



# **GROUNDWATER MONITORING REPORT JULY THROUGH DECEMBER 2020**

National Grid Former Albion MGP Site  
Albion, New York

*Prepared for:*

**National Grid**  
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*Prepared by:*

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Project No. 0078000050.03.2B





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November 10, 2020

Project 0078000050.03.02B

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

**Subject: Groundwater Monitoring Report—July Through December 2020**

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 July through December 2020.

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



Mr. Michael Squire  
New York State Department of Environmental Conservation  
November 10, 2020  
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cc: Brian Stearns - National Grid  
Steve Stucker - National Grid  
Devin Shay - Groundwater & Environmental Services, Inc.



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# **GROUNDWATER MONITORING REPORT**

## **JULY THROUGH DECEMBER 2020**

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 July through December 2020 ("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.

This is the first sampling event at the site since November 2019. Due to safety regulations stemming from the on-going COVID-19 pandemic and with agreement from the New York State Department of Environmental Conservation (NYSDEC), semiannual sampling was not completed during the January through June 2020 reporting period. Sampling will continue on a semiannual basis, with the next sampling event taking place during the reporting period of January through June 2021.

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

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

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 September 22, 2020, 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 water level in the Erie Canal, which borders the Site to the north, was observed to provide an estimate of current the canal stage. Depth to the canal water surface was measured from a dedicated, non-surveyed point selected and recorded by field personnel to monitor surface water levels. 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 September 22 and 23, 2020 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 8260B 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 North Canton, Ohio, 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 September 22, 2020, measured groundwater elevations in monitoring wells ranged from 6.39 (MW-6) to 13.93 feet (MW-9R). 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 September 2020. The potentiometric surface map indicates that groundwater flow is generally toward the southeast across the site. The horizontal gradient was approximately 0.030 foot per foot (ft/ft) in September 2020.

The surface water in the Erie Canal was 3.53 feet beneath the measuring point on September 22, 2020. This is the first event during which a depth to water was recorded for the Erie Canal. The depth to water in the canal will be measured during future events at the same location.

### 3.2 GROUNDWATER ANALYTICAL RESULTS

Groundwater samples were collected from six monitoring wells for BTEX, PAH, and total cyanide analysis on September 22 and 23, 2020. 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, MW-10R)
- Ethylbenzene (MW-5 and MW-8R)
- Xylenes (MW-8R)
- Acenaphthene (MW-1, MW-5 and MW-8R)
- Naphthalene (MW-1, MW-5, and MW-8R)
- Toluene (MW-8R)
- Total cyanide (MW-5)

Groundwater results from September 2020 are generally consistent with those from the most recent sampling event (November 2019), with the exception of BTEX compounds in well MW-8R, which were detected at concentrations two orders of magnitude greater than those from the November 2019 sampling event. However, the concentrations of BTEX compounds in MW-8R 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 September 2020. 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 Superfund Inorganic Methods Data Review (U.S. EPA, 2017a) and the U.S. EPA National Functional Guidelines for Superfund Organic Methods Data Review (U.S. EPA, 2017b). 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 September 2020 were also used to assess accuracy. No QC issues requiring data qualifiers were identified for the laboratory and field QC samples, except for the recovery of one surrogate in sample MW-10R which was detected outside of control limits leading to a "J+" qualification on associated parameters for this sample (indicating that the reported concentration may be biased high). 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. Phenanthrene was detected in one of the laboratory method blanks, causing the phenanthrene results for MW-5 and its duplicate to be qualified with a "J+" flag. Additionally, phenanthrene was detected in the MW-8R and MW-10R samples at concentrations between their respective reporting limits and the method detection limits; these results were qualified as non-detect at the reporting limit with a "U" flag.
- Data precision was evaluated by comparing analytical results from duplicate pairs and evaluating the calculated RPDs between primary and blind field duplicate samples. The calculated RPD for the blind field duplicate sample collected from MW-5 were within acceptable limits (i.e. less than the project acceptance criterion of 30% for organics and 20% for inorganics). A summary of the data precision evaluation is included on Table 6.

Based upon the data quality review, the September 2020 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 September 2020.

## **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 January to June 2021:

- The first 2021 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 first 2021 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](https://www.dec.ny.gov/docs/water_pdf/togs111.pdf)

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](https://www.dec.ny.gov/docs/remediation_hudson_pdf/der10.pdf)

U.S. Environmental Protection Agency, 2017a. National Functional Guidelines for Superfund Inorganic Methods Data Review: OLEM 9355.0-135, EPA 540-R-2017-001, January.

U.S. Environmental Protection Agency, 2017b. National Functional Guidelines for Superfund Organic Methods Data Review: OLEM 9355.0-134, EPA 540-R-2017-002, January.

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



TABLES

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**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 8260B, 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**

**SEPTEMBER 2020**

Former Albion MGP Site

Albion, New York

<b>Well ID</b>	<b>Well Location</b>	<b>Date Measured</b>	<b>Measuring Point Elevation (NAVD 88)</b>	<b>Depth Below Measuring Point (feet)</b>	<b>Groundwater Elevation (NAVD 88)</b>
MW-1	Up-gradient	9/22/2020	515.04	6.74	508.30
MW-5	On-site	9/22/2020	513.14	7.55	505.59
MW-6	On-site	9/22/2020	510.74	6.39	504.35
MW-8R	On-site	9/22/2020	515.53	11.67	503.86
MW-9R	Down-gradient	9/22/2020	514.70	13.93	500.77
MW-10R	Down-gradient	9/22/2020	515.81	12.75	503.06

Notes

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).

Abbreviations

NAVD 88 = North American Vertical Datum of 1988

**TABLE 3**

**GROUNDWATER ANALYTICAL RESULTS - VOLATILE ORGANIC COMPOUNDS <sup>1,2</sup>**

**SEPTEMBER 2020**

Former Albion MGP Site

Albion, New York

Results in micrograms per liter (µg/L)

Well ID	Sample ID	Sample Date	Benzene	Toluene	Ethylbenzene	m-Xylene & p-Xylene	o-Xylene	Xylenes, Total	Total BTEX
MW-1	MW-1-111919	11/19/2019	<1.0 <sup>3</sup>	<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-5	MW-5-111919/DUP	11/19/2019	<b>23 / 23</b>	<b>4.0 / 4.1</b>	<b>13 / 12</b>	<b>9.1 / 8.6</b>	<b>12 / 11</b>	<b>21 / 20</b>	<b>61 / 59</b>
	MW-5-20200922/DUP	9/22/2020	<b>42 / 42</b>	<b>4.2 / 4.5</b>	<b>8.7 / 9.4</b>	<b>3.4 / 3.4</b>	<b>5.3 / 5.7</b>	<b>8.7 / 9.1</b>	<b>64 / 65</b>
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-8R	MW-8R-112019	11/20/2019	<b>49</b>	<b>2.6</b>	<b>3.7</b>	<b>12</b>	<b>5.7</b>	<b>18</b>	<b>73</b>
	MW-8R-20200923	9/23/2020	<b>4,900</b>	<b>160</b>	<b>380</b>	<b>1,600</b>	<b>520</b>	<b>2,100</b>	<b>7,600</b>
MW-9R	MW-9R-112019	11/20/2019	<1.0	<b>0.57 J</b>	<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-10R	MW-10-111919	11/19/2019	<b>14</b>	<1.0	<1.0	<2.0	<1.0	<2.0	<b>14</b>
	MW-10R-20200922	9/22/2020	<b>24</b>	<1.0	<1.0	<b>0.95 J</b>	<1.0	<b>0.95 J</b>	<b>25</b>
Ambient Water Quality Standards and Guidance Values <sup>4</sup>			1	5	5	5	5	5	--

**TABLE 3**

**GROUNDWATER ANALYTICAL RESULTS - VOLATILE ORGANIC COMPOUNDS <sup>1,2</sup>**

**SEPTEMBER 2020**

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 for VOCs in accordance with U.S. EPA Methods 8260B 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](https://www.dec.ny.gov/docs/water_pdf/togs111.pdf)

Abbreviations

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

TABLE 4

GROUNDWATER ANALYTICAL RESULTS - POLYCYCLIC AROMATIC HYDROCARBONS <sup>1,2</sup>  
SEPTEMBER 2020  
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 <sup>3</sup>	<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-5	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-6	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-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-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-9R	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-10R	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+
Ambient Water Quality Standards and Guidance Values <sup>4</sup>			20	--	50	0.002	0.002	0.002	0.002	--	0.002	--	50	50	0.002	50	50	10

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 PAHs in accordance with U.S. EPA Method 8270D 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](https://www.dec.ny.gov/docs/water_pdf/togs111.pdf)

Abbreviations

- = not applicable
- µg/L = micrograms per liter
- DUP = field duplicate sample
- U.S. EPA = United States Environmental Protection Agency
- 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
- U = The analyte was detected at a concentration below the reporting limit, but due to a detection of the compound in the associated laboratory method blank the detection is not considered valid

**TABLE 5**

**GROUNDWATER ANALYTICAL RESULTS - TOTAL CYANIDE <sup>1,2</sup>**

**SEPTEMBER 2020**

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	<b>0.098</b>
	MW-1-20200922	9/22/2020	<b>0.11</b>
MW-5	MW-5-111919/DUP	11/19/2019	<b>0.16 / 0.16</b>
	MW-5-20200922/DUP	9/22/2020	<b>0.21 / 0.22</b>
MW-6	MW-6-112019	11/20/2019	<b>0.041</b>
	MW-6-20200923	9/23/2020	<b>0.068</b>
MW-8R	MW-8R-112019	11/20/2019	<b>0.21</b>
	MW-8R-20200923	9/23/2020	<b>0.15</b>
MW-9R	MW-9R-112019	11/20/2019	<b>0.054</b>
	MW-9R-20200923	9/23/2020	<b>0.080</b>
MW-10R	MW-10-111919	11/19/2019	<b>0.010</b>
	MW-10R-20200922	9/22/2020	<b>0.030</b>
Ambient Water Quality Standards and Guidance Values <sup>3</sup>			0.2

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. 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](https://www.dec.ny.gov/docs/water_pdf/togs111.pdf)

Abbreviations

DUP = field duplicate  
mg/L = milligrams per liter

TABLE 6

## PRECISION DATA SUMMARY

Former Albion MGP Site  
Albion, New York

Results reported in (ug/L)

Primary Sample ID	Duplicate Sample ID	Collection Date	Compound <sup>1</sup>	Primary Sample		Duplicate Sample		RPD <sup>2</sup>	Absolute Difference Between
				Reporting Limit	Sample Result	Reporting Limit	Sample Result		
MW-5-20200922	MW-50-20200922	9/22/2020	Benzene	1.0	42	1.0	42	0.0	NA
			Toluene	1.0	4.2	1.0	4.5	6.9	NA
			Ethylbenzene	1.0	9	1.0	9	7.7	NA
			m-Xylene & p-Xylene	2.0	3.4	2.0	3.4	NA	0.00
			o-Xylene	1.0	5	1.0	6	7.3	NA
			Xylenes, Total	2.0	9	2.0	9	4.5	NA
			Total BTEX	2.0	64	2.0	65	1.6	NA
			Acenaphthene	25	22	25	24	NA	2.0
			Acenaphthylene	25	19	25	20	NA	1.0
			Anthracene	25	6.0	25	5.8	NA	0.2
			Fluoranthene	25	6.2	25	6.4	NA	0.2
			Fluorene	25	24	25	26	NA	2.0
			Naphthalene	25	13	25	14	NA	1.0
			Phenanthrene	25	29	25	32	NA	3.0
			Pyrene	25	4.0	25	4.2	NA	0.2
			Cyanide, Total	0.010	0.22	0.010	0.21	4.7	NA

## Notes

1. Only compounds detected in at least one of the primary or duplicate samples are shown.

2. Relative Percent Difference (RPD) is calculated by:  $RPD\% = \left| \frac{2(S_1 - S_2)}{S_1 + S_2} \right| \times 100$

where S1 = primary sample concentration and S2 = duplicate sample concentration.

Duplicate results are acceptable when the RPD between the results is less than 30% for **organics** or 20% for **inorganics**.

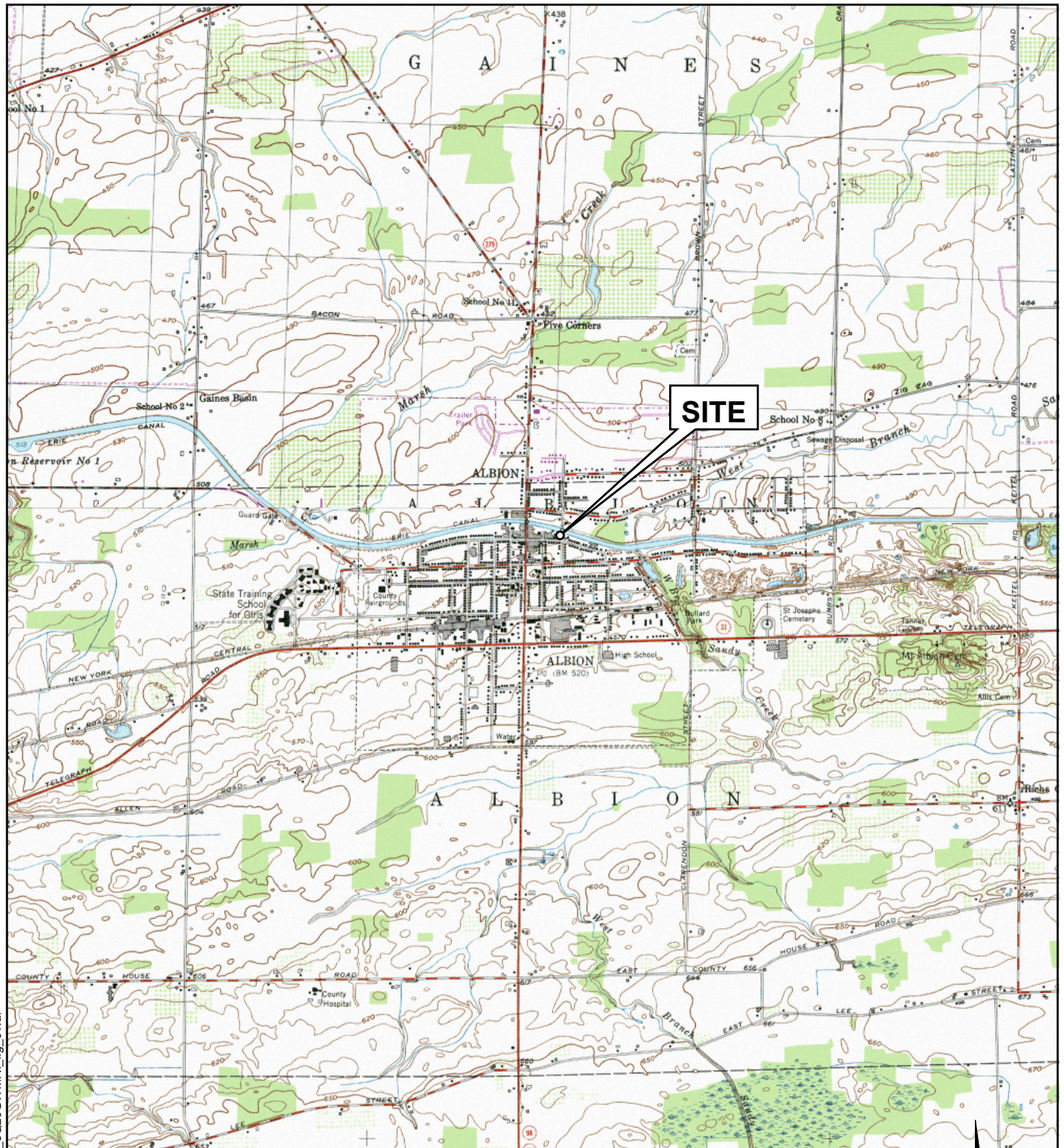
3. RPD is not applicable when one or both sample results are less than two times the reporting limit (RL) for **organics** or less than 5 times the RL for the **inorganics**. When the RPD is not applicable, duplicate results are acceptable when:

- **both results are positive:** the absolute difference between the results is less than the RL.
- **one non-detection (ND) and one positive result:** the absolute difference between the positive results and the reporting limit of the ND is less than the RL of the ND.



