

August 6, 2025

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
2025 Groundwater Monitoring Report**

Dear Mr. Miller:

Attached for your information is the 2025 Groundwater Monitoring Report detailing the annual groundwater monitoring event and OM&M activities conducted from July 1, 2024, to June 30, 2025, 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. There were no detections of any compounds analyzed in the monitoring wells sampled in June 2025.

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

2025 Groundwater Monitoring Report



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

August 2025

Version 1





2025 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:
Groundwater & Environmental Services, Inc.
6780 Northern Boulevard, Suite 100
East Syracuse, NY 13057
TEL: 800-220-3069
www.gesonline.com

GES Project:
0625050.125340.221

Date:
August 6, 2025

Devin T. Shay, PG
Program Manager / Principal Hydrogeologist



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Acronyms

AWQS	Ambient Water Quality Standards	NYSDEC	New York State Department of Environmental Conservation
BTEX	Benzene, Toluene, Ethylbenzene, and Total Xylenes	OM&M	Operation, Maintenance, and Monitoring
DNAPL	Dense Non-Aqueous Phase Liquid	OU	Operable Unit
DUSR	Data Usability Summary Report	PAH	Polycyclic Aromatic Hydrocarbons
Eurofins	Eurofins Environment Testing	POTW	Publically Owned Treatment Works
GES	Groundwater & Environmental Services, 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 Agency
MGP	Manufactured Gas Plant	WPCF	Water Pollution Control Facility

1 Introduction

1.1 Overview

Groundwater & Environmental Services, Inc. (GES) has prepared this 2025 Groundwater Monitoring Report (covering July 1, 2024 – June 30, 2025) 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 2-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 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 19, 2025. 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:

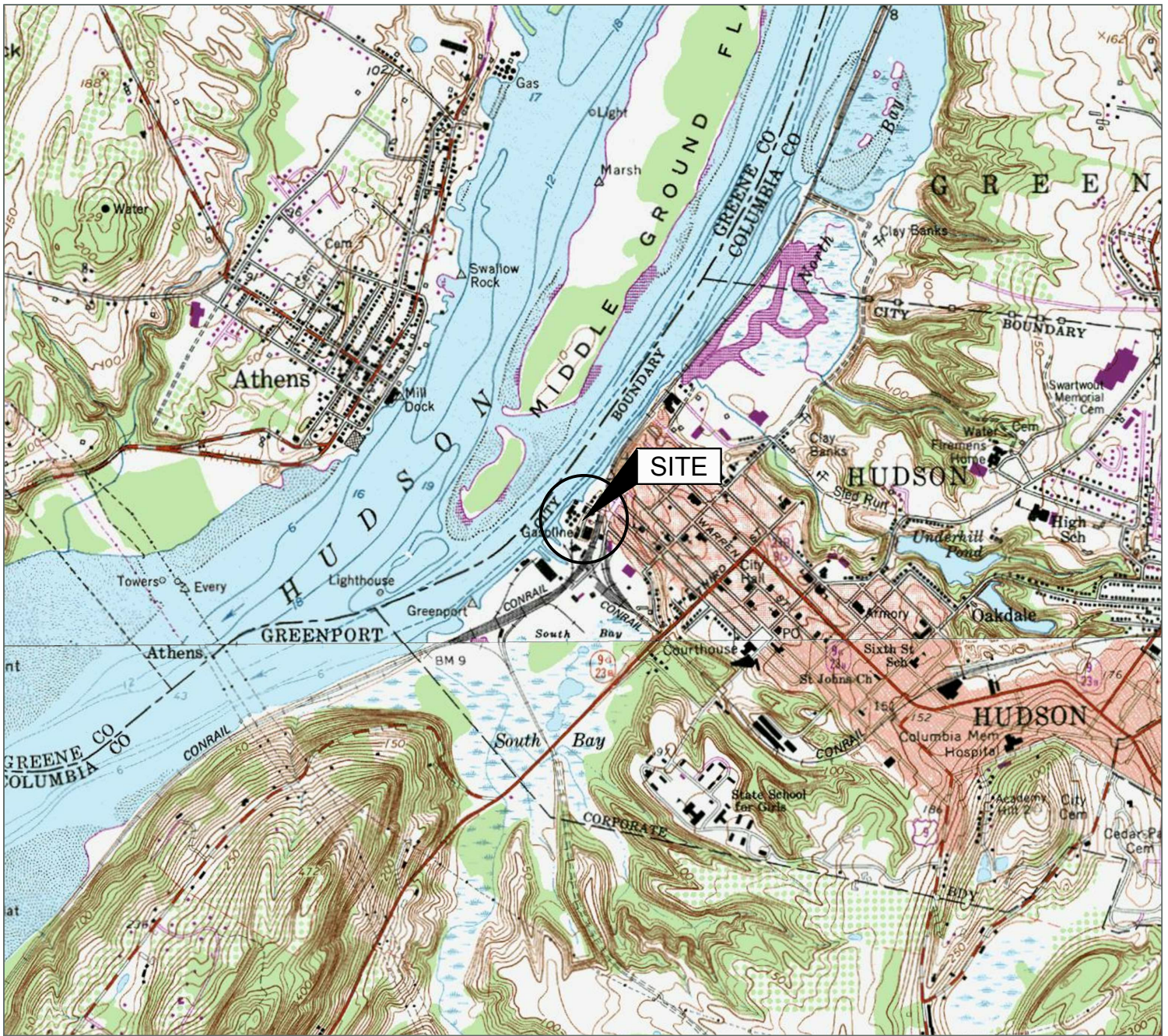
- Quarterly site inspections demonstrate that the site is in good condition and in compliance.
- Annual static water level measurements show that the groundwater direction is radially outward from the former gas holder area.
- Annual DNAPL monitoring indicated no collectable product.
- There were no detected concentrations of any parameter analyzed. Reference **Table 1** for historical data.

