

August 6, 2024

Mr. John Miller
New York State Department of Environmental Conservation
Division of Environmental Remediation
Remedial Bureau C
625 Broadway
Albany, NY 12233-7013

Re: National Grid Hudson Water Street Site Hudson, New York 2024 Groundwater Monitoring Report

Dear Mr. Miller:

Attached for your information is the 2024 Groundwater Monitoring Report detailing the annual groundwater monitoring event and OM&M activities conducted from July 1, 2023, to June 30, 2024, at the National Grid Hudson (Water Street) Site. Site activities were conducted in accordance with the NYSDEC-approved OM&M Plan (BBL/ARCADIS; January 2007) and the Static Water Level Evaluation and Ground Water Monitoring Program Recommendation Memorandum letter (dated August 15, 2007).

The groundwater quality has been steadily improving over the years based on the number and extent of chemical detections in the monitoring wells. Based on the annual groundwater sampling analysis report in 2024, MW-11 had detections of BTEX [totaling 13.6 μ g/L]. No other detections of any compounds analyzed were noted in the remaining wells.

Please contact me at 315-247-6490 if you have any questions.

Sincerely,

for SPS

Steven P. Stucker, C.P.G. Lead Engineer Environmental Department National Grid

2024 Groundwater Monitoring Report



National Grid Hudson Water Street Site Water Street between Ferry Street and Broad Street Hudson, NY 12534

August 2024

Version 1





2024 Groundwater Monitoring Report

National Grid Hudson Water Street Site Water Street between Ferry Street & Broad Street Hudson, NY 12534

Prepared for: National Grid 300 Erie Boulevard West, C-1 Syracuse, NY 13202

Prepared by:

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GES Project: 0603340.125340.221

Date:

August 6, 2024

Devin T. Shay, PG Program Manager / Principal Hydrogeologist



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Acronyms

AWQS	Ambient Water Quality Standards	OM&M	Operation, Maintenance, and Monitoring
BTEX	Benzene, Toluene, Ethylbenzene, and Total Xylenes	OU	Operable Unit
DNAPL	Dense Non-Aqueous Phase Liquid	Pace	Pace Analytical Services, LLC
DUSR	Data Usability Summary Report	PAH	Polycyclic Aromatic Hydrocarbons
GES	Groundwater & Environmental Services,	POTW	Publically Owned Treatment Works
OLO	Inc.	QA/QC	Quality Assurance / Quality Control
gpm	Gallons per Minute	ROD	Record of Decision
IRM	Interim Remedial Measures	SMP	Site Management Plan
LNAPL	Light Non-Aqueous Phase Liquid	USEPA	United States Environmental Protection
MGP	Manufactured Gas Plant		Agency
NYSDEC	New York State Department of Environmental Conservation	WPCF	Water Pollution Control Facility



1 Introduction

1.1 Overview

Groundwater & Environmental Services, Inc. (GES) has prepared this 2024 Groundwater Monitoring Report (covering July 1, 2023 – June 30, 2024) for the Hudson (Water Street) Site, Hudson, New York. This annual report includes the requirements associated with the operation, maintenance, and monitoring of the Remedial Action Plan (RAP) at Operable Unit (OU) 1 of the Hudson (Water Street) Former Manufactured Gas Plant (MGP) Site located in Hudson, New York. Please refer to the *Operation, Maintenance, and Monitoring Plan* (OM&M Plan), dated January 2007, and the CDM Smith memorandum dated July 30, 2007, for well monitoring, groundwater sampling, site inspection requirements, and associated detailed site conditions and groundwater flow pattern documentation.

Groundwater monitoring has been conducted at the Site in order to evaluate the effectiveness of remedial activities previously completed at the Site and to monitor long-term groundwater quality trends. Currently, groundwater sampling at the Former MGP Site is performed on an annual basis.

The following Operation, Maintenance, and Monitoring (OM&M) activities conducted during this reporting period are summarized below:

- Quarterly site inspections, including checks on the surface cap, riverbank protection, security fencing, steel sheeting retaining wall, and the groundwater monitoring wells.
- Annual groundwater level measurements.
- Annual dense non-aqueous phase liquid (DNAPL) monitoring and collection, if necessary.
- Annual groundwater sampling, analysis and data validation. Water samples are submitted to Eurofins Environmental Testing (Eurofins) for laboratory analysis of benzene, toluene, ethylbenzene, and total xylenes (BTEX) and naphthalene for comparison to New York State Department of Environmental Conservation (NYSDEC) Ambient Water Quality Standards (AWQS).
- Any site maintenance that comes about as a result of the quarterly inspections.

1.2 Site Description

The Hudson (Water Street) Former Manufactured Gas Plant Site located in Hudson, New York is comprised of approximately two acres of land and is owned by the City of Hudson (refer to **Figure 1 – Site Location Map** and **Figure 2 – Groundwater Elevation Map**). The remedial action plan in place at the site was substantially completed in December 2006 and the OM&M Plan was finalized in January 2007 to provide a method for monitoring its effectiveness.

The objective of the post-construction groundwater monitoring task within the OM&M plan is to characterize post-remedy groundwater flow patterns and assess the quality of shallow groundwater as it leaves the site. Groundwater samples are analyzed for BTEX and naphthalene.



2 Quarterly Site Inspections and Groundwater Monitoring Activities

2.1 Quarterly Site Inspections

GES conducted quarterly site inspections during this reporting period. These quarterly inspections include checking the surface cap, riverbank protection, security fencing, steel sheeting retaining wall, and the groundwater monitoring wells.

In general, the Site is in good condition and in compliance.

Attachment A includes the Quarterly Site Inspection Forms.

2.2 Groundwater Well Gauging

Groundwater level measurements are collected at the Site to accomplish the following:

To determine the general groundwater flow direction on site.

Annual gauging field data is presented in **Table 2**. In general, site groundwater flows radially outward from the former gas holder area toward the Hudson River, consistent with past groundwater elevation data.

2.3 Annual DNAPL Monitoring and Collection

Annual DNAPL monitoring was conducted at RW-1, RW-2, and CW-01A. No DNAPL product was recovered in any of the wells. No odors were noted. Annual DNAPL monitoring and recovery tables are included as part of **Attachment B**. To date, no DNAPL has been recovered from these passive wells.

2.4 Groundwater Well Sampling and Analysis

Groundwater samples were collected from monitoring wells MW-03, MW-05, MW-06 and MW-11 on June 20, 2024. The wells were purged using a peristaltic pump. Field Measurements of pH, conductivity, turbidity, dissolved oxygen, temperature, total dissolved solids and oxidation-reduction potential were recorded using a Horiba U-52 water quality meter during sample collection. Samples were collected once field parameters stabilized. Field monitoring data and the chain-of-custody record are included in **Attachment B**.

Four aqueous field samples, a field duplicate, and trip blank were analyzed for BTEX (USEPA Method 8260C) and naphthalene. The samples were analyzed by Eurofins in accordance with the NYSDEC Analytical Services Protocol. Analytical results are summarized in **Table 1**. The Analytical Lab Report and Data Usability Summary Report are presented in **Appendix C**.

2.5 Site Maintenance

Site inspections during this reporting period indicated no maintenance was required on site. Photographs from quarterly site visits are included in **Attachment D**.



3 Conclusions and Recommendations

3.1 Conclusions

Based on the results of the past year's activities, the following conclusions were made:

- Quarterly site inspections demonstrate that the site is in good condition and in compliance.
- Annual static water level measurements show that the groundwater direction is radially outward from the former gas holder area.
- Annual DNAPL monitoring indicated no collectable product.
- MW-11 had a total BTEX concentration of 13.6 micrograms per liter (µg/L). This is the only
 well with a detected concentration of any parameter analyzed. Reference **Table 1** for
 historical data.

3.2 Recommendations

It is recommended that all OM&M activities continue, with the next report due in July 2025.



Figures

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Quadrangle Location

2024 Groundwater Monitoring Report National Grid Hudson Water Street Site Hudson, NY 12534



Tables



Table 1 **Groundwater Analytical Data** MW-03

Parameter	EPA - Maximum Allowable (µg/L)	NYSDEC AWQS (µg/L)	Reporting Level (μg/L)	06/01/09	06/02/10	06/07/11	06/12/12	06/11/13	06/09/14	06/02/15	06/06/16	06/22/17	06/14/18	06/13/19	06/24/20	06/17/21	06/16/22	06/22/23	06/20/24
Benzene	5	1	1	ND (<1.0)															
Toluene	1000	5	1	ND (<1.0)															
Ethylbenzene	700	5	1	ND (<1.0)															
Xylene (total)	10000	5	3	ND (<2.0)	ND (<3.0)														
Naphthalene	N/A	10	1	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	1.1	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<2.0)	ND (<4.0)	ND (<1.0)	ND (<1.0)				

All values reported in μg/L. NYSDEC AWQS

= New York State Department of Environmental Conservation = Ambient Water Quality Standards = Not detected above laboratory reporting limits (indicated by #) ND (<#) NR

= Not Reported

Bolded = values indicate exceedance of the NYSDEC AWQS



Table 1 **Groundwater Analytical Data** MW-05

Parameter	EPA - Maximum Allowable (µg/L)	NYSDEC AWQS (µg/L)	Reporting Level (µg/L)	06/01/09	06/02/10	06/07/11	06/12/12	06/11/13	06/09/14	06/02/15	06/06/16	06/22/17	06/14/18	06/13/19	06/24/20	06/17/21	06/16/22	06/22/23	06/20/24
Benzene	5	1	1	ND (<1.0)															
Toluene	1000	5	1	ND (<1.0)															
Ethylbenzene	700	5	1	ND (<1.0)															
Xylene (total)	10000	5	3	ND (<2.0)	ND (<3.0)														
Naphthalene	N/A	10	1	ND (<1.0)	ND (<2.0)	ND (<4.0)	ND (<1.0)	ND (<1.0)											

All values reported in μg/L. NYSDEC AWQS

= New York State Department of Environmental Conservation = Ambient Water Quality Standards