## FIGURES

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0 1.0 Mile  
(approximate)



**SITE VICINITY MAP**  
Albion Former MGP Site  
Albion, New York

**wood.**

By: KLU

Date: 10/26/2020

Proj. No. 0078000050.03.02B

Figure **1**



C:\Users\kristin.uber\Desktop\Teams\Wood PLC\Albion\20\_1012\_3Q20GWMR\fig\_02.mxd



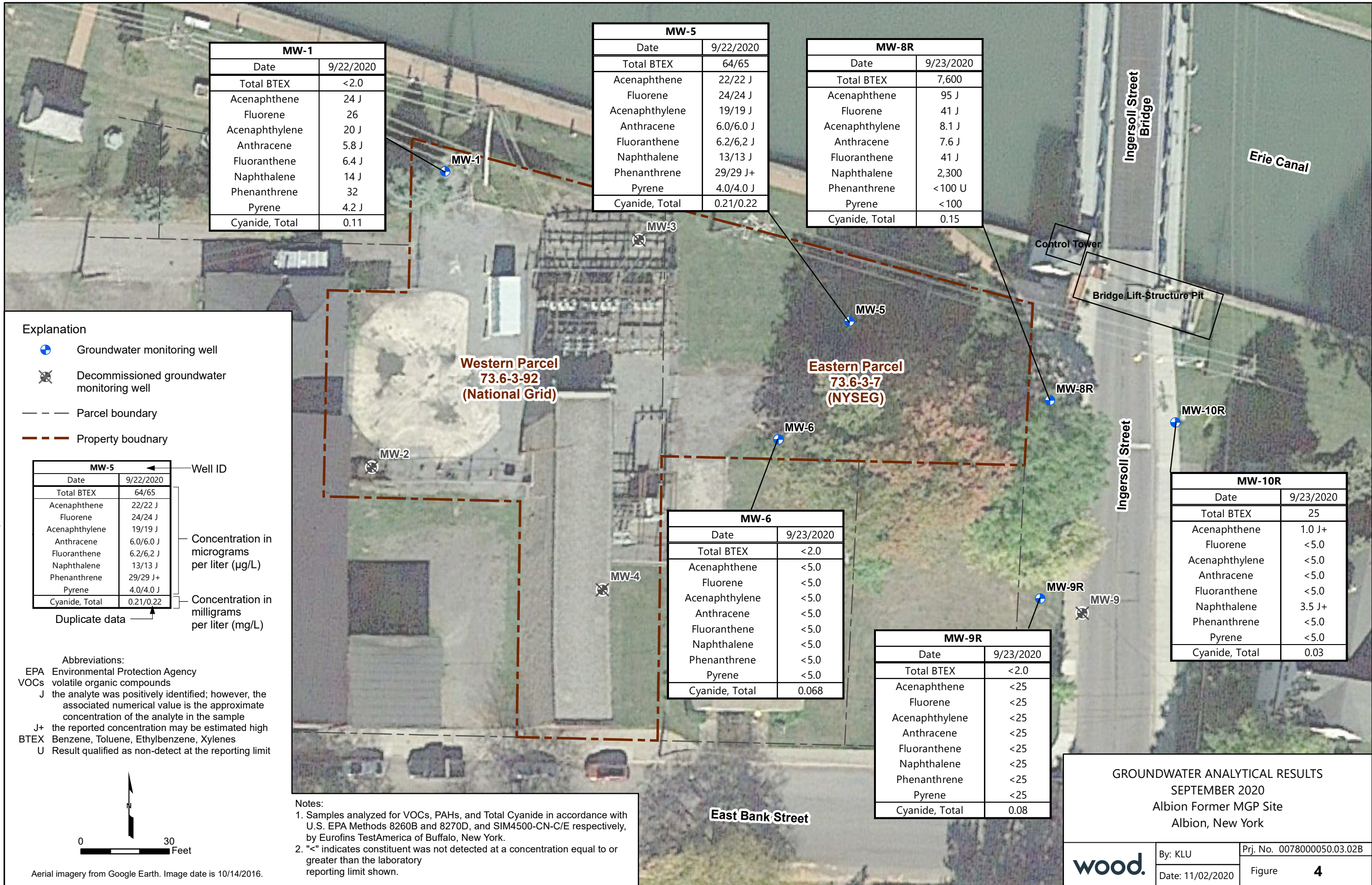


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**APPENDIX A**

Groundwater Sampling Records

# DAILY FIELD RECORD

Page 1 of 2

Project and Task Number: 0078000050	Date: 9/22/20
Project Name: National Grid Site 837012	Weather: 70°F, Sunny
Location: Albion, NY	Field Activity: Gw Sampling
Recorded By: Amelia Lyons	

PERSONNEL:	Name	Company	Time In	Time Out
	Amelia Lyons	Wood	1200	1715

## PERSONAL SAFETY CHECKLIST

<input checked="" type="checkbox"/>	Steel-toed Boots	<input checked="" type="checkbox"/>	Hard Hat	<input type="checkbox"/>	Tyvek Coveralls
<input checked="" type="checkbox"/>	Rubber Gloves	<input checked="" type="checkbox"/>	Safety Goggles	<input type="checkbox"/>	1/2-Face Respirator

DRUM I.D.	DESCRIPTION OF CONTENTS AND QUANTITY	LOCATION

TIME	DESCRIPTION OF WORK PERFORMED			
12:00pm	A. Lyons arrive onsite met with rep from National Grid. Tailgate safety meeting (see field sheets for details)			
12:15pm	locate wells and open, none were pressurized.			
	well	DTW	Comments	
	mw-6	6.39	15.35 DTB	A well tape decimal
	mw-5	7.55	16.53 DTB	with alconox and
	mw-8R	11.67	19.72 DTB	DF water between
	mw-10R	12.75	18.95 DTB	wells.
	mw-9R	13.93	17.10 DTB	
	mw-1	6.74	20.09 DTB	
	Canal	3.53	Point measured to the left of Gate base, against concrete abutment. (see pictures) measured to top of concrete.	

<b>wood.</b>  <b>MONITORING WELL</b> <b>SAMPLE COLLECTION LOG</b>			<b>Project Name:</b> National Grid – Former MGP Site No. 837012, Albion, New York						
			<b>Project/Task #:</b> 007800005013	<b>Sampled By:</b> Amelia Lyons	<b>Date:</b> 9/22/20				
<b>Well Number/ID:</b> MW-1			<b>Sample ID:</b> MW-1-092220			<b>Duplicate ID:</b> N/A			
<b>Method of Purging:</b> Low-Flow			<b>Method of Sampling:</b> Low-Flow			<b>Intake Depth:</b> 13' bgs			
<b>Field Equipment</b>									
<b>Equipment</b>		<b>Model</b>		<b>Serial #/Rental ID</b>		<b>Date Received/Serviced</b>		<b>Date Calibrated</b>	
Multi-Probe		Herbe		XKUVTY00		Aug 2018 9/21/20		9/22/2020	
Turbidimeter									
<b>Casing Purge Volume Calculations</b>									
A. Depth to Water = <u>6.74</u> ft.			D. Water Column (B-A) = <u>13.35</u> ft.			Depth to Water After Sampling = <u>8.40</u> ft.			
B. Well Total Depth = <u>20.04</u> ft.			E. 1 Well Volume ( $C^2 \times 0.0408 \times D$ ) = <u>2.18</u> gal.			Actual Volume Purged (from below) = <u>4000</u> gal/mf.			
C. Well Diameter = <u>2</u> in.			F. 3 Well Volumes ( $3 \times E$ ) = <u>6.54</u> gal.			(If applicable, see pumping system volume calculation below)			
Pump and Flow Cell Volume		$V_p =$ <b>N/A</b>		ml		<b>Pumping System Volume Calculation</b>			
Tubing Inside Diameter		$D =$ <b>N/A</b>		in.		Pumping System Volume ( $V_s$ )			
Tubing Length		$L =$ <b>N/A</b>		in.		$V_s = V_p + \pi \times D^2 / 4 \times L \times 16.39 \text{ ml/in}^3$			
Conversion from Inches <sup>3</sup> to ml		$1 \text{ in}^3 =$ 16.39		ml		$V_s = ( \quad ) + (3.1415 \times \quad^2 / 4) \times ( \quad ) \times 16.39$			
<b>Purging Data</b>			<b>Water Quality Parameters (within range for 3 consecutive readings if low-flow sampling)</b>						
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	Dissolved Oxygen (mg/L)	pH	Oxidation Reduction Potential (mV)	Turbidity (NTU)	Remarks
				( $\mu\text{S/cm}$ ) ms/cm					
			Stabilization <sup>(1)</sup> :	$\pm 3\%$	$\pm 0.2 \text{ mg/L}$	$\pm 0.2$	$\pm 20 \text{ mV}$	$<10 \text{ NTU}$	
1350	Initial	100	21.26	0.607	3.64	5.48	320	3.6	7.55
1355	500	↓	21.01	0.601	3.10	5.76	301	3.6	8.89
1400	1000		20.05	0.595	2.51	6.08	287	3.7	8.05
1405	1500		19.78	0.615	1.45	6.23	274	3.0	8.19
1410	2000		19.65	0.646	1.09	6.33	266	3.2	8.19
1415	2500		19.55	0.689	0.93	6.41	262	2.8	8.20
1420	3000		19.40	0.755	0.89	6.52	256	2.8	8.25
1425	3500		19.33	0.769	0.69	6.61	253	2.8	8.31
1430	4000		19.22	0.777	0.70	6.64	252	2.8	8.34
<b>Remarks:</b> TOC PID = <u>N/A</u> Sampled MW-1-092220 @ 1435 No odor present, sample clear.									
Purge pumping system volume before recording parameters on dedicated pumps only.									
<sup>(1)</sup> Based on EPA low-flow sampling guidelines, ASTM D 6771-02, and research validated Best Practices (see SAP for details).									
<b>Signature:</b> <i>Amelia Lyons</i>					<b>Checked By:</b>				



 <b>MONITORING WELL</b> <b>SAMPLE COLLECTION LOG</b>			<b>Project Name:</b> National Grid – Former MGP Site No. 837012, Albion, New York						
			<b>Project/Task #:</b> 0078000050.03	<b>Sampled By:</b> <i>Amelia Lyons</i>	<b>Date:</b> <i>9/22/20</i>				
<b>Well Number/ID:</b> MW-5			<b>Sample ID:</b> MW-5-092220			<b>Duplicate ID:</b> MW-50-092220			
<b>Method of Purging:</b> Low-Flow			<b>Method of Sampling:</b> Low-Flow			<b>Intake Depth:</b> 14.5' bgs			
<b>Field Equipment</b>									
<b>Equipment</b>		<b>Model</b>	<b>Serial #/Rental ID</b>		<b>Date Received/Serviced</b>		<b>Date Calibrated</b>		
Multi-Probe		<i>Hetbe</i>	<i>XKUVTY00</i>		<i>9/21/20</i>		<i>9/22/20</i>		
Turbidimeter									
<b>Casing Purge Volume Calculations</b>									
A. Depth to Water = <i>7.54</i> ft.			D. Water Column (B-A) = <i>8.99</i> ft. <i>1.46 m</i>			Depth to Water After Sampling = <i>9.20</i> ft.			
B. Well Total Depth = <i>16.53</i> ft.			E. 1 Well Volume ( $C^2 \times 0.0408 \times D$ ) = <i>4.15</i> gal.			Actual Volume Purged (from below) = <i>2800</i> gal (ml) <i>4000</i>			
C. Well Diameter = <i>2</i> in.			F. 3 Well Volumes ( $3 \times E$ ) = <i>4.40</i> gal.			(If applicable, see pumping system volume calculation below)			
Pump and Flow Cell Volume		$V_p$	=	<b>N/A</b>	ml	<b>Pumping System Volume Calculation</b>  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		$D$	=	<b>N/A</b>	in.				
Tubing Length		$L$	=	<b>N/A</b>	in.				
Conversion from Inches <sup>3</sup> to ml		$1 \text{ in}^3$	=	16.39	ml				
<b>Purging Data</b>			<b>Water Quality Parameters (within range for 3 consecutive readings if low-flow sampling)</b>						
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 <sup>(1)</sup> :	± 3%	± 0.2 mg/L	± 0.2	± 20 mV	<10 NTU	
<i>1500</i>	Initial	<i>100</i>	<i>18.04</i>	<i>0.947</i>	<i>2.56</i>	<i>6.75</i>	<i>275<sup>2</sup></i>	<i>17.5</i>	<i>8.39</i>
<i>1505</i>	<i>500</i>	<i>✓</i>	<i>17.23</i>	<i>0.974</i>	<i>1.98</i>	<i>6.91</i>	<i>-79</i>	<i>12.4</i>	<i>8.85</i>
<i>1510</i>	<i>1000</i>		<i>17.15</i>	<i>0.973</i>	<i>1.87</i>	<i>6.94</i>	<i>-86</i>	<i>5.8</i>	<i>8.86</i>
<i>1515</i>	<i>1500</i>		<i>16.76</i>	<i>0.962</i>	<i>1.84</i>	<i>7.37</i>	<i>-115</i>	<i>5.0</i>	<i>8.97</i>
<i>1520</i>	<i>2000</i>		<i>16.67</i>	<i>0.954</i>	<i>1.84</i>	<i>7.38</i>	<i>-118</i>	<i>4.6</i>	<i>9.05</i>
<i>1525</i>	<i>2500</i>		<i>16.69</i>	<i>0.956</i>	<i>1.78</i>	<i>7.41</i>	<i>-120</i>	<i>3.8</i>	<i>9.10</i>
<i>1530</i>	<i>3000</i>		<i>16.67</i>	<i>0.951</i>	<i>1.84</i>	<i>7.44</i>	<i>-123</i>	<i>4.8</i>	<i>9.12</i>
<i>1535</i>	<i>3500</i>		<i>Sampled MW-5-092220</i>						
<i>1540</i>	<i>4000</i>	<i>Sampled MW-50-092220</i>							
<b>Remarks:</b> TOC PID = <i>Sample was clear, and an odor was present.</i>									
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).									
<b>Signature:</b> <i>Carla J. [Signature]</i>					<b>Checked By:</b>				

