Albion MGP Site

Albion, New York

Results in milligrams per liter (mg/L)

Well ID	Sample ID	Sample Date	Cyanide, Total
MW-1	MW-1-111919	11/19/2019	0.098
	MW-1-20200922	9/22/2020	0.11
	MW-1-041221	4/12/2021	0.10
	MW-1-081821	8/18/2021	0.10
	MW-1-040622	4/6/2022	0.14
MW-5	MW-5-111919/DUP	11/19/2019	0.16 / 0.16
	MW-5-20200922/DUP	9/22/2020	0.21 / 0.22
	MW-5-041221/DUP	4/12/2021	0.18 / 0.17
	MW-5-081821/DUP	8/18/2021	0.21 / 0.22
	MW-5-040622	4/6/2022	0.16
MW-6	MW-6-112019	11/20/2019	0.041
	MW-6-20200923	9/23/2020	0.068
	MW-6-041221	4/12/2021	0.013
	MW-6-081821	8/18/2021	0.051
	MW-6-040622/DUP	4/6/2022	<0.010 ³ / <0.010
MW-8R	MW-8R-112019	11/20/2019	0.21
	MW-8R-20200923	9/23/2020	0.15
	MW-8R-041321	4/13/2021	0.17
	MW-8R-081821	8/18/2021	0.19
	MW-8R-040622	4/6/2022	0.29
MW-9R	MW-9R-112019	11/20/2019	0.054
	MW-9R-20200923	9/23/2020	0.080
	MW-9R-041321	4/13/2021	0.096
	MW-9R-081821	8/18/2021	0.070
	MW-9R-040622	4/6/2022	0.095
MW-10R	MW-10-111919	11/19/2019	0.010
	MW-10R-20200922	9/22/2020	0.030
	MW-10R-041221	4/12/2021	0.024
	MW-10R-081821	8/18/2021	0.027
	MW-10R-040622	4/6/2022	<0.010
Ambient Water Quality Standards and Guidance Values ⁴			0.2

TABLE 5

GROUNDWATER ANALYTICAL RESULTS - TOTAL CYANIDE ^{1,2}
APRIL 2022

Former Albion MGP Site
 Albion, New York

Notes

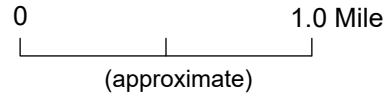
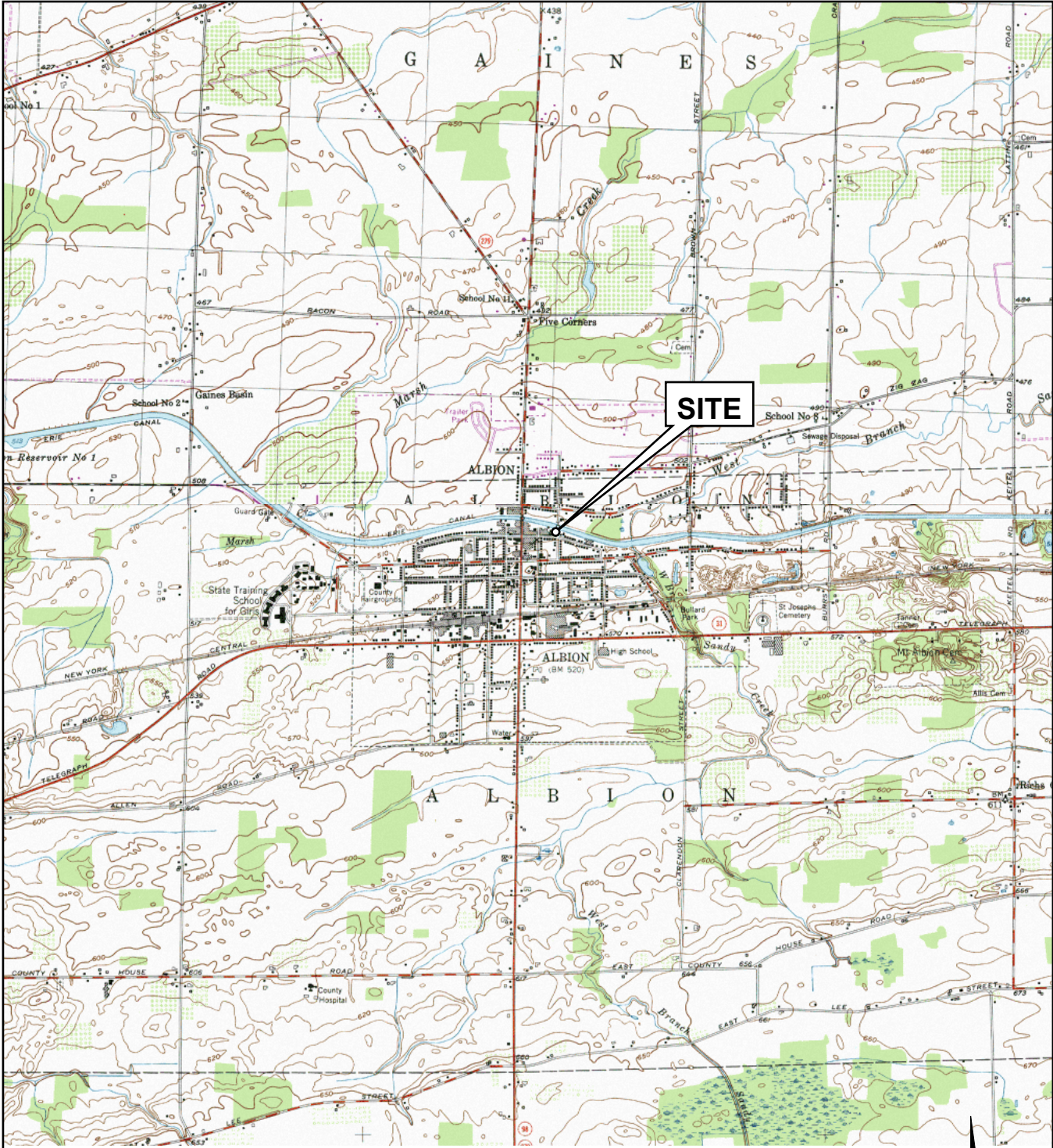
1. Only detected compounds are presented. Detections are shown in **bold**. Highlighted cells indicate the concentration exceeds the respective screening criteria.
2. Samples analyzed Total Cyanide in accordance with Standard Method 4500-CN-C/E by Eurofins TestAmerica of North Canton, Ohio.
3. "<" indicates constituent was not detected at a concentration equal to or greater than the laboratory reporting limit shown.
4. Division of Water 1998. Technical and Operational Guidance Series 1.1.1. June. Groundwater Standard Value for groundwater as a drinking source is shown. Available at https://www.dec.ny.gov/docs/water_pdf/togs111.pdf

Abbreviation

DUP = field duplicate

FIGURES

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SITE VICINITY MAP Albion Former MGP Site Albion, New York		
wood.	By: KLU	Proj. No.0078000050.04
	Date: 05/04/2022	Figure 1

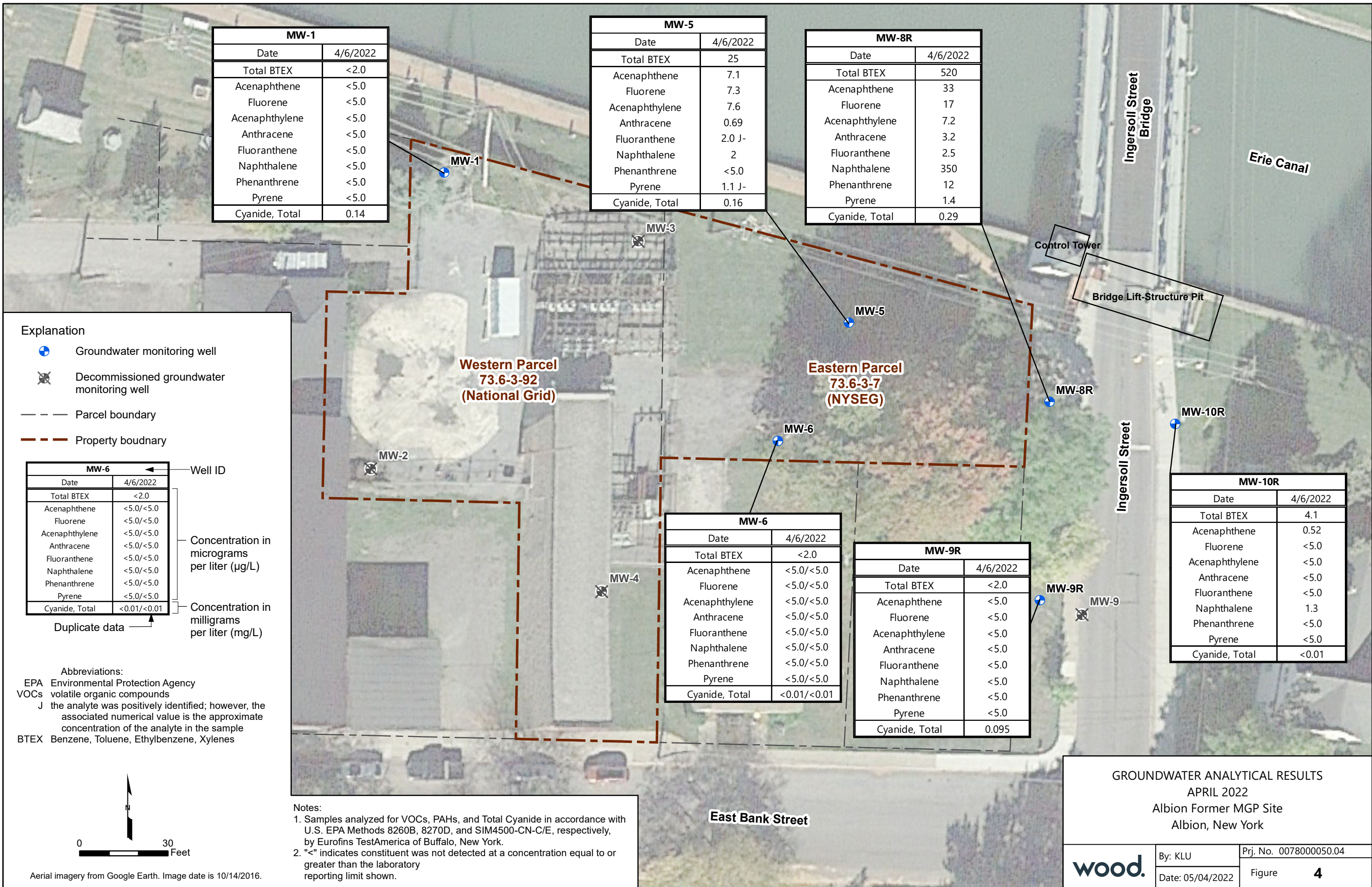
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APPENDIX A

Groundwater Sampling Records

wood.

MONITORING WELL
SAMPLE COLLECTION LOG

Project Name:

National Grid – Former MGP Site No. 837012, Albion, New York

Project/Task #:

0078000050.03

Sampled By:

A. Lyons

Date:

4/6/22

Well Number/ID: MW-6	Sample ID: MW-6-040622	Duplicate ID: MW-50-040622
Method of Purging: Low-Flow	Method of Sampling: Low-Flow	Intake Depth: 14.5' bgs 13.5'

Field Equipment

Equipment	Model	Serial #/Rental ID	Date Received/Service	Date Calibrated
Multi-Probe	Acirica U-52	X80C664L	4/5/22	4/6/22
Turbidimeter	on Acirica			

Casing Purge Volume Calculations

A. Depth to Water = 6.13 ft.	D. Water Column (B-A) = 9.16 ft.	Depth to Water After Sampling = 6.37 ft.
B. Well Total Depth = 15.29 ft.	E. 1 Well Volume ($C^2 \times 0.0408 \times D$) = 1.49 gal.	Actual Volume Purged (from below) = 4400 gal/ml.
C. Well Diameter = 2 in.	F. 3 Well Volumes ($3 \times E$) = 4.47 gal.	(If applicable, see pumping system volume calculation below)

Pump and Flow Cell Volume	$V_p =$ N/A	ml	Pumping System Volume Calculation	
Tubing Inside Diameter	$D =$ N/A	in.	Pumping System Volume (V_s)	
Tubing Length	$L =$ N/A	in.	$V_s = V_p + \pi \times D^2 / 4 \times L \times 16.39 \text{ ml/in}^3$	
Conversion from Inches ³ to ml	$1 \text{ in}^3 =$ 16.39	ml	$V_s = (\quad) + (3.1415 \times \quad^2 / 4) \times (\quad) \times 16.39$	

Purging Data			Water Quality Parameters (within range for 3 consecutive readings if low-flow sampling)						
Time (24 hr)	Purge Volume <input type="checkbox"/> gal <input checked="" type="checkbox"/> ml	Flow Rate <input type="checkbox"/> gpm <input checked="" type="checkbox"/> ml/min	Temp (°C)	Specific Conductance (µS/cm)	Dissolved Oxygen (mg/L)	pH	Oxidation Reduction Potential (mV)	Turbidity (NTU)	Remarks
			Stabilization ⁽¹⁾ :	± 3%	± 0.2 mg/L	± 0.2	± 20 mV	<10 NTU	DTW
1425	Initial		Begin purge						6.13
1430	550	110	16.57	0.333	1.74	7.18	39	4.5	6.25
1435	1100		13.07	0.705	0.08	7.48	36	3.9	6.30
1440	1650		12.04	0.704	0.00	7.22	41	3.3	6.37
1445	2200		11.67	0.706	0.00	7.04	43	4.3	6.37
1450	2750		11.61	0.708	0.00	6.93	43	3.0	6.37
1455	3300		11.70	0.709	0.00	6.89	43	3.2	6.37
1500	3850		11.63	0.711	0.00	6.85	42	3.0	6.37
1505	4400		Sampled mw-6-040622 and mw-50-040622						

Remarks: TOC PID = N/A Sample odorless, Clear

Purge pumping system volume before recording parameters on dedicated pumps only.