ND (<#) NR Bolded = Not detected above laboratory reporting limits (indicated by #)

= Not Reported = values indicate exceedance of the NYSDEC AWQS



Table 1 **Groundwater Analytical Data** MW-06

Parameter	EPA - Maximum Allowable (µg/L)	NYSDEC AWQS (µg/L)	Reporting Level (μg/L)	06/01/09	06/02/10	06/07/11	06/12/12	06/11/13	06/09/14	06/02/15	06/06/16	06/22/17	06/14/18	06/13/19	06/24/20	06/17/21	06/16/22	06/22/23	06/20/24
Benzene	5	1	1	ND (<1.0)															
Toluene	1000	5	1	ND (<1.0)															
Ethylbenzene	700	5	1	ND (<1.0)															
Xylene (total)	10000	5	3	ND (<2.0)	ND (<3.0)														
Naphthalene	N/A	10	1	ND (<1.0)	ND (<2.0)	ND (<4.0)	ND (<1.0)	ND (<1.0)											

All values reported in μg/L. NYSDEC AWQS

= New York State Department of Environmental Conservation = Ambient Water Quality Standards

ND (<#) NR Bolded = Not detected above laboratory reporting limits (indicated by #)

= Not Reported = values indicate exceedance of the NYSDEC AWQS



Table 1

Groundwater Analytical Data MW-11

	EPA - Maximum Allowable (µg/L)	NYSDEC AWQS (µg/L)	Reporting Level (µg/L)	06/01/09	06/02/10	06/07/11	06/12/12	06/11/13	06/09/14	06/02/15	06/06/16	06/22/17	06/14/18	06/13/19	06/24/20	06/17/21	06/16/22	06/22/23	06/20/24
Benzene	5	1	1	4.6	12	3	2.9	ND (<1.0)	1.9	ND (<4.0)	5.8	2.6	21.7	4.3	15.6	2.1	8.5	2.9	6.7
Toluene	1000	5	1	ND (<1.0)	ND (<4.0)	ND (<4.0)	ND (<1.0)	ND (<2.0)											
Ethylbenzene	700	5	1	4.9	12	7	1.8	ND (<1.0)	1.1	ND (<4.0)	ND (<4.0)	ND (<1.0)	10.4	2.5	6.6	ND (<1.0)	3.1	2.3	3.9
Xylene (total)	10000	5	3	ND (<2.0)	4.6	3.3	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<8.0)	ND (<8.0)	ND (<3.0)	4.5	ND (<3.0)	4.1	ND (<3.0)	5.9	ND (<3.0)	3.0
Naphthalene	N/A	10	1	ND (<1.0)	2.6	2.5	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<4.0)	ND (<4.0)	ND (<2.0)	3.3	ND (<2.0)	4.7	ND (<2.0)	ND (<4.0)	ND (<1.0)	2.1

All values reported in μg/L. NYSDEC AWQS

= New York State Department of Environmental Conservation = Ambient Water Quality Standards

ND (<#) NR Bolded = Not detected above laboratory reporting limits (indicated by #)

= Not Reported = values indicate exceedance of the NYSDEC AWQS



Table 2
Water Level Elevations

				Water	Level Elev	ration (fee	t amsl)			
Well ID.	06/11/07	06/20/07	06/26/07	07/24/07	08/14/07	08/19/07	09/13/07	12/01/07	03/10/08	06/10/08
MW-02	1.73	1.95	0.95	1.79	1.96	1.77	1.72	1.23	1.32	1.77
MW-03	6.66	6.72	5.28	6.87	7.10	6.96	6.60	6.59	6.91	6.71
MW-05	6.67	6.97	5.70	6.82	7.02	6.87	6.90	7.12	6.99	6.88
MW-06	6.29	6.64	6.32	6.35	6.47	6.30	6.24	6.16	5.81	6.29
MW-07	3.84	4.09	3.86	3.54	3.56	3.39	3.65	4.76	6.09	3.84
MW-08A	2.89	3.46	2.51	2.62	2.74	2.52	2.61	2.88	3.52	2.80
MW-09A	2.92	3.15	2.84	3.11	3.25	3.25	3.13	2.85	2.86	2.95
MW-10*	6.99	7.08	6.52	7.57	6.49	6.31	7.17	6.59	7.94	6.42
MW-11	6.77	6.76	6.45	6.63	6.21	6.04	6.80	7.15	8.71	6.82
OW-2	6.93	7.10	5.88	6.97	7.12	6.99	7.25	7.22	7.10	7.00
OW-4	7.14	7.33	6.66	7.18	7.32	7.16	7.24	7.38	7.31	7.21
Hudson River	0.84	2.19	0.54	0.49	-0.86	1.29	-0.21	-0.74	-0.51	2.39
CW-01A	7.55	n/a	n/a	n/a	n/a	n/a	8.02	7.67	8.89	7.97
RW-1	1.49	n/a	n/a	n/a	n/a	n/a	1.05	0.17	0.99	2.27
RW-2	0.96	n/a	n/a	n/a	n/a	n/a	0.85	-0.54	-0.14	2.40

* = Estimated elevation; well paved over during surveying but uncovered presently and can be monitored



Table 2
Water Level Elevations

W-II ID				Water	Level Elev	ration (fee	t amsl)			
Well ID.	09/16/08	12/03/08	03/04/09	06/01/09	09/09/09	12/14/09	03/08/10	06/02/10	09/14/10	12/01/10
MW-02	1.70	1.36	0.54	1.90	1.92	1.75	1.17	1.98	1.97	1.59
MW-03	7.01	6.83	6.07	6.77	7.49	7.02	6.67	6.97	7.05	6.91
MW-05	7.48	7.39	6.47	6.65	7.63	7.40	6.92	6.81	7.37	7.18
MW-06	6.57	6.24	5.39	6.36	6.79	6.36	5.78	6.22	6.00	6.20
MW-07	4.41	4.92	4.27	4.05	4.67	4.94	5.19	3.83	3.64	4.29
MW-08A	2.94	2.91	2.36	2.75	2.76	2.91	3.31	2.61	1.54	1.96
MW-09A	3.17	2.80	2.22	2.90	3.17	3.02	2.75	2.88	3.20	2.98
MW-10*	6.94	6.31	5.36	5.72	6.79	7.89	5.77	5.75	6.91	5.92
MW-11	7.22	7.75	7.17	6.80	6.71	7.65	8.09	6.27	5.85	6.87
OW-2	7.62	7.45	6.57	6.78	7.82	7.47	7.02	6.90	7.00	7.25
OW-4	7.70	7.52	6.76	7.06	7.89	7.60	7.19	7.11	7.16	7.43
Hudson River	1.57	-0.87	1.79	1.03	0.61	-0.23	-0.81	1.49	2.54	3.53
CW-01A	8.02	8.26	7.87	7.67	7.40	8.27	8.67	6.65	7.92	n/a
RW-1	0.77	0.24	1.11	1.51	0.14	-0.05	0.44	1.87	2.23	3.92
RW-2	0.78	-0.66	1.77	1.19	0.48	-0.39	-0.80	1.61	2.54	3.46

* = Estimated elevation; well paved over during surveying but uncovered presently and can be monitored



Table 2
Water Level Elevations

				Water	Level Elev	ration (fee	t amsl)			
Well ID.	03/09/11	06/07/11	09/13/11	11/15/11	03/19/12	06/12/12	09/17/12	12/03/12	03/06/13	06/11/13
MW-02	0.67	2.50	3.43	1.75	1.08	2.03	1.68	1.34	1.00	2.30
MW-03	6.05	7.27	8.44	7.69	6.65	6.97	7.35	6.70	6.65	7.15
MW-05	6.35	6.92	7.82	7.85	6.74	6.77	7.12	7.07	6.62	6.89
MW-06	5.42	6.64	7.45	6.54	5.64	6.39	6.56	6.04	5.65	6.84
MW-07	5.86	4.02	5.71	4.51	4.17	3.84	4.28	4.12	4.64	5.22
MW-08A	3.66	2.83	4.10	2.86	2.51	2.71	2.84	2.66	2.76	4.01
MW-09A	2.40	3.05	4.10	3.17	2.52	3.00	3.00	2.68	2.50	3.25
MW-10*	5.91	5.81	6.58	6.47	5.27	5.79	6.23	5.38	5.07	5.56
MW-11	8.75	6.57	7.84	6.87	6.84	6.50	6.69	6.65	6.87	8.89
OW-2	6.44	7.17	8.02	8.03	6.82	6.87	7.32	7.28	6.72	7.06
OW-4	6.71	7.46	8.26	7.94	7.00	7.12	7.51	7.26	6.91	7.38
Hudson River	0.57	0.87	3.25	-1.21	2.48	1.99	-1.39	0.00	2.89	1.69
CW-01A	n/a	n/a	8.60	7.49	7.61	7.45	7.62	7.07	8.15	9.25
RW-1	1.33	1.67	3.06	-0.39	2.09	1.50	-0.61	0.92	2.27	2.31
RW-2	0.78	1.06	2.38	-1.00	2.46	1.93	-1.11	0.06	2.84	1.76

* = Estimated elevation; well paved over during surveying but uncovered presently and can be monitored