**wood.**

**MONITORING WELL  
SAMPLE COLLECTION LOG**

**Project Name:**

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

**Project/Task #:**

0078000050.03

**Sampled By:**

*Amelia Lyons*

**Date:**

9/22/20

**Well Number/ID:** MW-10R

**Sample ID:** MW-10R-092220

**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	<i>Horiba</i>	<i>XKUVTY00</i>	<i>9/21/20</i>	<i>9/22/20</i>
Turbidimeter				

**Casing Purge Volume Calculations**

A. Depth to Water = <i>12.75</i> ft.	D. Water Column (B-A) = <i>6.20</i> ft.	Depth to Water After Sampling = <i>14.20</i> ft.
B. Well Total Depth = <i>18.95</i> ft.	E. 1 Well Volume ( $C^2 \times 0.0408 \times D$ ) = <i>1.01</i> gal.	Actual Volume Purged (from below) = <i>5,250</i> gal/ID?
C. Well Diameter = <i>2</i> in.	F. 3 Well Volumes ( $3 \times E$ ) = <i>3.04</i> gal.	(If applicable, see pumping system volume calculation below)

Pump and Flow Cell Volume	$V_p =$ <b>N/A</b> ml	<b>Pumping System Volume Calculation</b>  Pumping System Volume ( $V_s$ )  $V_s = V_p + \pi * D^2 / 4 * L * 16.39 \text{ ml/in}^3$  $V_s = ( \quad ) + (3.1415 * \quad^2 / 4) * ( \quad ) * 16.39$
Tubing Inside Diameter	$D =$ <b>N/A</b> in.	
Tubing Length	$L =$ <b>N/A</b> in.	
Conversion from Inches <sup>3</sup> 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 type="checkbox"/> ml/min	Temp (°C)	Specific Conductance (µS/cm)	Dissolved Oxygen (mg/L)	pH	Oxidation Reduction Potential (mV)	Turbidity (NTU)	Remarks
			Stabilization <sup>(1)</sup> :	± 3%	± 0.2 mg/L	± 0.2	± 20 mV	<10 NTU	
<i>1600</i>	<i>Initial</i>	<i>125</i>	<i>17.84</i>	<i>2.42</i>	<i>2.06</i>	<i>7.09</i>	<i>-12</i>	<i>16.0</i>	<i>13.07</i>
<i>1605</i>	<i>625</i>	<i>125</i>	<i>16.98</i>	<i>3.40</i>	<i>0.88</i>	<i>7.02</i>	<i>28</i>	<i>18.0</i>	<i>13.39</i>
<i>1610</i>	<i>1,250</i>	<i>100</i>	<i>16.76</i>	<i>4.50</i>	<i>0.59</i>	<i>6.95</i>	<i>43</i>	<i>10.6</i>	<i>13.54</i>
<i>1615</i>	<i>1,750</i>	<i>↓</i>	<i>16.70</i>	<i>4.88</i>	<i>0.50</i>	<i>6.94</i>	<i>50</i>	<i>8.1</i>	<i>13.65</i>
<i>1620</i>	<i>2,250</i>		<i>16.61</i>	<i>5.23</i>	<i>0.43</i>	<i>6.94</i>	<i>62</i>	<i>4.8</i>	<i>13.73</i>
<i>1625</i>	<i>2,750</i>		<i>16.53</i>	<i>5.44</i>	<i>0.40</i>	<i>6.96</i>	<i>66</i>	<i>4.4</i>	<i>13.88</i>
<i>1630</i>	<i>3,250</i>		<i>16.47</i>	<i>5.62</i>	<i>0.35</i>	<i>7.01</i>	<i>69</i>	<i>3.4</i>	<i>13.89</i>
<i>1635</i>	<i>3,750</i>		<i>16.40</i>	<i>5.78</i>	<i>0.34</i>	<i>7.09</i>	<i>69</i>	<i>3.5</i>	<i>13.92</i>
<i>1640</i>	<i>4,250</i>	<i>↓</i>	<i>16.38</i>	<i>5.90</i>	<i>0.33</i>	<i>7.17</i>	<i>69</i>	<i>3.4</i>	<i>13.95</i>

**Remarks:** TOC PID =

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

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

**Signature:**

*Amelia Lyons*

**Checked By:**

Purging/Sampling Date: 9/22/20

Well Number/ID: MW-10R

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

[illegible]**Remarks:**

No odor present, Sample clear.

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

 <b>MONITORING WELL SAMPLE COLLECTION LOG</b>			<b>Project Name:</b> National Grid – Former MGP Site No. 837012, Albion, New York						
			<b>Project/Task #:</b> 0078000050.03			<b>Sampled By:</b> <i>Ameke Lyons</i>		<b>Date:</b> 9/23/20	
<b>Well Number/ID:</b> MW-6			<b>Sample ID:</b> MW-6-092320			<b>Duplicate ID:</b> N/A			
<b>Method of Purging:</b> Low-Flow			<b>Method of Sampling:</b> Low-Flow			<b>Intake Depth:</b> 13.5' bgs			
<b>Field Equipment</b>									
<b>Equipment</b>		<b>Model</b>		<b>Serial #/Rental ID</b>		<b>Date Received/Serviced</b>		<b>Date Calibrated</b>	
Multi-Probe		<i>Herba</i>		<i>XKUVTY00</i>		<i>9/21/20</i>		<i>9/23/20</i>	
Turbidimeter									
<b>Casing Purge Volume Calculations</b>									
A. Depth to Water = <i>6.41</i> ft.			D. Water Column (B-A) = <i>8.94</i> ft.			Depth to Water After Sampling = <i>7.00</i> ft.			
B. Well Total Depth = <i>15.35</i> ft.			E. 1 Well Volume (C <sup>2</sup> x 0.0408 x D) = <i>1.46</i> gal.			Actual Volume Purged (from below) = <i>3850</i> gal/ml.			
C. Well Diameter = <i>2</i> in.			F. 3 Well Volumes (3 x E) = <i>4.40</i> gal.			(If applicable, see pumping system volume calculation below)			
Pump and Flow Cell Volume		V <sub>p</sub> = <b>N/A</b>		ml		<b>Pumping System Volume Calculation</b>  Pumping System Volume (V <sub>s</sub> )  $V_s = V_p + \pi * D^2 / 4 * L * 16.39 \text{ ml/in}^3$  $V_s = ( \quad ) + (3.1415 * \quad^2 / 4) * ( \quad ) * 16.39$			
Tubing Inside Diameter		D = <b>N/A</b>		in.					
Tubing Length		L = <b>N/A</b>		in.					
Conversion from Inches <sup>3</sup> to ml		1 in <sup>3</sup> = 16.39		ml					
<b>Purging Data</b>			<b>Water Quality Parameters (within range for 3 consecutive readings if low-flow sampling)</b>						
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 <sup>(1)</sup> :	± 3%	± 0.2 mg/L	± 0.2	± 20 mV	<10 NTU	
730	Initial	110	16.43	0.800	1.23	5.29	288	7.7	6.72
735	550		16.24	0.746	0.61	5.86	263	5.2	6.80
740	1,100		16.18	0.740	0.53	6.08	250	5.9	6.81
745	1,650		16.12	0.737	0.45	6.20	238	6.2	6.87
750	2,200		16.05	0.738	0.39	6.30	227	8.7	6.93
755	2,750		16.02	0.739	0.37	6.32	222	7.8	6.99
800	3,300		15.96	0.742	0.37	6.39	214	8.4	6.98
805	3,850		Sampled mw-6-092320						
<b>Remarks:</b> TOC PID = <i>Sample clear, odorless</i>									
Purge pumping system volume before recording parameters on dedicated pumps only.									
<small>(1) Based on EPA low-flow sampling guidelines, ASTM D 6771-02, and research validated Best Practices (see SAP for details).</small>									
<b>Signature:</b> <i>Contra J. Smith</i>					<b>Checked By:</b>				

<b>wood.</b>  <b>MONITORING WELL</b> <b>SAMPLE COLLECTION LOG</b>			<b>Project Name:</b> National Grid – Former MGP Site No. 837012, Albion, New York						
			<b>Project/Task #:</b> 0078000050.03	<b>Sampled By:</b> <i>Amelia Lyons</i>	<b>Date:</b> 9/23/20				
<b>Well Number/ID:</b> MW-8R			<b>Sample ID:</b> MW-8R-092320			<b>Duplicate ID:</b> N/A			
<b>Method of Purging:</b> Low-Flow			<b>Method of Sampling:</b> Low-Flow			<b>Intake Depth:</b> 16' bgs			
<b>Field Equipment</b>									
<b>Equipment</b>		<b>Model</b>		<b>Serial #/Rental ID</b>		<b>Date Received/Serviced</b>		<b>Date Calibrated</b>	
Multi-Probe		<i>Her. 102</i>		<i>XKUVTY00</i>		<i>9/21/20</i>		<i>9/23/20</i>	
Turbidimeter									
<b>Casing Purge Volume Calculations</b>									
A. Depth to Water = <i>11.67</i> ft.			D. Water Column (B-A) = <i>8.94</i> ft.			Depth to Water After Sampling = <i>13.19</i> ft.			
B. Well Total Depth = <i>19.72</i> ft.			E. 1 Well Volume (C <sup>2</sup> x 0.0408 x D) = <i>1.46</i> gal.			Actual Volume Purged (from below) = <i>14,300</i> gal/ml.			
C. Well Diameter = <i>2</i> in.			F. 3 Well Volumes (3 x E) = <i>4.38</i> gal.			(If applicable, see pumping system volume calculation below)			
Pump and Flow Cell Volume		V <sub>p</sub> = <b>N/A</b>		ml		<b>Pumping System Volume Calculation</b>  Pumping System Volume (V <sub>s</sub> )  $V_s = V_p + \pi * D^2 / 4 * L * 16.39 \text{ ml/in}^3$  $V_s = ( \quad ) + (3.1415 * \quad^2 / 4) * ( \quad ) * 16.39$			
Tubing Inside Diameter		D = <b>N/A</b>		in.					
Tubing Length		L = <b>N/A</b>		in.					
Conversion from Inches <sup>3</sup> to ml		1 in <sup>3</sup> = 16.39		ml					
<b>Purging Data</b>			<b>Water Quality Parameters (within range for 3 consecutive readings if low-flow sampling)</b>						
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 <sup>(1)</sup> :	± 3%	± 0.2 mg/L	± 0.2	± 20 mV	<10 NTU	
820	Initial	130	15.83	2.32	0.65	6.13	-42	4.2	11.97
825	650	↓	15.83	2.43	0.50	6.64	-107	4.0	12.15
830	1,300		15.75	2.40	0.61	6.70	-121	3.7	12.27
835	1,950		15.71	2.35	0.79	6.87	-131	3.3	12.40
840	2,600		15.60	2.31	0.83	6.87	-138	2.6	12.54
845	3,250		15.60	2.23	0.82	6.90	-143	2.7	12.69
850	3,900		15.43	2.17	0.97	6.95	-144	5.2	12.78
855	4,550		15.56	2.09	0.88	6.97	-146	5.7	12.86
900	5,200		15.46	2.03	0.90	6.98	-146	2.3	12.95
<b>Remarks:</b> TOC PID = <i>No data Slight odor, Sample clear</i>									
Purge pumping system volume before recording parameters on dedicated pumps only.									
<sup>(1)</sup> Based on EPA low-flow sampling guidelines, ASTM D 6771-02, and research validated Best Practices (see SAP for details).									
<b>Signature:</b> <i>Amelia Lyons</i>					<b>Checked By:</b>				

Purging/Sampling Date: 9/23/20

Well Number/ID: MW-8R

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

[illegible]**Remarks:**

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

 <b>MONITORING WELL SAMPLE COLLECTION LOG</b>			<b>Project Name:</b> National Grid – Former MGP Site No. 837012, Albion, New York						
			<b>Project/Task #:</b> 0078000050.03	<b>Sampled By:</b> <i>Amelia Lyons</i>	<b>Date:</b> <i>9/23/20</i>				
<b>Well Number/ID:</b> MW-9R			<b>Sample ID:</b> MW-9R- <i>092320</i>			<b>Duplicate ID:</b> N/A			
<b>Method of Purging:</b> Low-Flow			<b>Method of Sampling:</b> Low-Flow			<b>Intake Depth:</b> <i>12'</i> bgs <i>16'</i>			
<b>Field Equipment</b>									
Equipment	Model	Serial #/Rental ID	Date Received/Serviced	Date Calibrated					
Multi-Probe	<i>Horiba</i>	<i>XKVUT400</i>	<i>9/21/20</i>	<i>9/23/20</i>					
Turbidimeter									
<b>Casing Purge Volume Calculations</b>									
A. Depth to Water = <i>13.97</i> ft.		D. Water Column (B-A) = <i>3.13</i> ft.		Depth to Water After Sampling = <i>16.90</i> ft.					
B. Well Total Depth = <i>17.10</i> ft.		E. 1 Well Volume (C <sup>2</sup> x 0.0408 x D) = <i>0.51</i> gal.		Actual Volume Purged (from below) = <i>8000</i> gal( <i>m</i> ).					
C. Well Diameter = <i>2</i> in.		F. 3 Well Volumes (3 x E) = <i>1.53</i> gal.		(If applicable, see pumping system volume calculation below)					
Pump and Flow Cell Volume		V <sub>p</sub> =	<b>N/A</b>	<b>Pumping System Volume Calculation</b>					
Tubing Inside Diameter		D =	<b>N/A</b>	Pumping System Volume (V <sub>s</sub> )					
Tubing Length		L =	<b>N/A</b>	V <sub>s</sub> = V <sub>p</sub> + π * D <sup>2</sup> / 4 * L * 16.39 ml/in <sup>3</sup>					
Conversion from Inches <sup>3</sup> to ml		1 in <sup>3</sup> =	16.39	_____ V <sub>s</sub> = ( _____ ) + ( 3.1415 * _____ <sup>2</sup> / 4 ) * ( _____ ) * 16.39					
<b>Purging Data</b>			<b>Water Quality Parameters (within range for 3 consecutive readings if low-flow sampling)</b>						
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 <sup>(1)</sup> :	± 3%	± 0.2 mg/L	± 0.2	± 20 mV	<10 NTU	
<i>1030</i>	Initial	<i>100</i>	<i>15.73</i>	<i>5.52</i>	<i>0.86</i>	<i>6.88</i>	<i>-96</i>	<i>0.4</i>	<i>14.17</i>
<i>1035</i>	<i>500</i>	↓	<i>16.05</i>	<i>5.46</i>	<i>0.52</i>	<i>6.76</i>	<i>-77</i>	<i>0.2</i>	<i>14.23</i>
<i>1040</i>	<i>1000</i>		<i>16.23</i>	<i>5.39</i>	<i>0.70</i>	<i>6.91</i>	<i>-74</i>	<i>0.2</i>	<i>14.37</i>
<i>1045</i>	<i>1500</i>		<i>16.70</i>	<i>5.35</i>	<i>0.75</i>	<i>6.85</i>	<i>-68</i>	<i>0.0</i>	<i>14.42</i>
<i>1050</i>	<i>2000</i>		<i>16.24</i>	<i>5.42</i>	<i>0.66</i>	<i>6.80</i>	<i>-51</i>	<i>0.0</i>	<i>14.52</i>
<i>1055</i>	<i>2500</i>		<i>16.10</i>	<i>5.60</i>	<i>0.61</i>	<i>6.90</i>	<i>-51</i>	<i>0.0</i>	<i>14.71</i>
<i>1100</i>	<i>3000</i>		<i>16.07</i>	<i>5.87</i>	<i>0.53</i>	<i>6.88</i>	<i>-42</i>	<i>0.0</i>	<i>14.91</i>
<i>1105</i>	<i>3500</i>		<i>16.10</i>	<i>5.83</i>	<i>0.54</i>	<i>6.86</i>	<i>-38</i>	<i>0.0</i>	<i>15.12</i>
<i>1110</i>	<i>4000</i>		<i>16.05</i>	<i>5.40</i>	<i>0.46</i>	<i>6.88</i>	<i>-33</i>	<i>0.0</i>	<i>15.59</i>
<b>Remarks:</b> TOC PID = _____									
<i>Intake changed to 16' BGS due to lower WL.</i>									
Purge pumping system volume before recording parameters on dedicated pumps only.									
<small>(1) Based on EPA low-flow sampling guidelines, ASTM D 6771-02, and research validated Best Practices (see SAP for details).</small>									
<b>Signature:</b> <i>Chad J. Long</i>					<b>Checked By:</b>				