(1) Based on EPA low-flow sampling guidelines, ASTM D 6771-02, and research validated Best Practices (see SAP for details).

Signature: 

Checked By:

wood.

MONITORING WELL
SAMPLE COLLECTION LOG

Project Name:

National Grid – Former MGP Site No. 837012, Albion, New York

Project/Task #:

0078000050.03

Sampled By:

A. Lyons

Date:

4/6/22

Well Number/ID: MW-5

Sample ID: MW-5-040622

Duplicate ID: N/A

Method of Purging:
Low-FlowMethod of Sampling:
Low-FlowIntake Depth: 18.5' bgs
14.5'

Field Equipment

Equipment	Model	Serial #/Rental ID	Date Received/Serviced	Date Calibrated
Multi-Probe	Horiba U-52	X8DCG64L	4/5/22	4/6/22
Turbidimeter	on Horiba			

Casing Purge Volume Calculations

A. Depth to Water = 9.21 ft.	D. Water Column (B-A) = 7.29 ft.	Depth to Water After Sampling = 10.25 ft.
B. Well Total Depth = 16.52 ft.	E. 1 Well Volume ($C^2 \times 0.0408 \times D$) = 1.18 gal.	Actual Volume Purged (from below) = 5,750 gal/ml.
C. Well Diameter = 2 in.	F. 3 Well Volumes ($3 \times E$) = 3.54 gal.	(If applicable, see pumping system volume calculation below)

Pump and Flow Cell Volume	$V_p =$ N/A	ml	Pumping System Volume Calculation Pumping System Volume (V_s) $V_s = V_p + \pi \times D^2 / 4 \times L \times 16.39 \text{ ml/in}^3$ $V_s = (\quad) + (3.1415 \times \quad^2 / 4) \times (\quad) \times 16.39$	
Tubing Inside Diameter	$D =$ N/A	in.		
Tubing Length	$L =$ N/A	in.		
Conversion from Inches ³ to ml	$1 \text{ in}^3 =$ 16.39	ml		

Purging Data			Water Quality Parameters (within range for 3 consecutive readings if low-flow sampling)						
Time (24 hr)	Purge Volume <input type="checkbox"/> gal <input checked="" type="checkbox"/> ml	Flow Rate <input type="checkbox"/> gpm <input checked="" type="checkbox"/> ml/min	Temp (°C)	Specific Conductance (µS/cm)	Dissolved Oxygen (mg/L)	pH	Oxidation Reduction Potential (mV)	Turbidity (NTU)	Remarks
			Stabilization ⁽¹⁾ :	± 3%	± 0.2 mg/L	± 0.2	± 20 mV	<10 NTU	DTW
1320	Initial	Begin purge							9.21
1325	575	115	11.18	1.14	0.17	7.28	91	6.2	9.75
1330	1,150		10.95	1.10	0.00	7.12	67	7.5	10.00
1335	1,725		11.09	1.09	0.00	7.01	55	5.3	10.05
1340	2,300		11.29	1.08	0.00	6.95	41	3.6	10.05
1345	2,875		11.50	1.07	0.00	6.92	25	3.3	10.09
1350	3,450		11.53	1.07	0.00	6.90	10	2.5	10.15
1355	4,025		11.35	1.06	0.00	6.89	-4	1.5	10.15
1400	4,600		11.31	1.06	0.00	6.89	-15	1.3	10.19

Remarks: TOC PID = 1/1A

Purge pumping system volume before recording parameters on dedicated pumps only.

⁽¹⁾ Based on EPA low-flow sampling guidelines, ASTM D 6771-02, and research validated Best Practices (see SAP for details).

Signature:

Checked By:

Purging/Sampling Date: 4/6/22

Well Number/ID: ~~AW-6~~ MW-5

ADDITIONAL FIELD PARAMETER COLLECTION LOG for MICRO-PURGE SAMPLING
(continued from frontside)

[illegible]**Remarks:**

Sample clear, has odor

(1) Based on EPA low-flow sampling guidelines, ASTM D 6771-02, and research validated Best Practices (see SAP for details).

wood.

**MONITORING WELL
SAMPLE COLLECTION LOG**

Project Name:

National Grid – Former MGP Site No. 837012, Albion, New York

Project/Task #:

0078000050.03

Sampled By:

A. Lyons

Date:

4/6/22

Well Number/ID: MW-9R

Sample ID: MW-9R- 040622

Duplicate ID: N/A

Method of Purging:
Low-Flow

Method of Sampling:
Low-Flow

Intake Depth: 12' bgs
15' (changed due to low PFW)

Field Equipment

Equipment	Model	Serial #/Rental ID	Date Received/Serviced	Date Calibrated
Multi-Probe	Horiba U-52	X8DCG64L	4/5/22	4/6/22
Turbidimeter	on Horiba			

Casing Purge Volume Calculations

A. Depth to Water = 12.81 ft.	D. Water Column (B-A) = 4.39 ft.	Depth to Water After Sampling = 15.41 ft.
B. Well Total Depth = 17.20 ft.	E. 1 Well Volume ($C^2 \times 0.0408 \times D$) = 0.71 gal.	Actual Volume Purged (from below) = 12.125 gal/mpl.
C. Well Diameter = 2 in.	F. 3 Well Volumes ($3 \times E$) = 2.14 gal.	(If applicable, see pumping system volume calculation below)

Pump and Flow Cell Volume	$V_p =$ N/A	ml	Pumping System Volume Calculation	
Tubing Inside Diameter	$D =$ N/A	in.	Pumping System Volume (V_s)	
Tubing Length	$L =$ N/A	in.	$V_s = V_p + \pi \times D^2 / 4 \times L \times 16.39 \text{ ml/in}^3$	
Conversion from Inches ³ to ml	$1 \text{ in}^3 =$ 16.39	ml	$V_s = (\quad) + (3.1415 \times \quad^2 / 4) \times (\quad) \times 16.39$	

Purging Data			Water Quality Parameters (within range for 3 consecutive readings if low-flow sampling)						
Time (24 hr)	Purge Volume <input type="checkbox"/> gal <input checked="" type="checkbox"/> ml	Flow Rate <input type="checkbox"/> gpm <input checked="" type="checkbox"/> ml/min	Temp (°C)	Specific Conductance ($\mu\text{S/cm}$)	Dissolved Oxygen (mg/L)	pH	Oxidation Reduction Potential (mV)	Turbidity (NTU)	Remarks
			Stabilization ⁽¹⁾ :	$\pm 3\%$	$\pm 0.2 \text{ mg/L}$	± 0.2	$\pm 20 \text{ mV}$	$<10 \text{ NTU}$	
1115	Initial	Initial							12.81
1120	625	125	9.83	2.15	9.61	5.84	239	1.7	13.15
1125	1,125	100	9.46	2.22	8.20	6.60	210	1.4	13.39
1130	1,625	100	9.93	2.19	7.38	6.80	197	1.5	13.50
1135	2,125	100	9.67	2.03	6.97	6.96	183	1.1	13.59
1140	2,625	100	9.64	1.87	6.36	7.08	173	1.0	13.70
1145	3,125	100	9.77	1.83	6.08	7.12	161	0.9	13.80
1150	3,625	100	9.83	1.79	5.37	7.10	153	0.9	13.90
1155	4,125	100	10.17	4.75 2.26	4.95	7.03	146	1.4	14.01

Remarks: TOC PID = N/A

Purge pumping system volume before recording parameters on dedicated pumps only.

(1) Based on EPA low-flow sampling guidelines, ASTM D 6771-02, and research validated Best Practices (see SAP for details).

Signature:

[Signature]

Checked By:

Purging/Sampling Date: 4/6/22

Well Number/ID: MW-9R

ADDITIONAL FIELD PARAMETER COLLECTION LOG for MICRO-PURGE SAMPLING
(continued from frontside)

[illegible]**Remarks:**

→ Simple clear, orderless

(1) Based on EPA low-flow sampling guidelines, ASTM D 6771-02, and research validated Best Practices (see SAP for details).

wood.

MONITORING WELL
SAMPLE COLLECTION LOG

Project Name:

National Grid – Former MGP Site No. 837012, Albion, New York

Project/Task #:

0078000050.03

Sampled By:

JCH

Date:

4-6-22

Well Number/ID: MW-1	Sample ID: MW-1-046622	Duplicate ID: N/A
Method of Purging: Low-Flow	Method of Sampling: Low-Flow	Intake Depth: 13' bgs

Field Equipment

Equipment	Model	Serial #/Rental ID	Date Received/Service	Date Calibrated
Multi-Probe	Horiba U-52	WCR9066V	4/5/22	4/6/22
Turbidimeter	in Horiba			

Casing Purge Volume Calculations

A. Depth to Water = 9.55 ft.	D. Water Column (B-A) = 10.53 ft.	Depth to Water After Sampling = 13.35 ft.
B. Well Total Depth = 20.08 ft.	E. 1 Well Volume ($C^2 \times 0.0408 \times D$) = 4.21 gal.	Actual Volume Purged (from below) = 6250 gal/ml.
C. Well Diameter = 2 in.	F. 3 Well Volumes ($3 \times E$) = 5.15 gal.	(If applicable, see pumping system volume calculation below)

Pump and Flow Cell Volume	$V_p =$ N/A	ml	Pumping System Volume Calculation	
Tubing Inside Diameter	$D =$ N/A	in.	Pumping System Volume (V_s)	
Tubing Length	$L =$ N/A	in.	$V_s = V_p + \pi \times D^2 / 4 \times L \times 16.39 \text{ ml/in}^3$	
Conversion from Inches ³ to ml	$1 \text{ in}^3 =$ 16.39	ml	$V_s = (\quad) + (3.1415 \times \quad^2 / 4) \times (\quad) \times 16.39$	

Purging Data			Water Quality Parameters (within range for 3 consecutive readings if low-flow sampling)						
Time (24 hr)	Purge Volume <input type="checkbox"/> gal <input checked="" type="checkbox"/> ml	Flow Rate <input type="checkbox"/> gpm <input checked="" type="checkbox"/> ml/min	Temp (°C)	Specific Conductance (µS/cm)	Dissolved Oxygen (mg/L)	pH	Oxidation Reduction Potential (mV)	Turbidity (NTU)	Remarks
			Stabilization ⁽¹⁾ :	± 3%	± 0.2 mg/L	± 0.2	± 20 mV	<10 NTU	PTW . 3
1120	Initial	175	9.61	0.800	1.46	6.93	274	62.3	8.90
1125	875	125	9.58	0.802	0.84	6.99	286	29.0	11.44
1130	1500	125	9.56	0.807	0.49	6.92	288	22.7	12.66
1135	2125	100	10.15	0.821	0.46	6.91	289	16.8	11.78
1140	2625	100	10.93	0.825	0.48	6.89	285	9.5	11.59
1145	3125	125	11.50	0.827	0.46	7.14	268	8.0	11.49
1150	3750	125	11.37	0.829	0.38	7.19	267	6.1	11.44
1155	4375	125	11.18	0.829	0.35	7.23	268	4.5	11.39
1200	5000	125	11.03	0.825	0.31	7.25	271	4.5	11.37

Remarks: TOC PID =

PTW = 8.90, 11.44, Clear with sediment, no odor

Purge pumping system volume before recording parameters on dedicated pumps only.

⁽¹⁾ Based on EPA low-flow sampling guidelines, ASTM D 6771-02, and research validated Best Practices (see SAP for details).

Signature:

Josh C. Hays

Checked By:

Purging/Sampling Date: 4-6-22

Well Number/ID: MW-1-040622

ADDITIONAL FIELD PARAMETER COLLECTION LOG for MICRO-PURGE SAMPLING
(continued from frontside)

[illegible]**Remarks:**

(1) Based on EPA low-flow sampling guidelines, ASTM D 6771-02, and research validated Best Practices (see SAP for details).

wood.