3.2 Recommendations

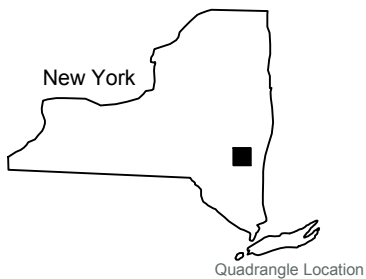
It is recommended that all OM&M activities continue, with the next report due in July 2026.



Figures



Source:
USGS 7.5 Minute Series
Topographic Quadrangle, 1980
Hudson North, New York
Contour Interval = 10'



Site Location Map

National Grid
Water Street
Hudson, New York

Drawn
W.G.S.
Designed

Approved



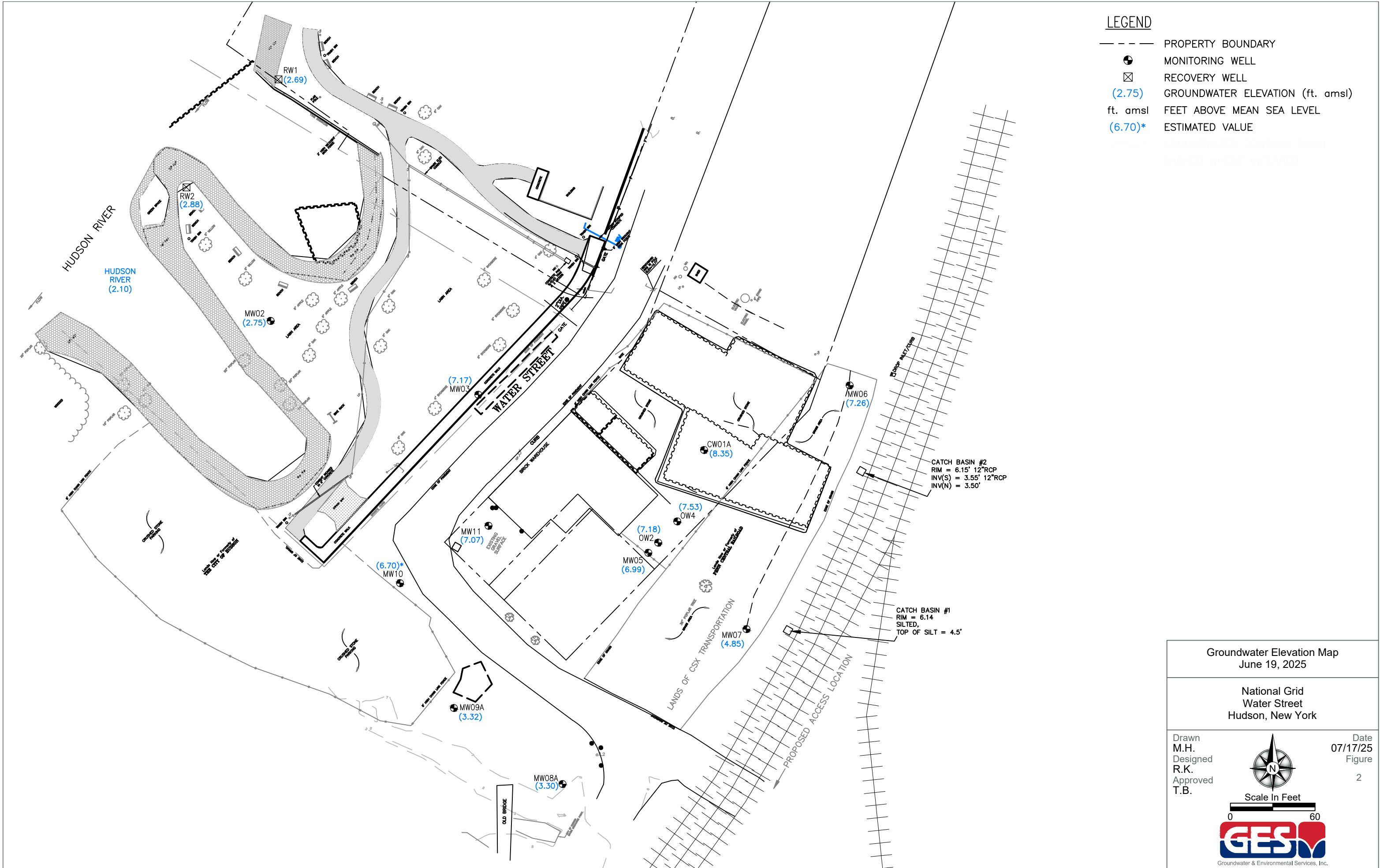
Scale In Feet
0 2000



Groundwater & Environmental Services, Inc.

Date
7/6/18
Figure
1

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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	06/19/25
Benzene	5	1	1	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)
Toluene	1000	5	1	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)
Ethylbenzene	700	5	1	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)
Xylene (total)	10000	5	3	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<3.0)	ND (<3.0)	ND (<3.0)	ND (<3.0)	ND (<3.0)	ND (<3.0)	ND (<3.0)	ND (<3.0)	ND (<2.0)
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 (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<4.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)

All values reported in µg/L.
NYSDEC = New York State Department of Environmental Conservation
AWQS = Ambient Water Quality Standards
ND (<#) = Not detected above laboratory reporting limits (indicated by #)
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	06/19/25
Benzene	5	1	1	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)
Toluene	1000	5	1	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)
Ethylbenzene	700	5	1	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)
Xylene (total)	10000	5	3	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<3.0)	ND (<3.0)	ND (<3.0)	ND (<3.0)	ND (<3.0)	ND (<3.0)	ND (<3.0)	ND (<3.0)	ND (<2.0)
Naphthalene	N/A	10	1	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<4.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)