Purging/Sampling Date: 9/23/20

Well Number/ID: MW-9R

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

Purging Data			Water Quality Parameters (within range for 3 consecutive readings)						
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 <sup>(1)</sup> :	± 3%	± 0.2 mg/L	± 0.2	± 20 mV	<10 NTU	
1115	4500	100	15.77	5.78	0.31	6.91	-32	0.0	15.89
1120	5000		16.00	5.98	0.34	6.79	-24	0.0	16.10
1125	5500		15.84	6.18	0.34	6.89	-26	0.0	16.25
1130	6000		16.85	6.21	0.31	6.88	-21	0.0	16.50
1135	6500		17.00	6.26	0.50	6.89	-22	0.0	16.62
1140	7000		16.23	6.25	0.67	6.98	-32	0.0	16.69
1145	7500		16.11	6.23	0.44	6.98	-36	0.0	16.75
1150	8000		16.27	6.05	0.54	6.98	-43	0.0	16.90
1155			well dry.						
1200			wait for recharge, then sample.						
1210			Sampled mw-9R-092320						

**Remarks:**

Slight odor, clear

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



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**APPENDIX B**

Analytical Laboratory Report



## ANALYTICAL REPORT

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

Laboratory Job ID: 480-175549-1

Client Project/Site: Albion, NY Groundwater Project

**For:**

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

Attn: Mr. Alex Rosenthal



Authorized for release by:

10/2/2020 11:55:25 AM

Rebecca Jones, Project Management Assistant I

[Rebecca.Jones@Eurofinset.com](mailto:Rebecca.Jones@Eurofinset.com)

Designee for

Brian Fischer, Manager of Project Management  
(716)504-9835

[Brian.Fischer@Eurofinset.com](mailto:Brian.Fischer@Eurofinset.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: 480-175549-1

## 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
*	LCS or LCSD is outside acceptance limits.
*1	LCS/LCSD RPD exceeds control limits.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate recovery exceeds control limits

## 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: 480-175549-1

## Job ID: 480-175549-1

### Laboratory: Eurofins TestAmerica, Buffalo

#### Narrative

#### Job Narrative 480-175549-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 9/24/2020 2:15 PM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.9° C.

#### GC/MS VOA

Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-8R (480-175549-4), (480-175549-F-4 MS) and (480-175549-F-4 MSD). 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.

#### GC/MS Semi VOA

Method 8270D: The following samples were diluted due to the nature of the sample matrix: MW-5 (480-175549-2), MW-8R (480-175549-4), MW-9R (480-175549-5) and MW-50 (480-175549-7). Elevated reporting limits (RLs) are provided.

Method 8270D: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base 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-10R (480-175549-6). These results have been reported and qualified.

Method 8270D: Benzo[a]anthracene The laboratory control sample duplicate (LCSD) for preparation batch 480-551196 and analytical batch 480-551478 recovered outside control limits for the following analytes: Benzo[b]fluoranthene. These analytes were biased high in the LCSD and were not detected in the associated samples; therefore, the data have been reported.

Method 8270D: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 480-551196 and analytical batch 480-551478 recovered outside control limits for the following analytes: Benzo[b]fluoranthene and Dibenz(a,h)anthracene.

Method 8270D: The following sample required a dilution due to the nature of the sample matrix: MW-8R (480-175549-4). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8270D: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-8R (480-175549-4). Elevated reporting limits (RLs) are provided.

Method 8270D: The following sample required a dilution due to the nature of the sample matrix: MW-8R (480-175549-4). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8270D: The laboratory control sample duplicate (LCSD) for preparation batch 480-551196 and analytical batch 480-551625 recovered outside control limits for the following analytes: Benzo[b]fluoranthene. These analytes were biased high in the LCSD and were not detected in the associated samples; therefore, the data have been reported.

Method 8270D: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 480-551196 and analytical batch 480-551625 recovered outside control limits for the following analytes: Benzo[b]fluoranthene and Dibenz(a,h)anthracene.

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.

## Case Narrative

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

Job ID: 480-175549-1

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### Job ID: 480-175549-1 (Continued)

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Laboratory: Eurofins TestAmerica, Buffalo (Continued)

#### Organic Prep

Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 480-551196.

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

# Detection Summary

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

Job ID: 480-175549-1

## Client Sample ID: MW-1

## Lab Sample ID: 480-175549-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyanide, Total	0.11		0.010	0.0060	mg/L	1		4500 CN E-2011	Total/NA

## Client Sample ID: MW-5

## Lab Sample ID: 480-175549-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	42		1.0	0.41	ug/L	1		8260C	Total/NA
Toluene	4.2		1.0	0.51	ug/L	1		8260C	Total/NA
Ethylbenzene	8.7		1.0	0.74	ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	3.4		2.0	0.66	ug/L	1		8260C	Total/NA
o-Xylene	5.3		1.0	0.76	ug/L	1		8260C	Total/NA
Xylenes, Total	8.7		2.0	0.66	ug/L	1		8260C	Total/NA
Total BTEX	64		2.0	1.0	ug/L	1		8260C	Total/NA
Acenaphthene	22	J	25	2.1	ug/L	5		8270D	Total/NA
Acenaphthylene	19	J	25	1.9	ug/L	5		8270D	Total/NA
Anthracene	6.0	J	25	1.4	ug/L	5		8270D	Total/NA
Fluoranthene	6.2	J	25	2.0	ug/L	5		8270D	Total/NA
Fluorene	24	J	25	1.8	ug/L	5		8270D	Total/NA
Naphthalene	13	J	25	3.8	ug/L	5		8270D	Total/NA
Phenanthrene	29	B	25	2.2	ug/L	5		8270D	Total/NA
Pyrene	4.0	J	25	1.7	ug/L	5		8270D	Total/NA
Cyanide, Total	0.22		0.010	0.0060	mg/L	1		4500 CN E-2011	Total/NA

## Client Sample ID: MW-6

## Lab Sample ID: 480-175549-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyanide, Total	0.068		0.010	0.0060	mg/L	1		4500 CN E-2011	Total/NA

## Client Sample ID: MW-8R

## Lab Sample ID: 480-175549-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	4900		100	41	ug/L	100		8260C	Total/NA
Toluene	160		100	51	ug/L	100		8260C	Total/NA
Ethylbenzene	380		100	74	ug/L	100		8260C	Total/NA
m-Xylene & p-Xylene	1600		200	66	ug/L	100		8260C	Total/NA
o-Xylene	520		100	76	ug/L	100		8260C	Total/NA
Xylenes, Total	2100		200	66	ug/L	100		8260C	Total/NA
Total BTEX	7600		200	100	ug/L	100		8260C	Total/NA
Acenaphthene	95	J	100	8.2	ug/L	20		8270D	Total/NA
Acenaphthylene	8.1	J	100	7.6	ug/L	20		8270D	Total/NA
Anthracene	7.6	J	100	5.6	ug/L	20		8270D	Total/NA
Fluorene	41	J	100	7.2	ug/L	20		8270D	Total/NA
Phenanthrene	47	J B	100	8.8	ug/L	20		8270D	Total/NA
Naphthalene - DL	2300		500	76	ug/L	100		8270D	Total/NA
Cyanide, Total	0.15		0.010	0.0060	mg/L	1		4500 CN E-2011	Total/NA

## Client Sample ID: MW-9R

## Lab Sample ID: 480-175549-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyanide, Total	0.080		0.010	0.0060	mg/L	1		4500 CN E-2011	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

# Detection Summary

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

Job ID: 480-175549-1

## Client Sample ID: MW-10R

Lab Sample ID: 480-175549-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	24		1.0	0.41	ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	0.95	J	2.0	0.66	ug/L	1		8260C	Total/NA
Xylenes, Total	0.95	J	2.0	0.66	ug/L	1		8260C	Total/NA
Total BTEX	25		2.0	1.0	ug/L	1		8260C	Total/NA
Acenaphthene	1.0	J	5.0	0.41	ug/L	1		8270D	Total/NA
Naphthalene	3.5	J	5.0	0.76	ug/L	1		8270D	Total/NA
Phenanthrene	0.53	J B	5.0	0.44	ug/L	1		8270D	Total/NA
Cyanide, Total	0.030		0.010	0.0060	mg/L	1		4500 CN E-2011	Total/NA

## Client Sample ID: MW-50

Lab Sample ID: 480-175549-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	42		1.0	0.41	ug/L	1		8260C	Total/NA
Toluene	4.5		1.0	0.51	ug/L	1		8260C	Total/NA
Ethylbenzene	9.4		1.0	0.74	ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	3.4		2.0	0.66	ug/L	1		8260C	Total/NA
o-Xylene	5.7		1.0	0.76	ug/L	1		8260C	Total/NA
Xylenes, Total	9.1		2.0	0.66	ug/L	1		8260C	Total/NA
Total BTEX	65		2.0	1.0	ug/L	1		8260C	Total/NA
Acenaphthene	24	J	25	2.1	ug/L	5		8270D	Total/NA
Acenaphthylene	20	J	25	1.9	ug/L	5		8270D	Total/NA
Anthracene	5.8	J	25	1.4	ug/L	5		8270D	Total/NA
Fluoranthene	6.4	J	25	2.0	ug/L	5		8270D	Total/NA
Fluorene	26		25	1.8	ug/L	5		8270D	Total/NA
Naphthalene	14	J	25	3.8	ug/L	5		8270D	Total/NA
Phenanthrene	32	B	25	2.2	ug/L	5		8270D	Total/NA
Pyrene	4.2	J	25	1.7	ug/L	5		8270D	Total/NA
Cyanide, Total	0.21		0.010	0.0060	mg/L	1		4500 CN E-2011	Total/NA

## Client Sample ID: EB-1

Lab Sample ID: 480-175549-8

No Detections.

## Client Sample ID: TRIP BLANK

Lab Sample ID: 480-175549-9

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo



# Client Sample Results

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

Job ID: 480-175549-1

Client Sample ID: MW-1

Lab Sample ID: 480-175549-1

Date Collected: 09/22/20 14:35

Matrix: Water

Date Received: 09/24/20 14:15

## 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			09/26/20 20:15	1
Toluene	ND		1.0	0.51	ug/L			09/26/20 20:15	1
Ethylbenzene	ND		1.0	0.74	ug/L			09/26/20 20:15	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			09/26/20 20:15	1
o-Xylene	ND		1.0	0.76	ug/L			09/26/20 20:15	1
Xylenes, Total	ND		2.0	0.66	ug/L			09/26/20 20:15	1
Total BTEX	ND		2.0	1.0	ug/L			09/26/20 20:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		80 - 120		09/26/20 20:15	1
1,2-Dichloroethane-d4 (Surr)	113		77 - 120		09/26/20 20:15	1
4-Bromofluorobenzene (Surr)	99		73 - 120		09/26/20 20:15	1
Dibromofluoromethane (Surr)	107		75 - 123		09/26/20 20:15	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		09/28/20 15:17	09/30/20 17:10	1
Acenaphthylene	ND		5.0	0.38	ug/L		09/28/20 15:17	09/30/20 17:10	1
Anthracene	ND		5.0	0.28	ug/L		09/28/20 15:17	09/30/20 17:10	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		09/28/20 15:17	09/30/20 17:10	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		09/28/20 15:17	09/30/20 17:10	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		09/28/20 15:17	09/30/20 17:10	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		09/28/20 15:17	09/30/20 17:10	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		09/28/20 15:17	09/30/20 17:10	1
Chrysene	ND		5.0	0.33	ug/L		09/28/20 15:17	09/30/20 17:10	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		09/28/20 15:17	09/30/20 17:10	1
Fluoranthene	ND		5.0	0.40	ug/L		09/28/20 15:17	09/30/20 17:10	1
Fluorene	ND		5.0	0.36	ug/L		09/28/20 15:17	09/30/20 17:10	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		09/28/20 15:17	09/30/20 17:10	1
Naphthalene	ND		5.0	0.76	ug/L		09/28/20 15:17	09/30/20 17:10	1
Phenanthrene	ND		5.0	0.44	ug/L		09/28/20 15:17	09/30/20 17:10	1
Pyrene	ND		5.0	0.34	ug/L		09/28/20 15:17	09/30/20 17:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	103		48 - 120	09/28/20 15:17	09/30/20 17:10	1
Nitrobenzene-d5 (Surr)	103		46 - 120	09/28/20 15:17	09/30/20 17:10	1
p-Terphenyl-d14 (Surr)	81		60 - 148	09/28/20 15:17	09/30/20 17:10	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.11		0.010	0.0060	mg/L		09/29/20 10:36	09/29/20 12:24	1

Client Sample ID: MW-5

Lab Sample ID: 480-175549-2

Date Collected: 09/22/20 15:35

Matrix: Water

Date Received: 09/24/20 14:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	42		1.0	0.41	ug/L			09/26/20 20:39	1
Toluene	4.2		1.0	0.51	ug/L			09/26/20 20:39	1
Ethylbenzene	8.7		1.0	0.74	ug/L			09/26/20 20:39	1

