

Rachel Savarie, P.E.
New York State Department of Environmental Conservation
Division of Environmental Remediation
625 Broadway, 11th Floor
Albany, New York 12233-7014

Arcadis of New York, Inc.
One Lincoln Center
110 West Fayette Street
Suite 300
Syracuse
New York 13202
Phone: 315 446 9120
Fax: 315 449 0017

www.arcadis.com

Date: February 8, 2023

Our Ref: 30125700

Subject: 2022 Post-Construction Monitoring Report

Plattsburgh (Saranac Street) Former Manufactured Gas Plant Site, Operable Unit No. 1
NYSDEC Site No. 5-10-007

Dear Ms. Savarie,

On behalf of the New York State Electric & Gas Corporation (NYSEG), this letter summarizes the 2022 post-remediation monitoring completed at the Plattsburgh (Saranac Street) Former Manufactured Gas Plant (MGP) site, Operable Unit No. 1 (OU-1) located in Plattsburgh, New York (the Site).

For reference, remedial activities at Operable Unit No. 1 (OU-1) were completed from 2006 to 2009 (landside remediation), 2010 to 2017 (in-river remediation), and 2020 to 2021 (monitoring well rehabilitation and installation). Arcadis of New York, Inc. began post-construction monitoring activities in 2022 which represents "Year 1" of post-construction monitoring.

2022 Site Activity Overview

Arcadis conducted the 2022 post-remediation monitoring activities in accordance with the Draft Site Management Plan (SMP) for OU-1 and recommendations presented in the February 4, 2022, OU-1 Monitoring Well Installation and Groundwater Sampling Summary Report. Note that, on behalf of NYSEG, Arcadis submitted the Draft SMP for OU-1 on January 18, 2023 via the NYSDEC file transfer service.

2022 Monitoring and Gauging

Post-remediation monitoring data are generally used to assess the performance and effectiveness of the remedy. The 2022 monitoring and gauging activities consisted of the following:

- Conducting gauging to assess the presence/absence of non-aqueous phase liquid (NAPL).
- Conducting a site-wide inspection to assess the general site conditions at the time of the inspection.

Monitoring and gauging activity details are presented below. Monitoring well locations are shown on Figure 1.

NAPL and Water Level Gauging

Arcadis conducted quarterly NAPL and water level gauging on March 1 (Q1), April 26 (Q2), August 10 (Q3), and November 21 (Q4), 2022. The data collected are presented and discussed below.

NAPL Gauging Activities and Results

Field staff used an oil-water interface probe to measure water levels, gauge accumulated NAPL, and measure depth to bottom at each monitoring well and monitoring sump. A weighted tape was used, as necessary, to confirm depth to bottom measurements obtained with the interface probe.

The 2022 water level and NAPL gauging results summary is presented in Table 1. Additionally, previous water level and NAPL gauging results from June 2020 to December 2021 are also included in Table 1, for reference. Notable observations include the following:

- Trace amounts of NAPL (as blebs on the interface probe) were observed at MS-13-6 (August) and NMW15-02 (August and November).
- Measurable thicknesses of dense NAPL (DNAPL) were observed at MS-13-2, MS-13-3, MS-13-5 and MW-99-12S. Observations are summarized below:
 - MS-13-2, 0.05' of DNAPL was observed during the Q2 monitoring event and was not observed during the remaining quarterly monitoring events. This suggests that a very small amount of DNAPL is present that is difficult to reliably detect and measure, and that DNAPL is not accumulating significantly.
 - MS-13-3, between 0.2' and 0.3' of DNAPL were present during the Q1 and Q2 events. This accumulated DNAPL was removed during the Q2 event, yielding approximately 0.13 gallons, no accumulated DNAPL was detected during the Q4 monitoring event.
 - MS-13-5, approximately 0.5' of accumulated DNAPL was observed during the Q1 and Q2 monitoring events and was removed during the Q2 event, yielding a volume of approximately 0.2 gallons. During the Q3 event, 0.3' of a "NAPL emulsion" was observed, and during the Q4 event 0.25' of DNAPL was observed.
 - MW-99-12S, between 0.07' and 0.2' of DNAPL were present during the Q3 and Q4 events. Again, this suggests a small amount of DNAPL is present but is not accumulating significantly.
- No light NAPL (LNAPL) was observed at any location, historically, LNAPL has not been a concern at the site.

Groundwater Elevation and Movement

Field personnel conducted synoptic water level measurements in conjunction with NAPL gauging. Depth-to-water measurements were taken from surveyed marks on the tops of the inner well casings and converted to elevations. Groundwater elevation data are summarized in Table 1. Water table and bedrock unit potentiometric surface maps for the November 2022 monitoring event are presented as Figures 2 and 3, respectively. For comparison, potentiometric surface maps from the August 2002 Remedial Investigation Report (RI Report, prepared by GEI) are included as Attachment 1.

When comparing the 2002 and 2022 maps, the following should be considered:

- The 2002 maps were drawn using numerous data points that no longer exist (i.e., monitoring wells and piezometers that were removed during remedial construction activities completed after the RI).
- The RI water table maps represent the water table configuration prior to installing the SSB, DNAPL observation/collection trench and sheet pile barrier, and the in-situ soil stabilization (ISS) monolith. The low hydraulic conductivity of the SSB, sheet pile barrier, and ISS monolith serve as barriers to groundwater flow.

Therefore, both historical flow patterns and inferred groundwater flow effects caused by the existing subsurface remedial components listed above were considered when preparing Figures 2 and 3.

Historically, the water table mimicked the Site's topography (peninsula), with groundwater elevations highest east of the peninsula and remaining higher along the approximate centerline of the peninsula, gradually declining toward the riverbank (see RI Figures 9 and 10 in Attachment 1). The November 2022 water table (Figure 2) follows a similar overall pattern; however, there are a few differences imparted by the installed remedial components.

- Groundwater has mounded slightly behind the portion of the SSB wall that parallels the riverbank.
- Based on surveyed elevations of the SSB top located parallel to the Saranac River (identified on Figure 2 as "Stabilized Soil Barrier – Verified"), groundwater overtops the SSB along most of its length, except for the area between monitoring sumps MS-13-1 and MS-13-5.
- Groundwater overtopping the SSB (parallel to the river) enters the DNAPL observation/collection trench. Once in the trench, groundwater follows the trench slope (which parallels the slope of the river) toward monitoring sump MS-13-10. In this area, groundwater in the trench overtops the sheet pile barrier and seeps into the river.
- Near the ISS monolith (identified as "ISS Limits (2017)" on Figure 2), the monolith top is above the water table, therefore, groundwater flow diverges around the monolith, eventually entering the river.

Similar to the water table configuration, the bedrock potentiometric surface generally mimics the peninsula topography, with groundwater moving from the center of the peninsula radially outward, toward and discharging to, the river. Bedrock groundwater north of the river also moves toward, and discharges to, the river. Data in this area demonstrate that the river represents a groundwater discharge boundary for the bedrock flow system, i.e., there is no "underflow" of bedrock groundwater beneath the river. Rather, bedrock groundwater on both sides of the river moves toward and discharges to the river.