**MONITORING WELL
SAMPLE COLLECTION LOG**

Project Name:

National Grid – Former MGP Site No. 837012, Albion, New York

Project/Task #:

0078000050.03

Sampled By:

JCH

Date:

4-06-22

Well Number/ID: MW-10R

Sample ID: MW-10R-040622

Duplicate ID: N/A

Method of Purging: Low-Flow

Method of Sampling: Low-Flow

Intake Depth: 16' bgs

Field Equipment

Equipment	Model	Serial #/Rental ID	Date Received/Serviced	Date Calibrated
Multi-Probe	Horiba U-52	WCR906V	4/5/22	4/6/22
Turbidimeter	4 Horiba			

Casing Purge Volume Calculations

A. Depth to Water = 13.43 ft.	D. Water Column (B-A) = 3.44 ft.	Depth to Water After Sampling = 14.41 ft.
B. Well Total Depth = 18.87 ft.	E. 1 Well Volume ($C^2 \times 0.0408 \times D$) = 0.88 gal.	Actual Volume Purged (from below) = 5125 gal/ml.
C. Well Diameter = 2 in.	F. 3 Well Volumes ($3 \times E$) = 2.66 gal.	(If applicable, see pumping system volume calculation below)

Pump and Flow Cell Volume	V_p = N/A	ml	Pumping System Volume Calculation	
Tubing Inside Diameter	D = N/A	in.	Pumping System Volume (V_s)	
Tubing Length	L = N/A	in.	$V_s = V_p + \pi \times D^2 / 4 \times L \times 16.39 \text{ ml/in}^3$	
Conversion from Inches ³ to ml	1 in ³ = 16.39	ml	$V_s = (\quad) + (3.1415 \times \quad^2 / 4) \times (\quad) \times 16.39$	

Purging Data			Water Quality Parameters (within range for 3 consecutive readings if low-flow sampling)						
Time (24 hr)	Purge Volume <input type="checkbox"/> gal <input type="checkbox"/> ml	Flow Rate <input type="checkbox"/> gpm <input checked="" type="checkbox"/> ml/min	Temp (°C)	Specific Conductance (µS/cm)	Dissolved Oxygen (mg/L)	pH	Oxidation Reduction Potential (mV)	Turbidity (NTU)	Remarks
			Stabilization ⁽¹⁾ :	± 3%	± 0.2 mg/L	± 0.2	± 20 mV	<10 NTU	DTL
1310	Initial	125	11.45	3.07	3.28	6.76	265	6.8	13.96
1315	625	125	11.16	3.30	3.03	6.74	264	6.5	14.00
1320	1250	125	10.63	3.41	3.13	6.75	262	4.3	14.06
1325	1875	125	10.43	3.52	3.01	6.75	260	4.0	14.16
1330	2500	125	10.49	3.62	2.84	6.75	260	3.7	14.20
1335	3125	125	10.76	3.72	2.68	6.76	258	3.1	14.22
1340	3250	125	10.78	3.80	2.59	6.76	250	2.7	14.25
1345	3875	125	11.00	3.86	2.49	6.76	256	2.2	14.27
1350	4500	125	10.89	3.83	2.49	6.79	254	2.3	14.31

Remarks: TOC PID = 1355 - SAMPLED

Purge pumping system volume before recording parameters on dedicated pumps only.

⁽¹⁾ Based on EPA low-flow sampling guidelines, ASTM D 6771-02, and research validated Best Practices (see SAP for details).

Signature:

Paul C. Hux

Checked By:

wood.

**MONITORING WELL
SAMPLE COLLECTION LOG**

Project Name:

National Grid – Former MGP Site No. 837012, Albion, New York

Project/Task #:

0078000050.03

Sampled By:

JCA

Date:

4-06-22

Well Number/ID: MW-8R

Sample ID: MW-8R-040622

Duplicate ID: N/A

Method of Purging:
Low-Flow

Method of Sampling:
Low-Flow

Intake Depth:
16' bgs

Field Equipment

Equipment	Model	Serial #/Rental ID	Date Received/Serviced	Date Calibrated
Multi-Probe	Horiba V-52	WGR9066V	4/5/22	4/6/22
Turbidimeter	49 Horiba			

Casing Purge Volume Calculations

A. Depth to Water = 12.46 ft.	D. Water Column (B-A) = 8.17 ft.	Depth to Water After Sampling = 13.48 ft.
B. Well Total Depth = 20.63 ft.	E. 1 Well Volume ($C^2 \times 0.0408 \times D$) = 1.33 gal.	Actual Volume Purged (from below) = 5075 gal/ml.
C. Well Diameter = 2 in.	F. 3 Well Volumes ($3 \times E$) = 4.00 gal.	(If applicable, see pumping system volume calculation below)

Pump and Flow Cell Volume	$V_p =$ N/A	ml	Pumping System Volume Calculation	
Tubing Inside Diameter	$D =$ N/A	in.	Pumping System Volume (V_s)	
Tubing Length	$L =$ N/A	in.	$V_s = V_p + \pi \times D^2 / 4 \times L \times 16.39 \text{ ml/in}^3$	
Conversion from Inches ³ to ml	$1 \text{ in}^3 =$ 16.39	ml	$V_s = (\quad) + (3.1415 \times \quad^2 / 4) \times (\quad) \times 16.39$	

Purging Data			Water Quality Parameters (within range for 3 consecutive readings if low-flow sampling)						
Time (24 hr)	Purge Volume <input type="checkbox"/> gal <input checked="" type="checkbox"/> ml	Flow Rate <input type="checkbox"/> gpm <input checked="" type="checkbox"/> ml/min	Temp (°C)	Specific Conductance (µS/cm)	Dissolved Oxygen (mg/L)	pH	Oxidation Reduction Potential (mV)	Turbidity (NTU)	Remarks
			Stabilization ⁽¹⁾ :	± 3%	± 0.2 mg/L	± 0.2	± 20 mV	<10 NTU	
1450	Initial	125	18.04	1.51	1.89	7.06	86	2.2	12.60
1455	625	125	12.74	2.84	0.00	7.09	20	3.7	12.78
1500	1250	125	12.23	2.85	0.00	6.99	-23	3.3	12.92
1505	1875	125	12.30	2.85	0.00	6.96	-44	2.8	13.02
1510	2500	125	12.01	2.85	0.00	6.95	-69	1.4	13.14
1515	3025	115	11.78	2.84	0.00	6.94	-77	1.4	13.22
1520	3575	100	11.92	2.85	0.00	6.94	-91	0.9	13.30
1525	4075	100	11.80	2.80	0.00	6.94	-102	0.8	13.33
1530	4575	100	11.87	2.76	0.00	6.94	-111	1.0	13.42

Remarks: TOC PID = 1535 - SAMPLED

Clear, odor

Purge pumping system volume before recording parameters on dedicated pumps only.

⁽¹⁾ Based on EPA low-flow sampling guidelines, ASTM D 6771-02, and research validated Best Practices (see SAP for details).

Signature:

[Signature]

Checked By:

Sampler: A. Lyons / J. Hay Date: 4/6/22
 Weather: 55°F, cloudy

GROUNDWATER ELEVATIONS

Former Albion MGP Site
 Albion, New York

Well ID	Well Location	Date Measured	Time Measured	Measuring Point Elevation (NAVD 88)	Total Depth below measuring point (feet)	Depth Below Measuring Point (feet)
MW-1	Up-gradient	4/6/22	1115	515.04	20.08	9.55
MW-5	On-site	4/6/22	1055	513.14	16.50	9.20
MW-6	On-site	4/6/22	1059	510.74	15.29	6.20
MW-8R	On-site	4/6/22	1105	515.53	20.63	12.25
MW-9R	Down-gradient	4/6/22	1050	514.70	17.20	12.81
MW-10R	Down-gradient	4/6/22	1052	515.81	18.87	13.38
Canal	Surface water ²	4/6/22	1057		-	13.30

Note

1. Wells were surveyed by Costich Engineering, Land Surveying & Landscape Architecture D.P.C. (Costich Engineering), a New York-licensed land surveyor in June 2018. Monitoring well MW-9R was surveyed on November 11, 2019 by Costich Engineering. Water elevations are relative to the North American Vertical Datum 1988 (NAVD 88).
2. Measuring point for canal gauging outlined in field notes.

Abbreviation

NAVD 88 = North American Vertical Datum of 1988

APPENDIX B

Analytical Laboratory Report

ANALYTICAL REPORT

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

Laboratory Job ID: 480-196578-1

Client Project/Site: Albion, NY Groundwater Project
Revision: 1

For:

Wood E&I Solutions Inc
180 Grand Avenue
Suite 1100
Oakland, California 94612

Attn: Mr. Alex Rosenthal



Authorized for release by:
4/26/2022 3:03:30 PM

Rebecca Jones, Project Management Assistant I
Rebecca.Jones@et.eurofinsus.com

Designee for

Brian Fischer, Manager of Project Management
(716)504-9835
Brian.Fischer@et.eurofinsus.com

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Wood E&I Solutions Inc
Project/Site: Albion, NY Groundwater Project

Job ID: 480-196578-1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD 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.
S1-	Surrogate recovery exceeds control limits, low biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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: Wood E&I Solutions Inc
Project/Site: Albion, NY Groundwater Project

Job ID: 480-196578-1

Job ID: 480-196578-1

Laboratory: Eurofins Buffalo

Narrative

Job Narrative 480-196578-1

Revision

This report has been revised to removed the Method 8270D_SIM 1,4-Dioxane results. The method was requested on the COC in error.

Receipt

The samples were received on 4/8/2022 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 3.6° C and 3.9° C.

GC/MS VOA

Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-8R-040622 (480-196578-4), (480-196578-F-4 MS) and (480-196578-F-4 MSD). Elevated reporting limits (RLs) are provided.

GC/MS Semi VOA

Method 8270D: Three surrogates are used for this analysis. The laboratory's SOP allows one of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: MW-5-040622 (480-196578-3). These results have been reported and qualified.

Method 8270D: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 480-621262 and analytical batch 480-621548 recovered outside control limits for the following analytes: Benzo[a]pyrene.

Method 8270D: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-8R-040622 (480-196578-4). Elevated reporting limits (RLs) are provided.

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

General Chemistry

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

Organic Prep

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

Detection Summary

Client: Wood E&I Solutions Inc
Project/Site: Albion, NY Groundwater Project

Job ID: 480-196578-1

Client Sample ID: MW-1-040622

Lab Sample ID: 480-196578-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyanide, Total	0.14		0.010	0.0080	mg/L	1		SM 4500CN E	Total/NA

Client Sample ID: MW-6-040622

Lab Sample ID: 480-196578-2

No Detections.

Client Sample ID: MW-5-040622

Lab Sample ID: 480-196578-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	14		1.0	0.41	ug/L	1		8260C	Total/NA
Toluene	1.0		1.0	0.51	ug/L	1		8260C	Total/NA
Ethylbenzene	5.2		1.0	0.74	ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	1.2	J	2.0	0.66	ug/L	1		8260C	Total/NA
o-Xylene	3.3		1.0	0.76	ug/L	1		8260C	Total/NA
Xylenes, Total	4.5		2.0	0.66	ug/L	1		8260C	Total/NA
Total BTEX	25		2.0	1.0	ug/L	1		8260C	Total/NA
Acenaphthene	7.1		5.0	0.41	ug/L	1		8270D	Total/NA
Acenaphthylene	7.6		5.0	0.38	ug/L	1		8270D	Total/NA
Anthracene	0.69	J	5.0	0.28	ug/L	1		8270D	Total/NA
Fluoranthene	2.0	J	5.0	0.40	ug/L	1		8270D	Total/NA
Fluorene	7.3		5.0	0.36	ug/L	1		8270D	Total/NA
Naphthalene	1.9	J	5.0	0.76	ug/L	1		8270D	Total/NA
Pyrene	1.1	J	5.0	0.34	ug/L	1		8270D	Total/NA
Cyanide, Total	0.16		0.010	0.0080	mg/L	1		SM 4500CN E	Total/NA

Client Sample ID: MW-8R-040622

Lab Sample ID: 480-196578-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	290		50	21	ug/L	50		8260C	Total/NA
Toluene	28	J	50	26	ug/L	50		8260C	Total/NA
Ethylbenzene	53		50	37	ug/L	50		8260C	Total/NA
m-Xylene & p-Xylene	100		100	33	ug/L	50		8260C	Total/NA
o-Xylene	45	J	50	38	ug/L	50		8260C	Total/NA
Xylenes, Total	150		100	33	ug/L	50		8260C	Total/NA
Total BTEX	520		100	50	ug/L	50		8260C	Total/NA
Acenaphthene	33		5.0	0.41	ug/L	1		8270D	Total/NA
Acenaphthylene	7.2		5.0	0.38	ug/L	1		8270D	Total/NA
Anthracene	3.2	J	5.0	0.28	ug/L	1		8270D	Total/NA
Fluoranthene	2.5	J	5.0	0.40	ug/L	1		8270D	Total/NA
Fluorene	17		5.0	0.36	ug/L	1		8270D	Total/NA
Phenanthrene	12		5.0	0.44	ug/L	1		8270D	Total/NA
Pyrene	1.4	J	5.0	0.34	ug/L	1		8270D	Total/NA
Naphthalene - DL	350		50	7.6	ug/L	10		8270D	Total/NA
Cyanide, Total	0.29		0.010	0.0080	mg/L	1		SM 4500CN E	Total/NA

Client Sample ID: MW-9R-040622

Lab Sample ID: 480-196578-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyanide, Total	0.095		0.010	0.0080	mg/L	1		SM 4500CN E	Total/NA

Client Sample ID: MW-10R-040622

Lab Sample ID: 480-196578-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	4.1		1.0	0.41	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Detection Summary

Client: Wood E&I Solutions Inc
Project/Site: Albion, NY Groundwater Project

Job ID: 480-196578-1

Client Sample ID: MW-10R-040622 (Continued)

Lab Sample ID: 480-196578-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total BTEX	4.1		2.0	1.0	ug/L	1		8260C	Total/NA
Acenaphthene	0.52	J	5.0	0.41	ug/L	1		8270D	Total/NA
Naphthalene	1.3	J	5.0	0.76	ug/L	1		8270D	Total/NA

Client Sample ID: MW-50-040622

Lab Sample ID: 480-196578-7

No Detections.

