Quarterly Groundwater, Surface Water and Sediment Sampling Report, Q3 2023 (August-September) Saranac Lake Gas Co. (516008) Saranac Lake, New York

Prepared for

New York State Department of Environmental Conservation
625 Broadway
Albany, New York 12233

NEW YORK STATE | Department of Environmental Conservation

Prepared by

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July 2024
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Date

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LIST OF ACRONYMNS AND ABBREVIATIONS

µg/L	Microgram(s) per liter
%	Percent
COC	Contaminant of concern
DO	Dissolved oxygen
EA	Engineering, P.C. and its affiliate EA Science and Technology
EPA	U.S. Environmental Protection Agency
ft	Foot (feet)
mg/L	Milligram(s) per liter
MGP	Manufactured gas plant
MS	Matrix spike
MSD	Matrix spike duplicate
NTU	Nephelometric turbidity unit
NYCRR	New York Code of Rules and Regulations
NYSDEC	New York State Department of Environmental Conservation
ORP	Oxidation-reduction potential
OU	Operable unit
PAH	Polycyclic aromatic hydrocarbon
P.G.	Professional Geologist
pH	Potential hydrogen
QA	Quality assurance
QC	Quality control
RI	Remedial investigation
ROD	Record of Decision
Site	Saranac Lake Gas Co.
SMP	Site Management Plan

1. INTRODUCTION

The New York State Department of Environmental Conservation (NYSDEC) tasked EA Engineering, P.C. and its affiliate EA Science and Technology (EA) to perform site management activities at the Saranac Lake Gas Co. Site (NYSDEC Site Number 516008), which includes evaluation and performance of long-term monitoring of groundwater, surface water, and sediment. The Site is in a suburban area of Essex County in Saranac Lake, New York (**Figure 1**).

From the late 1800s to approximately the 1940s, the former manufactured gas plant (MGP) Saranac Lake Gas Co. manufactured lighting gas (coal gasification) for the village of Saranac Lake. During this time, MGP-waste was released into the environment at operable unit (OU) 01, with direct surface discharge of waste to Brandy Brook (OU02) and downstream migration to Pontiac Bay of Lake Flower (OU03). Non-aqueous phase liquids and residual products are present within OU01 and impacting groundwater migrating from the Site. NYSDEC initiated a remedial investigation (RI)/Feasibility Study to determine the extent of the contamination present in the environment related to the historical activities at the former MGP. RI field investigations were completed at the Site between August 2013 and October 2014. The RI included an evaluation of visual impacts to groundwater, sediment, soil, and surface water, and concluded that groundwater, sediment, surface water, and soil on-site were impacted with MGP waste (MACTEC Engineering and Consulting, P.C. [MACTEC] 2015a). Following the issuance of the RI report, Feasibility Studies were developed in 2016 for OU01 (MACTEC 2016), 2015 for OU02 (MACTEC 2015b), and 2015 for OU03 (MACTEC 2015c). Selected remedies are presented in the 2017 Record of Decision (ROD) for OU01 (NYSDEC 2017), 2016 ROD for OU02 (NYSDEC 2016), and 2015 ROD and 2018 Explanation of Significant Difference for OU03 (NYSDEC 2016 and NYSDEC 2018). Remedial activities were conducted between April and December 2018 at OUs 02 and 03 followed by site restoration activities between May and June 2019 (MACTEC 2020), and between April 2021 and June 2022 at OU01 (MACTEC 2023a). Post-OU1 remediation media monitoring and sampling is being conducted at the Site as required by the NYSDEC in accordance with the Site Management Plan (SMP) (MACTEC 2023b).

1.1 OBJECTIVES

Post-OU01 remediation media monitoring and sampling is being conducted at the Site as required by the NYSDEC in accordance with the SMP (MACTEC 2023b). The SMP calls for quarterly monitoring and sampling of groundwater, surface water, and sediment for polycyclic aromatic hydrocarbons (PAHs)/semivolatile organic compounds during the first 2 years following completion of remediation of OU01, biannually during the third year, and annually in all subsequent years. The objective of the monitoring and sampling program is to evaluate the effectiveness of the remedy within OU02 and OU03. The sampling program was initiated in the second quarter (Q2) of 2022 (July) following completion of the OU01 remediation conducted from 12 April 2021 to 2 June 2022.

This report presents the results of the quarterly sampling event conducted in the third quarter (Q3) of 2023 (August-September 2023). The August-September 2023 event is the fourth post-OU01 remediation media monitoring and sampling event.

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2. MONITORING ACTIVITIES

The August-September 2023 media monitoring and sampling event was conducted from 8 to 9 August 2023 (gauging and sampling of groundwater monitoring wells) and 6 September 2023 (collection of surface water and sediment samples; postponed to September 2023 due to high water turbidity in Brandy Brook following a rain event). Sampling locations are presented on **Figure 2a** (OU01) and **Figure 2b** (OU02 and OU03). A summary of samples collected during the August-September 2023 event is provided in **Table 1**. Daily field reports are included in **Appendix A.**

2.1 GROUNDWATER GAUGING

Groundwater levels and well depths were recorded at 10 wells and piezometers (MW-104, MW-106R, MW-108R, MW-110R, MW-204S, MW-204D, MW-205S, MW-205D, PZ-PV1, and PZ-PV2) on 8 August 2023, prior to the initiation of groundwater sampling to determine groundwater flow patterns in the overburden. PZ-301 was not gauged or sampled pending a signed access agreement. Piezometers PZ-PV1 and PZ-PV2 are not included in the sampling program but are gauged in accordance with the SMP. Groundwater levels and well depths were measured with an electronic water level and recorded to the nearest hundredth of a foot (ft) from a designated measuring point on top of the inner polyvinyl chloride the well casing (top of riser). Groundwater elevations and well depths are provided in **Table 2**, and monitoring well gauging logs are provided in **Appendix B**. Groundwater flows southwest at the site, and groundwater elevation contours are provided in **Figure 3**.