Eurofins TestAmerica, Buffalo

# Client Sample Results

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

Job ID: 480-175549-1

Client Sample ID: MW-5

Lab Sample ID: 480-175549-2

Date Collected: 09/22/20 15:35

Matrix: Water

Date Received: 09/24/20 14:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	3.4		2.0	0.66	ug/L			09/26/20 20:39	1
o-Xylene	5.3		1.0	0.76	ug/L			09/26/20 20:39	1
Xylenes, Total	8.7		2.0	0.66	ug/L			09/26/20 20:39	1
Total BTEX	64		2.0	1.0	ug/L			09/26/20 20:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		80 - 120		09/26/20 20:39	1
1,2-Dichloroethane-d4 (Surr)	113		77 - 120		09/26/20 20:39	1
4-Bromofluorobenzene (Surr)	105		73 - 120		09/26/20 20:39	1
Dibromofluoromethane (Surr)	106		75 - 123		09/26/20 20:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	22	J	25	2.1	ug/L		09/25/20 08:16	09/28/20 22:01	5
Acenaphthylene	19	J	25	1.9	ug/L		09/25/20 08:16	09/28/20 22:01	5
Anthracene	6.0	J	25	1.4	ug/L		09/25/20 08:16	09/28/20 22:01	5
Benzo[a]anthracene	ND		25	1.8	ug/L		09/25/20 08:16	09/28/20 22:01	5
Benzo[a]pyrene	ND		25	2.4	ug/L		09/25/20 08:16	09/28/20 22:01	5
Benzo[b]fluoranthene	ND	* 1	25	1.7	ug/L		09/25/20 08:16	09/28/20 22:01	5
Benzo[g,h,i]perylene	ND		25	1.8	ug/L		09/25/20 08:16	09/28/20 22:01	5
Benzo[k]fluoranthene	ND		25	3.7	ug/L		09/25/20 08:16	09/28/20 22:01	5
Chrysene	ND		25	1.7	ug/L		09/25/20 08:16	09/28/20 22:01	5
Dibenz(a,h)anthracene	ND	* 1	25	2.1	ug/L		09/25/20 08:16	09/28/20 22:01	5
Fluoranthene	6.2	J	25	2.0	ug/L		09/25/20 08:16	09/28/20 22:01	5
Fluorene	24	J	25	1.8	ug/L		09/25/20 08:16	09/28/20 22:01	5
Indeno[1,2,3-cd]pyrene	ND		25	2.4	ug/L		09/25/20 08:16	09/28/20 22:01	5
Naphthalene	13	J	25	3.8	ug/L		09/25/20 08:16	09/28/20 22:01	5
Phenanthrene	29	B	25	2.2	ug/L		09/25/20 08:16	09/28/20 22:01	5
Pyrene	4.0	J	25	1.7	ug/L		09/25/20 08:16	09/28/20 22:01	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	101		48 - 120	09/25/20 08:16	09/28/20 22:01	5
Nitrobenzene-d5 (Surr)	94		46 - 120	09/25/20 08:16	09/28/20 22:01	5
p-Terphenyl-d14 (Surr)	93		60 - 148	09/25/20 08:16	09/28/20 22:01	5

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.22		0.010	0.0060	mg/L		09/29/20 10:36	09/29/20 12:26	1

Client Sample ID: MW-6

Lab Sample ID: 480-175549-3

Date Collected: 09/23/20 08:05

Matrix: Water

Date Received: 09/24/20 14:15

## 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			09/26/20 21:03	1
Toluene	ND		1.0	0.51	ug/L			09/26/20 21:03	1
Ethylbenzene	ND		1.0	0.74	ug/L			09/26/20 21:03	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			09/26/20 21:03	1
o-Xylene	ND		1.0	0.76	ug/L			09/26/20 21:03	1
Xylenes, Total	ND		2.0	0.66	ug/L			09/26/20 21:03	1

Eurofins TestAmerica, Buffalo

# Client Sample Results

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

Job ID: 480-175549-1

**Client Sample ID: MW-6**

**Date Collected: 09/23/20 08:05**

**Date Received: 09/24/20 14:15**

**Lab Sample ID: 480-175549-3**

**Matrix: Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	ND		2.0	1.0	ug/L			09/26/20 21:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		80 - 120		09/26/20 21:03	1
1,2-Dichloroethane-d4 (Surr)	112		77 - 120		09/26/20 21:03	1
4-Bromofluorobenzene (Surr)	104		73 - 120		09/26/20 21:03	1
Dibromofluoromethane (Surr)	105		75 - 123		09/26/20 21:03	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		09/25/20 08:16	09/28/20 22:31	1
Acenaphthylene	ND		5.0	0.38	ug/L		09/25/20 08:16	09/28/20 22:31	1
Anthracene	ND		5.0	0.28	ug/L		09/25/20 08:16	09/28/20 22:31	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		09/25/20 08:16	09/28/20 22:31	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		09/25/20 08:16	09/28/20 22:31	1
Benzo[b]fluoranthene	ND	*1	5.0	0.34	ug/L		09/25/20 08:16	09/28/20 22:31	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		09/25/20 08:16	09/28/20 22:31	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		09/25/20 08:16	09/28/20 22:31	1
Chrysene	ND		5.0	0.33	ug/L		09/25/20 08:16	09/28/20 22:31	1
Dibenz(a,h)anthracene	ND	*1	5.0	0.42	ug/L		09/25/20 08:16	09/28/20 22:31	1
Fluoranthene	ND		5.0	0.40	ug/L		09/25/20 08:16	09/28/20 22:31	1
Fluorene	ND		5.0	0.36	ug/L		09/25/20 08:16	09/28/20 22:31	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		09/25/20 08:16	09/28/20 22:31	1
Naphthalene	ND		5.0	0.76	ug/L		09/25/20 08:16	09/28/20 22:31	1
Phenanthrene	ND		5.0	0.44	ug/L		09/25/20 08:16	09/28/20 22:31	1
Pyrene	ND		5.0	0.34	ug/L		09/25/20 08:16	09/28/20 22:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	106		48 - 120	09/25/20 08:16	09/28/20 22:31	1
Nitrobenzene-d5 (Surr)	103		46 - 120	09/25/20 08:16	09/28/20 22:31	1
p-Terphenyl-d14 (Surr)	95		60 - 148	09/25/20 08:16	09/28/20 22:31	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.068		0.010	0.0060	mg/L		09/29/20 13:50	09/29/20 15:19	1

**Client Sample ID: MW-8R**

**Date Collected: 09/23/20 10:10**

**Date Received: 09/24/20 14:15**

**Lab Sample ID: 480-175549-4**

**Matrix: Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	4900		100	41	ug/L			09/28/20 11:47	100
Toluene	160		100	51	ug/L			09/28/20 11:47	100
Ethylbenzene	380		100	74	ug/L			09/28/20 11:47	100
m-Xylene & p-Xylene	1600		200	66	ug/L			09/28/20 11:47	100
o-Xylene	520		100	76	ug/L			09/28/20 11:47	100
Xylenes, Total	2100		200	66	ug/L			09/28/20 11:47	100
Total BTEX	7600		200	100	ug/L			09/28/20 11:47	100

Eurofins TestAmerica, Buffalo

# Client Sample Results

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

Job ID: 480-175549-1

**Client Sample ID: MW-8R**

**Date Collected: 09/23/20 10:10**

**Date Received: 09/24/20 14:15**

**Lab Sample ID: 480-175549-4**

**Matrix: Water**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	103		80 - 120		09/28/20 11:47	100
1,2-Dichloroethane-d4 (Surr)	97		77 - 120		09/28/20 11:47	100
4-Bromofluorobenzene (Surr)	109		73 - 120		09/28/20 11:47	100
Dibromofluoromethane (Surr)	106		75 - 123		09/28/20 11:47	100

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	95	J	100	8.2	ug/L		09/25/20 08:16	09/28/20 23:01	20
Acenaphthylene	8.1	J	100	7.6	ug/L		09/25/20 08:16	09/28/20 23:01	20
Anthracene	7.6	J	100	5.6	ug/L		09/25/20 08:16	09/28/20 23:01	20
Benzo[a]anthracene	ND		100	7.2	ug/L		09/25/20 08:16	09/28/20 23:01	20
Benzo[a]pyrene	ND		100	9.4	ug/L		09/25/20 08:16	09/28/20 23:01	20
Benzo[b]fluoranthene	ND	* *1	100	6.8	ug/L		09/25/20 08:16	09/28/20 23:01	20
Benzo[g,h,i]perylene	ND		100	7.0	ug/L		09/25/20 08:16	09/28/20 23:01	20
Benzo[k]fluoranthene	ND		100	15	ug/L		09/25/20 08:16	09/28/20 23:01	20
Chrysene	ND		100	6.6	ug/L		09/25/20 08:16	09/28/20 23:01	20
Dibenz(a,h)anthracene	ND	*1	100	8.4	ug/L		09/25/20 08:16	09/28/20 23:01	20
Fluoranthene	ND		100	8.0	ug/L		09/25/20 08:16	09/28/20 23:01	20
Fluorene	41	J	100	7.2	ug/L		09/25/20 08:16	09/28/20 23:01	20
Indeno[1,2,3-cd]pyrene	ND		100	9.4	ug/L		09/25/20 08:16	09/28/20 23:01	20
Phenanthrene	47	J B	100	8.8	ug/L		09/25/20 08:16	09/28/20 23:01	20
Pyrene	ND		100	6.8	ug/L		09/25/20 08:16	09/28/20 23:01	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	88		48 - 120	09/25/20 08:16	09/28/20 23:01	20
Nitrobenzene-d5 (Surr)	90		46 - 120	09/25/20 08:16	09/28/20 23:01	20
p-Terphenyl-d14 (Surr)	74		60 - 148	09/25/20 08:16	09/28/20 23:01	20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	2300		500	76	ug/L		09/25/20 08:16	09/29/20 19:27	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	94		48 - 120	09/25/20 08:16	09/29/20 19:27	100
Nitrobenzene-d5 (Surr)	130	X	46 - 120	09/25/20 08:16	09/29/20 19:27	100
p-Terphenyl-d14 (Surr)	95		60 - 148	09/25/20 08:16	09/29/20 19:27	100

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.15		0.010	0.0060	mg/L		09/29/20 13:50	09/29/20 15:20	1

**Client Sample ID: MW-9R**

**Date Collected: 09/23/20 12:10**

**Date Received: 09/24/20 14:15**

**Lab Sample ID: 480-175549-5**

**Matrix: Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			09/26/20 21:51	1
Toluene	ND		1.0	0.51	ug/L			09/26/20 21:51	1
Ethylbenzene	ND		1.0	0.74	ug/L			09/26/20 21:51	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			09/26/20 21:51	1
o-Xylene	ND		1.0	0.76	ug/L			09/26/20 21:51	1

Eurofins TestAmerica, Buffalo

# Client Sample Results

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

Job ID: 480-175549-1

Client Sample ID: MW-9R

Lab Sample ID: 480-175549-5

Date Collected: 09/23/20 12:10

Matrix: Water

Date Received: 09/24/20 14:15

## 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			09/26/20 21:51	1
Total BTEX	ND		2.0	1.0	ug/L			09/26/20 21:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		80 - 120		09/26/20 21:51	1
1,2-Dichloroethane-d4 (Surr)	108		77 - 120		09/26/20 21:51	1
4-Bromofluorobenzene (Surr)	100		73 - 120		09/26/20 21:51	1
Dibromofluoromethane (Surr)	102		75 - 123		09/26/20 21:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		25	2.1	ug/L		09/25/20 08:16	09/28/20 23:31	5
Acenaphthylene	ND		25	1.9	ug/L		09/25/20 08:16	09/28/20 23:31	5
Anthracene	ND		25	1.4	ug/L		09/25/20 08:16	09/28/20 23:31	5
Benzo[a]anthracene	ND		25	1.8	ug/L		09/25/20 08:16	09/28/20 23:31	5
Benzo[a]pyrene	ND		25	2.4	ug/L		09/25/20 08:16	09/28/20 23:31	5
Benzo[b]fluoranthene	ND	*1	25	1.7	ug/L		09/25/20 08:16	09/28/20 23:31	5
Benzo[g,h,i]perylene	ND		25	1.8	ug/L		09/25/20 08:16	09/28/20 23:31	5
Benzo[k]fluoranthene	ND		25	3.7	ug/L		09/25/20 08:16	09/28/20 23:31	5
Chrysene	ND		25	1.7	ug/L		09/25/20 08:16	09/28/20 23:31	5
Dibenz(a,h)anthracene	ND	*1	25	2.1	ug/L		09/25/20 08:16	09/28/20 23:31	5
Fluoranthene	ND		25	2.0	ug/L		09/25/20 08:16	09/28/20 23:31	5
Fluorene	ND		25	1.8	ug/L		09/25/20 08:16	09/28/20 23:31	5
Indeno[1,2,3-cd]pyrene	ND		25	2.4	ug/L		09/25/20 08:16	09/28/20 23:31	5
Naphthalene	ND		25	3.8	ug/L		09/25/20 08:16	09/28/20 23:31	5
Phenanthrene	ND		25	2.2	ug/L		09/25/20 08:16	09/28/20 23:31	5
Pyrene	ND		25	1.7	ug/L		09/25/20 08:16	09/28/20 23:31	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	94		48 - 120	09/25/20 08:16	09/28/20 23:31	5
Nitrobenzene-d5 (Surr)	87		46 - 120	09/25/20 08:16	09/28/20 23:31	5
p-Terphenyl-d14 (Surr)	75		60 - 148	09/25/20 08:16	09/28/20 23:31	5

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.080		0.010	0.0060	mg/L		09/29/20 13:50	09/29/20 15:22	1

Client Sample ID: MW-10R

Lab Sample ID: 480-175549-6

Date Collected: 09/22/20 16:55

Matrix: Water

Date Received: 09/24/20 14:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	24		1.0	0.41	ug/L			09/26/20 22:15	1
Toluene	ND		1.0	0.51	ug/L			09/26/20 22:15	1
Ethylbenzene	ND		1.0	0.74	ug/L			09/26/20 22:15	1
m-Xylene & p-Xylene	0.95	J	2.0	0.66	ug/L			09/26/20 22:15	1
o-Xylene	ND		1.0	0.76	ug/L			09/26/20 22:15	1
Xylenes, Total	0.95	J	2.0	0.66	ug/L			09/26/20 22:15	1
Total BTEX	25		2.0	1.0	ug/L			09/26/20 22:15	1

Eurofins TestAmerica, Buffalo

# Client Sample Results

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

Job ID: 480-175549-1

Client Sample ID: MW-10R

Lab Sample ID: 480-175549-6

Date Collected: 09/22/20 16:55

Matrix: Water

Date Received: 09/24/20 14:15

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		80 - 120		09/26/20 22:15	1
1,2-Dichloroethane-d4 (Surr)	108		77 - 120		09/26/20 22:15	1
4-Bromofluorobenzene (Surr)	103		73 - 120		09/26/20 22:15	1
Dibromofluoromethane (Surr)	102		75 - 123		09/26/20 22:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	1.0	J	5.0	0.41	ug/L		09/25/20 08:16	09/29/20 00:02	1
Acenaphthylene	ND		5.0	0.38	ug/L		09/25/20 08:16	09/29/20 00:02	1
Anthracene	ND		5.0	0.28	ug/L		09/25/20 08:16	09/29/20 00:02	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		09/25/20 08:16	09/29/20 00:02	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		09/25/20 08:16	09/29/20 00:02	1
Benzo[b]fluoranthene	ND	* *1	5.0	0.34	ug/L		09/25/20 08:16	09/29/20 00:02	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		09/25/20 08:16	09/29/20 00:02	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		09/25/20 08:16	09/29/20 00:02	1
Chrysene	ND		5.0	0.33	ug/L		09/25/20 08:16	09/29/20 00:02	1
Dibenz(a,h)anthracene	ND	*1	5.0	0.42	ug/L		09/25/20 08:16	09/29/20 00:02	1
Fluoranthene	ND		5.0	0.40	ug/L		09/25/20 08:16	09/29/20 00:02	1
Fluorene	ND		5.0	0.36	ug/L		09/25/20 08:16	09/29/20 00:02	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		09/25/20 08:16	09/29/20 00:02	1
Naphthalene	3.5	J	5.0	0.76	ug/L		09/25/20 08:16	09/29/20 00:02	1
Phenanthrene	0.53	J B	5.0	0.44	ug/L		09/25/20 08:16	09/29/20 00:02	1
Pyrene	ND		5.0	0.34	ug/L		09/25/20 08:16	09/29/20 00:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	121	X	48 - 120	09/25/20 08:16	09/29/20 00:02	1
Nitrobenzene-d5 (Surr)	115		46 - 120	09/25/20 08:16	09/29/20 00:02	1
p-Terphenyl-d14 (Surr)	102		60 - 148	09/25/20 08:16	09/29/20 00:02	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.030		0.010	0.0060	mg/L		09/29/20 10:36	09/29/20 12:27	1