Client Sample ID: EB-01-04062022

Lab Sample ID: 480-196578-8

No Detections.

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-196578-9

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Client Sample Results

Client: Wood E&I Solutions Inc
Project/Site: Albion, NY Groundwater Project

Job ID: 480-196578-1

Client Sample ID: MW-1-040622

Lab Sample ID: 480-196578-1

Date Collected: 04/06/22 12:10

Matrix: Water

Date Received: 04/08/22 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			04/10/22 00:23	1
Toluene	ND		1.0	0.51	ug/L			04/10/22 00:23	1
Ethylbenzene	ND		1.0	0.74	ug/L			04/10/22 00:23	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			04/10/22 00:23	1
o-Xylene	ND		1.0	0.76	ug/L			04/10/22 00:23	1
Xylenes, Total	ND		2.0	0.66	ug/L			04/10/22 00:23	1
Total BTEX	ND		2.0	1.0	ug/L			04/10/22 00:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		80 - 120		04/10/22 00:23	1
1,2-Dichloroethane-d4 (Surr)	109		77 - 120		04/10/22 00:23	1
4-Bromofluorobenzene (Surr)	98		73 - 120		04/10/22 00:23	1
Dibromofluoromethane (Surr)	93		75 - 123		04/10/22 00:23	1

Method: 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		04/11/22 15:13	04/13/22 19:08	1
Acenaphthylene	ND		5.0	0.38	ug/L		04/11/22 15:13	04/13/22 19:08	1
Anthracene	ND		5.0	0.28	ug/L		04/11/22 15:13	04/13/22 19:08	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		04/11/22 15:13	04/13/22 19:08	1
Benzo[a]pyrene	ND	*1	5.0	0.47	ug/L		04/11/22 15:13	04/13/22 19:08	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		04/11/22 15:13	04/13/22 19:08	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		04/11/22 15:13	04/13/22 19:08	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		04/11/22 15:13	04/13/22 19:08	1
Chrysene	ND		5.0	0.33	ug/L		04/11/22 15:13	04/13/22 19:08	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		04/11/22 15:13	04/13/22 19:08	1
Fluoranthene	ND		5.0	0.40	ug/L		04/11/22 15:13	04/13/22 19:08	1
Fluorene	ND		5.0	0.36	ug/L		04/11/22 15:13	04/13/22 19:08	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		04/11/22 15:13	04/13/22 19:08	1
Naphthalene	ND		5.0	0.76	ug/L		04/11/22 15:13	04/13/22 19:08	1
Phenanthrene	ND		5.0	0.44	ug/L		04/11/22 15:13	04/13/22 19:08	1
Pyrene	ND		5.0	0.34	ug/L		04/11/22 15:13	04/13/22 19:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	84		48 - 120	04/11/22 15:13	04/13/22 19:08	1
Nitrobenzene-d5 (Surr)	86		46 - 120	04/11/22 15:13	04/13/22 19:08	1
p-Terphenyl-d14 (Surr)	76		60 - 148	04/11/22 15:13	04/13/22 19:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.14		0.010	0.0080	mg/L		04/19/22 11:30	04/20/22 13:35	1

Client Sample ID: MW-6-040622

Lab Sample ID: 480-196578-2

Date Collected: 04/06/22 15:05

Matrix: Water

Date Received: 04/08/22 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			04/10/22 00:46	1
Toluene	ND		1.0	0.51	ug/L			04/10/22 00:46	1
Ethylbenzene	ND		1.0	0.74	ug/L			04/10/22 00:46	1

Eurofins Buffalo

Client Sample Results

Client: Wood E&I Solutions Inc
Project/Site: Albion, NY Groundwater Project

Job ID: 480-196578-1

Client Sample ID: MW-6-040622

Lab Sample ID: 480-196578-2

Date Collected: 04/06/22 15:05

Matrix: Water

Date Received: 04/08/22 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			04/10/22 00:46	1
o-Xylene	ND		1.0	0.76	ug/L			04/10/22 00:46	1
Xylenes, Total	ND		2.0	0.66	ug/L			04/10/22 00:46	1
Total BTEX	ND		2.0	1.0	ug/L			04/10/22 00:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		80 - 120		04/10/22 00:46	1
1,2-Dichloroethane-d4 (Surr)	110		77 - 120		04/10/22 00:46	1
4-Bromofluorobenzene (Surr)	97		73 - 120		04/10/22 00:46	1
Dibromofluoromethane (Surr)	92		75 - 123		04/10/22 00:46	1

Method: 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		04/11/22 15:13	04/13/22 19:36	1
Acenaphthylene	ND		5.0	0.38	ug/L		04/11/22 15:13	04/13/22 19:36	1
Anthracene	ND		5.0	0.28	ug/L		04/11/22 15:13	04/13/22 19:36	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		04/11/22 15:13	04/13/22 19:36	1
Benzo[a]pyrene	ND	*1	5.0	0.47	ug/L		04/11/22 15:13	04/13/22 19:36	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		04/11/22 15:13	04/13/22 19:36	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		04/11/22 15:13	04/13/22 19:36	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		04/11/22 15:13	04/13/22 19:36	1
Chrysene	ND		5.0	0.33	ug/L		04/11/22 15:13	04/13/22 19:36	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		04/11/22 15:13	04/13/22 19:36	1
Fluoranthene	ND		5.0	0.40	ug/L		04/11/22 15:13	04/13/22 19:36	1
Fluorene	ND		5.0	0.36	ug/L		04/11/22 15:13	04/13/22 19:36	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		04/11/22 15:13	04/13/22 19:36	1
Naphthalene	ND		5.0	0.76	ug/L		04/11/22 15:13	04/13/22 19:36	1
Phenanthrene	ND		5.0	0.44	ug/L		04/11/22 15:13	04/13/22 19:36	1
Pyrene	ND		5.0	0.34	ug/L		04/11/22 15:13	04/13/22 19:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	76		48 - 120	04/11/22 15:13	04/13/22 19:36	1
Nitrobenzene-d5 (Surr)	77		46 - 120	04/11/22 15:13	04/13/22 19:36	1
p-Terphenyl-d14 (Surr)	69		60 - 148	04/11/22 15:13	04/13/22 19:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0080	mg/L		04/19/22 11:30	04/20/22 13:37	1

Client Sample ID: MW-5-040622

Lab Sample ID: 480-196578-3

Date Collected: 04/06/22 14:10

Matrix: Water

Date Received: 04/08/22 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	14		1.0	0.41	ug/L			04/10/22 01:09	1
Toluene	1.0		1.0	0.51	ug/L			04/10/22 01:09	1
Ethylbenzene	5.2		1.0	0.74	ug/L			04/10/22 01:09	1
m-Xylene & p-Xylene	1.2	J	2.0	0.66	ug/L			04/10/22 01:09	1
o-Xylene	3.3		1.0	0.76	ug/L			04/10/22 01:09	1
Xylenes, Total	4.5		2.0	0.66	ug/L			04/10/22 01:09	1

Eurofins Buffalo

Client Sample Results

Client: Wood E&I Solutions Inc
Project/Site: Albion, NY Groundwater Project

Job ID: 480-196578-1

Client Sample ID: MW-5-040622

Lab Sample ID: 480-196578-3

Date Collected: 04/06/22 14:10

Matrix: Water

Date Received: 04/08/22 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	25		2.0	1.0	ug/L			04/10/22 01:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97		80 - 120		04/10/22 01:09	1
1,2-Dichloroethane-d4 (Surr)	107		77 - 120		04/10/22 01:09	1
4-Bromofluorobenzene (Surr)	95		73 - 120		04/10/22 01:09	1
Dibromofluoromethane (Surr)	90		75 - 123		04/10/22 01:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	7.1		5.0	0.41	ug/L		04/11/22 15:13	04/13/22 20:03	1
Acenaphthylene	7.6		5.0	0.38	ug/L		04/11/22 15:13	04/13/22 20:03	1
Anthracene	0.69	J	5.0	0.28	ug/L		04/11/22 15:13	04/13/22 20:03	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		04/11/22 15:13	04/13/22 20:03	1
Benzo[a]pyrene	ND	*1	5.0	0.47	ug/L		04/11/22 15:13	04/13/22 20:03	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		04/11/22 15:13	04/13/22 20:03	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		04/11/22 15:13	04/13/22 20:03	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		04/11/22 15:13	04/13/22 20:03	1
Chrysene	ND		5.0	0.33	ug/L		04/11/22 15:13	04/13/22 20:03	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		04/11/22 15:13	04/13/22 20:03	1
Fluoranthene	2.0	J	5.0	0.40	ug/L		04/11/22 15:13	04/13/22 20:03	1
Fluorene	7.3		5.0	0.36	ug/L		04/11/22 15:13	04/13/22 20:03	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		04/11/22 15:13	04/13/22 20:03	1
Naphthalene	1.9	J	5.0	0.76	ug/L		04/11/22 15:13	04/13/22 20:03	1
Phenanthrene	ND		5.0	0.44	ug/L		04/11/22 15:13	04/13/22 20:03	1
Pyrene	1.1	J	5.0	0.34	ug/L		04/11/22 15:13	04/13/22 20:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	55		48 - 120	04/11/22 15:13	04/13/22 20:03	1
Nitrobenzene-d5 (Surr)	53		46 - 120	04/11/22 15:13	04/13/22 20:03	1
p-Terphenyl-d14 (Surr)	49	S1-	60 - 148	04/11/22 15:13	04/13/22 20:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.16		0.010	0.0080	mg/L		04/19/22 11:30	04/20/22 13:39	1

Client Sample ID: MW-8R-040622

Lab Sample ID: 480-196578-4

Date Collected: 04/06/22 15:25

Matrix: Water

Date Received: 04/08/22 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	290		50	21	ug/L			04/10/22 01:32	50
Toluene	28	J	50	26	ug/L			04/10/22 01:32	50
Ethylbenzene	53		50	37	ug/L			04/10/22 01:32	50
m-Xylene & p-Xylene	100		100	33	ug/L			04/10/22 01:32	50
o-Xylene	45	J	50	38	ug/L			04/10/22 01:32	50
Xylenes, Total	150		100	33	ug/L			04/10/22 01:32	50
Total BTEX	520		100	50	ug/L			04/10/22 01:32	50

Eurofins Buffalo

Client Sample Results

Client: Wood E&I Solutions Inc
Project/Site: Albion, NY Groundwater Project

Job ID: 480-196578-1

Client Sample ID: MW-8R-040622

Lab Sample ID: 480-196578-4

Date Collected: 04/06/22 15:25

Matrix: Water

Date Received: 04/08/22 10:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		80 - 120		04/10/22 01:32	50
1,2-Dichloroethane-d4 (Surr)	106		77 - 120		04/10/22 01:32	50
4-Bromofluorobenzene (Surr)	97		73 - 120		04/10/22 01:32	50
Dibromofluoromethane (Surr)	92		75 - 123		04/10/22 01:32	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	33		5.0	0.41	ug/L		04/11/22 15:13	04/13/22 20:31	1
Acenaphthylene	7.2		5.0	0.38	ug/L		04/11/22 15:13	04/13/22 20:31	1
Anthracene	3.2	J	5.0	0.28	ug/L		04/11/22 15:13	04/13/22 20:31	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		04/11/22 15:13	04/13/22 20:31	1
Benzo[a]pyrene	ND	*1	5.0	0.47	ug/L		04/11/22 15:13	04/13/22 20:31	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		04/11/22 15:13	04/13/22 20:31	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		04/11/22 15:13	04/13/22 20:31	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		04/11/22 15:13	04/13/22 20:31	1
Chrysene	ND		5.0	0.33	ug/L		04/11/22 15:13	04/13/22 20:31	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		04/11/22 15:13	04/13/22 20:31	1
Fluoranthene	2.5	J	5.0	0.40	ug/L		04/11/22 15:13	04/13/22 20:31	1
Fluorene	17		5.0	0.36	ug/L		04/11/22 15:13	04/13/22 20:31	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		04/11/22 15:13	04/13/22 20:31	1
Phenanthrene	12		5.0	0.44	ug/L		04/11/22 15:13	04/13/22 20:31	1
Pyrene	1.4	J	5.0	0.34	ug/L		04/11/22 15:13	04/13/22 20:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	86		48 - 120	04/11/22 15:13	04/13/22 20:31	1
Nitrobenzene-d5 (Surr)	74		46 - 120	04/11/22 15:13	04/13/22 20:31	1
p-Terphenyl-d14 (Surr)	69		60 - 148	04/11/22 15:13	04/13/22 20:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	350		50	7.6	ug/L		04/11/22 15:13	04/19/22 09:48	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	84		48 - 120	04/11/22 15:13	04/19/22 09:48	10
Nitrobenzene-d5 (Surr)	66		46 - 120	04/11/22 15:13	04/19/22 09:48	10
p-Terphenyl-d14 (Surr)	69		60 - 148	04/11/22 15:13	04/19/22 09:48	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.29		0.010	0.0080	mg/L		04/19/22 11:30	04/20/22 13:40	1