2.2 GROUNDWATER SAMPLING

Groundwater samples were collected from eight monitoring wells (MW-104, MW-106R, MW-108R, MW-110R, MW-204S, MW-204D, MW-205S, and MW-205D) using low-flow sampling techniques. Wells were purged using a peristaltic pump, with a flow rate of approximately 0.25 liters per minute. Dedicated high density polyethylene tubing was used at each monitoring well location. Drawdown was monitored at wells MW-104, MW-106R, MW-108R, MW-110R, MW-204S, and MW-204D throughout purging using an electronic water level indicator.

Water quality parameters, including temperature, pH, conductivity, dissolved oxygen, oxidation reduction potential, and turbidity, were monitored at 3-minute intervals throughout purging using a Horiba-U-52 water quality meter equipped with a flow-through cell. Sampling instruments were calibrated daily prior to starting sampling activities, and calibration checks were conducted as needed throughout each day of sampling. A log of the field equipment calibration records is provided in **Appendix B**. Water levels and water quality parameters were recorded on groundwater sampling purge forms provided in **Appendix B**. MW-106R was redeveloped using a peristaltic pump on 8 August 2023 due to high turbidity and a notable amount of sediment being observed during purging at the second quarter sampling event in May 2023. The development log is provided in **Appendix B**.

- Purge rate (milliliters per minute)
- Depth to water (0.01 ft)

- Temperature (degrees Celsius)
- pH
- Specific conductance (Siemens per centimeter)
- Dissolved oxygen (DO) (milligrams per liter [mg/L])
- Oxidation-reduction potential (ORP) (millivolts)
- Turbidity (nephelometric turbidity units [NTU])

Purging was considered complete when the indicator parameters had stabilized over three consecutive readings, indicating that formation water was being drawn. Stabilization requirements were as follows:

- Drawdown: less than 0.3 ft drawdown during purging (MW-104 only)
- pH: ± 0.1 standard unit
- Specific Conductivity: ± 3 percent (%)
- DO: ± 10% (mg/L) for values greater than 0.5 mg/L or 3 readings less than 0.5 mg/L
- ORP: ± 10 millivolts
- Turbidity: Less than 5 NTU or ± 10% for readings greater than 5 NTU

MW-110R exhibited high turbidity and was sampled after purging for two hours. Depths to water at MW-205S and MW-205D were not continuously measured throughout purging due to small PVC diameter not accommodating for tubing and water level meter simultaneously.

Following stabilization of groundwater field parameters, the flow-through cell was disconnected from the dedicated sample tubing. Groundwater samples were collected directly from the tubing into laboratory supplied sample containers for off-site laboratory analysis of PAHs by U.S. Environmental Protection Agency (EPA) Method 8270E. Quality assurance (QA)/quality control (QC) samples collected for groundwater samples included one matrix spike (MS)/matrix spike duplicate (MSD) and one field duplicate. Sample IDs, sample dates/times, and QA/QC sample locations are presented in **Table 1**. Sample handling is presented in Section 2.5.

Non-dedicated sampling equipment (i.e., the water-level indicator) was decontaminated between sampling locations with Alconox® detergent and deionized water to prevent cross-contamination. Purge water and decontamination water was disposed of through a 5-gallon carbon filtration bucket to ground surface.

2.3 SURFACE WATER SAMPLING

Surface water samples were collected from three locations in Brandy Brook (OU2) (SW-400, SW-401, SW-402) and one location in Pontiac Bay (OU3) (SW-403). The location of SW-402/SD-402 was adjusted to approximately 40 ft upstream due to a lack of sediment at the original location. Surface water sampling was conducted in order from downstream to upstream to avoid the incidental inclusion of disturbed sediment in the samples. Water quality parameters including temperature, pH, ORP, conductivity, DO, and turbidity were measured at each location using a calibrated Horiba U-52 water quality meter. A log of the field equipment calibration

records is provided in **Appendix B**. Water quality parameters were recorded on surface water sampling logs provided in **Appendix B**.

Surface water at each location was collected using dedicated 6-inch long by 1.6-inch diameter bailers without disturbing bottom sediment and transferred into laboratory-provided sample containers for off-site laboratory analysis of PAHs via EPA Method 8270E. QA/QC samples collected for surface water included one MS/MSD and one field duplicate. Sample IDs, sample dates/times, and QA/QC sample locations are presented in **Table 1.** Sample handling is presented in Section 2.5.