All values reported in µg/L.
NYSDEC = New York State Department of Environmental Conservation
AWQS = Ambient Water Quality Standards
ND (<#) = Not detected above laboratory reporting limits (indicated by #)
NR = Not Reported
Bolded = 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	06/19/25
Benzene	5	1	1	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)
Toluene	1000	5	1	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)
Ethylbenzene	700	5	1	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)
Xylene (total)	10000	5	3	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<3.0)	ND (<3.0)	ND (<3.0)	ND (<3.0)	ND (<3.0)	ND (<3.0)	ND (<3.0)	ND (<3.0)	ND (<2.0)
Naphthalene	N/A	10	1	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<4.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)

All values reported in µg/L.
NYSDEC = New York State Department of Environmental Conservation
AWQS = Ambient Water Quality Standards
ND (<#) = Not detected above laboratory reporting limits (indicated by #)
NR = Not Reported
Bolded = values indicate exceedance of the NYSDEC AWQS



Table 1
Groundwater Analytical Data
MW-11

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	06/19/25
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	ND (<8.0)
Toluene	1000	5	1	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<4.0)	ND (<4.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<2.0)	ND (<8.0)
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	ND (<8.0)
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	ND (<16)
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	ND (<8.0)

All values reported in µg/L.
NYSDEC = New York State Department of Environmental Conservation
AWQS = Ambient Water Quality Standards
ND (<#) = Not detected above laboratory reporting limits (indicated by #)
NR = Not Reported
Bolded = values indicate exceedance of the NYSDEC AWQS