Client Sample ID: MW-9R-040622

Lab Sample ID: 480-196578-5

Date Collected: 04/06/22 13:15

Matrix: Water

Date Received: 04/08/22 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			04/10/22 01:55	1
Toluene	ND		1.0	0.51	ug/L			04/10/22 01:55	1
Ethylbenzene	ND		1.0	0.74	ug/L			04/10/22 01:55	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			04/10/22 01:55	1
o-Xylene	ND		1.0	0.76	ug/L			04/10/22 01:55	1

Eurofins Buffalo

Client Sample Results

Client: Wood E&I Solutions Inc
Project/Site: Albion, NY Groundwater Project

Job ID: 480-196578-1

Client Sample ID: MW-9R-040622

Lab Sample ID: 480-196578-5

Date Collected: 04/06/22 13:15

Matrix: Water

Date Received: 04/08/22 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		2.0	0.66	ug/L			04/10/22 01:55	1
Total BTEX	ND		2.0	1.0	ug/L			04/10/22 01:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		80 - 120					04/10/22 01:55	1
1,2-Dichloroethane-d4 (Surr)	112		77 - 120					04/10/22 01:55	1
4-Bromofluorobenzene (Surr)	94		73 - 120					04/10/22 01:55	1
Dibromofluoromethane (Surr)	94		75 - 123					04/10/22 01:55	1

Method: 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		04/11/22 15:13	04/13/22 20:58	1
Acenaphthylene	ND		5.0	0.38	ug/L		04/11/22 15:13	04/13/22 20:58	1
Anthracene	ND		5.0	0.28	ug/L		04/11/22 15:13	04/13/22 20:58	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		04/11/22 15:13	04/13/22 20:58	1
Benzo[a]pyrene	ND	*1	5.0	0.47	ug/L		04/11/22 15:13	04/13/22 20:58	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		04/11/22 15:13	04/13/22 20:58	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		04/11/22 15:13	04/13/22 20:58	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		04/11/22 15:13	04/13/22 20:58	1
Chrysene	ND		5.0	0.33	ug/L		04/11/22 15:13	04/13/22 20:58	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		04/11/22 15:13	04/13/22 20:58	1
Fluoranthene	ND		5.0	0.40	ug/L		04/11/22 15:13	04/13/22 20:58	1
Fluorene	ND		5.0	0.36	ug/L		04/11/22 15:13	04/13/22 20:58	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		04/11/22 15:13	04/13/22 20:58	1
Naphthalene	ND		5.0	0.76	ug/L		04/11/22 15:13	04/13/22 20:58	1
Phenanthrene	ND		5.0	0.44	ug/L		04/11/22 15:13	04/13/22 20:58	1
Pyrene	ND		5.0	0.34	ug/L		04/11/22 15:13	04/13/22 20:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	83		48 - 120				04/11/22 15:13	04/13/22 20:58	1
Nitrobenzene-d5 (Surr)	86		46 - 120				04/11/22 15:13	04/13/22 20:58	1
p-Terphenyl-d14 (Surr)	74		60 - 148				04/11/22 15:13	04/13/22 20:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.095		0.010	0.0080	mg/L		04/19/22 11:30	04/20/22 14:36	1

Client Sample ID: MW-10R-040622

Lab Sample ID: 480-196578-6

Date Collected: 04/06/22 13:55

Matrix: Water

Date Received: 04/08/22 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	4.1		1.0	0.41	ug/L			04/10/22 02:18	1
Toluene	ND		1.0	0.51	ug/L			04/10/22 02:18	1
Ethylbenzene	ND		1.0	0.74	ug/L			04/10/22 02:18	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			04/10/22 02:18	1
o-Xylene	ND		1.0	0.76	ug/L			04/10/22 02:18	1
Xylenes, Total	ND		2.0	0.66	ug/L			04/10/22 02:18	1
Total BTEX	4.1		2.0	1.0	ug/L			04/10/22 02:18	1

Eurofins Buffalo

Client Sample Results

Client: Wood E&I Solutions Inc
Project/Site: Albion, NY Groundwater Project

Job ID: 480-196578-1

Client Sample ID: MW-10R-040622

Lab Sample ID: 480-196578-6

Date Collected: 04/06/22 13:55

Matrix: Water

Date Received: 04/08/22 10:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97		80 - 120		04/10/22 02:18	1
1,2-Dichloroethane-d4 (Surr)	110		77 - 120		04/10/22 02:18	1
4-Bromofluorobenzene (Surr)	99		73 - 120		04/10/22 02:18	1
Dibromofluoromethane (Surr)	94		75 - 123		04/10/22 02:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.52	J	5.0	0.41	ug/L		04/11/22 15:13	04/13/22 21:26	1
Acenaphthylene	ND		5.0	0.38	ug/L		04/11/22 15:13	04/13/22 21:26	1
Anthracene	ND		5.0	0.28	ug/L		04/11/22 15:13	04/13/22 21:26	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		04/11/22 15:13	04/13/22 21:26	1
Benzo[a]pyrene	ND	*1	5.0	0.47	ug/L		04/11/22 15:13	04/13/22 21:26	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		04/11/22 15:13	04/13/22 21:26	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		04/11/22 15:13	04/13/22 21:26	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		04/11/22 15:13	04/13/22 21:26	1
Chrysene	ND		5.0	0.33	ug/L		04/11/22 15:13	04/13/22 21:26	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		04/11/22 15:13	04/13/22 21:26	1
Fluoranthene	ND		5.0	0.40	ug/L		04/11/22 15:13	04/13/22 21:26	1
Fluorene	ND		5.0	0.36	ug/L		04/11/22 15:13	04/13/22 21:26	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		04/11/22 15:13	04/13/22 21:26	1
Naphthalene	1.3	J	5.0	0.76	ug/L		04/11/22 15:13	04/13/22 21:26	1
Phenanthrene	ND		5.0	0.44	ug/L		04/11/22 15:13	04/13/22 21:26	1
Pyrene	ND		5.0	0.34	ug/L		04/11/22 15:13	04/13/22 21:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	81		48 - 120	04/11/22 15:13	04/13/22 21:26	1
Nitrobenzene-d5 (Surr)	77		46 - 120	04/11/22 15:13	04/13/22 21:26	1
p-Terphenyl-d14 (Surr)	60		60 - 148	04/11/22 15:13	04/13/22 21:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0080	mg/L		04/19/22 11:30	04/20/22 14:37	1

Client Sample ID: MW-50-040622

Lab Sample ID: 480-196578-7

Date Collected: 04/06/22 12:00

Matrix: Water

Date Received: 04/08/22 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			04/10/22 02:41	1
Toluene	ND		1.0	0.51	ug/L			04/10/22 02:41	1
Ethylbenzene	ND		1.0	0.74	ug/L			04/10/22 02:41	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			04/10/22 02:41	1
o-Xylene	ND		1.0	0.76	ug/L			04/10/22 02:41	1
Xylenes, Total	ND		2.0	0.66	ug/L			04/10/22 02:41	1
Total BTEX	ND		2.0	1.0	ug/L			04/10/22 02:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		80 - 120		04/10/22 02:41	1
1,2-Dichloroethane-d4 (Surr)	107		77 - 120		04/10/22 02:41	1
4-Bromofluorobenzene (Surr)	98		73 - 120		04/10/22 02:41	1

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Client Sample Results

Client: Wood E&I Solutions Inc
Project/Site: Albion, NY Groundwater Project

Job ID: 480-196578-1

Client Sample ID: MW-50-040622

Lab Sample ID: 480-196578-7

Date Collected: 04/06/22 12:00

Matrix: Water

Date Received: 04/08/22 10:00

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	91		75 - 123		04/10/22 02:41	1

Method: 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		04/11/22 15:13	04/13/22 21:53	1
Acenaphthylene	ND		5.0	0.38	ug/L		04/11/22 15:13	04/13/22 21:53	1
Anthracene	ND		5.0	0.28	ug/L		04/11/22 15:13	04/13/22 21:53	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		04/11/22 15:13	04/13/22 21:53	1
Benzo[a]pyrene	ND	*1	5.0	0.47	ug/L		04/11/22 15:13	04/13/22 21:53	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		04/11/22 15:13	04/13/22 21:53	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		04/11/22 15:13	04/13/22 21:53	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		04/11/22 15:13	04/13/22 21:53	1
Chrysene	ND		5.0	0.33	ug/L		04/11/22 15:13	04/13/22 21:53	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		04/11/22 15:13	04/13/22 21:53	1
Fluoranthene	ND		5.0	0.40	ug/L		04/11/22 15:13	04/13/22 21:53	1
Fluorene	ND		5.0	0.36	ug/L		04/11/22 15:13	04/13/22 21:53	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		04/11/22 15:13	04/13/22 21:53	1
Naphthalene	ND		5.0	0.76	ug/L		04/11/22 15:13	04/13/22 21:53	1
Phenanthrene	ND		5.0	0.44	ug/L		04/11/22 15:13	04/13/22 21:53	1
Pyrene	ND		5.0	0.34	ug/L		04/11/22 15:13	04/13/22 21:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	89		48 - 120	04/11/22 15:13	04/13/22 21:53	1
Nitrobenzene-d5 (Surr)	89		46 - 120	04/11/22 15:13	04/13/22 21:53	1
p-Terphenyl-d14 (Surr)	78		60 - 148	04/11/22 15:13	04/13/22 21:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0080	mg/L		04/19/22 11:30	04/20/22 14:39	1

Client Sample ID: EB-01-04062022

Lab Sample ID: 480-196578-8

Date Collected: 04/06/22 15:30

Matrix: Water

Date Received: 04/08/22 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			04/10/22 03:04	1
Toluene	ND		1.0	0.51	ug/L			04/10/22 03:04	1
Ethylbenzene	ND		1.0	0.74	ug/L			04/10/22 03:04	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			04/10/22 03:04	1
o-Xylene	ND		1.0	0.76	ug/L			04/10/22 03:04	1
Xylenes, Total	ND		2.0	0.66	ug/L			04/10/22 03:04	1
Total BTEX	ND		2.0	1.0	ug/L			04/10/22 03:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		80 - 120		04/10/22 03:04	1
1,2-Dichloroethane-d4 (Surr)	108		77 - 120		04/10/22 03:04	1
4-Bromofluorobenzene (Surr)	100		73 - 120		04/10/22 03:04	1
Dibromofluoromethane (Surr)	93		75 - 123		04/10/22 03:04	1

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Client Sample Results

Client: Wood E&I Solutions Inc
Project/Site: Albion, NY Groundwater Project

Job ID: 480-196578-1

Client Sample ID: EB-01-04062022

Lab Sample ID: 480-196578-8

Date Collected: 04/06/22 15:30

Matrix: Water

Date Received: 04/08/22 10:00

Method: 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		04/11/22 15:13	04/13/22 22:21	1
Acenaphthylene	ND		5.0	0.38	ug/L		04/11/22 15:13	04/13/22 22:21	1
Anthracene	ND		5.0	0.28	ug/L		04/11/22 15:13	04/13/22 22:21	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		04/11/22 15:13	04/13/22 22:21	1
Benzo[a]pyrene	ND	*1	5.0	0.47	ug/L		04/11/22 15:13	04/13/22 22:21	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		04/11/22 15:13	04/13/22 22:21	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		04/11/22 15:13	04/13/22 22:21	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		04/11/22 15:13	04/13/22 22:21	1
Chrysene	ND		5.0	0.33	ug/L		04/11/22 15:13	04/13/22 22:21	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		04/11/22 15:13	04/13/22 22:21	1
Fluoranthene	ND		5.0	0.40	ug/L		04/11/22 15:13	04/13/22 22:21	1
Fluorene	ND		5.0	0.36	ug/L		04/11/22 15:13	04/13/22 22:21	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		04/11/22 15:13	04/13/22 22:21	1
Naphthalene	ND		5.0	0.76	ug/L		04/11/22 15:13	04/13/22 22:21	1
Phenanthrene	ND		5.0	0.44	ug/L		04/11/22 15:13	04/13/22 22:21	1
Pyrene	ND		5.0	0.34	ug/L		04/11/22 15:13	04/13/22 22:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	79		48 - 120				04/11/22 15:13	04/13/22 22:21	1
Nitrobenzene-d5 (Surr)	77		46 - 120				04/11/22 15:13	04/13/22 22:21	1
p-Terphenyl-d14 (Surr)	102		60 - 148				04/11/22 15:13	04/13/22 22:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0080	mg/L		04/19/22 11:30	04/20/22 13:51	1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-196578-9