2.4 SEDIMENT SAMPLING

Sediment samples were collected from three locations in Brandy Brook (OU2) (SD-400, SD-401, and SD-402). The location of SW-402/SD-402 was adjusted to approximately 40 ft upstream due to a lack of sediment at the original location. Sediment at each location was collected from 0 to 0.5 ft below ground surface using clean metal scoops and composited in dedicated pans. Standing water that had accumulated in sediment samples was decanted/removed prior to filling laboratory-provided sample containers. Sediment sample logs are provided in **Appendix B.**

Each sediment sample was collected for off-site laboratory analysis of PAHs via EPA Method 8270E. QA/QC samples collected for sediment included one MS/MSD and one field duplicate. Sample IDs, sample dates/times, and QA/QC sample locations are presented in **Table 1.** Sample handling is presented in Section 2.5.

2.5 SAMPLE HANDLING

Samples were collected using clean nitrile gloves and placed in laboratory supplied containers containing appropriate preservatives. Samples were placed on ice in sample coolers immediately after collection to ensure proper preservation. Pertinent sample information was recorded on the associated chain-of-custody, and samples were shipped overnight via Federal Express shipping to SGS North America Inc. laboratory in Dayton, New Jersey under secure chain-of-custody protocol.

2.6 INVESTIGATION-DERIVED WASTE

Purge water and decontamination fluids generated during groundwater sampling activities was disposed of through a 5-gallon bucket containing granulated activated carbon (GAC) designed to filter water at the well head. Non-contaminated trash and debris (wastepaper, food and beverage containers, and expendables) was placed in a trash dumpster and disposed of by a local garbage hauler. Expendable materials used during the investigation (i.e., used tubing, nitrile gloves, etc.) were double-bagged and properly disposed of as general debris/trash.

2.7 LABORATORY ANALYSIS

Off-site laboratory analytical services for groundwater, surface water, and sediment were provided by SGS North America Inc. laboratory in Dayton, New Jersey. Laboratory analytical reports are provided in **Appendix C**.

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3. POLYCYCLIC AROMATIC HYDROCARBON ANALYTICAL RESULTS

COCs in aqueous and sediment media for the site are PAHs. Concentrations of the COCs for the Site serve as a metric to evaluate contaminant plume migration following remedial action.

3.1 GROUNDWATER PAH RESULTS

Groundwater analytical results were compared to the NYSDEC Class GA groundwater standards and guidance values (6 New York Code of Rules and Regulations [NYCRR] Part 703.5 Water Quality Regulations, as presented in the Division of Water Technical and Operational Guidance Series 1.1.1, 1998, as amended).

PAH concentrations for wells sampled in August 2023 are summarized in **Table 3** and presented on **Figure 4**. Acenaphthene, benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, indeno(1,2,3-cd)pyrene, and naphthalene were detected at concentrations in exceedance of their respective NYSDEC Class GA guidance values at the following wells:

- Acenaphthene: MW-104, MW-106R, and MW-205D
- Benzo(a)anthracene: MW-106R and MW-110R
- Benzo(b)fluoranthene: MW-110R
- Benzo(k)fluoranthene: MW-110R
- Chrysene: MW-106R and MW-110R
- Indeno(1,2,3-cd)pyrene: MW-110R
- Naphthalene: MW-104, MW-106R, MW-110R, MW-204S, MW-204D, and MW-205D

Maximum concentrations for each analyte were as follows:

- Acenaphthene: 71.4 µg/L, detected at MW-104
- Benzo(a)anthracene: 2.2 µg/L, detected at MW-110R
- Benzo(b)fluoranthene: 1.4 µg/L, detected at MW-110R
- Benzo(k)fluoranthene: estimated 0.69 µg/L, detected at MW-110R
- Chrysene: 2.2 µg/L, detected at MW-110R
- Indeno(1,2,3-cd)pyrene: estimated 0.77 µg/L, detected at MW-110R
- Naphthalene: 1,950 µg/L, detected at MW-205D

3.2 SURFACE WATER PAH RESULTS

Surface water analytical results were compared to the NYSDEC Class GA standards and guidance values (6 NYCRR Part 703.5 Water Quality Regulations, as presented in the Division of Water Technical and Operational Guidance Series 1.1.1, 1998, as amended). PAHs were not detected in

surface water samples collected during the September 2023 sampling event, and therefore there were no exceedances of surface water standards and guidance values. Since EPA Method 8270 was used for analysis instead of EPA Method 8270SIM, detection limits may not have been low enough to detect smaller amounts of PAHs in the surface water samples. Analytical results are summarized in **Table 4** and laboratory reports are presented in **Appendix C.**

3.3 SEDIMENT PAH RESULTS

Sediment analytical results were compared to the NYSDEC Class A Sediment Guidance Values for PAHs (Sum of PAHs concentration less than 4 milligrams per kilogram). There were no exceedances of Class A Sediment Guidance Values detected among the individual analytes; however, the Sum of PAHs guidance value was exceeded with the SD-402 sample at a concentration of 6.0201 milligrams per kilogram. Analytical results are summarized in **Table 5** and presented on **Figure 5**, and laboratory reports are presented in **Appendix C.**

4. CONCLUSIONS AND FUTURE INVESTIGATION

In accordance with the SMP, post-OU01 remediation media monitoring and sampling will continue so that COC concentration trends can be monitored and evaluated over time. The analytical results from this sampling event will serve as a baseline for future sampling events. Upon completion of the appropriate number of sampling events, Mann-Kendall Statistical analysis will be performed to determine if statistical trends exist between results from their respective sampling events. The results of these statistical analyses be used to determine if future RI and remedial action are warranted.