Table 2
Water Level Elevations

Well ID.	Water Level Elevation (feet amsl)														
	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	09/16/08	12/03/08	03/04/09	06/01/09	09/09/09
MW-02	1.73	1.95	0.95	1.79	1.96	1.77	1.72	1.23	1.32	1.77	1.70	1.36	0.54	1.90	1.92
MW-03	6.66	6.72	5.28	6.87	7.10	6.96	6.60	6.59	6.91	6.71	7.01	6.83	6.07	6.77	7.49
MW-05	6.67	6.97	5.70	6.82	7.02	6.87	6.90	7.12	6.99	6.88	7.48	7.39	6.47	6.65	7.63
MW-06	6.29	6.64	6.32	6.35	6.47	6.30	6.24	6.16	5.81	6.29	6.57	6.24	5.39	6.36	6.79
MW-07	3.84	4.09	3.86	3.54	3.56	3.39	3.65	4.76	6.09	3.84	4.41	4.92	4.27	4.05	4.67
MW-08A	2.89	3.46	2.51	2.62	2.74	2.52	2.61	2.88	3.52	2.80	2.94	2.91	2.36	2.75	2.76
MW-09A	2.92	3.15	2.84	3.11	3.25	3.25	3.13	2.85	2.86	2.95	3.17	2.80	2.22	2.90	3.17
MW-10*	6.99	7.08	6.52	7.57	6.49	6.31	7.17	6.59	7.94	6.42	6.94	6.31	5.36	5.72	6.79
MW-11	6.77	6.76	6.45	6.63	6.21	6.04	6.80	7.15	8.71	6.82	7.22	7.75	7.17	6.80	6.71
OW-2	6.93	7.10	5.88	6.97	7.12	6.99	7.25	7.22	7.10	7.00	7.62	7.45	6.57	6.78	7.82
OW-4	7.14	7.33	6.66	7.18	7.32	7.16	7.24	7.38	7.31	7.21	7.70	7.52	6.76	7.06	7.89
Hudson River	0.84	2.19	0.54	0.49	-0.86	1.29	-0.21	-0.74	-0.51	2.39	1.57	-0.87	1.79	1.03	0.61
CW-01A	7.55	n/a	n/a	n/a	n/a	n/a	8.02	7.67	8.89	7.97	8.02	8.26	7.87	7.67	7.40
RW-1	1.49	n/a	n/a	n/a	n/a	n/a	1.05	0.17	0.99	2.27	0.77	0.24	1.11	1.51	0.14
RW-2	0.96	n/a	n/a	n/a	n/a	n/a	0.85	-0.54	-0.14	2.40	0.78	-0.66	1.77	1.19	0.48

Notes:

* = Estimated elevation; well paved over during surveying but uncovered presently and can be monitored.
amsl = Above Mean Sea Level

Table 2
Water Level Elevations

Well ID.	Water Level Elevation (feet amsl)														
	12/14/09	03/08/10	06/02/10	09/14/10	12/01/10	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	1.75	1.17	1.98	1.97	1.59	0.67	2.50	3.43	1.75	1.08	2.03	1.68	1.34	1.00	2.30
MW-03	7.02	6.67	6.97	7.05	6.91	6.05	7.27	8.44	7.69	6.65	6.97	7.35	6.70	6.65	7.15
MW-05	7.40	6.92	6.81	7.37	7.18	6.35	6.92	7.82	7.85	6.74	6.77	7.12	7.07	6.62	6.89
MW-06	6.36	5.78	6.22	6.00	6.20	5.42	6.64	7.45	6.54	5.64	6.39	6.56	6.04	5.65	6.84
MW-07	4.94	5.19	3.83	3.64	4.29	5.86	4.02	5.71	4.51	4.17	3.84	4.28	4.12	4.64	5.22
MW-08A	2.91	3.31	2.61	1.54	1.96	3.66	2.83	4.10	2.86	2.51	2.71	2.84	2.66	2.76	4.01
MW-09A	3.02	2.75	2.88	3.20	2.98	2.40	3.05	4.10	3.17	2.52	3.00	3.00	2.68	2.50	3.25
MW-10*	7.89	5.77	5.75	6.91	5.92	5.91	5.81	6.58	6.47	5.27	5.79	6.23	5.38	5.07	5.56
MW-11	7.65	8.09	6.27	5.85	6.87	8.75	6.57	7.84	6.87	6.84	6.50	6.69	6.65	6.87	8.89
OW-2	7.47	7.02	6.90	7.00	7.25	6.44	7.17	8.02	8.03	6.82	6.87	7.32	7.28	6.72	7.06
OW-4	7.60	7.19	7.11	7.16	7.43	6.71	7.46	8.26	7.94	7.00	7.12	7.51	7.26	6.91	7.38
Hudson River	-0.23	-0.81	1.49	2.54	3.53	0.57	0.87	3.25	-1.21	2.48	1.99	-1.39	0.00	2.89	1.69
CW-01A	8.27	8.67	6.65	7.92	n/a	n/a	n/a	8.60	7.49	7.61	7.45	7.62	7.07	8.15	9.25
RW-1	-0.05	0.44	1.87	2.23	3.92	1.33	1.67	3.06	-0.39	2.09	1.50	-0.61	0.92	2.27	2.31
RW-2	-0.39	-0.80	1.61	2.54	3.46	0.78	1.06	2.38	-1.00	2.46	1.93	-1.11	0.06	2.84	1.76