Date Collected: 04/06/22 07:00

Matrix: Water

Date Received: 04/08/22 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			04/10/22 03:27	1
Toluene	ND		1.0	0.51	ug/L			04/10/22 03:27	1
Ethylbenzene	ND		1.0	0.74	ug/L			04/10/22 03:27	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			04/10/22 03:27	1
o-Xylene	ND		1.0	0.76	ug/L			04/10/22 03:27	1
Xylenes, Total	ND		2.0	0.66	ug/L			04/10/22 03:27	1
Total BTEX	ND		2.0	1.0	ug/L			04/10/22 03:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		80 - 120					04/10/22 03:27	1
1,2-Dichloroethane-d4 (Surr)	108		77 - 120					04/10/22 03:27	1
4-Bromofluorobenzene (Surr)	97		73 - 120					04/10/22 03:27	1
Dibromofluoromethane (Surr)	94		75 - 123					04/10/22 03:27	1

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Surrogate Summary

Client: Wood E&I Solutions Inc
Project/Site: Albion, NY Groundwater Project

Job ID: 480-196578-1

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)			
		TOL (80-120)	DCA (77-120)	BFB (73-120)	DBFM (75-123)
480-196578-1	MW-1-040622	98	109	98	93
480-196578-2	MW-6-040622	98	110	97	92
480-196578-3	MW-5-040622	97	107	95	90
480-196578-4	MW-8R-040622	100	106	97	92
480-196578-4 MS	MW-8R-040622	97	112	96	92
480-196578-4 MSD	MW-8R-040622	98	104	98	90
480-196578-5	MW-9R-040622	98	112	94	94
480-196578-6	MW-10R-040622	97	110	99	94
480-196578-7	MW-50-040622	98	107	98	91
480-196578-8	EB-01-04062022	100	108	100	93
480-196578-9	TRIP BLANK	99	108	97	94
LCS 480-621089/6	Lab Control Sample	98	106	97	92
MB 480-621089/8	Method Blank	99	109	95	95

Surrogate Legend

TOL = Toluene-d8 (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (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 (48-120)	NBZ (46-120)	TPHd14 (60-148)
480-196578-1	MW-1-040622	84	86	76
480-196578-2	MW-6-040622	76	77	69
480-196578-3	MW-5-040622	55	53	49 S1-
480-196578-4	MW-8R-040622	86	74	69
480-196578-4 - DL	MW-8R-040622	84	66	69
480-196578-5	MW-9R-040622	83	86	74
480-196578-6	MW-10R-040622	81	77	60
480-196578-7	MW-50-040622	89	89	78
480-196578-8	EB-01-04062022	79	77	102
LCS 480-621262/2-A	Lab Control Sample	92	82	112
LCSD 480-621262/3-A	Lab Control Sample Dup	84	88	98
MB 480-621262/1-A	Method Blank	105	96	119

Surrogate Legend

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

Isotope Dilution Summary

Client: Wood E&I Solutions Inc
Project/Site: Albion, NY Groundwater Project

Job ID: 480-196578-1

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

Matrix: Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DXE
		(15-110)
480-196578-1	MW-1-040622	40
480-196578-2	MW-6-040622	39
480-196578-3	MW-5-040622	36
480-196578-4	MW-8R-040622	35
480-196578-5	MW-9R-040622	40
480-196578-6	MW-10R-040622	40
480-196578-7	MW-50-040622	38
480-196578-8	EB-01-04062022	36
LCS 480-621020/2-A	Lab Control Sample	37
LCSD 480-621020/3-A	Lab Control Sample Dup	40
MB 480-621020/1-A	Method Blank	37

Surrogate Legend

DXE = 1,4-Dioxane-d8

QC Sample Results

Client: Wood E&I Solutions Inc
Project/Site: Albion, NY Groundwater Project

Job ID: 480-196578-1

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

Lab Sample ID: MB 480-621089/8

Matrix: Water

Analysis Batch: 621089

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			04/10/22 00:00	1
Toluene	ND		1.0	0.51	ug/L			04/10/22 00:00	1
Ethylbenzene	ND		1.0	0.74	ug/L			04/10/22 00:00	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			04/10/22 00:00	1
o-Xylene	ND		1.0	0.76	ug/L			04/10/22 00:00	1
Xylenes, Total	ND		2.0	0.66	ug/L			04/10/22 00:00	1
Total BTEX	ND		2.0	1.0	ug/L			04/10/22 00:00	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		80 - 120		04/10/22 00:00	1
1,2-Dichloroethane-d4 (Surr)	109		77 - 120		04/10/22 00:00	1
4-Bromofluorobenzene (Surr)	95		73 - 120		04/10/22 00:00	1
Dibromofluoromethane (Surr)	95		75 - 123		04/10/22 00:00	1

Lab Sample ID: LCS 480-621089/6

Matrix: Water

Analysis Batch: 621089

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	25.7		ug/L		103	71 - 124
Toluene	25.0	26.1		ug/L		104	80 - 122
Ethylbenzene	25.0	27.5		ug/L		110	77 - 123
m-Xylene & p-Xylene	25.0	25.1		ug/L		100	76 - 122
o-Xylene	25.0	25.0		ug/L		100	76 - 122

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	98		80 - 120
1,2-Dichloroethane-d4 (Surr)	106		77 - 120
4-Bromofluorobenzene (Surr)	97		73 - 120
Dibromofluoromethane (Surr)	92		75 - 123

Lab Sample ID: 480-196578-4 MS

Matrix: Water

Analysis Batch: 621089

Client Sample ID: MW-8R-040622

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	290		1250	1670		ug/L		110	71 - 124
Toluene	28	J	1250	1390		ug/L		109	80 - 122
Ethylbenzene	53		1250	1460		ug/L		112	77 - 123
m-Xylene & p-Xylene	100		1250	1460		ug/L		109	76 - 122
o-Xylene	45	J	1250	1330		ug/L		103	76 - 122

Surrogate	MS %Recovery	MS Qualifier	Limits
Toluene-d8 (Surr)	97		80 - 120
1,2-Dichloroethane-d4 (Surr)	112		77 - 120
4-Bromofluorobenzene (Surr)	96		73 - 120
Dibromofluoromethane (Surr)	92		75 - 123

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QC Sample Results

Client: Wood E&I Solutions Inc
Project/Site: Albion, NY Groundwater Project

Job ID: 480-196578-1

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

Lab Sample ID: 480-196578-4 MSD

Matrix: Water

Analysis Batch: 621089

Client Sample ID: MW-8R-040622

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	290		1250	1580		ug/L		103	71 - 124	5	13
Toluene	28	J	1250	1390		ug/L		109	80 - 122	1	15
Ethylbenzene	53		1250	1440		ug/L		111	77 - 123	1	15
m-Xylene & p-Xylene	100		1250	1440		ug/L		108	76 - 122	1	16
o-Xylene	45	J	1250	1330		ug/L		103	76 - 122	1	16

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Toluene-d8 (Surr)	98		80 - 120
1,2-Dichloroethane-d4 (Surr)	104		77 - 120
4-Bromofluorobenzene (Surr)	98		73 - 120
Dibromofluoromethane (Surr)	90		75 - 123

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

Lab Sample ID: MB 480-621262/1-A

Matrix: Water

Analysis Batch: 621441

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 621262

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0	0.41	ug/L		04/11/22 15:13	04/13/22 01:07	1
Acenaphthylene	ND		5.0	0.38	ug/L		04/11/22 15:13	04/13/22 01:07	1
Anthracene	ND		5.0	0.28	ug/L		04/11/22 15:13	04/13/22 01:07	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		04/11/22 15:13	04/13/22 01:07	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		04/11/22 15:13	04/13/22 01:07	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		04/11/22 15:13	04/13/22 01:07	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		04/11/22 15:13	04/13/22 01:07	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		04/11/22 15:13	04/13/22 01:07	1
Chrysene	ND		5.0	0.33	ug/L		04/11/22 15:13	04/13/22 01:07	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		04/11/22 15:13	04/13/22 01:07	1
Fluoranthene	ND		5.0	0.40	ug/L		04/11/22 15:13	04/13/22 01:07	1
Fluorene	ND		5.0	0.36	ug/L		04/11/22 15:13	04/13/22 01:07	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		04/11/22 15:13	04/13/22 01:07	1
Naphthalene	ND		5.0	0.76	ug/L		04/11/22 15:13	04/13/22 01:07	1
Phenanthrene	ND		5.0	0.44	ug/L		04/11/22 15:13	04/13/22 01:07	1
Pyrene	ND		5.0	0.34	ug/L		04/11/22 15:13	04/13/22 01:07	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	105		48 - 120	04/11/22 15:13	04/13/22 01:07	1
Nitrobenzene-d5 (Surr)	96		46 - 120	04/11/22 15:13	04/13/22 01:07	1
p-Terphenyl-d14 (Surr)	119		60 - 148	04/11/22 15:13	04/13/22 01:07	1

Lab Sample ID: LCS 480-621262/2-A

Matrix: Water

Analysis Batch: 621441

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 621262

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	32.0	29.0		ug/L		91	60 - 120
Acenaphthylene	32.0	27.9		ug/L		87	63 - 120

Eurofins Buffalo

QC Sample Results

Client: Wood E&I Solutions Inc
Project/Site: Albion, NY Groundwater Project

Job ID: 480-196578-1

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

Lab Sample ID: LCS 480-621262/2-A

Matrix: Water

Analysis Batch: 621441

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 621262

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Anthracene	32.0	33.9		ug/L		106	67 - 120
Benzo[a]anthracene	32.0	34.3		ug/L		107	70 - 121
Benzo[a]pyrene	32.0	32.1		ug/L		100	60 - 123
Benzo[b]fluoranthene	32.0	35.1		ug/L		110	66 - 126
Benzo[g,h,i]perylene	32.0	34.1		ug/L		107	66 - 150
Benzo[k]fluoranthene	32.0	35.8		ug/L		112	65 - 124
Chrysene	32.0	33.7		ug/L		105	69 - 120
Dibenz(a,h)anthracene	32.0	33.6		ug/L		105	65 - 135
Fluoranthene	32.0	37.7		ug/L		118	69 - 126
Fluorene	32.0	32.5		ug/L		102	66 - 120
Indeno[1,2,3-cd]pyrene	32.0	34.4		ug/L		107	69 - 146
Naphthalene	32.0	27.6		ug/L		86	57 - 120
Phenanthrene	32.0	33.3		ug/L		104	68 - 120
Pyrene	32.0	34.8		ug/L		109	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	92		48 - 120
Nitrobenzene-d5 (Surr)	82		46 - 120
p-Terphenyl-d14 (Surr)	112		60 - 148

Lab Sample ID: LCSD 480-621262/3-A

Matrix: Water

Analysis Batch: 621441

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 621262

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acenaphthene	32.0	29.2		ug/L		91	60 - 120	1	24
Acenaphthylene	32.0	28.1		ug/L		88	63 - 120	1	18
Anthracene	32.0	32.3		ug/L		101	67 - 120	5	15
Benzo[a]anthracene	32.0	31.4		ug/L		98	70 - 121	9	15
Benzo[a]pyrene	32.0	26.8	*1	ug/L		84	60 - 123	18	15
Benzo[b]fluoranthene	32.0	31.4		ug/L		98	66 - 126	11	15
Benzo[g,h,i]perylene	32.0	30.3		ug/L		95	66 - 150	12	15
Benzo[k]fluoranthene	32.0	29.9		ug/L		93	65 - 124	18	22
Chrysene	32.0	31.3		ug/L		98	69 - 120	7	15
Dibenz(a,h)anthracene	32.0	29.7		ug/L		93	65 - 135	12	15
Fluoranthene	32.0	35.0		ug/L		109	69 - 126	8	15
Fluorene	32.0	32.1		ug/L		100	66 - 120	1	15
Indeno[1,2,3-cd]pyrene	32.0	30.2		ug/L		94	69 - 146	13	15
Naphthalene	32.0	27.7		ug/L		87	57 - 120	0	29
Phenanthrene	32.0	31.1		ug/L		97	68 - 120	7	15
Pyrene	32.0	33.6		ug/L		105	70 - 125	3	19

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Fluorobiphenyl	84		48 - 120
Nitrobenzene-d5 (Surr)	88		46 - 120
p-Terphenyl-d14 (Surr)	98		60 - 148