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Tables

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Table 1. Summary of Samples Collected (August-September 2023)

Location ID	Sample ID	Sample Date	Sample Time	MS/ MSD	Analysis
Groundwater Samples					
MW-104	516008-MW-104	08/09/2023	0906	N	EPA method 8270
MW-106R	516008-MW-106R	08/09/2023	0952	N	EPA method 8270
MW-108R	516008-MW-108R	08/09/2023	0847	N	EPA method 8270
MW-110R	516008-MW-110R	08/08/2023	1634	N	EPA method 8270
MW-204S	516008-MW-204S	08/08/2023	1206	Y	EPA method 8270
MW-204D	516008-MW-204D	08/08/2023	1358	N	EPA method 8270
MW-205S	516008-MW-205S	08/08/2023	1142	N	EPA method 8270
MW-205D	516008-MW-205D	08/08/2023	1241	N	EPA method 8270
Surface Water Samples					
SW-400	516008-SW-400	09/06/2023	0952	N	EPA method 8270
SW-401	516008-SW-401	09/06/2023	1032	Y	EPA method 8270
SW-402	516008-SW-402	09/06/2023	1140	N	EPA method 8270
SW-403	516008-SW-403	09/06/2023	1220	N	EPA method 8270
Sediment Samples					
SD-400	516008-SD-400	09/06/2023	1002	Y	EPA method 8270
SD-401	516008-SD-401	09/06/2023	1045	N	EPA method 8270
SD-402	516008-SD-402	09/06/2023	1150	N	EPA method 8270
QC Samples					
Associated Parent Sample	**Sample ID**	**Sample Date**	**Sample Time**	**QC Type**	
516008-MW-205S	516008-FD-01-GW	08/08/2023	-	FD	
516008-SW-400	516008-FD-01-SW	09/06/2023	-	FD	
516008-SD-401	516008-FD-01-SD	09/06/2023	-	FD	

Notes:
EPA = U.S. Environmental Protection Agency
FD = Field Duplicate
ID = Identification
MS = Matrix spike
MSD = Matrix spike duplicate
MW = Monitoring well
QC = Quality control
SD = Sediment
SW = Surface water

Table 2. Monitoring Well Construction Details and Groundwater Elevations (August 2023)

Location ID	Northing	Easting	Top of Casing Elevation (ft amsl)	Riser Elevation (ft amsl)	Ground Surface Elevation (ft amsl)	TOC (ft ags)	TOC - TOR (ft)	Bottom of Well (ft BTOR)	Screening Interval (ft bgs)	DTW (ft bgs) (August 2023)	GW Elevation (ft) (August 2023)
MW-104	1999833.87	592054.19	1545.27	1544.85	1542.3	3.0	0.42	19.4	6.4 - 16.4	5.74	1539.11
MW-106R	1999720.17	592160.58	1544.09	1541.39	1543.9	2.7	2.7	14.5	4.3 - 14.3	5.16	1536.23
MW-108R	1999558.44	592455.82	1547.42	1544.52	1547.2	2.9	2.9	19.2	9.0 - 19.0	13.67	1530.85
MW-110R	1999536.11	592196.40	1547.33	1543.73	1546.1	3.6	3.6	20.1	9.9 - 19.9	12.44	1531.29
MW-204S	1999285.76	592255.49	1546.53	1546.29	1543.5	3.0	0.24	28.3	10.3 - 25.3	13.10	1533.19
MW-204D	1999286.15	592260.28	1546.95	1546.95	1547	3.0	0	29.7	19.5 - 29.5	13.51	1533.44
MW-205S	1999119.02	592297.69	1545.44	1545.24	1542.5	2.9	0.2	19.6	9.6 - 19.6	11.98	1533.26
MW-205D	1999124.3	592295.88	1545.52	1545.37	1542.4	3.1	0.15	33.5	20.4 - 30.4	11.96	1533.41
PZ-301	1999930.6	591913.4	1544.3	1544.3	1540	4.3	0	12.0	2.0 - 12.0	NM	--
PZ-PV1	1999452.523	592713.030	1546.9	1546.6	1547	3.1	0.3	15.1	4.8 - 14.8	9.05	1537.55
PZ-PV2	1999775.970	592560.119	1548.1	1547.8	1545	0	0.3	15.1	4.9 - 14.9	5.43	1542.37

Notes:
amsl = Above mean sea level
bgs = Below ground surface
DTW = Depth to water
ft = Foot (feet)
MW = Monitoring Well
NM = Not measured
TOC = Top of casing
TOR = Top of riser

Table 3. Summary of Groundwater COC Concentrations and Exceedances (August 2023 and Historical)