Waste Management

Arcadis contained investigation-derived waste in appropriately labeled NYSDOT-approved drums and staged in the on-site fabric structure for off-site disposal by NYSEG's remediation contractor, Land Remediation, Inc. (LRI).

Site Inspection

Arcadis inspected monitoring wells and sumps during gauging activities and conducted a site inspection to evaluate site usage and general site conditions. Site cover consists of asphalt pavement/concrete, crushed stone/gravel, and vegetated areas (shown on Figure 1). Monitoring wells and sumps are currently in satisfactory condition. The November 2022 site inspection form is included as Attachment 2.

Note that NYSEG is currently developing a drainage design plan for the OU-1 landside site to grade and install the final site cover consisting of a minimum 1-foot soil cover meeting the Part 375-6.8(b) soil cleanup objectives for commercial use.

Summary and Conclusions

Based on the 2022 (i.e., Year 1) post-construction monitoring results:

- Post-remediation groundwater flow directions are generally consistent with pre-remediation conditions, both water table and bedrock groundwater move radially toward, and discharge to, the Saranac River.

Rachel Savarie, P.E.
New York State Department of Environmental Conservation
February 8, 2023

- Accumulated NAPL was removed from MS-13-3 (approx. 0.13 gallons) and MS-13-5 (approx. 0.20 gallons) in April 2022.
- The OU-1 landside site is currently used as a contractor staging/laydown area. Site cover areas are currently intact, with no evidence of intrusive activities.

Consistent with the monitoring and reporting requirements presented in the Draft SMP:

- NAPL gauging activities will continue quarterly and are tentatively scheduled for March, May, August, and November 2023.
- Groundwater level measurements will be conducted concurrently with NAPL gauging activities.
- Annual site inspection will be completed during the Q3/Q4 NAPL gauging event.
- The next groundwater sampling event will occur in 2026 (i.e., post-construction "year 5").

Please contact Mark Castro of NYSEG at 203.233.1245 or mark_castro@avangrid.com with any questions or comments.

Sincerely,
Arcadis of New York, Inc.



Joe Bistrovich
Senior Environmental Engineer

Email: joe.bistrovich@arcadis.com
Direct Line: 315.671.9697
Mobile: 315.427.4585

CC. Mark Castro, NYSEG
Tracy Blazicek, CHMM, NYSEG
Keith White, PG, Arcadis
Mark Gravelding, PE, Arcadis

Enc: Table 1 – Water Level and NAPL Gauging Summary

Figure 1 – Monitoring Well Plan
Figure 2 – Water Table Map
Figure 3 – Bedrock Potentiometric Surface Map

Attachment 1 – RI Figures
Attachment 2 – Site Inspection Form

Tables

Table 1

Water Level and NAPL Gauging Summary

2022 Post-Construction Monitoring Report

Plattsburgh (Saranac Street) Former MGP Site, Operable Unit No. 1

Plattsburgh, New York



Well ID / Date	TIC Elevation (ft AMSL)	Depth to Water (ft bgs)	Depth to Bottom (ft bgs)	Approximate NAPL Thickness ³ (ft)	Groundwater Elevation (ft AMSL)	Comments/Observations
Well #90-03(5)	131.98					
6/3/2020		9.77	16.77	0.00	122.21	
10/12/2021		13.00	16.93	0.00	118.98	
11/2/2021		NM	NM	NM	NM	
12/17/2021		9.78	16.64	0.00	122.20	
3/1/2022		8.93	16.74	0.00	123.05	
4/26/2022		7.33	16.90	0.00	124.65	
8/10/2022		10.32	16.73	0.00	121.66	
11/21/2022		10.08	16.74	0.00	121.90	
MW-97-03D	132.31					
6/3/2020		9.64	54.69	0.00	122.67	
10/12/2021		10.45	56.64	0.00	121.86	
11/2/2021		NM	NM	NM	NM	
12/17/2021		10.46	71.95	0.00	121.85	
3/1/2022		10.56	72.05	0.00	121.75	Soft bottom (1/5-inch sediment)
4/26/2022		10.62	71.97	0.00	121.69	Little silt in sump
8/10/2022		10.68	72.38	0.00	121.63	0.3 ft sediment
11/21/2022		10.91	72.40	0.00	121.40	0.4 ft sediment
MW-97-01S	133.73					
6/3/2020		16.08	17.35	0.00	117.65	
10/12/2021		16.86	17.44	0.00	116.87	
11/2/2021		NM	NM	NM	NM	
12/17/2021		14.46	17.31	0.00	119.27	
3/1/2022		15.87	17.32	0.00	117.86	
4/26/2022		11.42	17.32	0.00	122.31	Bent 4" pro casing
8/10/2022		10.97	17.22	0.00	122.76	
11/21/2022		16.16	17.28	0.00	117.57	
MW-13-27	118.48					
6/3/2020		8.97	48.31	0.00	109.51	
10/12/2021		9.27	48.96	0.00	109.21	
11/2/2021		NM	NM	NM	NM	
12/18/2021		8.35	47.16	0.00	110.13	
3/1/2022		7.21	NM	0.00	111.27	Ice
4/26/2022		7.09	47.01	0.00	111.39	
8/10/2022		8.83	47.13	0.00	109.65	
11/21/2022		8.49	47.16	0.00	109.99	
MW-13-26	116.97					
6/3/2020		8.71	43.64	0.00	108.26	
10/12/2021		8.91	43.74	0.00	108.06	
11/2/2021		NM	NM	NM	NM	
12/17/2021		8.03	43.40	0.00	108.94	
3/1/2022		5.55	NM	0.00	111.42	Ice
4/26/2022		6.99	43.20	0.00	109.98	
8/10/2022		8.53	43.02	0.00	108.44	
11/21/2022		7.89	43.04	0.00	109.08	
Phase 7 Sump	NA					
6/3/2020		3.04	9.47	0.00	NA	
10/12/2021		3.28	9.70	0.00	NA	
11/2/2021		NM	NM	NM	NM	
12/17/2021		2.37	10.34	Trace	NA	Soft bottom (0.3 ft sediment), sheen on surface, odor
3/1/2022		NM	NM	NM	NM	Could not locate
4/26/2022		2.23	9.70	0.00	NA	
8/10/2022		-1.45	11.20	0.00	NA	
11/21/2022		3.32	10.36	0.00	NA	Ice inside sump
MS-14-1	116.26					
6/3/2020		9.02	NM	NM	107.24	
10/12/2021		NM	NM	NM	NM	Not accessible
11/2/2021		NM	NM	NM	NM	Not accessible
12/17/2021		NM	NM	NM	NM	Not accessible
3/1/2022		NM	NM	NM	NM	Not accessible
4/26/2022		NM	NM	NM	NM	Not accessible
8/10/2022		8.69	13.10	0.00	107.57	
11/21/2022		9.41	14.70	0.00	106.85	Soft bottom (0.2 ft sediment)