Table 2
Water Level Elevations

							Water	Level Elev	ration (fee	t amsl)						
Well ID.	09/16/13	12/10/13	03/09/14	06/09/14	09/08/14	12/01/14	06/02/15	06/06/16	<u> </u>	06/14/18	06/13/19	06/24/20	06/17/21	06/16/22	06/22/23	06/20/24
MW-02	1.77	2.05	n/a	2.17	1.70	1.17	1.61	2.03	2.33	2.30	2.40	2.49	2.15	2.09	2.07	1.92
MW-03	7.05	6.57	6.24	7.04	6.95	6.90	6.67	7.77	7.44	6.17	6.72	6.89	7.29	7.02	6.76	7.01
MW-05	6.92	6.57	6.39	6.67	6.75	6.92	6.37	6.62	6.99	6.37	6.62	6.47	6.71	6.63	6.39	6.69
MW-06	6.38	6.58	5.38	6.64	6.29	6.27	6.34	6.24	7.10	6.39	6.29	6.17	6.81	6.60	6.00	6.64
MW-07	3.70	4.07	3.65	3.96	3.73	4.61	3.97	4.02	4.44	3.69	4.20	3.61	4.04	3.89	3.61	4.00
MW-08A	2.65	2.86	2.90	2.84	2.58	3.06	2.86	2.96	3.04	2.96	2.92	2.63	2.76	2.84	2.63	2.54
MW-09A	2.97	2.83	2.28	2.82	2.92	2.95	2.60	3.05	2.98	3.00	2.60	2.56	2.45	3.02	2.88	2.86
MW-10*	5.67	5.29	4.75	6.47	6.79	6.27	6.18	6.49	5.71	5.54	5.79	6.81	6.66	7.88	6.69	6.71
MW-11	6.11	6.99	7.47	6.52	5.74	7.70	7.10	6.75	7.09	6.02	6.63	5.85	6.43	6.20	5.41	5.61
OW-2	7.07	6.56	6.41	6.82	6.82	7.02	6.52	6.72	7.04	6.54	6.87	6.49	6.93	6.80	6.45	6.86
OW-4	7.20	6.81	6.56	7.14	7.01	7.18	6.74	6.91	7.32	6.80	7.04	8.69	7.20	7.02	6.53	7.07
Hudson River	1.69	0.87	n/a	1.49	1.51	2.29	1.87	0.49	1.85	-1.46	2.67	-4.46	0.39	-0.96	0.26	-0.06
CW-01A	6.89	8.09	n/a	7.27	5.99	8.54	8.15	8.23	8.02	6.62	7.17	5.77	7.31	7.24	5.59	6.67
RW-1	1.09	1.37	1.14	1.05	1.07	1.81	1.24	0.43	0.50	0.59	2.16	0.74	1.85	2.10	1.04	-0.36
RW-2	1.56	0.96	0.11	1.38	1.66	2.21	1.76	0.36	0.64	-0.94	2.52	-0.64	0.91	-0.54	0.83	-0.79

= Estimated elevation; well paved over during surveying but uncovered presently and can be monitored.



Appendix A – Quarterly Inspection Forms

Date:	9/13/2023
Technician	PI

Time: 11:00
Weather: Rain 65

	Surface Cover Are	as	
Excessive Settlement Observed	YES	NO	COMMENTS:
Cracks or Potholes Observed	YES	NO	
Depressions and/or Rutting Observed	YES	NO	
Exposed Subbase Materials Observed	YES	NO	

Erosion Controls (Rip-Rap or Sod)					
Exposed or Damaged Geotextile layer(s) Observed	YES	NO	COMMENTS:		
Excessive Settlement Observed	YES	NO			
Stressed Vegetation Observed	YES	NO			

Steel Sheetpile Retaining Wall					
Settlement of Wall	YES	NO	COMMENTS:		
Subsidence or Cracking of Soils Behind the Wall	YES	NO			
Cracking or Separation of Wall Joints	YES	NO			

Trees, Shrubs and other Planting Materials				
Strong Growth Observed	YES	NO	COMMENTS:	

Surface Water Quality					
Sheens Observed On:	Rip-Rap	NONE	MINOR	SIGNIFICANT	COMMENTS:
	Sheetpile Wall	NONE	MINOR	SIGNIFICANT	
	Other Water Surfaces	NONE	MINOR	SIGNIFICANT	

Site Monitoring Wells			
Well ID.	Location Secure		
MW-02	YES NO		
MW-03	YES	NO	
MW-05	YES	NO	
MW-06	YES	NO	
MW-07	YES	NO	
MW-08A	YES	NO	
MW-09A	YES	NO	
MW-10	YES	NO	
MW-11	YES	NO	
OW-2	YES	NO	
OW-4	YES	NO	
CW-01A	YES	NO	
RW-1	YES	NO	
RW-2	YES	NO	

Date:	12/14/2023
Technician -	KI

Time: 13:00
Weather: Sunny 31

Surface Cover Areas					
Excessive Settlement Observed	YES	NO	COMMENTS:		
Cracks or Potholes Observed	YES	NO			
Depressions and/or Rutting Observed	YES	NO			
Exposed Subbase Materials Observed	YES	NO			

Erosion Controls (Rip-Rap or Sod)						
Exposed or Damaged Geotextile layer(s) Observed YES NO COMMENTS:						
Excessive Settlement Observed	YES	NO				
Stressed Vegetation Observed	YES	NO				

Steel Sheetpile Retaining Wall					
Settlement of Wall	YES	NO	COMMENTS:		
Subsidence or Cracking of Soils Behind the Wall	YES	NO			
Cracking or Separation of Wall Joints	YES	NO			

Trees, Shrubs and other Planting Materials				
Strong Growth Observed	YES	NO	COMMENTS:	

Surface Water Quality					
Sheens Observed On:	Rip-Rap	NONE	MINOR	SIGNIFICANT	COMMENTS:
	Sheetpile Wall	NONE	MINOR	SIGNIFICANT	
	Other Water Surfaces	NONE	MINOR	SIGNIFICANT	

Site Monitoring Wells			
Well ID.	Location Secure		
MW-02	YES NO		
MW-03	YES	NO	
MW-05	YES	NO	
MW-06	YES	NO	
MW-07	YES	NO	
MW-08A	YES	NO	
MW-09A	YES	NO	
MW-10	YES	NO	
MW-11	YES	NO	
OW-2	YES	NO	
OW-4	YES	NO	
CW-01A	YES	NO	
RW-1	YES	NO	
RW-2	YES	NO	

Date:	3/28/2024
Technician:	Kevin Leo

Time: 12:15
Weather: Cloudy 46

Surface Cover Areas		
Excessive Settlement Observed	No	COMMENTS:
Cracks or Potholes Observed	No	COMMENTS:
Depressions and/or Rutting Observed	No	COMMENTS:
Exposed Subbase Materials Observed	No	COMMENTS:

Erosion Controls (Rip-Rap or Sod)		
Exposed or Damaged Geotextile layer(s) Observed	No	COMMENTS:
Excessive Settlement Observed	No	COMMENTS:
Stressed Vegetation Observed	No	COMMENTS:

Steel Sheetpile Retaining Wall		
Settlement of Wall	No	COMMENTS:
Subsidence or Cracking of Soils Behind the Wall	No	COMMENTS:
Cracking or Separation of Wall Joints	No	COMMENTS:

Trees, Shrubs and other Planting Materials			
Strong Growth Observed	Yes	COMMENTS:	

Surface Water Quality			
Sheens Observed On:	Rip-Rap	None	COMMENTS:
	Sheetpile Wall	None	COMMENTS:
	Other Water Surfaces	None	COMMENTS:

Site Monitoring Wells		
Well ID.	Location Secure	
MW-02	Yes	
MW-03	Yes	
MW-05	Yes	
MW-06	Yes	
MW-07	Yes	
MW-08A	Yes	
MW-09A	Yes	
MW-10	Yes	
MW-11	Yes	
OW-2	Yes	
OW-4	Yes	
CW-01A	Yes	
RW-1	Yes	
RW-2	Yes	

Date:	6/4/2024
Technician -	Kevin Leo

Time: 12:30
Weather: Sunny 80

Surface Cover Areas		
Excessive Settlement Observed	No	COMMENTS:
Cracks or Potholes Observed	No	COMMENTS:
Depressions and/or Rutting Observed	No	COMMENTS:
Exposed Subbase Materials Observed	No	COMMENTS:

Erosion Controls (Rip-Rap or Sod)		
Exposed or Damaged Geotextile layer(s) Observed	No	COMMENTS:
Excessive Settlement Observed	No	COMMENTS:
Stressed Vegetation Observed	No	COMMENTS:

Steel Sheetpile Retaining Wall		
Settlement of Wall	No	COMMENTS:
Subsidence or Cracking of Soils Behind the Wall	No	COMMENTS:
Cracking or Separation of Wall Joints	No	COMMENTS:

Trees, Shrubs and other Planting Materials		
Strong Growth Observed	Yes	COMMENTS:

Surface Water Quality						
Sheens Observed On:	Rip-Rap	None	COMMENTS:			
	Sheetpile Wall	None	COMMENTS:			
	Other Water Surfaces	None	COMMENTS:			

Site Monito	oring Wells
Well ID.	Location Secure
MW-02	Yes
MW-03	Yes
MW-05	Yes
MW-06	Yes
MW-07	Yes
MW-08A	Yes
MW-09A	Yes
MW-10	Yes
MW-11	Yes
OW-2	Yes
OW-4	Yes
CW-01A	Yes
RW-1	Yes
RW-2	Yes

General Comments:

Site inspection with Steve Stucker

Date:	6/20/2024
Technician	Kevin Leo

Time: 09:00
Weather: Sunny 80

	Surface Cover Are	eas
Excessive Settlement Observed	No	COMMENTS:
Cracks or Potholes Observed	No	COMMENTS:
Depressions and/or Rutting Observed	No	COMMENTS:
Exposed Subbase Materials Observed	No	COMMENTS:

Erosion Controls (Rip-Rap or Sod)					
Exposed or Damaged Geotextile layer(s) Observed	No	COMMENTS:			
Excessive Settlement Observed	No	COMMENTS:			
Stressed Vegetation Observed	No	COMMENTS:			

Stee	l Sheetpile Retaini	ng Wall
Settlement of Wall	No	COMMENTS:
Subsidence or Cracking of Soils Behind the Wall	No	COMMENTS:
Cracking or Separation of Wall Joints	No	COMMENTS:

Trees, Shru	ubs and other Plan	ting Materials
Strong Growth Observed	No	COMMENTS:

Surface Water Quality					
Sheens Observed On:	Rip-Rap	None	COMMENTS:		
	Sheetpile Wall	None	COMMENTS:		
	Other Water Surfaces	None	COMMENTS:		