Client Sample ID: MW-50

Lab Sample ID: 480-175549-7

Date Collected: 09/22/20 15:40

Matrix: Water

Date Received: 09/24/20 14:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	42		1.0	0.41	ug/L			09/26/20 22:40	1
Toluene	4.5		1.0	0.51	ug/L			09/26/20 22:40	1
Ethylbenzene	9.4		1.0	0.74	ug/L			09/26/20 22:40	1
m-Xylene & p-Xylene	3.4		2.0	0.66	ug/L			09/26/20 22:40	1
o-Xylene	5.7		1.0	0.76	ug/L			09/26/20 22:40	1
Xylenes, Total	9.1		2.0	0.66	ug/L			09/26/20 22:40	1
Total BTEX	65		2.0	1.0	ug/L			09/26/20 22:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		80 - 120		09/26/20 22:40	1
1,2-Dichloroethane-d4 (Surr)	112		77 - 120		09/26/20 22:40	1
4-Bromofluorobenzene (Surr)	104		73 - 120		09/26/20 22:40	1

Eurofins TestAmerica, Buffalo



# Client Sample Results

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

Job ID: 480-175549-1

**Client Sample ID: MW-50**

**Date Collected: 09/22/20 15:40**

**Date Received: 09/24/20 14:15**

**Lab Sample ID: 480-175549-7**

**Matrix: Water**

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	103		75 - 123		09/26/20 22:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	24	J	25	2.1	ug/L		09/25/20 08:16	09/29/20 00:32	5
Acenaphthylene	20	J	25	1.9	ug/L		09/25/20 08:16	09/29/20 00:32	5
Anthracene	5.8	J	25	1.4	ug/L		09/25/20 08:16	09/29/20 00:32	5
Benzo[a]anthracene	ND		25	1.8	ug/L		09/25/20 08:16	09/29/20 00:32	5
Benzo[a]pyrene	ND		25	2.4	ug/L		09/25/20 08:16	09/29/20 00:32	5
Benzo[b]fluoranthene	ND	* *1	25	1.7	ug/L		09/25/20 08:16	09/29/20 00:32	5
Benzo[g,h,i]perylene	ND		25	1.8	ug/L		09/25/20 08:16	09/29/20 00:32	5
Benzo[k]fluoranthene	ND		25	3.7	ug/L		09/25/20 08:16	09/29/20 00:32	5
Chrysene	ND		25	1.7	ug/L		09/25/20 08:16	09/29/20 00:32	5
Dibenz(a,h)anthracene	ND	*1	25	2.1	ug/L		09/25/20 08:16	09/29/20 00:32	5
Fluoranthene	6.4	J	25	2.0	ug/L		09/25/20 08:16	09/29/20 00:32	5
Fluorene	26		25	1.8	ug/L		09/25/20 08:16	09/29/20 00:32	5
Indeno[1,2,3-cd]pyrene	ND		25	2.4	ug/L		09/25/20 08:16	09/29/20 00:32	5
Naphthalene	14	J	25	3.8	ug/L		09/25/20 08:16	09/29/20 00:32	5
Phenanthrene	32	B	25	2.2	ug/L		09/25/20 08:16	09/29/20 00:32	5
Pyrene	4.2	J	25	1.7	ug/L		09/25/20 08:16	09/29/20 00:32	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	101		48 - 120	09/25/20 08:16	09/29/20 00:32	5
Nitrobenzene-d5 (Surr)	95		46 - 120	09/25/20 08:16	09/29/20 00:32	5
p-Terphenyl-d14 (Surr)	77		60 - 148	09/25/20 08:16	09/29/20 00:32	5

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.21		0.010	0.0060	mg/L		09/29/20 10:36	09/29/20 12:29	1

**Client Sample ID: EB-1**

**Date Collected: 09/23/20 12:30**

**Date Received: 09/24/20 14:15**

**Lab Sample ID: 480-175549-8**

**Matrix: Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			09/26/20 23:04	1
Toluene	ND		1.0	0.51	ug/L			09/26/20 23:04	1
Ethylbenzene	ND		1.0	0.74	ug/L			09/26/20 23:04	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			09/26/20 23:04	1
o-Xylene	ND		1.0	0.76	ug/L			09/26/20 23:04	1
Xylenes, Total	ND		2.0	0.66	ug/L			09/26/20 23:04	1
Total BTEX	ND		2.0	1.0	ug/L			09/26/20 23:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97		80 - 120		09/26/20 23:04	1
1,2-Dichloroethane-d4 (Surr)	113		77 - 120		09/26/20 23:04	1
4-Bromofluorobenzene (Surr)	105		73 - 120		09/26/20 23:04	1
Dibromofluoromethane (Surr)	105		75 - 123		09/26/20 23:04	1

Eurofins TestAmerica, Buffalo

# Client Sample Results

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

Job ID: 480-175549-1

Client Sample ID: EB-1

Lab Sample ID: 480-175549-8

Date Collected: 09/23/20 12:30

Matrix: Water

Date Received: 09/24/20 14:15

## 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		09/25/20 08:16	09/29/20 19:57	1
Acenaphthylene	ND		5.0	0.38	ug/L		09/25/20 08:16	09/29/20 19:57	1
Anthracene	ND		5.0	0.28	ug/L		09/25/20 08:16	09/29/20 19:57	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		09/25/20 08:16	09/29/20 19:57	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		09/25/20 08:16	09/29/20 19:57	1
Benzo[b]fluoranthene	ND	* *1	5.0	0.34	ug/L		09/25/20 08:16	09/29/20 19:57	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		09/25/20 08:16	09/29/20 19:57	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		09/25/20 08:16	09/29/20 19:57	1
Chrysene	ND		5.0	0.33	ug/L		09/25/20 08:16	09/29/20 19:57	1
Dibenz(a,h)anthracene	ND	*1	5.0	0.42	ug/L		09/25/20 08:16	09/29/20 19:57	1
Fluoranthene	ND		5.0	0.40	ug/L		09/25/20 08:16	09/29/20 19:57	1
Fluorene	ND		5.0	0.36	ug/L		09/25/20 08:16	09/29/20 19:57	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		09/25/20 08:16	09/29/20 19:57	1
Naphthalene	ND		5.0	0.76	ug/L		09/25/20 08:16	09/29/20 19:57	1
Phenanthrene	ND		5.0	0.44	ug/L		09/25/20 08:16	09/29/20 19:57	1
Pyrene	ND		5.0	0.34	ug/L		09/25/20 08:16	09/29/20 19:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	116		48 - 120				09/25/20 08:16	09/29/20 19:57	1
Nitrobenzene-d5 (Surr)	113		46 - 120				09/25/20 08:16	09/29/20 19:57	1
p-Terphenyl-d14 (Surr)	120		60 - 148				09/25/20 08:16	09/29/20 19:57	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0060	mg/L		09/29/20 13:50	09/29/20 15:24	1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-175549-9

Date Collected: 09/22/20 13:00

Matrix: Water

Date Received: 09/24/20 14:15

## 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			09/26/20 23:28	1
Toluene	ND		1.0	0.51	ug/L			09/26/20 23:28	1
Ethylbenzene	ND		1.0	0.74	ug/L			09/26/20 23:28	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			09/26/20 23:28	1
o-Xylene	ND		1.0	0.76	ug/L			09/26/20 23:28	1
Xylenes, Total	ND		2.0	0.66	ug/L			09/26/20 23:28	1
Total BTEX	ND		2.0	1.0	ug/L			09/26/20 23:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		80 - 120					09/26/20 23:28	1
1,2-Dichloroethane-d4 (Surr)	109		77 - 120					09/26/20 23:28	1
4-Bromofluorobenzene (Surr)	102		73 - 120					09/26/20 23:28	1
Dibromofluoromethane (Surr)	107		75 - 123					09/26/20 23:28	1

Eurofins TestAmerica, Buffalo



# Surrogate Summary

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

Job ID: 480-175549-1

## 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)
480-175549-1	MW-1	100	113	99	107
480-175549-2	MW-5	100	113	105	106
480-175549-3	MW-6	100	112	104	105
480-175549-4	MW-8R	103	97	109	106
480-175549-4 MS	MW-8R	109	107	111	110
480-175549-4 MSD	MW-8R	106	103	107	107
480-175549-5	MW-9R	99	108	100	102
480-175549-6	MW-10R	98	108	103	102
480-175549-7	MW-50	100	112	104	103
480-175549-8	EB-1	97	113	105	105
480-175549-9	TRIP BLANK	101	109	102	107
LCS 480-551375/5	Lab Control Sample	99	104	102	102
LCS 480-551444/5	Lab Control Sample	107	98	108	102
MB 480-551375/7	Method Blank	99	112	100	107
MB 480-551444/7	Method Blank	103	102	107	105

### 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)
480-175549-1	MW-1	103	103	81
480-175549-2	MW-5	101	94	93
480-175549-3	MW-6	106	103	95
480-175549-4	MW-8R	88	90	74
480-175549-4 - DL	MW-8R	94	130 X	95
480-175549-5	MW-9R	94	87	75
480-175549-6	MW-10R	121 X	115	102
480-175549-7	MW-50	101	95	77
480-175549-8	EB-1	116	113	120
LCS 480-551196/2-A	Lab Control Sample	103	100	112
LCS 480-551546/2-A	Lab Control Sample	100	97	102
LCSD 480-551196/3-A	Lab Control Sample Dup	116	108	123
MB 480-551196/1-A	Method Blank	117	116	133
MB 480-551546/1-A	Method Blank	96	92	106

### Surrogate Legend

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

# QC Sample Results

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

Job ID: 480-175549-1

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

Lab Sample ID: MB 480-551375/7

Matrix: Water

Analysis Batch: 551375

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			09/26/20 16:40	1
Toluene	ND		1.0	0.51	ug/L			09/26/20 16:40	1
Ethylbenzene	ND		1.0	0.74	ug/L			09/26/20 16:40	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			09/26/20 16:40	1
o-Xylene	ND		1.0	0.76	ug/L			09/26/20 16:40	1
Xylenes, Total	ND		2.0	0.66	ug/L			09/26/20 16:40	1
Total BTEX	ND		2.0	1.0	ug/L			09/26/20 16:40	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		80 - 120		09/26/20 16:40	1
1,2-Dichloroethane-d4 (Surr)	112		77 - 120		09/26/20 16:40	1
4-Bromofluorobenzene (Surr)	100		73 - 120		09/26/20 16:40	1
Dibromofluoromethane (Surr)	107		75 - 123		09/26/20 16:40	1

Lab Sample ID: LCS 480-551375/5

Matrix: Water

Analysis Batch: 551375

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	22.8		ug/L		91	71 - 124
Toluene	25.0	22.8		ug/L		91	80 - 122
Ethylbenzene	25.0	23.4		ug/L		93	77 - 123
m-Xylene & p-Xylene	25.0	23.3		ug/L		93	76 - 122
o-Xylene	25.0	22.9		ug/L		91	76 - 122

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	99		80 - 120
1,2-Dichloroethane-d4 (Surr)	104		77 - 120
4-Bromofluorobenzene (Surr)	102		73 - 120
Dibromofluoromethane (Surr)	102		75 - 123

Lab Sample ID: MB 480-551444/7

Matrix: Water

Analysis Batch: 551444

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			09/28/20 10:23	1
Toluene	ND		1.0	0.51	ug/L			09/28/20 10:23	1
Ethylbenzene	ND		1.0	0.74	ug/L			09/28/20 10:23	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			09/28/20 10:23	1
o-Xylene	ND		1.0	0.76	ug/L			09/28/20 10:23	1
Xylenes, Total	ND		2.0	0.66	ug/L			09/28/20 10:23	1
Total BTEX	ND		2.0	1.0	ug/L			09/28/20 10:23	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	103		80 - 120		09/28/20 10:23	1
1,2-Dichloroethane-d4 (Surr)	102		77 - 120		09/28/20 10:23	1

Eurofins TestAmerica, Buffalo

# QC Sample Results

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

Job ID: 480-175549-1

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

Lab Sample ID: MB 480-551444/7

Matrix: Water

Analysis Batch: 551444

Client Sample ID: Method Blank

Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		73 - 120		09/28/20 10:23	1
Dibromofluoromethane (Surr)	105		75 - 123		09/28/20 10:23	1

Lab Sample ID: LCS 480-551444/5

Matrix: Water

Analysis Batch: 551444

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	25.0	24.9		ug/L		99	71 - 124
Toluene	25.0	25.3		ug/L		101	80 - 122
Ethylbenzene	25.0	25.2		ug/L		101	77 - 123
m-Xylene & p-Xylene	25.0	26.1		ug/L		104	76 - 122
o-Xylene	25.0	25.8		ug/L		103	76 - 122

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	107		80 - 120
1,2-Dichloroethane-d4 (Surr)	98		77 - 120
4-Bromofluorobenzene (Surr)	108		73 - 120
Dibromofluoromethane (Surr)	102		75 - 123

Lab Sample ID: 480-175549-4 MS

Matrix: Water

Analysis Batch: 551444

Client Sample ID: MW-8R

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	4900		2500	7610		ug/L		107	71 - 124
Toluene	160		2500	2810		ug/L		106	80 - 122
Ethylbenzene	380		2500	3080		ug/L		108	77 - 123
m-Xylene & p-Xylene	1600		2500	4490		ug/L		114	76 - 122
o-Xylene	520		2500	3270		ug/L		110	76 - 122

Surrogate	MS %Recovery	MS Qualifier	Limits
Toluene-d8 (Surr)	109		80 - 120
1,2-Dichloroethane-d4 (Surr)	107		77 - 120
4-Bromofluorobenzene (Surr)	111		73 - 120
Dibromofluoromethane (Surr)	110		75 - 123

Lab Sample ID: 480-175549-4 MSD

Matrix: Water

Analysis Batch: 551444

Client Sample ID: MW-8R

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	4900		2500	7550		ug/L		105	71 - 124	1	13
Toluene	160		2500	2770		ug/L		104	80 - 122	1	15
Ethylbenzene	380		2500	3080		ug/L		108	77 - 123	0	15
m-Xylene & p-Xylene	1600		2500	4430		ug/L		112	76 - 122	1	16
o-Xylene	520		2500	3240		ug/L		109	76 - 122	1	16

Eurofins TestAmerica, Buffalo

# QC Sample Results

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

Job ID: 480-175549-1

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

Lab Sample ID: 480-175549-4 MSD

Matrix: Water

Analysis Batch: 551444

Client Sample ID: MW-8R

Prep Type: Total/NA

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Toluene-d8 (Surr)	106		80 - 120
1,2-Dichloroethane-d4 (Surr)	103		77 - 120
4-Bromofluorobenzene (Surr)	107		73 - 120
Dibromofluoromethane (Surr)	107		75 - 123