Table 1

Water Level and NAPL Gauging Summary

2022 Post-Construction Monitoring Report

Plattsburgh (Saranac Street) Former MGP Site, Operable Unit No. 1

Plattsburgh, New York



Well ID / Date	TIC Elevation (ft AMSL)	Depth to Water (ft bgs)	Depth to Bottom (ft bgs)	Approximate NAPL Thickness ³ (ft)	Groundwater Elevation (ft AMSL)	Comments/Observations
MS-13-1	117.30					
6/3/2020		9.76	18.72	0.00	107.54	
10/12/2021		10.26	21.09	0.00	107.04	
11/2/2021		NM	NM	NM	NM	
12/17/2021		8.96	18.00	0.00	108.34	
3/1/2022		7.68	NM	0.00	109.62	Ice
4/26/2022		7.91	17.97	0.00	109.39	
8/10/2022		9.44	18.00	0.00	107.86	
11/21/2022		9.59	17.99	0.00	107.71	
MS-13-2	119.20					
6/3/2020		10.53	19.70	0.00	108.67	
10/12/2021		12.00	21.92	0.00	107.20	
11/2/2021		NM	NM	NM	NM	
12/17/2021		10.60	18.40	0.00	108.60	
3/1/2022		9.70	18.40	0.00	109.50	
4/26/2022		9.87	18.01	0.05	109.33	
8/10/2022		10.81	18.41	0.00	108.39	
11/21/2022		10.37	18.41	0.00	108.83	0.1 ft sediment
MS-13-3	119.63					
6/3/2020		11.02	18.69	0.00	108.61	
10/12/2021		12.49	18.75	0.00	107.14	
11/2/2021		NM	NM	NM	NM	
12/17/2021		11.09	17.84	Trace	108.54	Soft bottom (0.3 ft sediment), trace
3/1/2022		10.20	17.92	0.30	109.43	Soft bottom
4/26/2022		10.44	17.80	0.20	109.19	0.13 Gallons NAPL removed
8/10/2022		11.23	17.80	0.00	108.40	0.1 ft sediment, sheen
11/21/2022		10.82	17.75	0.00	108.81	
MS-13-4	119.26					
6/3/2020		10.67	17.51	0.00	108.59	
10/12/2021		12.00	17.11	0.00	107.26	
11/2/2021		NM	NM	NM	NM	
12/17/2021		10.77	16.34	Trace	108.49	
3/1/2022		10.09	16.40	0.00	109.17	
4/26/2022		10.05	16.31	0.00	109.21	0.1 ft sediment
8/10/2022		10.86	16.32	0.00	108.40	
11/21/2022		10.46	16.34	0.00	108.80	
MS-13-5	118.42					
6/3/2020		9.77	17.94	0.00	108.65	
10/12/2021		11.14	17.12	Trace	107.28	
11/2/2021		NM	NM	NM	NM	
12/17/2021		9.84	16.07	Trace	108.58	Soft bottom (0.5 ft sediment), trace
3/1/2022		9.03	16.06	0.40	109.39	
4/26/2022		9.08	16.10	0.50	109.34	0.20 Gallons NAPL removed
8/10/2022		9.95	16.08	0.30	108.47	0.3 ft of NAPL emulsion
11/21/2022		9.54	16.07	0.25	108.88	
MS-13-6	116.79					
6/3/2020		8.25	14.44	0.00	108.54	
10/12/2021		9.98	11.99	0.00	106.81	
11/2/2021		NM	NM	NM	NM	
12/18/2021		8.46	12.60	0.00	108.33	
3/1/2022		7.25	11.85	0.00	109.54	
4/26/2022		7.68	16.90	0.00	109.11	
8/10/2022		8.55	11.79	0.00	108.24	
11/21/2022		8.13	12.64	0.00	108.66	0.2 ft sediment
MS-13-7	118.84					
6/3/2020		12.13	18.21	0.00	106.71	
10/12/2021		12.24	17.75	0.00	106.60	
11/2/2021		NM	NM	NM	NM	
12/17/2021		12.15	17.11	0.00	106.69	
3/1/2022		9.47	17.69	0.00	109.37	
4/26/2022		12.08	17.87	0.00	106.76	
8/10/2022		12.11	17.67	0.00	106.73	
11/21/2022		12.09	17.74	0.00	106.75	

Table 1

Water Level and NAPL Gauging Summary

2022 Post-Construction Monitoring Report

Plattsburgh (Saranac Street) Former MGP Site, Operable Unit No. 1

Plattsburgh, New York



Well ID / Date	TIC Elevation (ft AMSL)	Depth to Water (ft bgs)	Depth to Bottom (ft bgs)	Approximate NAPL Thickness ³ (ft)	Groundwater Elevation (ft AMSL)	Comments/Observations
MS-13-8	116.64					
6/3/2020		11.10	17.70	0.00	105.54	
10/12/2021		11.05	17.94	0.00	105.59	
11/2/2021		NM	NM	NM	NM	
12/17/2021		10.97	16.79	0.00	105.67	
3/1/2022		8.23	16.79	0.00	108.41	
4/26/2022		10.87	16.95	0.00	105.77	
8/10/2022		10.95	16.78	0.00	105.69	
11/21/2022		10.90	16.79	0.00	105.74	
MS-13-9	114.64					
6/3/2020		9.16	18.84	0.00	105.48	
10/12/2021		9.21	18.52	0.00	105.43	
11/2/2021		NM	NM	NM	NM	
12/17/2021		9.02	17.87	0.00	105.62	
3/1/2022		6.25	17.85	0.00	108.39	
4/26/2022		8.95	17.62	0.00	105.69	
8/10/2022		9.02	17.88	0.00	105.62	
11/21/2022		8.97	17.87	0.00	105.67	
MS-13-10	114.35					
6/3/2020		9.07	19.15	0.00	105.28	
10/12/2021		9.76	18.47	0.00	104.59	
11/2/2021		NM	NM	NM	NM	
12/17/2021		8.92	17.98	0.00	105.43	
3/1/2022		6.08	18.04	0.00	108.27	Soft bottom (0.2 ft sediment)
4/26/2022		8.85	18.05	0.00	105.50	
8/10/2022		8.97	17.96	0.00	105.38	0.1 ft sediment
11/21/2022		8.85	17.98	0.00	105.50	
MS-13-11	114.35					
6/3/2020		8.10	19.02	0.00	106.25	
10/12/2021		7.93	18.74	0.00	106.42	
11/2/2021		NM	NM	NM	NM	
12/17/2021		7.95	18.53	0.00	106.40	
3/1/2022		4.09	18.53	0.00	110.26	
4/26/2022		7.86	18.45	0.00	106.49	
8/10/2022		7.90	18.52	0.00	106.45	
11/21/2022		7.89	18.52	0.00	106.46	
MS-13-12	113.57					
6/3/2020		8.19	18.55	0.00	105.38	
10/12/2021		8.74	18.42	0.00	104.83	
11/2/2021		NM	NM	NM	NM	
12/17/2021		8.08	18.45	0.00	105.49	0.1 ft sediment
3/1/2022		4.43	18.40	0.00	109.14	Soft bottom (0.5 ft sediment)
4/26/2022		7.98	18.16	0.00	105.59	
8/10/2022		8.00	18.43	0.00	105.57	
11/21/2022		8.01	18.44	0.00	105.56	
MS-13-13	115.14					
6/3/2020		8.88	18.80	0.00	106.26	
10/12/2021		8.37	19.07	0.00	106.77	
11/2/2021		NM	NM	NM	NM	
12/17/2021		8.75	18.43	Trace	106.39	0.35 ft sediment, trace
3/1/2022		5.18	NM	0.00	109.96	Ice
4/26/2022		8.65	18.45	0.00	106.49	
8/10/2022		8.72	18.43	0.00	106.42	
11/21/2022		8.66	18.44	0.00	106.48	
2013-SUMP-3	112.49					
6/3/2020		2.31	17.94	0.00	110.18	
10/12/2021		2.13	15.66	0.00	110.36	
11/2/2021		NM	NM	NM	NM	
12/17/2021		2.14	14.13	0.00	110.35	
3/1/2022		7.24	4.10	0.00	105.25	
4/26/2022		1.95	14.40	0.00	110.54	
8/10/2022		1.76	4.00	0.00	110.73	
11/21/2022		1.73	4.00	0.00	110.76	