Site Monito	oring Wells
Well ID.	Location Secure
MW-02	Yes
MW-03	Yes
MW-05	Yes
MW-06	Yes
MW-07	Yes
MW-08A	Yes
MW-09A	Yes
MW-10	Yes
MW-11	Yes
OW-2	Yes
OW-4	Yes
CW-01A	Yes
RW-1	Yes
RW-2	Yes



Appendix B – Well Sampling Field Data

Well ID.	Sample?	Well Size	Well Material	Stickup- Flush	DTP	DTW	DTB	Sump?	Comments
MW-02	No	2"	PVC	Flush		4.18	20.50	No	
MW-03	Yes	2"	PVC	Flush		1.96	25.50	No	
MW-05	Yes	2"	PVC	Stickup		5.88	28.10	No	Field Duplicate
MW-06	Yes	2"	PVC	Stickup		5.20	26.10	Yes	MS/MSD
MW-07	No	2"	PVC	Stickup		4.94	24.55	Yes	
MW-08A	No	2"	PVC	Flush		3.82	25.85	No	
MW-09A	No	2"	PVC	Stickup		5.54	25.07	Yes	
MW-10	No	2"	PVC	Flush		1.98	28.70	Yes	
MW-11	Yes	2"	PVC	Flush		3.96	8.10	Yes	
OW-2	No	2"	PVC	Stickup		5.96	27.55	Yes	
OW-4	No	2"	PVC	Stickup		5.59	28.05	Yes	
Hudson River	No					5.35	N/C	No	Chiseled square adjacent to the 8th railing post on top of the sheetpile wall.
CW-01A	No	4"	Steel	Flush		3.00	30.90	Yes	
RW-1	No	4"	PVC	Flush		5.45	26.50	Yes	
RW-2	No	4"	PVC	Flush		5.75	22.35	Yes	

Sampling Pers	connel:		KL		Date:	6/20/202	24	
Job Number:	0603400-1	253 <u>4</u> 0-221	IXL		Weather:	sunny 8		
		20040-221		_		•		
Well Id.	MW-03				Time In:	1050	Time Out:	
\Moll Info	ormation							
- vveii iiiid	omation		TOC	Othor	Mall Type			Chink I In
Depth to Wate	or:	(feet)	TOC 1.96	Other	Well Type: Well Locke		hmount Yes	Stick-Up No
Depth to Prod		(feet)	NP			eu. Point Marked:	Yes	No
Depth to Botto		(feet)	25.50		Well Mate	1		ner:
Length of Wat		(feet)	23.54		Well Diam		2" \ Oth	
Volume of Wa		(gal)	3.76		Comments			
Three Well Vo		(gal)	11.28					
		10 7	•					
Purging Ir	nformation							
							Conversion F	actors
Purging Metho	od:	Baile	r Peristaltio	Grundf	os Pump	gal/ft.	1" ID 2" ID	4" ID 6" ID
Tubing/Bailer		Teflor	n Stainless St	Poly	ethylene	of		
Sampling Met		Baile	r Peristaltic	Grundf	os Pump	water	0.04 0.16	0.66 1.47
Average Pum	ping Rate:	(ml/min)	200			1 gallo	on=3.785L=3785r	nL=1337cu. feet
Duration of Pu	· •	(min)	30					
Total Volume		(gal)	D	id well go dry?	Yes No	Х		
Horiba II 52 V	Vater Quality N			No				
Horiba 0-32 V	valer Quality iv	neter Osed?	168					
T +:	DTM		T	ODD	0 1 1: 11	T 1:19	D0	I TDO II
Time	DTW	Temp	pН	ORP	Conductivity	Turbidity	DO (man/l)	TDS
	(feet)	(°C)		(mV)	(mS/cm)	(NTU)	(mg/L)	(g/L)
1100	(feet) 3.03	(°C) 22.02	6.74	(mV) -86	(mS/cm)	(NTU) 11.9	(mg/L) 27	(g/L) 0.638
1100 1105	(feet) 3.03 5.15	(°C) 22.02 21.4	6.74 6.66	(mV) -86 -94	(mS/cm) 1 0.992	(NTU) 11.9 7.9	(mg/L) 27 0	(g/L) 0.638 0.635
1100 1105 1110	(feet) 3.03 5.15 7.83	(°C) 22.02 21.4 19.06	6.74 6.66 6.65	(mV) -86 -94 -98	(mS/cm) 1 0.992 1.03	(NTU) 11.9 7.9 6.8	(mg/L) 27 0	(g/L) 0.638 0.635 0.661
1100 1105 1110 1115	(feet) 3.03 5.15 7.83 9.44	(°C) 22.02 21.4 19.06 18.92	6.74 6.66 6.65 6.65	(mV) -86 -94 -98 -100	(mS/cm) 1 0.992 1.03 1.03	(NTU) 11.9 7.9 6.8 7.1	(mg/L) 27 0 0	(g/L) 0.638 0.635 0.661 0.656
1100 1105 1110 1115 1120	(feet) 3.03 5.15 7.83 9.44 11.7	(°C) 22.02 21.4 19.06 18.92 18.78	6.74 6.66 6.65 6.65 6.65	(mV) -86 -94 -98 -100 -101	(mS/cm) 1 0.992 1.03 1.03 1.04	(NTU) 11.9 7.9 6.8 7.1 7.7	(mg/L) 27 0 0 0	(g/L) 0.638 0.635 0.661 0.656 0.668
1100 1105 1110 1115 1120 1125	(feet) 3.03 5.15 7.83 9.44 11.7 13.2	(°C) 22.02 21.4 19.06 18.92 18.78 18.56	6.74 6.66 6.65 6.65 6.65 6.66	(mV) -86 -94 -98 -100 -101 -102	(mS/cm) 1 0.992 1.03 1.03 1.04 1.05	(NTU) 11.9 7.9 6.8 7.1 7.7 8.5	(mg/L)27 0 0 0 0 0	(g/L) 0.638 0.635 0.661 0.656 0.668 0.671
1100 1105 1110 1115 1120	(feet) 3.03 5.15 7.83 9.44 11.7	(°C) 22.02 21.4 19.06 18.92 18.78	6.74 6.66 6.65 6.65 6.65	(mV) -86 -94 -98 -100 -101	(mS/cm) 1 0.992 1.03 1.03 1.04	(NTU) 11.9 7.9 6.8 7.1 7.7	(mg/L) 27 0 0 0	(g/L) 0.638 0.635 0.661 0.656 0.668
1100 1105 1110 1115 1120 1125	(feet) 3.03 5.15 7.83 9.44 11.7 13.2	(°C) 22.02 21.4 19.06 18.92 18.78 18.56	6.74 6.66 6.65 6.65 6.65 6.66	(mV) -86 -94 -98 -100 -101 -102	(mS/cm) 1 0.992 1.03 1.03 1.04 1.05	(NTU) 11.9 7.9 6.8 7.1 7.7 8.5	(mg/L)27 0 0 0 0 0	(g/L) 0.638 0.635 0.661 0.656 0.668 0.671
1100 1105 1110 1115 1120 1125	(feet) 3.03 5.15 7.83 9.44 11.7 13.2	(°C) 22.02 21.4 19.06 18.92 18.78 18.56	6.74 6.66 6.65 6.65 6.65 6.66	(mV) -86 -94 -98 -100 -101 -102	(mS/cm) 1 0.992 1.03 1.03 1.04 1.05	(NTU) 11.9 7.9 6.8 7.1 7.7 8.5	(mg/L)27 0 0 0 0 0	(g/L) 0.638 0.635 0.661 0.656 0.668 0.671
1100 1105 1110 1115 1120 1125	(feet) 3.03 5.15 7.83 9.44 11.7 13.2	(°C) 22.02 21.4 19.06 18.92 18.78 18.56	6.74 6.66 6.65 6.65 6.65 6.66	(mV) -86 -94 -98 -100 -101 -102	(mS/cm) 1 0.992 1.03 1.03 1.04 1.05	(NTU) 11.9 7.9 6.8 7.1 7.7 8.5	(mg/L)27 0 0 0 0 0	(g/L) 0.638 0.635 0.661 0.656 0.668 0.671
1100 1105 1110 1115 1120 1125	(feet) 3.03 5.15 7.83 9.44 11.7 13.2	(°C) 22.02 21.4 19.06 18.92 18.78 18.56	6.74 6.66 6.65 6.65 6.65 6.66	(mV) -86 -94 -98 -100 -101 -102	(mS/cm) 1 0.992 1.03 1.03 1.04 1.05	(NTU) 11.9 7.9 6.8 7.1 7.7 8.5	(mg/L)27 0 0 0 0 0	(g/L) 0.638 0.635 0.661 0.656 0.668 0.671
1100 1105 1110 1115 1120 1125	(feet) 3.03 5.15 7.83 9.44 11.7 13.2	(°C) 22.02 21.4 19.06 18.92 18.78 18.56	6.74 6.66 6.65 6.65 6.65 6.66	(mV) -86 -94 -98 -100 -101 -102	(mS/cm) 1 0.992 1.03 1.03 1.04 1.05	(NTU) 11.9 7.9 6.8 7.1 7.7 8.5	(mg/L)27 0 0 0 0 0	(g/L) 0.638 0.635 0.661 0.656 0.668 0.671
1100 1105 1110 1115 1120 1125 1130	(feet) 3.03 5.15 7.83 9.44 11.7 13.2 14.06	(°C) 22.02 21.4 19.06 18.92 18.78 18.56	6.74 6.66 6.65 6.65 6.65 6.66	(mV) -86 -94 -98 -100 -101 -102	(mS/cm) 1 0.992 1.03 1.03 1.04 1.05	(NTU) 11.9 7.9 6.8 7.1 7.7 8.5	(mg/L)27 0 0 0 0 0	(g/L) 0.638 0.635 0.661 0.656 0.668 0.671
1100 1105 1110 1115 1120 1125	(feet) 3.03 5.15 7.83 9.44 11.7 13.2 14.06	(°C) 22.02 21.4 19.06 18.92 18.78 18.56	6.74 6.66 6.65 6.65 6.65 6.66	(mV) -86 -94 -98 -100 -101 -102	(mS/cm) 1 0.992 1.03 1.03 1.04 1.05	(NTU) 11.9 7.9 6.8 7.1 7.7 8.5	(mg/L)27 0 0 0 0 0	(g/L) 0.638 0.635 0.661 0.656 0.668 0.671
1100 1105 1110 1115 1120 1125 1130	(feet) 3.03 5.15 7.83 9.44 11.7 13.2 14.06	(°C) 22.02 21.4 19.06 18.92 18.78 18.56 18.49	6.74 6.66 6.65 6.65 6.65 6.66 73	(mV) -86 -94 -98 -100 -101 -102 -103	(mS/cm) 1 0.992 1.03 1.03 1.04 1.05	(NTU) 11.9 7.9 6.8 7.1 7.7 8.5 8.1	(mg/L)27 0 0 0 0 0 0 0	(g/L) 0.638 0.635 0.661 0.656 0.668 0.671 0.675
1100 1105 1110 1115 1120 1125 1130	(feet) 3.03 5.15 7.83 9.44 11.7 13.2 14.06	(°C) 22.02 21.4 19.06 18.92 18.78 18.56	6.74 6.66 6.65 6.65 6.65 6.66 73	(mV) -86 -94 -98 -100 -101 -102	(mS/cm) 1 0.992 1.03 1.03 1.04 1.05	(NTU) 11.9 7.9 6.8 7.1 7.7 8.5	(mg/L)27 0 0 0 0 0 0 0	(g/L) 0.638 0.635 0.661 0.656 0.668 0.671
1100 1105 1110 1115 1120 1125 1130 Sampling Inf	(feet) 3.03 5.15 7.83 9.44 11.7 13.2 14.06	(°C) 22.02 21.4 19.06 18.92 18.78 18.56 18.49	6.74 6.66 6.65 6.65 6.65 6.66 73	(mV) -86 -94 -98 -100 -101 -102 -103	(mS/cm) 1 0.992 1.03 1.03 1.04 1.05 1.06	(NTU) 11.9 7.9 6.8 7.1 7.7 8.5 8.1	(mg/L)27 0 0 0 0 0 0 0 Yes	(g/L) 0.638 0.635 0.661 0.656 0.668 0.671 0.675
1100 1105 1110 1115 1120 1125 1130 Sampling Info	(feet) 3.03 5.15 7.83 9.44 11.7 13.2 14.06 formation: 6 Method 8260	(°C) 22.02 21.4 19.06 18.92 18.78 18.56 18.49 VOC's	6.74 6.66 6.65 6.65 6.65 6.66 73 BTEX Includio	(mV) -86 -94 -98 -100 -101 -102 -103 mg Naphthalene Yes No	(mS/cm) 1 0.992 1.03 1.03 1.04 1.05 1.06	(NTU) 11.9 7.9 6.8 7.1 7.7 8.5 8.1 3 - 40 mL vials	(mg/L)27 0 0 0 0 0 0 0 Yes	(g/L) 0.638 0.635 0.661 0.656 0.668 0.671 0.675
1100 1105 1110 1115 1120 1125 1130 Sampling Inf USEPA SW-84 Sample ID: Sample Time:	(feet) 3.03 5.15 7.83 9.44 11.7 13.2 14.06 formation: 6 Method 8260 MW-03 1130	(°C) 22.02 21.4 19.06 18.92 18.78 18.56 18.49 VOC's	6.74 6.66 6.65 6.65 6.65 6.66 73	(mV) -86 -94 -98 -100 -101 -102 -103	(mS/cm) 1 0.992 1.03 1.03 1.04 1.05 1.06	(NTU) 11.9 7.9 6.8 7.1 7.7 8.5 8.1 3 - 40 mL vials ipped: Syra	(mg/L)27 0 0 0 0 0 0 0 Yes	(g/L) 0.638 0.635 0.661 0.656 0.668 0.671 0.675
1100 1105 1110 1115 1120 1125 1130 Sampling Inf	(feet) 3.03 5.15 7.83 9.44 11.7 13.2 14.06 formation: 6 Method 8260 MW-03 1130	(°C) 22.02 21.4 19.06 18.92 18.78 18.56 18.49 VOC's	6.74 6.66 6.65 6.65 6.65 6.66 73 BTEX Includio	(mV) -86 -94 -98 -100 -101 -102 -103 mg Naphthalene Yes No	(mS/cm) 1 0.992 1.03 1.03 1.04 1.05 1.06	(NTU) 11.9 7.9 6.8 7.1 7.7 8.5 8.1 3 - 40 mL vials	(mg/L)27 0 0 0 0 0 0 0 Yes	(g/L) 0.638 0.635 0.661 0.656 0.668 0.671 0.675