Eurofins Buffalo

QC Sample Results

Client: Wood E&I Solutions Inc
Project/Site: Albion, NY Groundwater Project

Job ID: 480-196578-1

Method: SM 4500CN E - Total Cyanide

Lab Sample ID: MB 180-395901/4-A

Matrix: Water

Analysis Batch: 396121

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 395901

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0080	mg/L		04/19/22 11:30	04/20/22 12:53	1

Lab Sample ID: HLCS 180-395901/2-A

Matrix: Water

Analysis Batch: 396121

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 395901

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.250	0.249		mg/L		99	90 - 110

Lab Sample ID: LCS 180-395901/3-A

Matrix: Water

Analysis Batch: 396121

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 395901

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.200	0.208		mg/L		104	90 - 110

Lab Sample ID: LLCS 180-395901/1-A

Matrix: Water

Analysis Batch: 396121

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 395901

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.0500	0.0533		mg/L		107	90 - 110

Lab Sample ID: MB 180-395902/4-A

Matrix: Water

Analysis Batch: 396121

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 395902

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0080	mg/L		04/19/22 11:30	04/20/22 13:51	1

Lab Sample ID: HLCS 180-395902/2-A

Matrix: Water

Analysis Batch: 396121

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 395902

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.250	0.253		mg/L		101	90 - 110

Lab Sample ID: LCS 180-395902/3-A

Matrix: Water

Analysis Batch: 396121

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 395902

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.200	0.212		mg/L		106	90 - 110

Lab Sample ID: LLCS 180-395902/1-A

Matrix: Water

Analysis Batch: 396133

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 395902

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.0500	0.0466		mg/L		93	90 - 110

Eurofins Buffalo

QC Sample Results

Client: Wood E&I Solutions Inc
Project/Site: Albion, NY Groundwater Project

Job ID: 480-196578-1

Method: SM 4500CN E - Total Cyanide

Lab Sample ID: MB 180-395903/4-A

Matrix: Water

Analysis Batch: 396122

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 395903

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0080	mg/L		04/19/22 11:30	04/20/22 13:09	1

Lab Sample ID: HLCS 180-395903/2-A

Matrix: Water

Analysis Batch: 396122

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 395903

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.250	0.248		mg/L		99	90 - 110

Lab Sample ID: LCS 180-395903/3-A

Matrix: Water

Analysis Batch: 396122

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 395903

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.200	0.205		mg/L		102	90 - 110

Lab Sample ID: LLCS 180-395903/1-A

Matrix: Water

Analysis Batch: 396122

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 395903

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.0500	0.0510		mg/L		102	90 - 110

QC Association Summary

Client: Wood E&I Solutions Inc
Project/Site: Albion, NY Groundwater Project

Job ID: 480-196578-1

GC/MS VOA

Analysis Batch: 621089

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-196578-1	MW-1-040622	Total/NA	Water	8260C	
480-196578-2	MW-6-040622	Total/NA	Water	8260C	
480-196578-3	MW-5-040622	Total/NA	Water	8260C	
480-196578-4	MW-8R-040622	Total/NA	Water	8260C	
480-196578-5	MW-9R-040622	Total/NA	Water	8260C	
480-196578-6	MW-10R-040622	Total/NA	Water	8260C	
480-196578-7	MW-50-040622	Total/NA	Water	8260C	
480-196578-8	EB-01-04062022	Total/NA	Water	8260C	
480-196578-9	TRIP BLANK	Total/NA	Water	8260C	
MB 480-621089/8	Method Blank	Total/NA	Water	8260C	
LCS 480-621089/6	Lab Control Sample	Total/NA	Water	8260C	
480-196578-4 MS	MW-8R-040622	Total/NA	Water	8260C	
480-196578-4 MSD	MW-8R-040622	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 621262

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-196578-1	MW-1-040622	Total/NA	Water	3510C	
480-196578-2	MW-6-040622	Total/NA	Water	3510C	
480-196578-3	MW-5-040622	Total/NA	Water	3510C	
480-196578-4 - DL	MW-8R-040622	Total/NA	Water	3510C	
480-196578-4	MW-8R-040622	Total/NA	Water	3510C	
480-196578-5	MW-9R-040622	Total/NA	Water	3510C	
480-196578-6	MW-10R-040622	Total/NA	Water	3510C	
480-196578-7	MW-50-040622	Total/NA	Water	3510C	
480-196578-8	EB-01-04062022	Total/NA	Water	3510C	
MB 480-621262/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-621262/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 480-621262/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 621441

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-621262/1-A	Method Blank	Total/NA	Water	8270D	621262
LCS 480-621262/2-A	Lab Control Sample	Total/NA	Water	8270D	621262
LCSD 480-621262/3-A	Lab Control Sample Dup	Total/NA	Water	8270D	621262

Analysis Batch: 621548

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-196578-1	MW-1-040622	Total/NA	Water	8270D	621262
480-196578-2	MW-6-040622	Total/NA	Water	8270D	621262
480-196578-3	MW-5-040622	Total/NA	Water	8270D	621262
480-196578-4	MW-8R-040622	Total/NA	Water	8270D	621262
480-196578-5	MW-9R-040622	Total/NA	Water	8270D	621262
480-196578-6	MW-10R-040622	Total/NA	Water	8270D	621262
480-196578-7	MW-50-040622	Total/NA	Water	8270D	621262
480-196578-8	EB-01-04062022	Total/NA	Water	8270D	621262

Analysis Batch: 622154

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-196578-4 - DL	MW-8R-040622	Total/NA	Water	8270D	621262

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QC Association Summary

Client: Wood E&I Solutions Inc
Project/Site: Albion, NY Groundwater Project

Job ID: 480-196578-1

General Chemistry

Prep Batch: 395901

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-196578-1	MW-1-040622	Total/NA	Water	SM 4500 CN C	
480-196578-2	MW-6-040622	Total/NA	Water	SM 4500 CN C	
480-196578-3	MW-5-040622	Total/NA	Water	SM 4500 CN C	
480-196578-4	MW-8R-040622	Total/NA	Water	SM 4500 CN C	
MB 180-395901/4-A	Method Blank	Total/NA	Water	SM 4500 CN C	
HLCS 180-395901/2-A	Lab Control Sample	Total/NA	Water	SM 4500 CN C	
LCS 180-395901/3-A	Lab Control Sample	Total/NA	Water	SM 4500 CN C	
LLCS 180-395901/1-A	Lab Control Sample	Total/NA	Water	SM 4500 CN C	

Prep Batch: 395902

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-196578-5	MW-9R-040622	Total/NA	Water	SM 4500 CN C	
480-196578-6	MW-10R-040622	Total/NA	Water	SM 4500 CN C	
480-196578-7	MW-50-040622	Total/NA	Water	SM 4500 CN C	
MB 180-395902/4-A	Method Blank	Total/NA	Water	SM 4500 CN C	
HLCS 180-395902/2-A	Lab Control Sample	Total/NA	Water	SM 4500 CN C	
LCS 180-395902/3-A	Lab Control Sample	Total/NA	Water	SM 4500 CN C	
LLCS 180-395902/1-A	Lab Control Sample	Total/NA	Water	SM 4500 CN C	

Prep Batch: 395903

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-196578-8	EB-01-04062022	Total/NA	Water	SM 4500 CN C	
MB 180-395903/4-A	Method Blank	Total/NA	Water	SM 4500 CN C	
HLCS 180-395903/2-A	Lab Control Sample	Total/NA	Water	SM 4500 CN C	
LCS 180-395903/3-A	Lab Control Sample	Total/NA	Water	SM 4500 CN C	
LLCS 180-395903/1-A	Lab Control Sample	Total/NA	Water	SM 4500 CN C	

Analysis Batch: 396121

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-196578-1	MW-1-040622	Total/NA	Water	SM 4500CN E	395901
480-196578-2	MW-6-040622	Total/NA	Water	SM 4500CN E	395901
480-196578-3	MW-5-040622	Total/NA	Water	SM 4500CN E	395901
480-196578-4	MW-8R-040622	Total/NA	Water	SM 4500CN E	395901
480-196578-5	MW-9R-040622	Total/NA	Water	SM 4500CN E	395902
480-196578-6	MW-10R-040622	Total/NA	Water	SM 4500CN E	395902
480-196578-7	MW-50-040622	Total/NA	Water	SM 4500CN E	395902
MB 180-395901/4-A	Method Blank	Total/NA	Water	SM 4500CN E	395901
MB 180-395902/4-A	Method Blank	Total/NA	Water	SM 4500CN E	395902
HLCS 180-395901/2-A	Lab Control Sample	Total/NA	Water	SM 4500CN E	395901
HLCS 180-395902/2-A	Lab Control Sample	Total/NA	Water	SM 4500CN E	395902
LCS 180-395901/3-A	Lab Control Sample	Total/NA	Water	SM 4500CN E	395901
LCS 180-395902/3-A	Lab Control Sample	Total/NA	Water	SM 4500CN E	395902
LLCS 180-395901/1-A	Lab Control Sample	Total/NA	Water	SM 4500CN E	395901

Analysis Batch: 396122

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-196578-8	EB-01-04062022	Total/NA	Water	SM 4500CN E	395903
MB 180-395903/4-A	Method Blank	Total/NA	Water	SM 4500CN E	395903
HLCS 180-395903/2-A	Lab Control Sample	Total/NA	Water	SM 4500CN E	395903
LCS 180-395903/3-A	Lab Control Sample	Total/NA	Water	SM 4500CN E	395903
LLCS 180-395903/1-A	Lab Control Sample	Total/NA	Water	SM 4500CN E	395903

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QC Association Summary

Client: Wood E&I Solutions Inc
Project/Site: Albion, NY Groundwater Project

Job ID: 480-196578-1

General Chemistry

Analysis Batch: 396133

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LLCS 180-395902/1-A	Lab Control Sample	Total/NA	Water	SM 4500CN E	395902

1
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Lab Chronicle

Client: Wood E&I Solutions Inc
Project/Site: Albion, NY Groundwater Project

Job ID: 480-196578-1

Client Sample ID: MW-1-040622

Lab Sample ID: 480-196578-1

Date Collected: 04/06/22 12:10

Matrix: Water

Date Received: 04/08/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	621089	04/10/22 00:23	CRL	TAL BUF
Total/NA	Prep	3510C			621262	04/11/22 15:13	CMC	TAL BUF
Total/NA	Analysis	8270D		1	621548	04/13/22 19:08	PJQ	TAL BUF
Total/NA	Prep	SM 4500 CN C			395901	04/19/22 11:30	CMR	TAL PIT
Total/NA	Analysis	SM 4500CN E		1	396121	04/20/22 13:35	CMR	TAL PIT

Client Sample ID: MW-6-040622

Lab Sample ID: 480-196578-2

Date Collected: 04/06/22 15:05

Matrix: Water

Date Received: 04/08/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	621089	04/10/22 00:46	CRL	TAL BUF
Total/NA	Prep	3510C			621262	04/11/22 15:13	CMC	TAL BUF
Total/NA	Analysis	8270D		1	621548	04/13/22 19:36	PJQ	TAL BUF
Total/NA	Prep	SM 4500 CN C			395901	04/19/22 11:30	CMR	TAL PIT
Total/NA	Analysis	SM 4500CN E		1	396121	04/20/22 13:37	CMR	TAL PIT

Client Sample ID: MW-5-040622

Lab Sample ID: 480-196578-3

Date Collected: 04/06/22 14:10

Matrix: Water

Date Received: 04/08/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	621089	04/10/22 01:09	CRL	TAL BUF
Total/NA	Prep	3510C			621262	04/11/22 15:13	CMC	TAL BUF
Total/NA	Analysis	8270D		1	621548	04/13/22 20:03	PJQ	TAL BUF
Total/NA	Prep	SM 4500 CN C			395901	04/19/22 11:30	CMR	TAL PIT
Total/NA	Analysis	SM 4500CN E		1	396121	04/20/22 13:39	CMR	TAL PIT

Client Sample ID: MW-8R-040622

Lab Sample ID: 480-196578-4

Date Collected: 04/06/22 15:25

Matrix: Water

Date Received: 04/08/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		50	621089	04/10/22 01:32	CRL	TAL BUF
Total/NA	Prep	3510C			621262	04/11/22 15:13	CMC	TAL BUF
Total/NA	Analysis	8270D		1	621548	04/13/22 20:31	PJQ	TAL BUF
Total/NA	Prep	3510C	DL		621262	04/11/22 15:13	CMC	TAL BUF
Total/NA	Analysis	8270D	DL	10	622154	04/19/22 09:48	PJQ	TAL BUF
Total/NA	Prep	SM 4500 CN C			395901	04/19/22 11:30	CMR	TAL PIT
Total/NA	Analysis	SM 4500CN E		1	396121	04/20/22 13:40	CMR	TAL PIT