Table 1

Water Level and NAPL Gauging Summary

2022 Post-Construction Monitoring Report

Plattsburgh (Saranac Street) Former MGP Site, Operable Unit No. 1

Plattsburgh, New York



Well ID / Date	TIC Elevation (ft AMSL)	Depth to Water (ft bgs)	Depth to Bottom (ft bgs)	Approximate NAPL Thickness³ (ft)	Groundwater Elevation (ft AMSL)	Comments/Observations
NWM-15-01 110.86						
6/3/2020		9.65	28.09	0.00	101.21	
10/12/2021		11.34	28.93	0.00	99.52	
11/2/2021		NM	NM	NM	NM	
12/17/2021		9.34	27.42	0.00	101.52	Stick-up casing damaged, loose
3/1/2022		5.50	27.42	0.00	105.36	
4/26/2022		8.40	27.45	0.00	102.46	
8/10/2022		9.98	26.71	0.00	100.88	
11/21/2022		10.28	27.48	0.00	100.58	
NWM-15-02 108.67						
6/3/2020		6.34	24.09	0.00	102.33	
10/12/2021		6.48	23.78	0.00	102.19	
11/2/2021		NM	NM	NM	NM	
12/18/2021		5.23	23.25	0.00	103.44	
3/1/2022		23.23	2.71	0.00	85.44	
4/26/2022		4.01	24.23	0.00	104.66	
8/10/2022		5.79	23.17	Trace	102.88	
11/21/2022		6.12	23.25	Trace	102.55	
MW21-101S 121.87						
6/3/2020		DNE	DNE	DNE	DNE	
10/12/2021		8.17	18.13	0.00	113.70	
11/2/2021		6.40	18.48	0.00	115.47	
12/17/2021		7.52	18.00	0.00	114.35	
3/1/2022		7.65	18.00	0.00	114.22	
4/26/2022		5.95	18.05	0.00	115.92	
8/10/2022		8.55	17.98	0.00	113.32	
11/21/2022		6.75	18.00	0.00	115.12	
MW21-101D 122.07						
6/3/2020		DNE	DNE	DNE	DNE	
10/12/2021		29.20	49.45	0.00	92.87	
11/2/2021		11.36	49.37	0.00	110.71	
12/17/2021		9.62	48.57	0.00	112.45	
3/1/2022		9.32	48.60	0.00	112.75	
4/26/2022		7.40	48.72	0.00	114.67	
8/10/2022		8.20	48.56	0.00	113.87	
11/21/2022		7.20	48.60	0.00	114.87	
MW21-102S 121.71						
6/3/2020		DNE	DNE	DNE	DNE	
10/12/2021		6.95	25.87	0.00	114.76	
11/2/2021		6.45	22.93	0.00	115.26	
12/17/2021		6.97	25.81	0.00	114.74	
3/1/2022		7.94	25.81	0.00	113.77	
4/26/2022		6.30	25.82	0.00	115.41	
8/10/2022		7.45	25.79	0.00	114.26	
11/21/2022		7.66	25.81	0.00	114.05	
MW21-103S 127.89						
6/3/2020		DNE	DNE	DNE	DNE	
10/12/2021		11.44	16.87	0.00	116.45	
11/2/2021		6.47	16.89	0.00	121.42	
12/17/2021		2.18	16.80	0.00	125.71	
3/1/2022		3.06	16.80	0.00	124.83	
4/26/2022		1.60	16.65	0.00	126.29	
8/10/2022		7.46	16.63	0.00	120.43	
11/21/2022		3.77	16.64	0.00	124.12	
MW21-103D 127.65						
6/3/2020		DNE	DNE	DNE	DNE	
10/12/2021		12.12	60.83	0.00	115.53	
11/2/2021		5.60	59.71	0.00	122.05	
12/17/2021		2.09	59.16	0.00	125.56	
3/1/2022		1.60	59.40	0.00	126.05	
4/26/2022		10.55	59.25	0.00	117.10	
8/10/2022		2.71	59.37	0.00	124.94	
11/21/2022		2.32	49.40	0.00	125.33	

Table 1

Water Level and NAPL Gauging Summary

2022 Post-Construction Monitoring Report

Plattsburgh (Saranac Street) Former MGP Site, Operable Unit No. 1

Plattsburgh, New York



Well ID / Date	TIC Elevation (ft AMSL)	Depth to Water (ft bgs)	Depth to Bottom (ft bgs)	Approximate NAPL Thickness ³ (ft)	Groundwater Elevation (ft AMSL)	Comments/Observations
MW21-104S	129.80					
6/3/2020		DNE	DNE	DNE	DNE	
10/12/2021		9.99	26.98	0.00	119.81	
11/2/2021		10.27	22.00	0.00	119.53	
12/17/2021		10.60	26.90	0.00	119.20	
3/1/2022		12.25	26.81	0.00	117.55	
4/26/2022		10.42	26.90	0.00	119.38	
8/10/2022		9.78	26.88	0.00	120.02	
11/21/2022		10.79	26.90	0.00	119.01	
MW21-104D	129.64					
6/3/2020		DNE	DNE	DNE	DNE	
10/12/2021		77.45	79.26	0.00	52.19	
11/2/2021		66.55	80.37	0.00	63.09	
12/17/2021		57.40	76.59	0.00	72.24	
3/1/2022		43.66	76.57	0.00	85.98	
4/26/2022		38.38	76.65	0.00	91.26	
8/10/2022		33.21	76.70	0.00	96.43	
11/21/2022		30.64	76.60	0.00	99.00	
MW21-105S	124.48					
6/3/2020		DNE	DNE	DNE	DNE	
10/12/2021		10.64	20.74	0.00	113.84	
11/2/2021		9.38	21.14	0.00	115.10	
12/17/2021		10.04	20.57	0.00	114.44	
3/1/2022		11.32	20.59	0.00	113.16	
4/26/2022		7.65	20.58	0.00	116.83	
8/10/2022		9.46	20.55	0.00	115.02	
11/21/2022		9.19	20.59	0.00	115.29	
MW21-106S	119.10					
6/3/2020		DNE	DNE	DNE	DNE	
10/12/2021		4.38	19.60	0.00	114.72	
11/2/2021		3.27	19.78	0.00	115.83	
12/17/2021		4.17	20.54	0.00	114.93	
3/1/2022		3.48	NM	0.00	115.62	Ice
4/26/2022		3.70	19.53	0.00	115.40	
8/10/2022		4.82	19.51	0.00	114.28	
11/21/2022		3.60	19.53	0.00	115.50	
MW21-107D	114.89					
6/3/2020		DNE	DNE	DNE	DNE	
10/12/2021		8.93	45.90	0.00	105.96	
11/2/2021		NM	NM	NM	NM	
12/17/2021		8.67	44.01	0.00	106.22	
3/1/2022		5.31	44.02	0.00	109.58	
4/26/2022		7.61	44.20	0.00	107.28	
8/10/2022		8.52	44.00	0.00	106.37	
11/21/2022		8.77	44.05	0.00	106.12	
MW21-108S	133.27					
6/3/2020		DNE	DNE	DNE	DNE	
10/12/2021		14.75	21.55	0.00	118.52	
11/2/2021		14.40	21.60	0.00	118.87	
12/17/2021		14.49	21.38	0.00	118.78	
3/1/2022		14.84	21.37	0.00	118.43	
4/26/2022		13.01	21.35	0.00	120.26	
8/10/2022		15.33	21.32	0.00	117.94	
11/21/2022		14.14	21.37	0.00	119.13	
MW-99-12D	116.54					
6/3/2020		6.22	59.41	0.00	110.32	
10/12/2021		0.41	59.59	0.00	116.13	
11/2/2021		NM	NM	NM	NM	
12/18/2021		0.15	58.89	0.00	116.39	
3/1/2022		0.14	NM	0.00	116.40	Ice
4/26/2022		0.50	58.80	0.00	116.04	
8/10/2022		0.19	58.58	0.00	116.35	
11/21/2022		0.20	58.89	0.00	116.34	