Sampling Pers	sonnel:	Pe	ter Lyon		Date:	6/20/202	24	
Job Number:	0603400-1	25340-221			Weather:	82 sunn	ıy	
Well Id.	MW-05				Time In:	1010	Time Out:	
				-				
Well Info	ormation							
			TOC	Other	Well Type:	Flus	shmount	Stick-Up
Depth to Wate	er:	(feet)	5.88		Well Locke	ed:	Yes	No
Depth to Prod		(feet)	0		_	Point Marked:	Yes	No
Depth to Botto		(feet)	28.10		Well Mater		∑ ssoth	
Length of Wat		(feet)	22.22		Well Diame		2" X Oth	ner:
Volume of Wa		(gal)	3.55		Comments	: :		
Three Well Vo	olumes:	(gal)	10.66		-			
Dunain a la	oformatio:							
Purging in	nformation	i					Conversion F	actors
Purging Metho	od:	Baile	Peristaltic	Crundi	os Pump	1/5	1" ID 2" ID	4" ID 6" ID
Tubing/Bailer		Teflor			/ethylene	gal/ft. of	1 10 2 10	4 10 0 10
Sampling Met		Baile		· ·	os Pump	water	0.04 0.16	0.66 1.47
Average Pum		(ml/min)	200	Grandi	oo r amp		on=3.785L=3785n	· · · · · · · · · · · · · · · · · · ·
Duration of Pu	· •	(min)	30					
Total Volume		(gal)		id well go dry?	Yes No	х		
Horiba II-52 V	Vater Quality N			No	<u></u> , ,			
TIOTIDA O-32 V		————	163					
Time	DTW	Temp	рН	ORP	Conductivity	Turbidity	DO	TDS
Tille	(feet)	(°C)	рп	(mV)	(mS/cm)	(NTU)	(mg/L)	(g/L)
		` '		· /	(1110/0111)			
1015	` '	20.67	7.23	-102	0.804	1.6	1.95	0.515
1015 1020	7.34 9.49	20.67 16.68	7.23 7.18	-102 -114	0.804 0.857	1.6 5.8	1.95 0.54	0.515 0.549
11	7.34						1.95 0.54 0.42	
1020	7.34 9.49	16.68	7.18	-114	0.857	5.8	0.54	0.549
1020 1025	7.34 9.49 10.86	16.68 15.79	7.18 1.17	-114 -116	0.857 0.876	5.8 1.9	0.54 0.42	0.549 0.56
1020 1025 1030	7.34 9.49 10.86 12.51	16.68 15.79 16.09	7.18 1.17 7.16	-114 -116 -118	0.857 0.876 0.867	5.8 1.9 0.1	0.54 0.42 0.35	0.549 0.56 0.555
1020 1025 1030 1035	7.34 9.49 10.86 12.51 13.32	16.68 15.79 16.09 16.77	7.18 1.17 7.16 7.15	-114 -116 -118 -119	0.857 0.876 0.867 0.865	5.8 1.9 0.1 0.1	0.54 0.42 0.35 0.32	0.549 0.56 0.555 0.554
1020 1025 1030 1035 1040	7.34 9.49 10.86 12.51 13.32 14.31	16.68 15.79 16.09 16.77 17.01	7.18 1.17 7.16 7.15 7.15	-114 -116 -118 -119 -119	0.857 0.876 0.867 0.865 0.871	5.8 1.9 0.1 0.1 0.5	0.54 0.42 0.35 0.32 0.3	0.549 0.56 0.555 0.554 0.558
1020 1025 1030 1035 1040	7.34 9.49 10.86 12.51 13.32 14.31	16.68 15.79 16.09 16.77 17.01	7.18 1.17 7.16 7.15 7.15	-114 -116 -118 -119 -119	0.857 0.876 0.867 0.865 0.871	5.8 1.9 0.1 0.1 0.5	0.54 0.42 0.35 0.32 0.3	0.549 0.56 0.555 0.554 0.558
1020 1025 1030 1035 1040	7.34 9.49 10.86 12.51 13.32 14.31	16.68 15.79 16.09 16.77 17.01	7.18 1.17 7.16 7.15 7.15	-114 -116 -118 -119 -119	0.857 0.876 0.867 0.865 0.871	5.8 1.9 0.1 0.1 0.5	0.54 0.42 0.35 0.32 0.3	0.549 0.56 0.555 0.554 0.558
1020 1025 1030 1035 1040	7.34 9.49 10.86 12.51 13.32 14.31	16.68 15.79 16.09 16.77 17.01	7.18 1.17 7.16 7.15 7.15	-114 -116 -118 -119 -119	0.857 0.876 0.867 0.865 0.871	5.8 1.9 0.1 0.1 0.5	0.54 0.42 0.35 0.32 0.3	0.549 0.56 0.555 0.554 0.558
1020 1025 1030 1035 1040	7.34 9.49 10.86 12.51 13.32 14.31	16.68 15.79 16.09 16.77 17.01	7.18 1.17 7.16 7.15 7.15	-114 -116 -118 -119 -119	0.857 0.876 0.867 0.865 0.871	5.8 1.9 0.1 0.1 0.5	0.54 0.42 0.35 0.32 0.3	0.549 0.56 0.555 0.554 0.558
1020 1025 1030 1035 1040 1045	7.34 9.49 10.86 12.51 13.32 14.31 15.59	16.68 15.79 16.09 16.77 17.01	7.18 1.17 7.16 7.15 7.15	-114 -116 -118 -119 -119	0.857 0.876 0.867 0.865 0.871	5.8 1.9 0.1 0.1 0.5	0.54 0.42 0.35 0.32 0.3	0.549 0.56 0.555 0.554 0.558
1020 1025 1030 1035 1040	7.34 9.49 10.86 12.51 13.32 14.31 15.59	16.68 15.79 16.09 16.77 17.01	7.18 1.17 7.16 7.15 7.15	-114 -116 -118 -119 -119	0.857 0.876 0.867 0.865 0.871	5.8 1.9 0.1 0.1 0.5	0.54 0.42 0.35 0.32 0.3	0.549 0.56 0.555 0.554 0.558
1020 1025 1030 1035 1040 1045	7.34 9.49 10.86 12.51 13.32 14.31 15.59	16.68 15.79 16.09 16.77 17.01 17.18	7.18 1.17 7.16 7.15 7.15 7.14	-114 -116 -118 -119 -119 -119	0.857 0.876 0.867 0.865 0.871 0.872	5.8 1.9 0.1 0.1 0.5 0.8	0.54 0.42 0.35 0.32 0.3 0.25	0.549 0.56 0.555 0.554 0.558 0.558
1020 1025 1030 1035 1040 1045	7.34 9.49 10.86 12.51 13.32 14.31 15.59 Formation:	16.68 15.79 16.09 16.77 17.01 17.18	7.18 1.17 7.16 7.15 7.15 7.14	-114 -116 -118 -119 -119	0.857 0.876 0.867 0.865 0.871 0.872	5.8 1.9 0.1 0.1 0.5	0.54 0.42 0.35 0.32 0.3 0.25	0.549 0.56 0.555 0.554 0.558
1020 1025 1030 1035 1040 1045 Sampling Info	7.34 9.49 10.86 12.51 13.32 14.31 15.59 formation: 6 Method 8260 Field Dupli	16.68 15.79 16.09 16.77 17.01 17.18 VOC's	7.18 1.17 7.16 7.15 7.15 7.14	-114 -116 -118 -119 -119 -119	0.857 0.876 0.867 0.865 0.871 0.872	5.8 1.9 0.1 0.1 0.5 0.8	0.54 0.42 0.35 0.32 0.3 0.25	0.549 0.56 0.555 0.554 0.558 0.558
1020 1025 1030 1035 1040 1045 Sampling Info	7.34 9.49 10.86 12.51 13.32 14.31 15.59 formation: 6 Method 8260 Field Dupli MW-05	16.68 15.79 16.09 16.77 17.01 17.18 VOC's	7.18 1.17 7.16 7.15 7.15 7.14 BTEX Includir	-114 -116 -118 -119 -119 -119 -119 -119 rg Naphthalene Yes No	0.857 0.876 0.867 0.865 0.871 0.872	5.8 1.9 0.1 0.1 0.5 0.8 6 - 40 mL vials	0.54 0.42 0.35 0.32 0.3 0.25 Yes	0.549 0.56 0.555 0.554 0.558 0.558
1020 1025 1030 1035 1040 1045 Sampling Info USEPA SW-840 Sample ID: Sample Time:	7.34 9.49 10.86 12.51 13.32 14.31 15.59 formation: 6 Method 8260 Field Dupli MW-05 1045	16.68 15.79 16.09 16.77 17.01 17.18 VOC's	7.18 1.17 7.16 7.15 7.15 7.14 BTEX Includir	-114 -116 -118 -119 -119 -119	0.857 0.876 0.867 0.865 0.871 0.872	5.8 1.9 0.1 0.1 0.5 0.8 6 - 40 mL vials ipped: Syra	0.54 0.42 0.35 0.32 0.3 0.25 Yes acuse Service C	0.549 0.56 0.555 0.554 0.558 0.558 0.558
1020 1025 1030 1035 1040 1045 Sampling Info	7.34 9.49 10.86 12.51 13.32 14.31 15.59 formation: 6 Method 8260 Field Dupli MW-05 1045	16.68 15.79 16.09 16.77 17.01 17.18 VOC's	7.18 1.17 7.16 7.15 7.15 7.14 BTEX Includir	-114 -116 -118 -119 -119 -119 -119 -119 rg Naphthalene Yes No	0.857 0.876 0.867 0.865 0.871 0.872	5.8 1.9 0.1 0.1 0.5 0.8 6 - 40 mL vials	0.54 0.42 0.35 0.32 0.3 0.25 Yes	0.549 0.56 0.555 0.554 0.558 0.558 0.558