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

Lab Sample ID: MB 480-551196/1-A

Matrix: Water

Analysis Batch: 551478

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 551196

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0	0.41	ug/L		09/25/20 08:16	09/28/20 15:00	1
Acenaphthylene	ND		5.0	0.38	ug/L		09/25/20 08:16	09/28/20 15:00	1
Anthracene	ND		5.0	0.28	ug/L		09/25/20 08:16	09/28/20 15:00	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		09/25/20 08:16	09/28/20 15:00	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		09/25/20 08:16	09/28/20 15:00	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		09/25/20 08:16	09/28/20 15:00	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		09/25/20 08:16	09/28/20 15:00	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		09/25/20 08:16	09/28/20 15:00	1
Chrysene	ND		5.0	0.33	ug/L		09/25/20 08:16	09/28/20 15:00	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		09/25/20 08:16	09/28/20 15:00	1
Fluoranthene	ND		5.0	0.40	ug/L		09/25/20 08:16	09/28/20 15:00	1
Fluorene	ND		5.0	0.36	ug/L		09/25/20 08:16	09/28/20 15:00	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		09/25/20 08:16	09/28/20 15:00	1
Naphthalene	ND		5.0	0.76	ug/L		09/25/20 08:16	09/28/20 15:00	1
Phenanthrene	0.445	J	5.0	0.44	ug/L		09/25/20 08:16	09/28/20 15:00	1
Pyrene	ND		5.0	0.34	ug/L		09/25/20 08:16	09/28/20 15:00	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	117		48 - 120	09/25/20 08:16	09/28/20 15:00	1
Nitrobenzene-d5 (Surr)	116		46 - 120	09/25/20 08:16	09/28/20 15:00	1
p-Terphenyl-d14 (Surr)	133		60 - 148	09/25/20 08:16	09/28/20 15:00	1

Lab Sample ID: LCS 480-551196/2-A

Matrix: Water

Analysis Batch: 551478

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 551196

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	32.0	31.7		ug/L		99	60 - 120
Acenaphthylene	32.0	33.0		ug/L		103	63 - 120
Anthracene	32.0	32.4		ug/L		101	67 - 120
Benzo[a]anthracene	32.0	33.0		ug/L		103	70 - 121
Benzo[a]pyrene	32.0	32.5		ug/L		102	60 - 123
Benzo[b]fluoranthene	32.0	33.6		ug/L		105	66 - 126
Benzo[g,h,i]perylene	32.0	32.8		ug/L		103	66 - 150
Benzo[k]fluoranthene	32.0	34.7		ug/L		109	65 - 124
Chrysene	32.0	32.7		ug/L		102	69 - 120

Eurofins TestAmerica, Buffalo

# QC Sample Results

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

Job ID: 480-175549-1

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

Lab Sample ID: LCS 480-551196/2-A

Matrix: Water

Analysis Batch: 551478

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 551196

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dibenz(a,h)anthracene	32.0	32.6		ug/L		102	65 - 135
Fluoranthene	32.0	33.4		ug/L		104	69 - 126
Fluorene	32.0	33.2		ug/L		104	66 - 120
Indeno[1,2,3-cd]pyrene	32.0	32.9		ug/L		103	69 - 146
Naphthalene	32.0	31.0		ug/L		97	57 - 120
Phenanthrene	32.0	33.6		ug/L		105	68 - 120
Pyrene	32.0	34.8		ug/L		109	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	103		48 - 120
Nitrobenzene-d5 (Surr)	100		46 - 120
p-Terphenyl-d14 (Surr)	112		60 - 148

Lab Sample ID: LCSD 480-551196/3-A

Matrix: Water

Analysis Batch: 551478

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 551196

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Acenaphthene	32.0	35.8		ug/L		112	60 - 120	12	24
Acenaphthylene	32.0	36.8		ug/L		115	63 - 120	11	18
Anthracene	32.0	36.3		ug/L		113	67 - 120	11	15
Benzo[a]anthracene	32.0	37.5		ug/L		117	70 - 121	13	15
Benzo[a]pyrene	32.0	37.9		ug/L		118	60 - 123	15	15
Benzo[b]fluoranthene	32.0	41.0	**1	ug/L		128	66 - 126	20	15
Benzo[g,h,i]perylene	32.0	37.4		ug/L		117	66 - 150	13	15
Benzo[k]fluoranthene	32.0	38.8		ug/L		121	65 - 124	11	22
Chrysene	32.0	36.7		ug/L		115	69 - 120	12	15
Dibenz(a,h)anthracene	32.0	38.1	*1	ug/L		119	65 - 135	16	15
Fluoranthene	32.0	38.1		ug/L		119	69 - 126	13	15
Fluorene	32.0	37.4		ug/L		117	66 - 120	12	15
Indeno[1,2,3-cd]pyrene	32.0	37.6		ug/L		117	69 - 146	13	15
Naphthalene	32.0	34.4		ug/L		107	57 - 120	10	29
Phenanthrene	32.0	37.8		ug/L		118	68 - 120	12	15
Pyrene	32.0	39.5		ug/L		123	70 - 125	13	19

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Fluorobiphenyl	116		48 - 120
Nitrobenzene-d5 (Surr)	108		46 - 120
p-Terphenyl-d14 (Surr)	123		60 - 148

Lab Sample ID: MB 480-551546/1-A

Matrix: Water

Analysis Batch: 551820

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 551546

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0	0.41	ug/L		09/28/20 15:17	09/30/20 11:43	1
Acenaphthylene	ND		5.0	0.38	ug/L		09/28/20 15:17	09/30/20 11:43	1
Anthracene	ND		5.0	0.28	ug/L		09/28/20 15:17	09/30/20 11:43	1

Eurofins TestAmerica, Buffalo

# QC Sample Results

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

Job ID: 480-175549-1

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

Lab Sample ID: MB 480-551546/1-A

Matrix: Water

Analysis Batch: 551820

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 551546

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	ND		5.0	0.36	ug/L		09/28/20 15:17	09/30/20 11:43	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		09/28/20 15:17	09/30/20 11:43	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		09/28/20 15:17	09/30/20 11:43	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		09/28/20 15:17	09/30/20 11:43	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		09/28/20 15:17	09/30/20 11:43	1
Chrysene	ND		5.0	0.33	ug/L		09/28/20 15:17	09/30/20 11:43	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		09/28/20 15:17	09/30/20 11:43	1
Fluoranthene	ND		5.0	0.40	ug/L		09/28/20 15:17	09/30/20 11:43	1
Fluorene	ND		5.0	0.36	ug/L		09/28/20 15:17	09/30/20 11:43	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		09/28/20 15:17	09/30/20 11:43	1
Naphthalene	ND		5.0	0.76	ug/L		09/28/20 15:17	09/30/20 11:43	1
Phenanthrene	ND		5.0	0.44	ug/L		09/28/20 15:17	09/30/20 11:43	1
Pyrene	ND		5.0	0.34	ug/L		09/28/20 15:17	09/30/20 11:43	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	96		48 - 120	09/28/20 15:17	09/30/20 11:43	1
Nitrobenzene-d5 (Surr)	92		46 - 120	09/28/20 15:17	09/30/20 11:43	1
p-Terphenyl-d14 (Surr)	106		60 - 148	09/28/20 15:17	09/30/20 11:43	1

Lab Sample ID: LCS 480-551546/2-A

Matrix: Water

Analysis Batch: 551820

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 551546

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	32.0	29.9		ug/L		93	60 - 120
Acenaphthylene	32.0	30.9		ug/L		97	63 - 120
Anthracene	32.0	30.6		ug/L		96	67 - 120
Benzo[a]anthracene	32.0	31.2		ug/L		98	70 - 121
Benzo[a]pyrene	32.0	31.8		ug/L		99	60 - 123
Benzo[b]fluoranthene	32.0	34.1		ug/L		106	66 - 126
Benzo[g,h,i]perylene	32.0	33.1		ug/L		104	66 - 150
Benzo[k]fluoranthene	32.0	34.8		ug/L		109	65 - 124
Chrysene	32.0	30.3		ug/L		95	69 - 120
Dibenz(a,h)anthracene	32.0	34.4		ug/L		107	65 - 135
Fluoranthene	32.0	32.3		ug/L		101	69 - 126
Fluorene	32.0	30.1		ug/L		94	66 - 120
Indeno[1,2,3-cd]pyrene	32.0	33.3		ug/L		104	69 - 146
Naphthalene	32.0	28.9		ug/L		90	57 - 120
Phenanthrene	32.0	30.8		ug/L		96	68 - 120
Pyrene	32.0	31.5		ug/L		98	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	100		48 - 120
Nitrobenzene-d5 (Surr)	97		46 - 120
p-Terphenyl-d14 (Surr)	102		60 - 148

Eurofins TestAmerica, Buffalo

# QC Sample Results

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

Job ID: 480-175549-1

## Method: 4500 CN E-2011 - Cyanide, Total: Colorimetric Method

Lab Sample ID: MB 240-453521/1-A

Matrix: Water

Analysis Batch: 453558

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 453521

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0060	mg/L		09/29/20 10:36	09/29/20 11:54	1

Lab Sample ID: LCS 240-453521/2-A

Matrix: Water

Analysis Batch: 453558

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 453521

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.238	0.249		mg/L		104	85 - 115

Lab Sample ID: MRL 240-453558/10

Matrix: Water

Analysis Batch: 453558

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.0100	0.0109		mg/L		109	70 - 130

Lab Sample ID: MB 240-453562/1-A

Matrix: Water

Analysis Batch: 453581

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 453562

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0060	mg/L		09/29/20 13:50	09/29/20 15:46	1

Lab Sample ID: LCS 240-453562/2-A

Matrix: Water

Analysis Batch: 453581

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 453562

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.238	0.249		mg/L		105	85 - 115

Lab Sample ID: 480-175549-8 MS

Matrix: Water

Analysis Batch: 453581

Client Sample ID: EB-1

Prep Type: Total/NA

Prep Batch: 453562

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	ND		0.0400	0.0469		mg/L		117	22 - 135

Lab Sample ID: 480-175549-8 MSD

Matrix: Water

Analysis Batch: 453581

Client Sample ID: EB-1

Prep Type: Total/NA

Prep Batch: 453562

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Cyanide, Total	ND		0.0400	0.0415		mg/L		104	22 - 135	12	40



# QC Association Summary

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

Job ID: 480-175549-1

## GC/MS VOA

### Analysis Batch: 551375

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-175549-1	MW-1	Total/NA	Water	8260C	
480-175549-2	MW-5	Total/NA	Water	8260C	
480-175549-3	MW-6	Total/NA	Water	8260C	
480-175549-5	MW-9R	Total/NA	Water	8260C	
480-175549-6	MW-10R	Total/NA	Water	8260C	
480-175549-7	MW-50	Total/NA	Water	8260C	
480-175549-8	EB-1	Total/NA	Water	8260C	
480-175549-9	TRIP BLANK	Total/NA	Water	8260C	
MB 480-551375/7	Method Blank	Total/NA	Water	8260C	
LCS 480-551375/5	Lab Control Sample	Total/NA	Water	8260C	

### Analysis Batch: 551444

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-175549-4	MW-8R	Total/NA	Water	8260C	
MB 480-551444/7	Method Blank	Total/NA	Water	8260C	
LCS 480-551444/5	Lab Control Sample	Total/NA	Water	8260C	
480-175549-4 MS	MW-8R	Total/NA	Water	8260C	
480-175549-4 MSD	MW-8R	Total/NA	Water	8260C	

## GC/MS Semi VOA

### Prep Batch: 551196

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-175549-2	MW-5	Total/NA	Water	3510C	
480-175549-3	MW-6	Total/NA	Water	3510C	
480-175549-4 - DL	MW-8R	Total/NA	Water	3510C	
480-175549-4	MW-8R	Total/NA	Water	3510C	
480-175549-5	MW-9R	Total/NA	Water	3510C	
480-175549-6	MW-10R	Total/NA	Water	3510C	
480-175549-7	MW-50	Total/NA	Water	3510C	
480-175549-8	EB-1	Total/NA	Water	3510C	
MB 480-551196/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-551196/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 480-551196/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

### Analysis Batch: 551478

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-175549-2	MW-5	Total/NA	Water	8270D	551196
480-175549-3	MW-6	Total/NA	Water	8270D	551196
480-175549-4	MW-8R	Total/NA	Water	8270D	551196
480-175549-5	MW-9R	Total/NA	Water	8270D	551196
480-175549-6	MW-10R	Total/NA	Water	8270D	551196
480-175549-7	MW-50	Total/NA	Water	8270D	551196
MB 480-551196/1-A	Method Blank	Total/NA	Water	8270D	551196
LCS 480-551196/2-A	Lab Control Sample	Total/NA	Water	8270D	551196
LCSD 480-551196/3-A	Lab Control Sample Dup	Total/NA	Water	8270D	551196

### Prep Batch: 551546

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-175549-1	MW-1	Total/NA	Water	3510C	
MB 480-551546/1-A	Method Blank	Total/NA	Water	3510C	

Eurofins TestAmerica, Buffalo



# QC Association Summary

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

Job ID: 480-175549-1

## GC/MS Semi VOA (Continued)

### Prep Batch: 551546 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-551546/2-A	Lab Control Sample	Total/NA	Water	3510C	

### Analysis Batch: 551625

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-175549-4 - DL	MW-8R	Total/NA	Water	8270D	551196
480-175549-8	EB-1	Total/NA	Water	8270D	551196

### Analysis Batch: 551820

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-175549-1	MW-1	Total/NA	Water	8270D	551546
MB 480-551546/1-A	Method Blank	Total/NA	Water	8270D	551546
LCS 480-551546/2-A	Lab Control Sample	Total/NA	Water	8270D	551546

## General Chemistry

### Prep Batch: 453521

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-175549-1	MW-1	Total/NA	Water	Distill/CN	
480-175549-2	MW-5	Total/NA	Water	Distill/CN	
480-175549-6	MW-10R	Total/NA	Water	Distill/CN	
480-175549-7	MW-50	Total/NA	Water	Distill/CN	
MB 240-453521/1-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 240-453521/2-A	Lab Control Sample	Total/NA	Water	Distill/CN	

### Analysis Batch: 453558

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-175549-1	MW-1	Total/NA	Water	4500 CN E-2011	453521
480-175549-2	MW-5	Total/NA	Water	4500 CN E-2011	453521
480-175549-6	MW-10R	Total/NA	Water	4500 CN E-2011	453521
480-175549-7	MW-50	Total/NA	Water	4500 CN E-2011	453521
MB 240-453521/1-A	Method Blank	Total/NA	Water	4500 CN E-2011	453521
LCS 240-453521/2-A	Lab Control Sample	Total/NA	Water	4500 CN E-2011	453521
MRL 240-453558/10	Lab Control Sample	Total/NA	Water	4500 CN E-2011	

### Prep Batch: 453562

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-175549-3	MW-6	Total/NA	Water	Distill/CN	
480-175549-4	MW-8R	Total/NA	Water	Distill/CN	
480-175549-5	MW-9R	Total/NA	Water	Distill/CN	
480-175549-8	EB-1	Total/NA	Water	Distill/CN	
MB 240-453562/1-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 240-453562/2-A	Lab Control Sample	Total/NA	Water	Distill/CN	
480-175549-8 MS	EB-1	Total/NA	Water	Distill/CN	
480-175549-8 MSD	EB-1	Total/NA	Water	Distill/CN	