Table 1

Water Level and NAPL Gauging Summary

2022 Post-Construction Monitoring Report

Plattsburgh (Saranac Street) Former MGP Site, Operable Unit No. 1

Plattsburgh, New York



Well ID / Date	TIC Elevation (ft AMSL)	Depth to Water (ft bgs)	Depth to Bottom (ft bgs)	Approximate NAPL Thickness ³ (ft)	Groundwater Elevation (ft AMSL)	Comments/Observations
MW-99-12S 116.31						
6/3/2020		12.89	30.16	0.00	103.42	
10/12/2021		13.92	30.69	Trace	102.39	Debris (i.e., bailer) at 20-25 ft bgs
11/2/2021		NM	NM	NM	NM	Debris (i.e., bailer) at 20-25 ft bgs
12/17/2021		NM	NM	NM	NM	Debris (i.e., bailer) at 20-25 ft bgs
3/1/2022		NM	NM	NM	NM	Debris (i.e., bailer) at 20-25 ft bgs
4/26/2022		NM	NM	NM	NM	Debris (i.e., bailer) at 20-25 ft bgs
8/10/2022		11.60	30.50	0.20	104.71	
11/21/2022		12.58	30.01	0.07	103.73	
MW-00-22D 118.22						
6/3/2020		NM	NM	0.00	NM	
10/12/2021		15.31	83.41	0.00	102.91	
11/2/2021		NM	NM	NM	NM	
12/18/2021		15.03	93.38	0.00	103.19	
3/1/2022		13.69	92.78	0.00	104.53	
4/26/2022		14.02	93.93	0.00	104.20	
8/10/2022		15.02	93.34	0.00	103.20	
11/21/2022		14.96	93.37	0.00	103.26	
MW-00-24D 135.04						
6/3/2020		19.25	24.67	0.00	115.79	
10/12/2021		23.86	83.43	0.00	111.18	
11/2/2021		NM	NM	NM	NM	
12/18/2021		24.05	84.20	0.00	110.99	
3/1/2022		22.32	84.70	0.00	112.72	
4/26/2022		20.65	82.30	0.00	114.39	Very soft bottom (~3 ft of sediment)
8/10/2022		21.14	82.40	0.00	113.90	
11/21/2022		23.51	84.19	0.00	111.53	

Acronyms and Abbreviations:

AMSL = above mean sea level

bgs = below ground surface

DNE = well did not exist on date of measurement

ft = feet

NAPL = Non-Aqueous Phase Liquid

NA = Not Available. The top-of-casing elevation for the Phase 7 Sump is anomalous and will be resurveyed.

NM = not measured

TIC = top of inner casing

Notes:

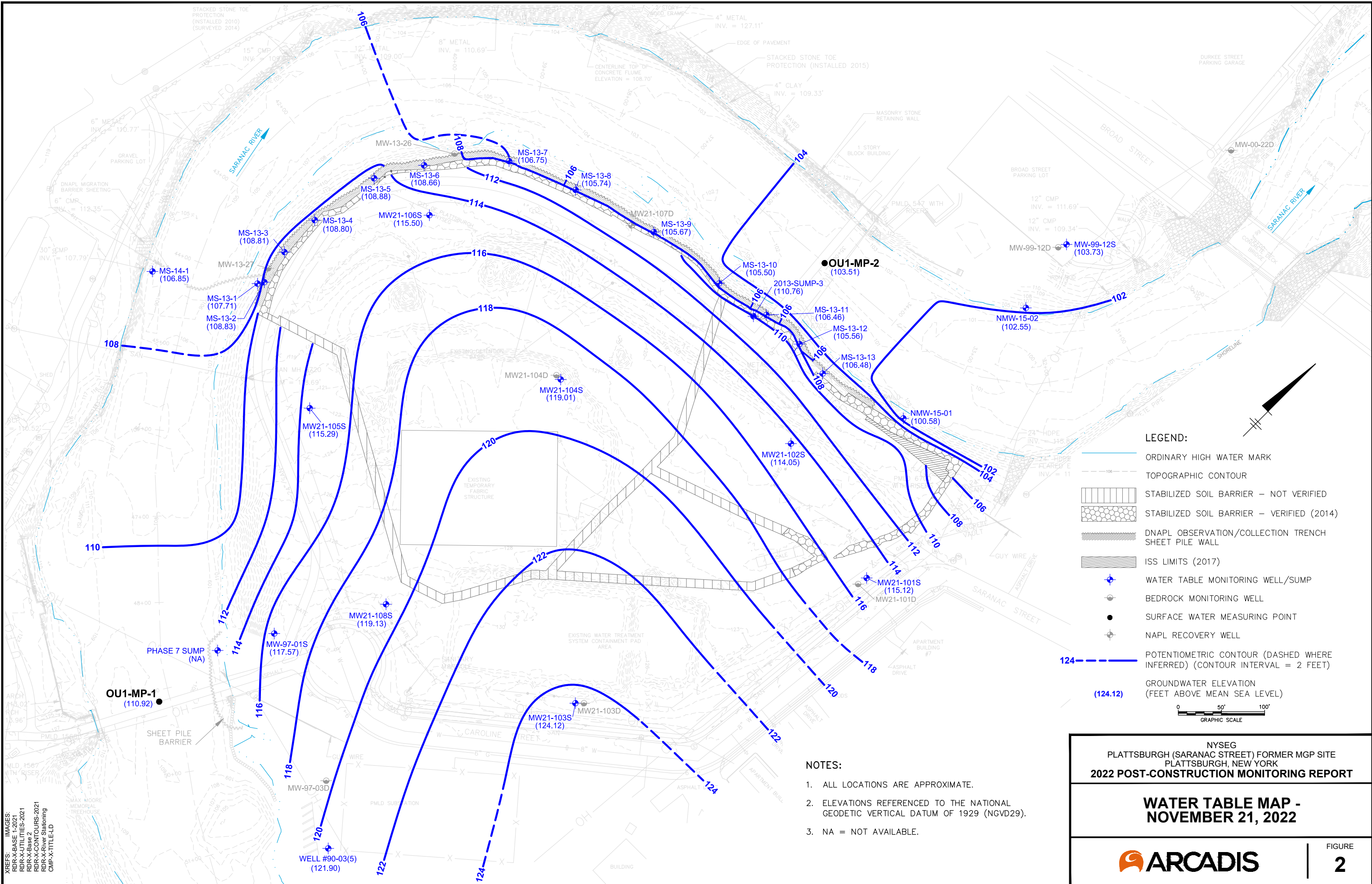
1. NAPL gauging and water level data collected by Arcadis on the dates indicated.
2. Elevations are shown in feet above mean sea level (AMSL) relative to the National Geodetic Vertical Datum of 1929 (NGVD29).
3. "Trace" indicates that NAPL blebs were observed on interface probe/tape.