Sampling Pers	sonnel:	Pe	Date: 6/20/2024								
Job Number:	0603400-1	25340-221	Weather:	90 clea	r						
Well Id.	MW-06		Time In:	1058	Time Out:						
-											
Well Info	ormation										
	_		TOC	Other	Well Type:	Flus	shmount	Stick-Up			
Depth to Wate		(feet)	5.2		Well Locke	ed:	Yes	No			
Depth to Prod		(feet)	0		•	Point Marked:	Yes	No			
Depth to Botto		(feet)	26.10		Well Mater			ner:			
Length of Wat		(feet)	20.9		Well Diam		2" _Oth	ner:			
Volume of Wa		(gal)	3.34		Comments	5 :					
Three Well Vo	olumes:	(gal)	10.03								
Duraina In	nformation										
Furging in	nomation						Conversion F	Factors			
Purging Metho	od:	Baile	r Peristaltic	Grundf	os Pump	1/51	1" ID 2" ID	4" ID 6" ID			
Tubing/Bailer		Teflor		—	vethylene	gal/ft. of	1 10 2 10	4 10 0 10			
Sampling Met		Baile		· ·	os Pump	water	0.04 0.16	0.66 1.47			
Average Pum		(ml/min)	200	Crana	00 i dilip		on=3.785L=3785r				
Duration of Pu	· •	(min)	30								
Total Volume		(gal)		id well go dry?	Yes No	n					
Horiba II-52 V	Vater Quality N			No	<u></u>						
TIOTIDA O-32 V			165								
I											
III Time I	DTW	Toman	ьЦ	ODD	Conductivity	Turbidity	DO	TDC			
Time	DTW (feet)	Temp	рН	ORP (m\/)	Conductivity	Turbidity	DO (mg/L)	TDS			
	(feet)	(°C)	·	(mV)	(mS/cm)	(NTU)	(mg/L)	(g/L)			
1100	(feet) 7.12	(°C) 21.86	6.65	(mV) 72	(mS/cm) 1.11	(NTU) 4.4	(mg/L) 2.67	(g/L) 0.718			
1100 1105	(feet) 7.12 8.24	(°C) 21.86 21.02	6.65 6.72	(mV)	(mS/cm) 1.11 1.14	(NTU)	(mg/L) 2.67 2.6	(g/L) 0.718 0.729			
1100	(feet) 7.12	(°C) 21.86	6.65	(mV) 72 62	(mS/cm) 1.11	(NTU) 4.4 2.7	(mg/L) 2.67	(g/L) 0.718			
1100 1105 1110	(feet) 7.12 8.24 9.13	(°C) 21.86 21.02 18.11	6.65 6.72 6.69	(mV) 72 62 -77	(mS/cm) 1.11 1.14 1.21	(NTU) 4.4 2.7 0	(mg/L) 2.67 2.6 0	(g/L) 0.718 0.729 0.772			
1100 1105 1110 1115	(feet) 7.12 8.24 9.13 10.32	(°C) 21.86 21.02 18.11 18.13	6.65 6.72 6.69 6.69	(mV) 72 62 -77 -81	(mS/cm) 1.11 1.14 1.21 1.21	(NTU) 4.4 2.7 0 0.3	(mg/L) 2.67 2.6 0	(g/L) 0.718 0.729 0.772 0.772			
1100 1105 1110 1115 1120	(feet) 7.12 8.24 9.13 10.32 11.47	(°C) 21.86 21.02 18.11 18.13 18.62	6.65 6.72 6.69 6.69 6.7	(mV) 72 62 -77 -81 -83	(mS/cm) 1.11 1.14 1.21 1.21 1.2	(NTU) 4.4 2.7 0 0.3 0.2	(mg/L) 2.67 2.6 0 0	(g/L) 0.718 0.729 0.772 0.772 0.767			
1100 1105 1110 1115 1120 1125	(feet) 7.12 8.24 9.13 10.32 11.47 12.57	(°C) 21.86 21.02 18.11 18.13 18.62 18.76	6.65 6.72 6.69 6.69 6.7 6.7	(mV) 72 62 -77 -81 -83 -86	(mS/cm) 1.11 1.14 1.21 1.21 1.2 1.19	(NTU) 4.4 2.7 0 0.3 0.2 0.9	(mg/L) 2.67 2.6 0 0 0 0	(g/L) 0.718 0.729 0.772 0.772 0.767 0.764			
1100 1105 1110 1115 1120 1125	(feet) 7.12 8.24 9.13 10.32 11.47 12.57	(°C) 21.86 21.02 18.11 18.13 18.62 18.76	6.65 6.72 6.69 6.69 6.7 6.7	(mV) 72 62 -77 -81 -83 -86	(mS/cm) 1.11 1.14 1.21 1.21 1.2 1.19	(NTU) 4.4 2.7 0 0.3 0.2 0.9	(mg/L) 2.67 2.6 0 0 0 0	(g/L) 0.718 0.729 0.772 0.772 0.767 0.764			
1100 1105 1110 1115 1120 1125	(feet) 7.12 8.24 9.13 10.32 11.47 12.57	(°C) 21.86 21.02 18.11 18.13 18.62 18.76	6.65 6.72 6.69 6.69 6.7 6.7	(mV) 72 62 -77 -81 -83 -86	(mS/cm) 1.11 1.14 1.21 1.21 1.2 1.19	(NTU) 4.4 2.7 0 0.3 0.2 0.9	(mg/L) 2.67 2.6 0 0 0 0	(g/L) 0.718 0.729 0.772 0.772 0.767 0.764			
1100 1105 1110 1115 1120 1125	(feet) 7.12 8.24 9.13 10.32 11.47 12.57	(°C) 21.86 21.02 18.11 18.13 18.62 18.76	6.65 6.72 6.69 6.69 6.7 6.7	(mV) 72 62 -77 -81 -83 -86	(mS/cm) 1.11 1.14 1.21 1.21 1.2 1.19	(NTU) 4.4 2.7 0 0.3 0.2 0.9	(mg/L) 2.67 2.6 0 0 0 0	(g/L) 0.718 0.729 0.772 0.772 0.767 0.764			
1100 1105 1110 1115 1120 1125	(feet) 7.12 8.24 9.13 10.32 11.47 12.57	(°C) 21.86 21.02 18.11 18.13 18.62 18.76	6.65 6.72 6.69 6.69 6.7 6.7	(mV) 72 62 -77 -81 -83 -86	(mS/cm) 1.11 1.14 1.21 1.21 1.2 1.19	(NTU) 4.4 2.7 0 0.3 0.2 0.9	(mg/L) 2.67 2.6 0 0 0 0	(g/L) 0.718 0.729 0.772 0.772 0.767 0.764			
1100 1105 1110 1115 1120 1125 1130	(feet) 7.12 8.24 9.13 10.32 11.47 12.57 13.55	(°C) 21.86 21.02 18.11 18.13 18.62 18.76	6.65 6.72 6.69 6.69 6.7 6.7	(mV) 72 62 -77 -81 -83 -86	(mS/cm) 1.11 1.14 1.21 1.21 1.2 1.19	(NTU) 4.4 2.7 0 0.3 0.2 0.9	(mg/L) 2.67 2.6 0 0 0 0	(g/L) 0.718 0.729 0.772 0.772 0.767 0.764			
1100 1105 1110 1115 1120 1125	(feet) 7.12 8.24 9.13 10.32 11.47 12.57 13.55	(°C) 21.86 21.02 18.11 18.13 18.62 18.76	6.65 6.72 6.69 6.69 6.7 6.7	(mV) 72 62 -77 -81 -83 -86	(mS/cm) 1.11 1.14 1.21 1.21 1.2 1.19	(NTU) 4.4 2.7 0 0.3 0.2 0.9	(mg/L) 2.67 2.6 0 0 0 0	(g/L) 0.718 0.729 0.772 0.772 0.767 0.764			
1100 1105 1110 1115 1120 1125 1130	(feet) 7.12 8.24 9.13 10.32 11.47 12.57 13.55	(°C) 21.86 21.02 18.11 18.13 18.62 18.76 18.64	6.65 6.72 6.69 6.69 6.7 6.7	(mV) 72 62 -77 -81 -83 -86 -87	(mS/cm) 1.11 1.14 1.21 1.21 1.2 1.19 1.2	(NTU) 4.4 2.7 0 0.3 0.2 0.9 0.5	(mg/L) 2.67 2.6 0 0 0 0 0	(g/L) 0.718 0.729 0.772 0.767 0.764 0.767			
1100 1105 1110 1115 1120 1125 1130 Sampling Info	(feet) 7.12 8.24 9.13 10.32 11.47 12.57 13.55	(°C) 21.86 21.02 18.11 18.13 18.62 18.76 18.64	6.65 6.72 6.69 6.69 6.7 6.7 6.7	(mV) 72 62 -77 -81 -83 -86 -87	(mS/cm) 1.11 1.14 1.21 1.21 1.2 1.19 1.2	(NTU) 4.4 2.7 0 0.3 0.2 0.9	(mg/L) 2.67 2.6 0 0 0 0 0	(g/L) 0.718 0.729 0.772 0.772 0.767 0.764			
1100 1105 1110 1115 1120 1125 1130 Sampling Info	(feet) 7.12 8.24 9.13 10.32 11.47 12.57 13.55	(°C) 21.86 21.02 18.11 18.13 18.62 18.76 18.64	6.65 6.72 6.69 6.69 6.7 6.7 6.7	(mV) 72 62 -77 -81 -83 -86 -87	(mS/cm) 1.11 1.14 1.21 1.21 1.2 1.19 1.2	(NTU) 4.4 2.7 0 0.3 0.2 0.9 0.5	(mg/L) 2.67 2.6 0 0 0 0 0 Yes	(g/L) 0.718 0.729 0.772 0.772 0.767 0.764 0.767			
1100 1105 1110 1115 1120 1125 1130 Sampling Info	(feet) 7.12 8.24 9.13 10.32 11.47 12.57 13.55 formation: 6 Method 8260 06-MS MW-06	(°C) 21.86 21.02 18.11 18.13 18.62 18.76 18.64	6.65 6.72 6.69 6.69 6.7 6.7 6.7	(mV) 72 62 -77 -81 -83 -86 -87	(mS/cm) 1.11 1.14 1.21 1.21 1.2 1.19 1.2	(NTU) 4.4 2.7 0 0.3 0.2 0.9 0.5 9 - 40 mL vials ipped: Syra	(mg/L) 2.67 2.6 0 0 0 0 0 Ves	(g/L) 0.718 0.729 0.772 0.767 0.764 0.767			
1100 1105 1110 1115 1120 1125 1130 Sampling Info USEPA SW-840 MW-0 Sample ID: Sample Time:	(feet) 7.12 8.24 9.13 10.32 11.47 12.57 13.55 formation: 6 Method 8260 06-MS MW-06 1130	(°C) 21.86 21.02 18.11 18.13 18.62 18.76 18.64	6.65 6.72 6.69 6.69 6.7 6.7 6.7	(mV) 72 62 -77 -81 -83 -86 -87	(mS/cm) 1.11 1.14 1.21 1.2 1.19 1.2	(NTU) 4.4 2.7 0 0.3 0.2 0.9 0.5 9 - 40 mL vials ipped: Syra Fed	(mg/L) 2.67 2.6 0 0 0 0 0 0 Yes	(g/L) 0.718 0.729 0.772 0.767 0.764 0.767			
1100 1105 1110 1115 1120 1125 1130 Sampling Info	(feet) 7.12 8.24 9.13 10.32 11.47 12.57 13.55 formation: 6 Method 8260 06-MS MW-06 1130	(°C) 21.86 21.02 18.11 18.13 18.62 18.76 18.64	6.65 6.72 6.69 6.69 6.7 6.7 6.7	(mV) 72 62 -77 -81 -83 -86 -87	(mS/cm) 1.11 1.14 1.21 1.2 1.19 1.2	(NTU) 4.4 2.7 0 0.3 0.2 0.9 0.5 9 - 40 mL vials ipped: Syra	(mg/L) 2.67 2.6 0 0 0 0 0 Ves	(g/L) 0.718 0.729 0.772 0.772 0.767 0.764 0.767			