### Analysis Batch: 453581

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-175549-3	MW-6	Total/NA	Water	4500 CN E-2011	453562
480-175549-4	MW-8R	Total/NA	Water	4500 CN E-2011	453562
480-175549-5	MW-9R	Total/NA	Water	4500 CN E-2011	453562
480-175549-8	EB-1	Total/NA	Water	4500 CN E-2011	453562

Eurofins TestAmerica, Buffalo

## QC Association Summary

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

Job ID: 480-175549-1

### General Chemistry (Continued)

#### Analysis Batch: 453581 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 240-453562/1-A	Method Blank	Total/NA	Water	4500 CN E-2011	453562
LCS 240-453562/2-A	Lab Control Sample	Total/NA	Water	4500 CN E-2011	453562
480-175549-8 MS	EB-1	Total/NA	Water	4500 CN E-2011	453562
480-175549-8 MSD	EB-1	Total/NA	Water	4500 CN E-2011	453562

# Lab Chronicle

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

Job ID: 480-175549-1

## Client Sample ID: MW-1

Lab Sample ID: 480-175549-1

Date Collected: 09/22/20 14:35

Matrix: Water

Date Received: 09/24/20 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	551375	09/26/20 20:15	AMM	TAL BUF
Total/NA	Prep	3510C			551546	09/28/20 15:17	ATG	TAL BUF
Total/NA	Analysis	8270D		1	551820	09/30/20 17:10	JMM	TAL BUF
Total/NA	Prep	Distill/CN			453521	09/29/20 10:36	BLW	TAL CAN
Total/NA	Analysis	4500 CN E-2011		1	453558	09/29/20 12:24	BLW	TAL CAN

## Client Sample ID: MW-5

Lab Sample ID: 480-175549-2

Date Collected: 09/22/20 15:35

Matrix: Water

Date Received: 09/24/20 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	551375	09/26/20 20:39	AMM	TAL BUF
Total/NA	Prep	3510C			551196	09/25/20 08:16	JMP	TAL BUF
Total/NA	Analysis	8270D		5	551478	09/28/20 22:01	JMM	TAL BUF
Total/NA	Prep	Distill/CN			453521	09/29/20 10:36	BLW	TAL CAN
Total/NA	Analysis	4500 CN E-2011		1	453558	09/29/20 12:26	BLW	TAL CAN

## Client Sample ID: MW-6

Lab Sample ID: 480-175549-3

Date Collected: 09/23/20 08:05

Matrix: Water

Date Received: 09/24/20 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	551375	09/26/20 21:03	AMM	TAL BUF
Total/NA	Prep	3510C			551196	09/25/20 08:16	JMP	TAL BUF
Total/NA	Analysis	8270D		1	551478	09/28/20 22:31	JMM	TAL BUF
Total/NA	Prep	Distill/CN			453562	09/29/20 13:50	BLW	TAL CAN
Total/NA	Analysis	4500 CN E-2011		1	453581	09/29/20 15:19	BLW	TAL CAN

## Client Sample ID: MW-8R

Lab Sample ID: 480-175549-4

Date Collected: 09/23/20 10:10

Matrix: Water

Date Received: 09/24/20 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		100	551444	09/28/20 11:47	AMM	TAL BUF
Total/NA	Prep	3510C			551196	09/25/20 08:16	JMP	TAL BUF
Total/NA	Analysis	8270D		20	551478	09/28/20 23:01	JMM	TAL BUF
Total/NA	Prep	3510C	DL		551196	09/25/20 08:16	JMP	TAL BUF
Total/NA	Analysis	8270D	DL	100	551625	09/29/20 19:27	JMM	TAL BUF
Total/NA	Prep	Distill/CN			453562	09/29/20 13:50	BLW	TAL CAN
Total/NA	Analysis	4500 CN E-2011		1	453581	09/29/20 15:20	BLW	TAL CAN

# Lab Chronicle

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

Job ID: 480-175549-1

## Client Sample ID: MW-9R

Date Collected: 09/23/20 12:10

Date Received: 09/24/20 14:15

## Lab Sample ID: 480-175549-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	551375	09/26/20 21:51	AMM	TAL BUF
Total/NA	Prep	3510C			551196	09/25/20 08:16	JMP	TAL BUF
Total/NA	Analysis	8270D		5	551478	09/28/20 23:31	JMM	TAL BUF
Total/NA	Prep	Distill/CN			453562	09/29/20 13:50	BLW	TAL CAN
Total/NA	Analysis	4500 CN E-2011		1	453581	09/29/20 15:22	BLW	TAL CAN

## Client Sample ID: MW-10R

Date Collected: 09/22/20 16:55

Date Received: 09/24/20 14:15

## Lab Sample ID: 480-175549-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	551375	09/26/20 22:15	AMM	TAL BUF
Total/NA	Prep	3510C			551196	09/25/20 08:16	JMP	TAL BUF
Total/NA	Analysis	8270D		1	551478	09/29/20 00:02	JMM	TAL BUF
Total/NA	Prep	Distill/CN			453521	09/29/20 10:36	BLW	TAL CAN
Total/NA	Analysis	4500 CN E-2011		1	453558	09/29/20 12:27	BLW	TAL CAN

## Client Sample ID: MW-50

Date Collected: 09/22/20 15:40

Date Received: 09/24/20 14:15

## Lab Sample ID: 480-175549-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	551375	09/26/20 22:40	AMM	TAL BUF
Total/NA	Prep	3510C			551196	09/25/20 08:16	JMP	TAL BUF
Total/NA	Analysis	8270D		5	551478	09/29/20 00:32	JMM	TAL BUF
Total/NA	Prep	Distill/CN			453521	09/29/20 10:36	BLW	TAL CAN
Total/NA	Analysis	4500 CN E-2011		1	453558	09/29/20 12:29	BLW	TAL CAN

## Client Sample ID: EB-1

Date Collected: 09/23/20 12:30

Date Received: 09/24/20 14:15

## Lab Sample ID: 480-175549-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	551375	09/26/20 23:04	AMM	TAL BUF
Total/NA	Prep	3510C			551196	09/25/20 08:16	JMP	TAL BUF
Total/NA	Analysis	8270D		1	551625	09/29/20 19:57	JMM	TAL BUF
Total/NA	Prep	Distill/CN			453562	09/29/20 13:50	BLW	TAL CAN
Total/NA	Analysis	4500 CN E-2011		1	453581	09/29/20 15:24	BLW	TAL CAN

## Client Sample ID: TRIP BLANK

Date Collected: 09/22/20 13:00

Date Received: 09/24/20 14:15

## Lab Sample ID: 480-175549-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	551375	09/26/20 23:28	AMM	TAL BUF

Eurofins TestAmerica, Buffalo

# Lab Chronicle

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

Job ID: 480-175549-1

**Laboratory References:**

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600  
TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

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# Accreditation/Certification Summary

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

Job ID: 480-175549-1

## Laboratory: Eurofins TestAmerica, 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	04-01-21
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 TestAmerica, Canton

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

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-23-21
Connecticut	State	PH-0590	12-31-21
Florida	NELAP	E87225	06-30-21
Georgia	State	4062	02-23-21
Illinois	NELAP	004498	07-31-20 *
Iowa	State	421	06-01-21
Kansas	NELAP	E-10336	04-30-21
Kentucky (UST)	State	112225	02-23-21
Kentucky (WW)	State	KY98016	12-31-20
Minnesota	NELAP	OH00048	12-31-20
Minnesota (Petrofund)	State	3506	08-01-21
New Jersey	NELAP	OH001	06-30-21
New York	NELAP	10975	03-31-21
Ohio VAP	State	CL0024	06-05-21
Oregon	NELAP	4062	02-24-21
Pennsylvania	NELAP	68-00340	08-31-21
Texas	NELAP	T104704517-18-10	08-31-21
USDA	US Federal Programs	P330-18-00281	09-17-21
Virginia	NELAP	010101	09-14-21
Washington	State	C971	01-12-21
West Virginia DEP	State	210	12-31-20

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

Eurofins TestAmerica, Buffalo

## Method Summary

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

Job ID: 480-175549-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
4500 CN E-2011	Cyanide, Total: Colorimetric Method	SM	TAL CAN
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF
Distill/CN	Distillation, Cyanide	None	TAL CAN

### Protocol References:

None = None

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 TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

# Sample Summary

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

Job ID: 480-175549-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-175549-1	MW-1	Water	09/22/20 14:35	09/24/20 14:15	
480-175549-2	MW-5	Water	09/22/20 15:35	09/24/20 14:15	
480-175549-3	MW-6	Water	09/23/20 08:05	09/24/20 14:15	
480-175549-4	MW-8R	Water	09/23/20 10:10	09/24/20 14:15	
480-175549-5	MW-9R	Water	09/23/20 12:10	09/24/20 14:15	
480-175549-6	MW-10R	Water	09/22/20 16:55	09/24/20 14:15	
480-175549-7	MW-50	Water	09/22/20 15:40	09/24/20 14:15	
480-175549-8	EB-1	Water	09/23/20 12:30	09/24/20 14:15	
480-175549-9	TRIP BLANK	Water	09/22/20 13:00	09/24/20 14:15	



5/10

[illegible]









## Chain of Custody Record

[illegible]

## Chain of Custody Record

[illegible]



<b>Eurofins TestAmerica Canton Sample Receipt Form/Narrative</b>		Login # : <u>480-175549</u>
<b>Canton Facility</b>		
Client <u>ETA Buffalo</u>	Site Name _____	Cooler unpacked by: <u>Amun</u>
Cooler Received on <u>9/26/20</u>	Opened on <u>9/26/20</u>	
FedEx: 1 <sup>st</sup> Grd <input checked="" type="checkbox"/> Exp <input type="checkbox"/> UPS <input type="checkbox"/> FAS <input type="checkbox"/> Clipper <input type="checkbox"/>	Client Drop Off <input type="checkbox"/> TestAmerica Courier <input type="checkbox"/>	Other <input type="checkbox"/>
<b>Receipt After-hours: Drop-off Date/Time</b> _____		<b>Storage Location</b> _____
TestAmerica Cooler # <u>TA</u> Foam Box <input type="checkbox"/> Client Cooler <input type="checkbox"/> Box <input type="checkbox"/> Other <input type="checkbox"/> Packing material used: Bubble Wrap <input checked="" type="checkbox"/> Foam <input type="checkbox"/> Plastic Bag <input type="checkbox"/> None <input type="checkbox"/> Other <input type="checkbox"/> COOLANT: Wet Ice <input checked="" type="checkbox"/> Blue Ice <input type="checkbox"/> Dry Ice <input type="checkbox"/> Water <input type="checkbox"/> None <input type="checkbox"/>		
1. Cooler temperature upon receipt <input type="checkbox"/> See Multiple Cooler Form IR GUN# IR-11 (CF +0.9 °C)    Observed Cooler Temp. <u>4.8</u> °C    Corrected Cooler Temp. <u>5.7</u> °C IR GUN #IR-12 (CF +0.5 °C)    Observed Cooler Temp. _____ °C    Corrected Cooler Temp. _____ °C		
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity <u>1</u> Yes <input checked="" type="radio"/> No <input type="radio"/> - Were the seals on the outside of the cooler(s) signed & dated?    Yes <input checked="" type="radio"/> No <input type="radio"/> NA <input type="radio"/> - Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?    Yes <input checked="" type="radio"/> No <input type="radio"/> NA <input type="radio"/> - Were tamper/custody seals intact and uncompromised?    Yes <input checked="" type="radio"/> No <input type="radio"/> NA <input type="radio"/>		
3. Shippers' packing slip attached to the cooler(s)?    Yes <input checked="" type="radio"/> No <input type="radio"/> 4. Did custody papers accompany the sample(s)?    Yes <input checked="" type="radio"/> No <input type="radio"/> 5. Were the custody papers relinquished & signed in the appropriate place?    Yes <input checked="" type="radio"/> No <input type="radio"/> 6. Was/were the person(s) who collected the samples clearly identified on the COC?    Yes <input checked="" type="radio"/> No <input type="radio"/> 7. Did all bottles arrive in good condition (Unbroken)?    Yes <input checked="" type="radio"/> No <input type="radio"/> 8. Could all bottle labels (ID/Date/Time) be reconciled with the COC?    Yes <input checked="" type="radio"/> No <input type="radio"/> 9. For each sample, does the COC specify preservatives (Y/N), # of containers <u>(YN)</u> , and sample type of grab/comp (Y/N)?    Yes <input checked="" type="radio"/> No <input type="radio"/> 10. Were correct bottle(s) used for the test(s) indicated?    Yes <input checked="" type="radio"/> No <input type="radio"/> 11. Sufficient quantity received to perform indicated analyses?    Yes <input checked="" type="radio"/> No <input type="radio"/> 12. Are these work share samples and all listed on the COC?    Yes <input checked="" type="radio"/> No <input type="radio"/> If yes, Questions 13-17 have been checked at the originating laboratory.		
13. Were all preserved sample(s) at the correct pH upon receipt?    Yes <input checked="" type="radio"/> No <input type="radio"/> NA <input type="radio"/> pH Strip Lot# <u>HC907861</u> 14. Were VOAs on the COC?    Yes <input checked="" type="radio"/> No <input type="radio"/> NA <input type="radio"/> 15. Were air bubbles >6 mm in any VOA vials? <input checked="" type="radio"/> Larger than this.    Yes <input checked="" type="radio"/> No <input type="radio"/> NA <input type="radio"/> 16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____    Yes <input checked="" type="radio"/> No <input type="radio"/> 17. Was a LL Hg or Me Hg trip blank present? _____    Yes <input checked="" type="radio"/> No <input type="radio"/>		
Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____ Concerning _____		

**Tests that are not checked for pH by Receiving:**

VOAs  
Oil and Grease  
TOC

<b>18. CHAIN OF CUSTODY &amp; SAMPLE DISCREPANCIES</b> <input type="checkbox"/> additional next page		Samples processed by: _____
<b>19. SAMPLE CONDITION</b>		
Sample(s) _____ were received after the recommended holding time had expired.		
Sample(s) _____ were received in a broken container.		
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)		
<b>20. SAMPLE PRESERVATION</b>		
Sample(s) _____ were further preserved in the laboratory.		
Time preserved: _____ Preservative(s) added/Lot number(s): _____		
VOA Sample Preservation - Date/Time VOAs Frozen: _____		

WI-NC-099

## Login Sample Receipt Checklist

Client: Wood E&I Solutions Inc

Job Number: 480-175549-1

**Login Number: 175549**

**List Source: Eurofins TestAmerica, 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	

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**APPENDIX C**

Soil Cap Inspection Form





## APPENDIX D

### EXAMPLE SITE INSPECTION FORM

Former MPG Site No. 837012

Albion, New York

Date: 9/23/20 Weather: 70°F, Sunny  
 Inspection By: Amelia Lyons Time In: 715  
 Others On Site: National Grid Time Out: \_\_\_\_\_

#### 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 type="checkbox"/>	<input checked="" type="checkbox"/>	
Are monitoring records on-site and up-to-date?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	



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

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

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