Figures



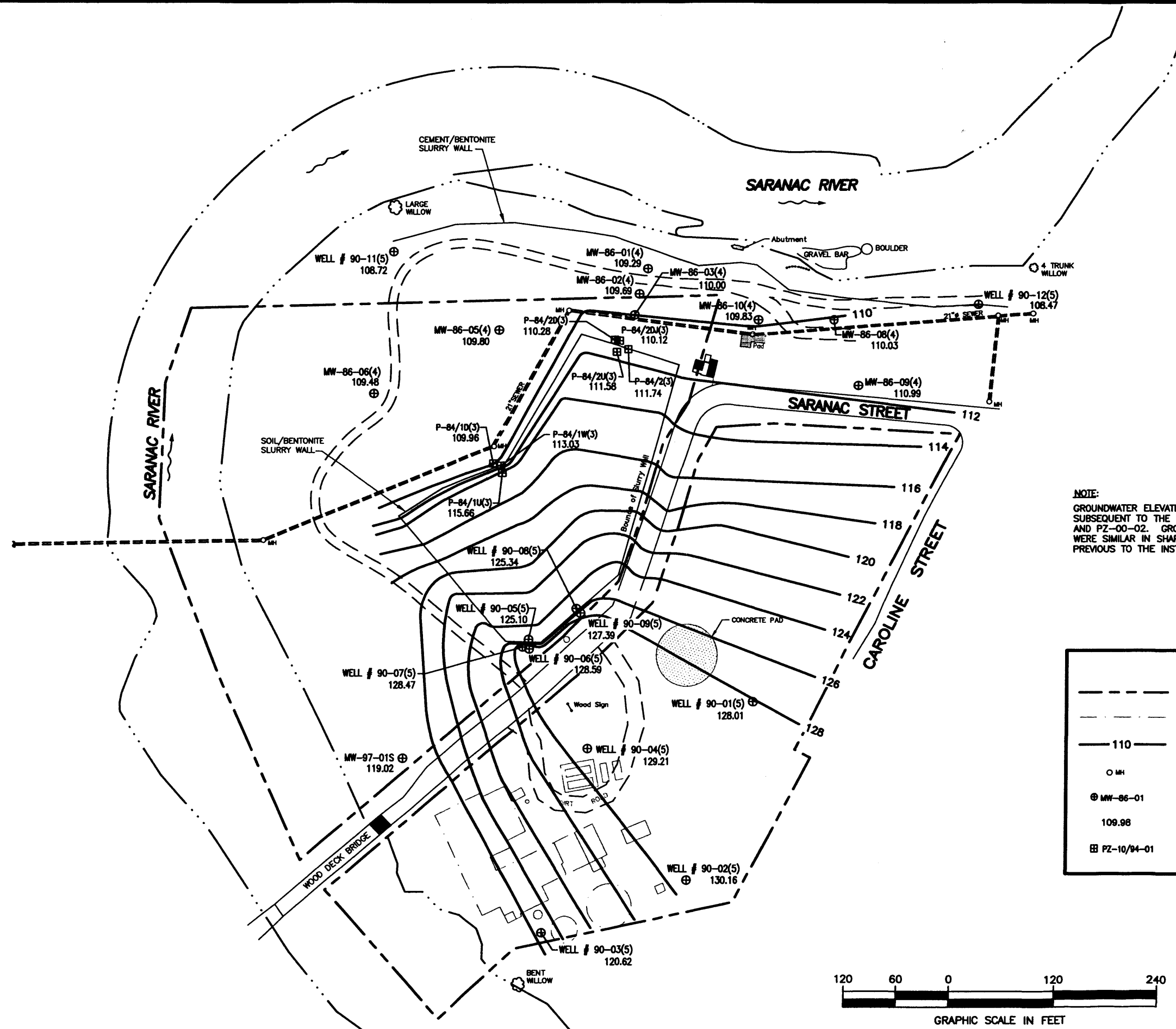
C:\Users\ms0286\Arcadis\AUS\NYSEG-SARANAC ST FMR MGP SITE-PLATTSBURGH New York\Project Files\2023\01-In Progress\01-DWG\CMP-F02-GWE-WATER TBL.dwg BY: M. SARAVANAPRIYA SAVED: 1/30/2023 2:47 PM

XREFS:
RDR-X-BASE 1-2021
RDR-X-UTILITIES-2021
RDR-X-BASE 2
RDR-X-CONTOURS-2021
RDR-X-River Stationing
CMP-X-TITLE.D



Attachment 1

RI Figures



NOTE:
 GROUNDWATER ELEVATIONS WERE MEASURED ON NOVEMBER 13, 2000
 SUBSEQUENT TO THE INSTALLATION OF MW-99-14S, MW-00-15S, PZ-00-01
 AND PZ-00-02. GROUNDWATER CONTOURS FOR THIS ROUND OF MEASUREMENTS
 WERE SIMILAR IN SHAPE TO ALL RI GROUNDWATER CONTOURS DEVELOPED
 PREVIOUS TO THE INSTALLATION OF THESE FOUR WELLS.