		Location ID	MW-104	MW-104	MW-104	MW-104	MW-104	MW-104	MW-104	MW-104	MW-106R	MW-106R
		Sample Name	MW-104	MW-104	MW-104	MW-104	MW-104	MW-104	516008-MW-104	516008-MW-104	MW-106R	MW-106RD
		Parent Sample ID										MW-106R
		Sample Date	7/21/2020	11/19/2020	2/24/2021	6/8/2021	10/20/2021	7/26/2022	5/30/2023	8/9/2023	7/26/2022	7/26/2022
Analyte	**NYSDEC AWQS[1]**	**Unit**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
SVOCs (SW8270)												
1,4-Dioxane (P-Dioxane)	0.35	µg/L	NA	NA	NA	NA	NA	< 0.032 U	NA	NA	< 0.031 U	< 0.034 U
2-Methylnaphthalene	NSL	µg/L	NA	NA	NA	NA	NA	NA	370	NA	NA	NA
Acenaphthene	20	µg/L	96	130	64	73	85	76 J	94	71.4	NA	NA
Acenaphthylene	NSL	µg/L	110	140	96 J+	87	84	92 J	88	84.1	NA	NA
Anthracene	50	µg/L	12	12	11 J	7.8 J	5.1 J	8.1 J	8.6	9.7	NA	NA
Benzo(A)Anthracene	0.002	µg/L	3.1 J+	< 0.36 U	< 3.9 U	0.046 J	< 0.078 U	0.066 J	< 0.45 U	< 0.20 U	NA	NA
Benzo(A)Pyrene	NSL	µg/L	< 2.2 U	< 0.47 U	< 5.4 U	< 0.022 U	< 0.11 U	< 0.015 UJ	< 0.68 U	< 0.21 U	NA	NA
Benzo(B)Fluoranthene	0.002	µg/L	< 2.4 U	< 0.34 U	< 6.0 U	< 0.024 U	< 0.12 U	< 0.016 UJ	< 0.53 U	< 0.21 U	NA	NA
Benzo(G,H,I)Perylene	NSL	µg/L	< 3.5 U	< 0.35 U	< 8.8 U	< 0.035 U	< 0.18 U	< 0.018 UJ	< 0.66 U	< 0.34 U	NA	NA
Benzo(K)Fluoranthene	0.002	µg/L	< 2.8 U	< 0.73 U	< 7.0 U	< 0.028 U	< 0.14 U	< 0.012 UJ	< 0.61 U	< 0.21 U	NA	NA
Chrysene	0.002	µg/L	3.5 J+	< 0.33 U	< 7.5 U	0.037 J	< 0.15 U	0.061 J	< 0.43 U	< 0.18 U	NA	NA
Dibenz(A,H)Anthracene	NSL	µg/L	< 2.0 U	< 0.42 U	< 5.0 U	< 0.020 U	< 0.10 U	< 0.018 UJ	< 0.72 U	< 0.33 U	NA	NA
Fluoranthene	50	µg/L	6.2 J+	4 J	< 9.8 U	2.6	2.3	3.3 J	3.3 J	3.7	NA	NA
Fluorene	50	µg/L	58	58	38 J	40	52 J	36 J	39	37.3	NA	NA
Indeno(1,2,3-C,D)Pyrene	0.002	µg/L	< 3.6 U	< 0.47 U	< 9.1 U	< 0.036 U	< 0.18 U	< 0.018 UJ	< 0.76 U	< 0.33 U	NA	NA
Naphthalene	10	µg/L	250	1100	760	700	820	320 J	500	446	NA	NA
Phenanthrene	50	µg/L	53	78 J	33 J	22 J	52 J	49 J	52	48.6	NA	NA
Pyrene	50	µg/L	7.8 J+	7	< 7.9 U	3.4	3.9	4.5 J	4.1 J	4.1	NA	NA

(1) NYSDEC Class GA groundwater standards and guidance values (6 NYCRR Part 703.5 Water Quality Regulations, as presented in the Division of Water Technical and Operational Guidance Series 1.1.1, 1998, as amended).

µg/L = Microgram(s) per liter.
ng/L = Nanogram(s) per liter.
J = Concentration is estimated.
J+ = Concentration is estimated; biased high.
NA = Not analyzed.
NSL = No screening level
NYSDEC = New York State Department of Environmental Conservation.
SVOCs = Semivolatile organic compounds.
U = Analyte not detected.
Concentrations exceeding the screening level are shaded.
PZ-301 was not sampled in May or August 2023 due to access issues.

Table 3. Summary of Groundwater COC Concentrations and Exceedances (August 2023 and Historical)