Sampling Personnel: KL						Date: 6/20/2024							
Job Number:	0603400-12	25340-221	Weather:	sunny 8	1								
Well Id.	MW-11		Time In:	945	Time Out:	1050							
-					-								
Well Info	ormation												
			TOC	Other	Well Type:	Flus	shmount	Stick-Up					
Depth to Wate		(feet)	3.96		Well Locke	ed:	Yes	No					
Depth to Prod		(feet)	0		_	Point Marked:	Yes	No					
Depth to Botto		(feet)	8.10		Well Mater		SSOth						
Length of Wat		(feet)	4.14		Well Diam		2" X Oth	ner:					
Volume of Wa		(gal)	0.662 1.98		Comments	5 :							
Three Well VC	numes.	(gal)	1.90		-								
Purging Ir	oformation												
1 digitig ii	IIOIIIIatioii						Conversion F	actors					
Purging Metho	od.	Baile	Peristaltic	Grundf	os Pump	gal/ft.	1" ID 2" ID	4" ID 6" ID					
Tubing/Bailer		Teflor		\sim	rethylene	gai/it.	1 15 2 15	1 12 0 12					
Sampling Met		Baile			os Pump	water	0.04 0.16	0.66 1.47					
Average Pum		(ml/min)	200		- <u></u>	1 gall	on=3.785L=3785n	nL=1337cu. feet					
Duration of Pu	ımping:	(min)	30										
Total Volume	Removed:	(gal)	2 D	id well go dry?	Yes No	X							
Horiba U-52 V	Vater Quality M	leter Used?	Yes	No									
Time	DTW	Temp	рН	ORP	Conductivity	Turbidity	DO	TDS					
	(feet)	(°C)	·	(mV)	(mS/cm)	(NTU)	(mg/L)	(g/L)					
1010	4.05	20.74	7.13	-81	1.32	11.1	3.6	0.84					
1015	4.05	18.71	6.91	-88	1.24	0.5	0.21	0.794					
1020	4.05	18.02	6.86	-93	1.21	0.6	0	0.777					
1025	4.05	17.97	6.83	-93	1.24	1.1	0	0.795					
1030	4.05	17.89	6.81	-92	1.29	1.1	0	0.826					
1035	4.05	17.96	6.79	-91	1.33	1.3	0	0.852					
1040	4.05	17.74	6.76	-89	1.36	1.5	0	0.87					
			1										
Sampling Info	ormation:												
USEPA SW-846	6 Method 8260	VOC's	BTEX Includir	ng Naphthalene		3 - 40 mL vials	Yes	No					
					•								
Sample ID:	MW-11		•	Yes No No	Sh		acuse Service C						
Sample Time:	1040	MS	S/MSD?	Yes No X	<u> </u>	Fed	d-Ex C	Courier					
Comments/No	otes:					Laboratory:	Eurof	ïns					
						,	Amhers						
					II								

Date:	6/20/2024
Technician:	Kevin Leo

Time: 09:00
Weather: Sunny 80

Surface Cover Areas										
Excessive Settlement Observed	No	COMMENTS:								
Cracks or Potholes Observed	No	COMMENTS:								
Depressions and/or Rutting Observed	No	COMMENTS:								
Exposed Subbase Materials Observed	No	COMMENTS:								