LEGEND

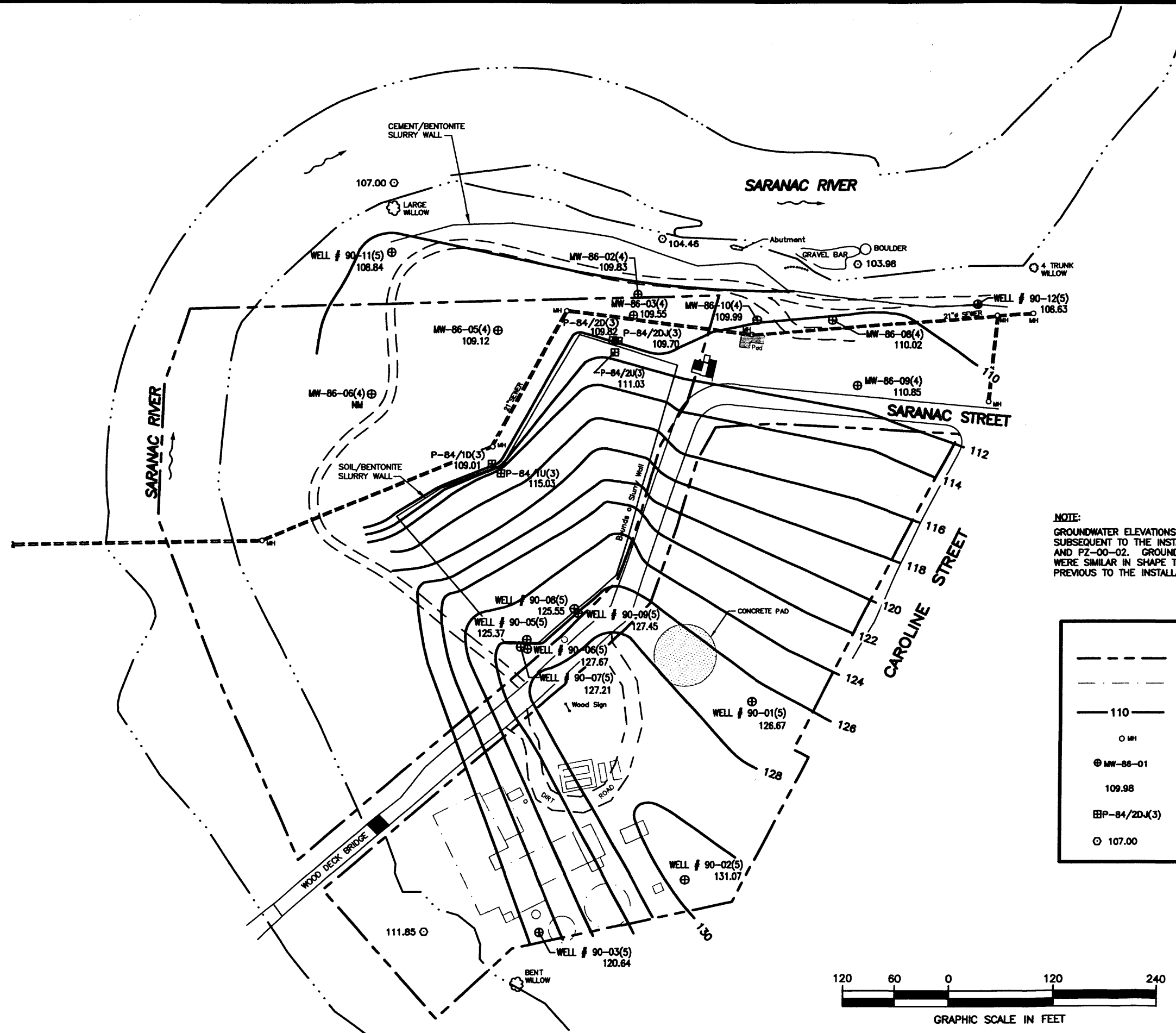
- PROPERTY LINE
- - - HISTORIC STRUCTURE
- 110 OVERBURDEN GROUNDWATER CONTOUR
(FEET ABOVE MEAN SEA LEVEL)
- MH MANHOLE
- ⊕ MW-86-01 MONITORING WELL USED FOR WATER LEVEL MEASUREMENT
- 109.98 GROUNDWATER ELEVATION (MSL)
- ⊞ PZ-10/04-01 PIEZOMETER USED FOR WATER LEVEL MEASUREMENT



GEI Consultants, Inc.

FIGURE 9
OVERBURDEN GROUNDWATER CONTOURS
DECEMBER 15, 1997

SARANAC STREET SITE
 PLATTSBURGH, NEW YORK



NOTE:
GROUNDWATER ELEVATIONS WERE MEASURED ON NOVEMBER 13, 2000
SUBSEQUENT TO THE INSTALLATION OF MW-99-14S, MW-00-15S, PZ-00-01
AND PZ-00-02. GROUNDWATER CONTOURS FOR THIS ROUND OF MEASUREMENTS
WERE SIMILAR IN SHAPE TO ALL RI GROUNDWATER CONTOURS DEVELOPED
PREVIOUS TO THE INSTALLATION OF THESE FOUR WELLS.

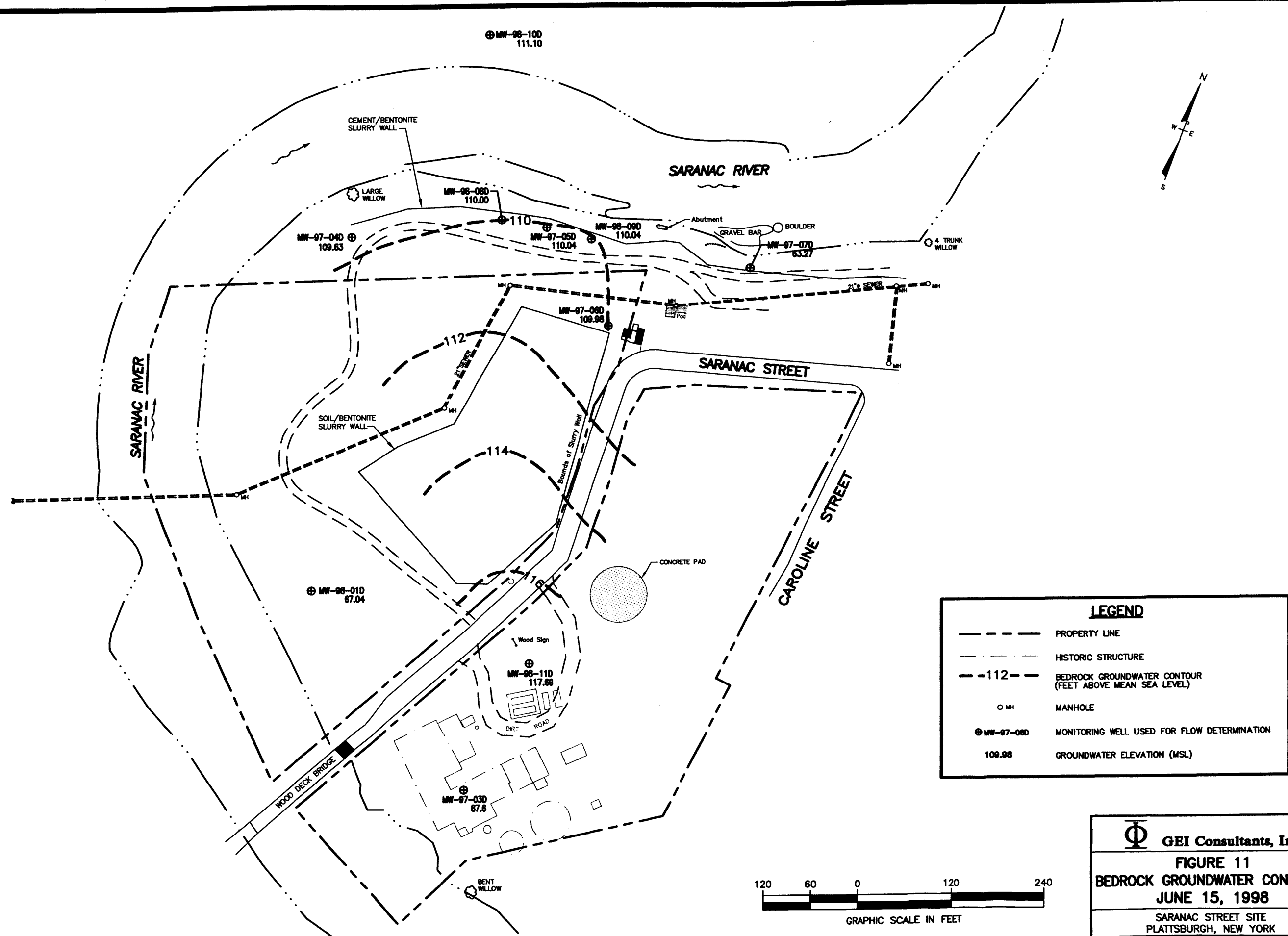
LEGEND	
---	PROPERTY LINE
---	HISTORIC STRUCTURE
110	OVERBURDEN GROUNDWATER CONTOUR (FEET ABOVE MEAN SEA LEVEL)
○ MH	MANHOLE
⊕ MW-86-01	MONITORING WELL USED FOR WATER LEVEL MEASUREMENT
109.98	GROUNDWATER ELEVATION (MSL)
BBP-84/2D(3)	PIEZOMETER USED FOR WATER LEVEL MEASUREMENT
○ 107.00	RIVER ELEVATION