			Location ID	MW-106R	MW-106R	MW-106R	MW-108R	MW-108R	MW-108R	MW-108R	MW-108R	MW-110R
			Sample Name	MW-106R	516008-MW-106R	516008-MW-106R	MW-108R	MW-108R	516008-MW-108R	516008-FD-GW 516008-MW-108R	516008-MW-108R	MW-110R
			Parent Sample ID									
			Sample Date	10/12/2022	5/30/2023	8/9/2023	7/26/2022	10/12/2022	5/31/2023	5/31/2023	8/9/2023	7/26/2022
Analyte	**NYSDEC AWQS[1]**	**Unit**		**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
SVOCs (SW8270)												
1,4-Dioxane (P-Dioxane)	0.35	µg/L		NA	NA	NA	< 0.032 U	NA	NA	NA	NA	< 0.033 UJ
2-Methylnaphthalene	NSL	µg/L		NA	140	NA	NA	NA	< 0.66 U	< 0.66 U	NA	NA
Acenaphthene	20	µg/L		26	39	26.1	NA	23	< 0.52 U	< 0.52 U	< 0.19 U	NA
Acenaphthylene	NSL	µg/L		27	24	14.1	NA	76	< 0.54 U	< 0.54 U	< 0.14 U	NA
Anthracene	50	µg/L		3.1	3.3 J	3.7	NA	8.7	< 0.48 U	< 0.48 U	< 0.21 U	NA
Benzo(A)Anthracene	0.002	µg/L		0.34	< 0.46 U	0.29 J	NA	2.9	< 0.45 U	< 0.45 U	< 0.20 U	NA
Benzo(A)Pyrene	NSL	µg/L		0.27	< 0.7 U	< 0.21 U	NA	2.3	< 0.68 U	< 0.68 U	< 0.21 U	NA
Benzo(B)Fluoranthene	0.002	µg/L		0.28	< 0.55 U	< 0.21 U	NA	1.9	< 0.53 U	< 0.53 U	< 0.21 U	NA
Benzo(G,H,I)Perylene	NSL	µg/L		0.18 J	< 0.68 U	< 0.34 U	NA	1.2	< 0.66 U	< 0.66 UJ	< 0.34 U	NA
Benzo(K)Fluoranthene	0.002	µg/L		0.088 J	< 0.63 U	< 0.21 U	NA	0.57	< 0.61 U	< 0.61 U	< 0.21 U	NA
Chrysene	0.002	µg/L		0.35	< 0.44 U	0.19 J	NA	2.8	< 0.43 U	< 0.43 U	< 0.18 U	NA
Dibenz(A,H)Anthracene	NSL	µg/L		0.027 J	< 0.74 U	< 0.33 U	NA	0.16	< 0.72 U	< 0.72 UJ	< 0.33 U	NA
Fluoranthene	50	µg/L		2.3	2.0 J	1.7	NA	14	< 0.47 U	< 0.47 U	< 0.17 U	NA
Fluorene	50	µg/L		14	13	8.3	NA	18	< 0.52 U	< 0.52 U	< 0.17 U	NA
Indeno(1,2,3-C,D)Pyrene	0.002	µg/L		0.16	< 0.78 U	< 0.33 U	NA	1	< 0.76 U	< 0.76 UJ	< 0.33 U	NA
Naphthalene	10	µg/L		480	500	237	NA	940	< 0.58 U	< 0.58 U	< 0.23 U	NA
Phenanthrene	50	µg/L		15	21	14	NA	13	< 0.5 U	< 0.5 U	< 0.18 U	NA
Pyrene	50	µg/L		2.9	2.8 J	2.5	NA	17	< 0.64 U	< 0.64 U	< 0.22 U	NA

(1) NYSDEC Class GA groundwater standards and guidance values (6 NYCRR Part 703.5 Water Quality Regulations, as presented in the Division of Water Technical and Operational Guidance Series 1.1.1, 1998, as amended).

µg/L = Microgram(s) per liter.
ng/L = Nanogram(s) per liter.
J = Concentration is estimated.
J+ = Concentration is estimated; biased high.
NA = Not analyzed.
NSL = No screening level
NYSDEC = New York State Department of Environmental Conservation.
SVOCs = Semivolatile organic compounds.
U = Analyte not detected.
Concentrations exceeding the screening level are shaded.