Erosion Controls (Rip-Rap or Sod)										
Exposed or Damaged Geotextile layer(s) Observed	No	COMMENTS:								
Excessive Settlement Observed	No	COMMENTS:								
Stressed Vegetation Observed	No	COMMENTS:								

Steel Sheetpile Retaining Wall									
Settlement of Wall	No	COMMENTS:							
Subsidence or Cracking of Soils Behind the Wall	No	COMMENTS:							
Cracking or Separation of Wall Joints	No	COMMENTS:							

Trees, Shrubs and other Planting Materials										
Strong Growth Observed	No	COMMENTS:								

Surface Water Quality								
Sheens Observed On:	Rip-Rap	None	COMMENTS:					
	Sheetpile Wall	None	COMMENTS:					
	Other Water Surfaces	None	COMMENTS:					

Site Monitoring Wells							
Well ID.	Location Secure						
MW-02	Yes						
MW-03	Yes						
MW-05	Yes						
MW-06	Yes						
MW-07	Yes						
MW-08A	Yes						
MW-09A	Yes						
MW-10	Yes						
MW-11	Yes						
OW-2	Yes						
OW-4	Yes						
CW-01A	Yes						
RW-1	Yes						
RW-2	Yes						

Eurofins Buffalo

10 Hazelwood Drive

Chain of Custody Record

1.03	eurofir
	CUIVIII

Environment Testing

nherst, NY 14228-2298					=0									\mathcal{N}		<u> </u>	<u>:u:</u>	<u>55</u>	<u>.</u>			
none: 716-691-2600 Fax: 716-691-7991	Sampler:	2,	_/	1/2	ILA Lab		TAK.						Carrie	er Trac	200)E			IC No: IO-195170-40604	4.1	12
lient Information		ches	L			ail:	, Johr		_				State	of Orig		2			Pag	ge: age 1 of 1		
ient Contact: im Beaumont		315	877		JO Joh	n.Bei	ninati	i@et.e	urofins	=======================================					3				_	b#:		
ompany: Broundwater & Environmental Services Inc				PWSID:						Ana	alysis	Rec	ques	ted		— r	-		P,	reservation Code	3:	
ddress:	Due Date R	Requested	l:			П									ı					- HCL	3.5	5
780 Northern Boulevard Suite 100	TAT Reque	ested (day	rs):			11							}	П								
East Syracuse	1	18 1€	8				3.4															
State, Zip: NY, 13057	Complian	ce Project	. Δ Yes Δ	No		1 [4			- [13	1			
STATE OF THE PARTY	PO#: 0603400	-125340	-221-1106			2			1 1							f				10.		
Email:	WO#:					Ž	No												.	•		
tbeaumont@gesonline.com	Project#:					- 8	ž	2							- 1			1				
Project Name: National Grid - Upstate New York OM&M/ Event Desc: Hudson V	4802723	31					8	thale	1		1				- 1			afro	o	ther:		
Site: New York	SSOW#:					E	SD (Nap		- {			}					90	i L			
New York				Sample	Matrix	PE PE	18/14	*		1	-				1			nber 1				
				Type	(W=water, S=solid,	훒	E	 F		- [1				1			Numb				
	Compl	o Data	Sample Time	(C=comp	O=waste/oil, BT=Yissue, A=Ai	를	erfo	82600		1	1				1		-	Total	5	Special In	structions/No	te:
Sample Identification	Sample	Cale			vation Code:	- A	ŽΑ	12.04	- 53	,		* F	-	- 5	0.5		ser (i	\rightarrow	1			
MW-3	6/20	/24	11:30	6	Water	П																
MW-5	1	/	1045	1	Water	П											\top		9			
MW-6			1130		Water	11			T	1												
MW-6-MS			1130		Water	П																
MW-6-MSD			1130		Water	П																
MW-11			10.40		Water		П				1											
Field Duplicate			,		Water		П															
Trip Blank	لي ا	-	1200	120	Water	П	П												Û			
					\$	П											313					
																			£			
																	1	7				
Possible Hazard Identification		1					Sam	ple D	isposa	I(A	fee ma	y be	asse	ssed	if sa	mple	s are	retai	inec	l longer than 1	month)	
Non-Hazard Flammable Skin Irritant Pois	on B	Unkno	own 🗆	Radiologic	cal			Retu	um To (Client	<u> </u>	ш	Disp	osal E	By La	b		1		e For	Months	
Deliverable Requested: I, II, III, IV, Other (specify)						J.	Spec	cial Ins	structio	ns/Q(C Requ	uireme	ents:									
Empty Kit Relinquished by:			Date:			Tir	me:							Meth	od of	Shipme	ent:					
Relinquished by:	DateTinte		4 1	7:17	Company	_	ı	Receive		7	. /	1				Date/	rime:	au	_	17:17	Compa	Ē.
Relinquished 9:	Date Time				Company	_	-	Received by:						Date/	Time:	27	سم	tut_	Company			
Relinquished by:	Date/Time	:			Company			Receive	d by:				8.5			Date/	lime:				Company	
Custody Seals Intact: Custody Seal No.:		=					-	Cooler 1	remperat	ure(s)	°C and	Other R	temark	s:			_		_			
Δ Yes Δ No									-				-				_				Ver: 04/02/2024	



Appendix C – Data Usability Summary Report and Analytical Data



Groundwater & Environmental Services, Inc.

708 North Main Street, Suite 201 Blacksburg, VA 24060

T. 800.662.5067

July 22, 2024

Devin Shay Groundwater & Environmental Services, Inc. 6780 Northern Blvd., Suite 100 East Syracuse, NY 13057

RE: Data Usability Summary Report for National Grid: Water Street, Hudson, NY Site Data Package Eurofins Environment Testing Analytical Job No. **480-221048-1**

Groundwater & Environmental Services, Inc. (GES) reviewed one data package (Laboratory Project Number **480-221048-1**) from Eurofins Environment Testing., for the analysis of groundwater samples collected on June 20, 2024 from monitoring wells located at the National Grid: Water Street, Hudson, NY Site. Four aqueous samples and a field duplicate were analyzed for select volatile organic compounds (VOCs). Methodologies utilized were USEPA SW846 methods 8260C, with additional QC requirements of the NYSDEC ASP.

The data were reported as part of a complete full deliverable type B data validation. This usability report is generated from review of the following:

- Laboratory Narrative Discussion
- Custody Documentation
- Holding Times
- Surrogate and Internal Standard Recoveries
- Matrix Spike Recoveries/Duplicate: (MS/MSD) Correlations
- Field Duplicate Correlations
- Laboratory Control Sample (LCS)
- Preparation/Calibration Blanks
- Calibration/Low Level Standard Responses
- Instrumental Tunes
- Instrument MDLs
- Sample Quantitation and Identification

All items are determined to be acceptable for the DUSR level review and sample results are usable as reported. No data was qualified.

The laboratory case narratives and sample identification summary forms are attached to this text, and should be reviewed in conjunction with this report.

Table 1. Laboratory – Field Cross Reference

Lab ID	Sample ID	Comments
480-221048-1	MW-3	
480-221048-2	MW-5	
480-221048-3	MW-6	MS/MSD
480-221048-4	MW-11	
480-221048-5	Field Duplicate	
480-221048-6	Trip Blank	

BTEX and TCL Volatiles by EPA 8260C/NYSDEC ASP

Sample holding times were met and instrumental tune fragmentations were within acceptance ranges. There were no positive detections in the field blank, trip blank, or method blank.

Calibrations standards show acceptable responses within analytical protocol and validation action limits. The blind field duplicate correlations were not calculated for MW-5 and the duplicate sample, as neither sample reported above detection level concentrations.

The MS/MSD recoveries and relative percent differences are within laboratory specification. No qualification was necessary.

MW-11 has elevated reporting limits due to required dilution at the laboratory. Data is valid as reported.

Data Package Completeness

Complete NYSDEC Category B deliverables were included in the laboratory data package, all information required for validation of the data is present.

Please do not hesitate to contact me if you have comments or questions regarding this report.

Bonnie Janowiak, Ph.D.

Environmental Chemist, N.R.C.C.

BSJanowiek

Principle Chemist

202 North Main Street

Kent Square North, Suite 200

Blacksburg, VA 24060

VALIDATION DATA QUALIFIER DEFINITIONS

- U The analyte was analyzed for, but was not detected above the level of the associated reported quantitation limit.
- J The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
- J- The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased low.
- J+ The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased high.
- UJ The analyte was analyzed for, but was not detected. The associated reported quantitation limit is approximate and may be inaccurate or imprecise.
- **NJ** The detection is tentative in identification and estimated in value. Although there is presumptive evidence of the analyte, the result should be used with caution as a potential false positive and/or elevated quantitative value.
- R The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control limits. The analyte may or may not be present.

Sample Summaries and Laboratory Case Narratives

Sample Summary

Client: Groundwater & Environmental Services Inc

Job ID: 480-221048-1

Project/Site:

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-221048-1	MW-3	Water	06/20/24 11:30	06/21/24 09:30
480-221048-2	MW-5	Water	06/20/24 10:45	06/21/24 09:30
480-221048-3	MW-6	Water	06/20/24 11:30	06/21/24 09:30
480-221048-4	MW-11	Water	06/20/24 10:40	06/21/24 09:30
480-221048-5	Field Duplicate	Water	06/20/24 00:00	06/21/24 09:30
480-221048-6	Trip Blank	Water	06/20/24 12:00	06/21/24 09:30

Case Narrative

Client: Groundwater & Environmental Services Inc

Project:

Job ID: 480-221048-1

Eurofins Buffalo

Job ID: 480-221048-1

Job Narrative 480-221048-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

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

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

Receipt

The samples were received on 6/21/2024 9:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.6°C.

GC/MS VOA

Method 8260C: The following volatiles sample was diluted due to foaming at the time of purging during the original sample analysis: MW-11 (480-221048-4). Elevated reporting limits (RLs) are provided.

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

Eurofins Buffalo



Appendix D – Photograph Log







Site Conditions – December 2023







Site Photo - March 2024







Site Photo - June 2024