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Lab Chronicle

Client: Wood E&I Solutions Inc
Project/Site: Albion, NY Groundwater Project

Job ID: 480-196578-1

Client Sample ID: MW-9R-040622

Lab Sample ID: 480-196578-5

Date Collected: 04/06/22 13:15

Matrix: Water

Date Received: 04/08/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	621089	04/10/22 01:55	CRL	TAL BUF
Total/NA	Prep	3510C			621262	04/11/22 15:13	CMC	TAL BUF
Total/NA	Analysis	8270D		1	621548	04/13/22 20:58	PJQ	TAL BUF
Total/NA	Prep	SM 4500 CN C			395902	04/19/22 11:30	CMR	TAL PIT
Total/NA	Analysis	SM 4500CN E		1	396121	04/20/22 14:36	CMR	TAL PIT

Client Sample ID: MW-10R-040622

Lab Sample ID: 480-196578-6

Date Collected: 04/06/22 13:55

Matrix: Water

Date Received: 04/08/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	621089	04/10/22 02:18	CRL	TAL BUF
Total/NA	Prep	3510C			621262	04/11/22 15:13	CMC	TAL BUF
Total/NA	Analysis	8270D		1	621548	04/13/22 21:26	PJQ	TAL BUF
Total/NA	Prep	SM 4500 CN C			395902	04/19/22 11:30	CMR	TAL PIT
Total/NA	Analysis	SM 4500CN E		1	396121	04/20/22 14:37	CMR	TAL PIT

Client Sample ID: MW-50-040622

Lab Sample ID: 480-196578-7

Date Collected: 04/06/22 12:00

Matrix: Water

Date Received: 04/08/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	621089	04/10/22 02:41	CRL	TAL BUF
Total/NA	Prep	3510C			621262	04/11/22 15:13	CMC	TAL BUF
Total/NA	Analysis	8270D		1	621548	04/13/22 21:53	PJQ	TAL BUF
Total/NA	Prep	SM 4500 CN C			395902	04/19/22 11:30	CMR	TAL PIT
Total/NA	Analysis	SM 4500CN E		1	396121	04/20/22 14:39	CMR	TAL PIT

Client Sample ID: EB-01-04062022

Lab Sample ID: 480-196578-8

Date Collected: 04/06/22 15:30

Matrix: Water

Date Received: 04/08/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	621089	04/10/22 03:04	CRL	TAL BUF
Total/NA	Prep	3510C			621262	04/11/22 15:13	CMC	TAL BUF
Total/NA	Analysis	8270D		1	621548	04/13/22 22:21	PJQ	TAL BUF
Total/NA	Prep	SM 4500 CN C			395903	04/19/22 11:30	CMR	TAL PIT
Total/NA	Analysis	SM 4500CN E		1	396122	04/20/22 13:51	CMR	TAL PIT

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-196578-9

Date Collected: 04/06/22 07:00

Matrix: Water

Date Received: 04/08/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	621089	04/10/22 03:27	CRL	TAL BUF

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Lab Chronicle

Client: Wood E&I Solutions Inc
Project/Site: Albion, NY Groundwater Project

Job ID: 480-196578-1

Laboratory References:

TAL BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600
TAL PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

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Accreditation/Certification Summary

Client: Wood E&I Solutions Inc
Project/Site: Albion, NY Groundwater Project

Job ID: 480-196578-1

Laboratory: Eurofins Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-23
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8260C		Water	Total BTEX

Laboratory: Eurofins Pittsburgh

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	06-27-22
California	State	2891	04-30-22
Connecticut	State	PH-0688	09-30-22
Florida	NELAP	E871008	06-30-22
Georgia	State	PA 02-00416	04-30-22
Illinois	NELAP	004375	06-30-22
Kansas	NELAP	E-10350	03-31-22 *
Kentucky (UST)	State	162013	04-30-22
Kentucky (WW)	State	KY98043	12-31-22
Louisiana	NELAP	04041	06-30-22
Maine	State	PA00164	03-06-24
Minnesota	NELAP	042-999-482	12-31-22
Nevada	State	PA00164	08-31-22
New Hampshire	NELAP	2030	04-04-23
New Jersey	NELAP	PA005	06-30-23
New York	NELAP	11182	04-02-22 *
North Carolina (WW/SW)	State	434	12-31-22
North Dakota	State	R-227	04-30-22
Oregon	NELAP	PA-2151	02-07-23
Pennsylvania	NELAP	02-00416	04-30-22
Rhode Island	State	LAO00362	12-31-21 *
South Carolina	State	89014	06-30-22
Texas	NELAP	T104704528	03-31-23
USDA	Federal	P-Soil-01	06-26-22
USDA	US Federal Programs	P330-16-00211	06-26-22
Utah	NELAP	PA001462019-8	05-31-22
Virginia	NELAP	10043	09-15-22
West Virginia DEP	State	142	01-31-23
Wisconsin	State	998027800	08-31-22

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Buffalo

Method Summary

Client: Wood E&I Solutions Inc
Project/Site: Albion, NY Groundwater Project

Job ID: 480-196578-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
SM 4500CN E	Total Cyanide	SM	TAL PIT
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF
SM 4500 CN C	Cyanide, Distillation	SM	TAL PIT

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

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

TAL PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Sample Summary

Client: Wood E&I Solutions Inc
Project/Site: Albion, NY Groundwater Project

Job ID: 480-196578-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-196578-1	MW-1-040622	Water	04/06/22 12:10	04/08/22 10:00
480-196578-2	MW-6-040622	Water	04/06/22 15:05	04/08/22 10:00
480-196578-3	MW-5-040622	Water	04/06/22 14:10	04/08/22 10:00
480-196578-4	MW-8R-040622	Water	04/06/22 15:25	04/08/22 10:00
480-196578-5	MW-9R-040622	Water	04/06/22 13:15	04/08/22 10:00
480-196578-6	MW-10R-040622	Water	04/06/22 13:55	04/08/22 10:00
480-196578-7	MW-50-040622	Water	04/06/22 12:00	04/08/22 10:00
480-196578-8	EB-01-04062022	Water	04/06/22 15:30	04/08/22 10:00
480-196578-9	TRIP BLANK	Water	04/06/22 07:00	04/08/22 10:00

Chain of Custody Record



Client Information		Lab PM: Fischer, Brian J		Carrier Tracking No(s):		COC No: 480-172422-33519.1																	
Accounts Payable- Oakland		Phone:		State of Origin:		Page: Page 1 of 1																	
Company: Wood E&I Solutions Inc		E-Mail: Brian.Fischer@Eurofinset.com		Job #:																			
Address: 180 Grand Avenue Suite 1100 Oakland State, Zip: CA, 94612 Phone: Email: apinvoice.us@woodpie.com Project Name: Albion, NY Groundwater Project Site:		Due Date Requested: TAT Requested (days): Compliance Project: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No PO #: WO #: Project #: SSOW#:		Analysis Requested																			
Sample Identification		Sample Date		Sample Time		Sample Type (G=Grab, L=Leach, S=Soil, O=Water/Oil, BT=Tissue, A=Air)		Matrix (W=Water, S=Soil, O=Water/Oil, BT=Tissue, A=Air)		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		4500 CN E - Local Method		8270D - PAH Semivolatiles		8260C - BTEX - 8260		8270D - SIM MS ID - SIM List		Special Instructions/Note:	
MW-1-040622		4-06-22		1210		G		Water		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		1		2		3		2			
MW-6-040622		4-06-22		1505		G		Water		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		1		2		3		2		mw-6	
MW-5-040622		4-06-22		1410		G		Water		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		1		2		3		2		mw-5	
MW-8R-040622		4-06-22		1525		G		Water		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		1		2		3		2			
MW-9R-040622		4-06-22		1315		G		Water		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		1		2		3		2			
MW-10R-040622		4-06-22		1355		G		Water		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		1		2		3		2			
MW-50-040622		4-06-22		1200		G		Water		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		1		2		3		2			
EB-01-040622		4-06-22		1530		G		Water		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		1		2		3		2			
Trip Blank		4-06-22		700		G		Water		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>						2					
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eurolins | Environment Testing
America

Client Information (Sub Contract Lab)						Sampler:		Lab PM: Fischer, Brian J								480-196578 Chain of Custody							OC No: 240-150612.1				
Client Contact: Shipping/Receiving						Phone:		E-Mail: Brian.Fischer@et.eurofinsus.com								State of Origin: New York							Page: Page 1 of 1				
Company: Eurofins Environment Testing Northeast,								Accreditations Required (See note): NELAP - New York															Job #: 480-196578-1				
Address: 301 Alpha Drive, RIDC Park,						Due Date Requested: 5/5/2022		Analysis Requested															Preservation Codes:				
City: Pittsburgh						TAT Requested (days):																	A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2SSO3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify)				
State, Zip: PA, 15238																											
Phone: 412-963-7058(Tel) 412-963-2468(Fax)						PO #:																					
Email:						WO #:																	Other:				
Project Name: Albion, NY Groundwater Project						Project #: 48021262																					
Site:						SSOW#:																					
Sample Identification - Client ID (Lab ID)						Sample Date		Sample Time		Sample Type (C=comp, G=grab) <small>BT=Tissue, A=Air</small>		Matrix (W=water, S=solid, O=waste/oil)		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		4500_CN_EI4500_CN_C		Total Number of containers		Special Instructions/Note:					
MW-1-040622 (480-196578-1)						4/6/22		12:10 Eastern		Water				X						1							
MW-6-040622 (480-196578-2)						4/6/22		15:05 Eastern		Water				X						1							
MW-5-040622 (480-196578-3)						4/6/22		14:10 Eastern		Water				X						1							
MW-8R-040622 (480-196578-4)						4/6/22		15:25 Eastern		Water				X						1							
MW-9R-040622 (480-196578-5)						4/6/22		13:15 Eastern		Water				X						1							
MW-10R-040622 (480-196578-6)						4/6/22		13:55 Eastern		Water				X						1							
MW-50-040622 (480-196578-7)						4/6/22		12:00 Eastern		Water				X						1							
EB-01-04062022 (480-196578-8)						4/6/22		15:30 Eastern		Water				X						1							
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing North Central, LLC.																											
Possible Hazard Identification												Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)															
Unconfirmed												<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months															
Deliverable Requested: I, II, III, IV, Other (specify)												Primary Deliverable Rank: 2															
												Special Instructions/QC Requirements:															
Empty Kit Relinquished by:								Date:				Time:				Method of Shipment:											
Relinquished by: [Signature]								Date/Time: 4-11-22 1058				Company: ETA				Received by: DW				Date/Time: 4-12-22 9:30				Company: EBTA			
Relinquished by:								Date/Time:				Company:				Received by:				Date/Time:				Company:			
Relinquished by:								Date/Time:				Company:				Received by:				Date/Time:				Company:			
Custody Seals Intact: Δ Yes Δ No				Custody Seal No.:								Cooler Temperature(s) °C and Other Remarks:															

Login Sample Receipt Checklist

Client: Wood E&I Solutions Inc

Job Number: 480-196578-1

Login Number: 196578

List Source: Eurofins Buffalo

List Number: 1

Creator: Wallace, Cameron

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

Login Sample Receipt Checklist

Client: Wood E&I Solutions Inc

Job Number: 480-196578-1

Login Number: 196578

List Number: 2

Creator: Watson, Debbie

List Source: Eurofins Pittsburgh

List Creation: 04/12/22 01:14 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are 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?	N/A	
There are no discrepancies between the containers received 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	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

APPENDIX C

Soil Cap Inspection Form

APPENDIX D

EXAMPLE SITE INSPECTION FORM

Former MPG Site No. 837012

Albion, New York

Date: 4-06-22 Weather: Overcast 43° - 63°
 Inspection By: Joshua C. Huy Time In: 1015
 Others On Site: _____ Time Out: 1615

Visual Observations – Soil Cap and Monitoring Well Network:

	YES	NO	Comments
Is the Soil Cap intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Any signs of significant erosion?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Any signs of tree roots or vegetation damaging the cap?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Any signs of intrusive work (earth disturbing activities) in the capped area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are the groundwater monitoring wells accessible and intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

If maintenance is required to resolve any of the above noted items, describe what actions taken, if any.
 Were all maintenance items resolved during this site visit? If no, what items remain to be resolved?

N/A

Documentation:

	YES	NO	Comments
Are maintenance records on-site and up-to-date?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>Available electronically</u>
Are monitoring records on-site and up-to-date?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>Available electronically</u>



	YES	NO	Comments
Is the most recent Monitoring and Sampling Plan on-site?		/	Available Electronically
Is the Site Management Plan on-site?	/	.	Main Building
If there is intrusive work being performed: - Is there a Health and Safety Plan on-site?		/	No intrusive work
- If the surface area of construction activities is greater than 1 acre in size, is there a Stormwater Pollution Prevention Plan (SWPPP) on-site?		/	No intrusive work

If maintenance is required to resolve any of the above noted items, describe what actions taken, if any. Were all maintenance items resolved during this site visit? If no, what items remain to be resolved?

Note: This form is provided as an example template only and should be modified and updated as needed to reflect current project conditions.