PZ-301 was not sampled in May or August 2023 due to access issues.

Table 3. Summary of Groundwater COC Concentrations and Exceedances (August 2023 and Historical)

		Location ID	MW-110R	MW-110R	MW-110R	MW-204S	MW-204S	MW-204S	MW-204D	MW-204D	MW-204D	MW-205S
		Sample Name	MW-110R	516008-MW-110R	516008-MW-110R	MW-204S	516008-MW-204S	516008-MW-204S	MW-204D	516008-MW-204D	516008-MW-204D	MW-205S
		Parent Sample ID										
		Sample Date	10/12/2022	5/31/2023	8/8/2023	7/27/2022	5/30/2023	8/8/2023	7/27/2022	5/30/2023	8/8/2023	7/27/2022
Analyte	**NYSDEC AWQS[1]**	**Unit**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
SVOCs (SW8270)												
1,4-Dioxane (P-Dioxane)	0.35	µg/L	NA	NA	NA	< 0.033 U	NA	NA	< 0.034 U	NA	NA	< 0.032 U
2-Methylnaphthalene	NSL	µg/L	NA	< 0.65 U	NA	NA	5.9	NA	NA	13	NA	NA
Acenaphthene	20	µg/L	< 0.019 U	< 0.52 U	12.5	1.9 J	3.7 J	7.7	9.3 J	8.8	10.3	2.6 J
Acenaphthylene	NSL	µg/L	< 0.015 U	< 0.54 U	27.3	1.2 J	17	34.7	53 J	38	43.8	5.6 J
Anthracene	50	µg/L	< 0.012 U	< 0.48 U	6	0.073 J	< 0.48 U	1.8	2.6 J	2.2 J	3	< 0.012 UJ
Benzo(A)Anthracene	0.002	µg/L	< 0.014 U	< 0.44 U	2.2	0.018 J	< 0.44 U	< 0.20 U	0.024 J	< 0.45 U	< 0.20 U	0.018 J
Benzo(A)Pyrene	NSL	µg/L	< 0.015 U	< 0.67 U	2.2	< 0.014 UJ	< 0.67 U	< 0.21 U	< 0.015 UJ	< 0.68 U	< 0.21 U	< 0.015 UJ
Benzo(B)Fluoranthene	0.002	µg/L	< 0.016 U	< 0.53 U	1.4	< 0.016 UJ	< 0.53 U	< 0.21 U	< 0.016 UJ	< 0.53 U	< 0.21 U	< 0.016 UJ
Benzo(G,H,I)Perylene	NSL	µg/L	< 0.018 U	< 0.65 UJ	< 0.34 U	< 0.017 UJ	< 0.65 U	< 0.34 U	< 0.018 UJ	< 0.66 U	< 0.34 U	< 0.018 UJ
Benzo(K)Fluoranthene	0.002	µg/L	< 0.012 U	< 0.61 U	0.69 J	< 0.012 UJ	< 0.61 U	< 0.21 U	< 0.012 UJ	< 0.61 U	< 0.21 U	< 0.012 UJ
Chrysene	0.002	µg/L	< 0.013 U	< 0.43 U	2.2	0.017 J	< 0.43 U	< 0.18 U	0.023 J	< 0.43 U	< 0.18 U	0.017 J
Dibenz(A,H)Anthracene	NSL	µg/L	< 0.018 U	< 0.71 UJ	< 0.33 U	< 0.018 UJ	< 0.71 U	< 0.33 U	< 0.018 UJ	< 0.72 U	< 0.33 U	< 0.018 UJ
Fluoranthene	50	µg/L	< 0.013 U	< 0.46 U	8.9	< 0.013 UJ	< 0.46 U	< 0.17 U	0.82 J	0.88 J	1.2	< 0.013 UJ
Fluorene	50	µg/L	< 0.017 U	< 0.52 U	8.2	2.4 J	3.3 J	10.7	12 J	13	15.4	1.6 J
Indeno(1,2,3-C,D)Pyrene	0.002	µg/L	< 0.018 U	< 0.75 UJ	0.77 J	< 0.018 UJ	< 0.75 U	< 0.33 U	< 0.018 UJ	< 0.76 U	< 0.33 U	< 0.018 UJ
Naphthalene	10	µg/L	0.055 J	< 0.57 U	261	< 0.026 UJ	200	202	280 J	190	225	27 J
Phenanthrene	50	µg/L	< 0.016 U	< 0.49 U	11.7	0.23 J	1.2 J	8.5	12 J	9.8	11.5	0.33 J
Pyrene	50	µg/L	< 0.014 U	< 0.63 U	10.2	< 0.014 UJ	< 0.63 U	< 0.22 U	0.74 J	0.90 J	0.86 J	< 0.014 UJ