Notes:

* = Estimated elevation; well paved over during surveying but uncovered presently and can be monitored.
amsl = Above Mean Sea Level

Table 2
Water Level Elevations

Well ID.	Water Level Elevation (feet amsl)																
	09/16/13	12/10/13	03/09/14	06/09/14	09/08/14	12/01/14	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	06/19/25
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	2.75
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	7.17
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	6.99
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	7.26
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	4.85
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	3.30
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	3.32
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	6.70
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	7.07
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	7.18
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	7.53
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	2.10
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	8.35
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	2.69
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	2.88

Notes:

* = Estimated elevation; well paved over during surveying but uncovered presently and can be monitored.
amsl = Above Mean Sea Level



Appendix A – Quarterly Inspection Forms

Site Inspection
Hudson-Water Street
Operable Unit 1
Hudson, New York

Date: 9/26/2024
Technician: KL

Time: 11:45
Weather: Rain 65

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

General Comments:

Site Inspection
Hudson-Water Street
Operable Unit 1
Hudson, New York

Date: 12/6/2024
Technician: KL

Time: 10:00
Weather: Sunny 22

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

General Comments:

Site Inspection
Hudson-Water Street
Operable Unit 1
Hudson, New York

Date: 3/26/2025
 Technician: KL

Time: 10:45
 Weather: Sunny 43

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

General Comments:

Site Inspection
Hudson-Water Street
Operable Unit 1
Hudson, New York

Date: 6/19/2025
 Technician: KL

Time: 9:00
 Weather: Sunny 82

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

General Comments:



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	3.35		20.50	No	
MW-03	Yes	2"	PVC	Flush	1.80		25.50	No	
MW-05	Yes	2"	PVC	Stickup	5.58		28.10	No	Duplicate Sample
MW-06	Yes	2"	PVC	Stickup	4.59		26.10	Yes	MS/MSD
MW-07	No	2"	PVC	Stickup	4.09		24.55	Yes	
MW-08A	No	2"	PVC	Flush	3.06		25.85	No	
MW-09A	No	2"	PVC	Stickup	5.08		25.07	Yes	
MW-10	No	2"	PVC	Flush	1.99		28.70	Yes	
MW-11	Yes	2"	PVC	Flush	2.50		8.10	Yes	
OW-2	No	2"	PVC	Stickup	5.64		27.55	Yes	
OW-4	No	2"	PVC	Stickup	5.13		28.05	Yes	
Hudson River	No				3.19		N/C	No	Chiseled square adjacent to the 8th railing p on top of the sheetpile wall.
CW-01A	No	4"	Steel	Flush	1.32		30.90	Yes	
RW-1	No	4"	PVC	Flush	2.40		26.50	Yes	
RW-2	No	4"	PVC	Flush	2.08		22.35	Yes	

eurolins | Environment Testing

Ver: 01/16/2019



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 30, 2025

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. **480-230491-1**

Groundwater & Environmental Services, Inc. (GES) reviewed one data package (Laboratory Project Number **480-230491-1**) from Eurofins Environment Testing., for the analysis of groundwater samples collected on June 19, 2025, 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: (M S / M S D) 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
480-230491-1	MW-3	
480-230491-2	MW-5	
480-230491-3	MW-6	MS/MSD
480-230491-4	MW-11	
480-230491-5	Field Duplicate	
480-230491-6	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 associated with MW-6 reported recoveries and relative percent differences within laboratory specification with the exception of a high recovery for naphthalene. High bias does not affect non-detect analytes. 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.
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
Project/Site:

Job ID: 480-230491-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-230491-1	MW-3	Water	06/19/25 10:35	06/20/25 09:30
480-230491-2	MW-5	Water	06/19/25 09:55	06/20/25 09:30
480-230491-3	MW-6	Water	06/19/25 10:55	06/20/25 09:30
480-230491-4	MW-11	Water	06/19/25 11:15	06/20/25 09:30
480-230491-5	Field Duplicate	Water	06/19/25 00:00	06/20/25 09:30
480-230491-6	Trip Blank	Water	06/19/25 11:50	06/20/25 09:30

Case Narrative

Client: Groundwater & Environmental Services Inc
Project:

Job ID: 480-230491-1

Job ID: 480-230491-1

Eurofins Buffalo

Job Narrative 480-230491-1

Receipt

The samples were received on 6/20/2025 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 was 3.1° 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 (480-230491-4). 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 – September 2024



Site Conditions – December 2024



Site Conditions – March 2025



Site Conditions – June 2025