GEI Consultants, Inc.

FIGURE 10
OVERBURDEN GROUNDWATER CONTOURS
JUNE 15, 1998

SARANAC STREET SITE
PLATTSBURGH, NEW YORK



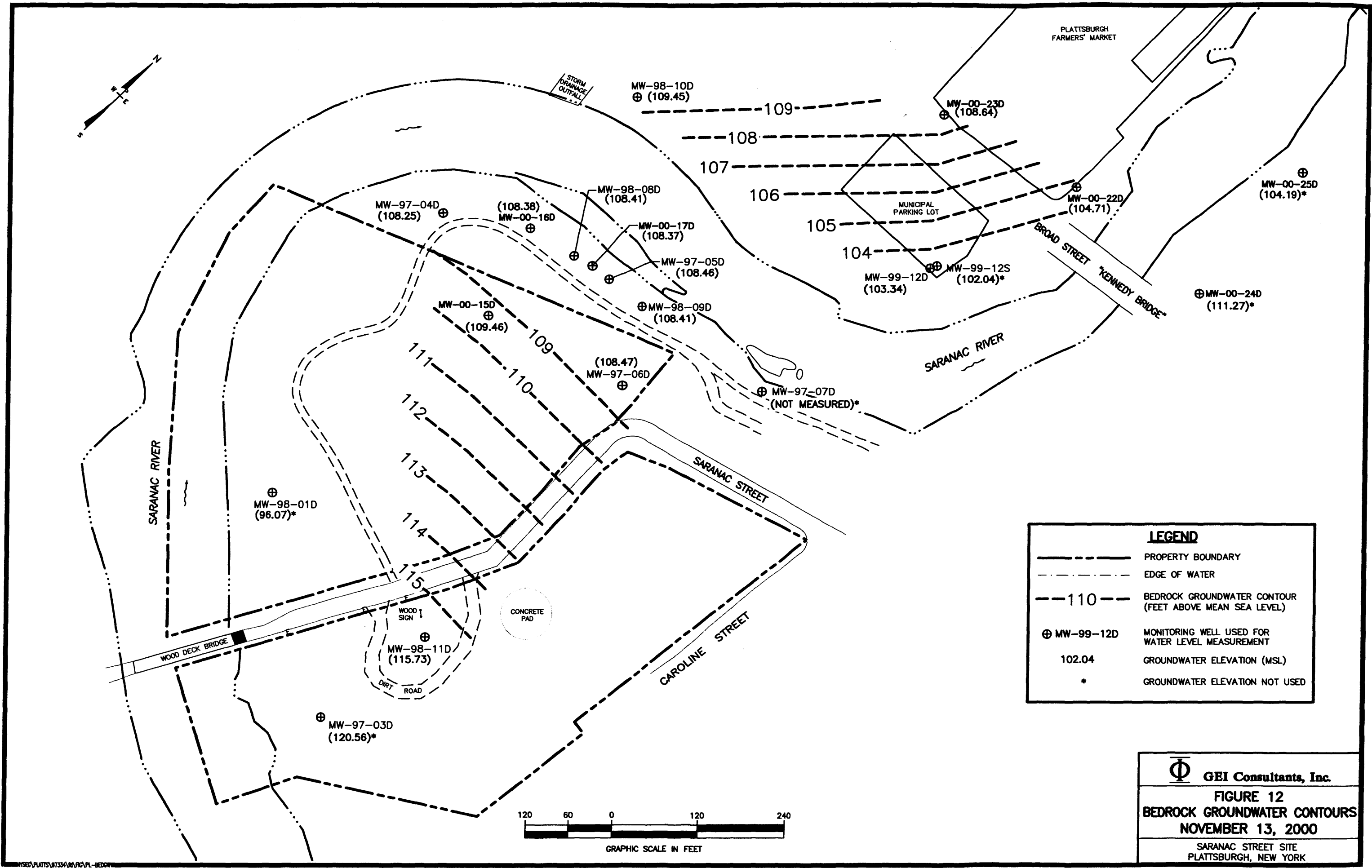
GEI Consultants, Inc.

FIGURE 11

BEDROCK GROUNDWATER CONTOURS

JUNE 15, 1998

SARANAC STREET SITE
PLATTSBURGH, NEW YORK



GEI Consultants, Inc.

FIGURE 12

BEDROCK GROUNDWATER CONTOURS

NOVEMBER 13, 2000

SARANAC STREET SITE
PLATTSBURGH, NEW YORK

Attachment 2

Site Inspection Form

Plattsburgh (Saranac Street) Former MGP Site
Plattsburgh, Clinton County, New York
Site-Wide Inspection Form

Date: 11/21/2022

Personnel: Joshua Miller / David Cornell

Time of Arrival: 0930

Time of Departure: 1330

Weather Conditions: 22°F, Sunny w Light Wind

Temperature: 22°F

Wind Speed: 5-10 mph

Wind Direction (from): S to SSE

Inspection Checklist	Yes	No	Comments
Cover System			
Intrusive Activities Being Performed?			
- Trenching?		/	
- Excavation?		/	
- Tunneling?		/	
- Saw cutting?		/	
Signs of Previous Intrusive Activities Performed?			
- New drainage feature?		/	
- Evidence of a new underground utility?		/	
- New grass/vegetation/asphalt?	/		Crew grading & installing erosion control matting
- Other (e.g., cracking, potholes, depressions)		/	
Monitoring Well Condition			
Groundwater monitoring needs to be performed this year?		/	
Covers secure?	/		
Casing in need of repair?		/	
Concrete surface seal intact?	/		
Settling in area around well?		/	
Well obstructed?		/	
Ponded water above well?	/		MW21-1035, removed water prior to opening
Well screen silted in?		/	
Well in need of redevelopment?		/	

General Comments/Suggested Action Items:

Ice formed w/in Phase 7 Sump, removed ice w/ 1/2" Steel pipe in order to gauge.