(1) NYSDEC Class GA groundwater standards and guidance values (6 NYCRR Part 703.5 Water Quality Regulations, as presented in the Division of Water Technical and Operational Guidance Series 1.1.1, 1998, as amended).

µg/L = Microgram(s) per liter.
ng/L = Nanogram(s) per liter.
J = Concentration is estimated.
J+ = Concentration is estimated; biased high.
NA = Not analyzed.
NSL = No screening level
NYSDEC = New York State Department of Environmental Conservation.
SVOCs = Semivolatile organic compounds.
U = Analyte not detected.
Concentrations exceeding the screening level are shaded.
PZ-301 was not sampled in May or August 2023 due to access issues.

Table 3. Summary of Groundwater COC Concentrations and Exceedances (August 2023 and Historical)

			Location ID	MW-205S	MW-205S	MW-205S	MW-205D	MW-205D	MW-205D	PZ-301	PZ-301	PZ-301	PZ-301	PZ-301
			Sample Name	516008-MW-205S	516008-MW-205S	516008-FD-01-GW	MW-205D	516008-MW-205D	516008-MW-205D	PZ-301	PZ-301	PZ-301	PZ-301	PZ-301
			Parent Sample ID			516008-MW-205S								
			Sample Date	5/30/2023	8/8/2023	8/8/2023	7/27/2022	5/30/2023	8/8/2023	7/21/2020	11/19/2020	2/24/2021	6/8/2021	10/20/2021
Analyte	**NYSDEC AWQS[1]**	**Unit**		**Result**	**Result**	**Result**	**Result**	**Result**		**Result**	**Result**	**Result**	**Result**	**Result**
SVOCs (SW8270)														
1,4-Dioxane (P-Dioxane)	0.35	µg/L		NA	NA	NA	< 0.032 U	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	NSL	µg/L		< 0.68 U	NA	NA	NA	140	NA	NA	NA	NA	NA	NA
Acenaphthene	20	µg/L		1.3 J	0.53 J	0.99 J	29 J	27	33.4	< 0.014 U	< 0.41 U	< 0.014 U	< 0.014 U	0.043 J
Acenaphthylene	NSL	µg/L		< 0.56 U	0.28 J	0.32 J	110 J	150	162	< 0.015 U	< 0.38 U	< 0.015 U	< 0.015 U	0.053
Anthracene	50	µg/L		< 0.5 U	< 0.21 U	< 0.21 U	1.9 J	2.6 J	4.6	< 0.0092 U	< 0.28 U	< 0.025 U	< 0.025 U	< 0.025 U
Benzo(A)Anthracene	0.002	µg/L		< 0.47 U	< 0.20 U	< 0.20 U	< 0.014 UJ	< 0.47 U	< 0.20 U	< 0.016 U	< 0.36 U	< 0.016 U	< 0.016 U	< 0.016 U
Benzo(A)Pyrene	NSL	µg/L		< 0.71 U	< 0.21 U	< 0.21 U	< 0.014 UJ	< 0.72 U	< 0.21 U	< 0.022 U	< 0.47 U	< 0.022 U	< 0.022 U	< 0.022 U
Benzo(B)Fluoranthene	0.002	µg/L		< 0.55 U	< 0.21 U	< 0.21 U	< 0.016 UJ	< 0.56 U	< 0.21 U	< 0.024 U	< 0.34 U	< 0.024 U	< 0.024 U	< 0.024 U
Benzo(G,H,I)Perylene	NSL	µg/L		< 0.69 U	< 0.34 U	< 0.34 U	< 0.017 UJ	< 0.7 U	< 0.34 U	< 0.035 U	< 0.35 U	< 0.035 U	< 0.035 U	< 0.035 U
Benzo(K)Fluoranthene	0.002	µg/L		< 0.64 U	< 0.21 U	< 0.21 U	< 0.012 UJ	< 0.65 U	< 0.21 U	< 0.028 U	< 0.73 U	< 0.028 U	< 0.028 U	< 0.028 U
Chrysene	0.002	µg/L		< 0.45 U	< 0.18 U	< 0.18 U	< 0.013 UJ	< 0.46 U	< 0.18 U	< 0.030 U	< 0.33 U	< 0.030 U	< 0.030 U	< 0.030 U
Dibenz(A,H)Anthracene	NSL	µg/L		< 0.75 U	< 0.33 U	< 0.33 U	< 0.018 UJ	< 0.76 U	< 0.33 U	< 0.020 U	< 0.42 U	< 0.020 U	< 0.020 U	< 0.020 U
Fluoranthene	50	µg/L		< 0.48 U	< 0.17 U	< 0.17 U	0.34 J	< 0.49 U	0.74 J	< 0.039 U	< 0.4 U	< 0.039 U	< 0.039 U	< 0.039 U
Fluorene	50	µg/L		0.62 J	< 0.17 U	0.20 J	24 J	26	33.9	< 0.012 U	< 0.36 U	< 0.012 U	< 0.012 U	0.023 J
Indeno(1,2,3-C,D)Pyrene	0.002	µg/L		< 0.79 U	< 0.33 U	< 0.33 U	< 0.018 UJ	< 0.81 U	< 0.33 U	< 0.036 U	< 0.47 U	< 0.036 U	< 0.036 U	< 0.036 U
Naphthalene	10	µg/L		< 0.6 U	< 0.23 U	< 0.23 U	1400 J	2300	1950	< 0.12 U	0.82 J	< 0.12 U	< 0.12 U	0.68
Phenanthrene	50	µg/L		< 0.52 U	< 0.18 U	< 0.18 U	19 J	25	32.4	0.024 J	< 0.44 U	< 0.022 U	< 0.022 U	0.088
Pyrene	50	µg/L		< 0.66 U	< 0.22 U	< 0.22 U	0.28 J	< 0.68 U	0.48 J	< 0.031 U	< 0.34 U	< 0.031 U	< 0.031 U	< 0.031 U

(1) NYSDEC Class GA groundwater standards and guidance values (6 NYCRR Part 703.5 Water Quality Regulations, as presented in the Division of Water Technical and Operational Guidance Series 1.1.1, 1998, as amended).

µg/L = Microgram(s) per liter.
ng/L = Nanogram(s) per liter.
J = Concentration is estimated.
J+ = Concentration is estimated; biased high.
NA = Not analyzed.
NSL = No screening level
NYSDEC = New York State Department of Environmental Conservation.
SVOCs = Semivolatile organic compounds.
U = Analyte not detected.
Concentrations exceeding the screening level are shaded.
PZ-301 was not sampled in May or August 2023 due to access issues.

		Location ID	PZ-301	PZ-301	PZ-301
		Sample Name	PZ-301	PZ-301	PZ-301
		Parent Sample ID			
		Sample Date	7/27/2022	5/31/2023	8/9/2023
Analyte	**NYSDEC AWQS[1]**	**Unit**	**Result**	**Result**	**Result**
SVOCs (SW8270)					
1,4-Dioxane (P-Dioxane)	0.35	µg/L	< 0.033 U	NS	NS
2-Methylnaphthalene	NSL	µg/L	NA	NS	NS
Acenaphthene	20	µg/L	0.075 J	NS	NS
Acenaphthylene	NSL	µg/L	< 0.016 UJ	NS	NS
Anthracene	50	µg/L	< 0.013 UJ	NS	NS
Benzo(A)Anthracene	0.002	µg/L	< 0.015 UJ	NS	NS
Benzo(A)Pyrene	NSL	µg/L	< 0.016 UJ	NS	NS
Benzo(B)Fluoranthene	0.002	µg/L	< 0.017 UJ	NS	NS
Benzo(G,H,I)Perylene	NSL	µg/L	< 0.019 UJ	NS	NS
Benzo(K)Fluoranthene	0.002	µg/L	< 0.013 UJ	NS	NS
Chrysene	0.002	µg/L	< 0.014 UJ	NS	NS
Dibenz(A,H)Anthracene	NSL	µg/L	< 0.02 UJ	NS	NS
Fluoranthene	50	µg/L	< 0.014 UJ	NS	NS
Fluorene	50	µg/L	0.032 J	NS	NS
Indeno(1,2,3-C,D)Pyrene	0.002	µg/L	< 0.019 UJ	NS	NS
Naphthalene	10	µg/L	< 0.028 UJ	NS	NS
Phenanthrene	50	µg/L	< 0.017 UJ	NS	NS
Pyrene	50	µg/L	< 0.015 UJ	NS	NS

(1) NYSDEC Class GA groundwater standards and guidance values (6 NYCRR Part 703.5 Water Quality Regulations, as presented in the Division of Water Technical and Operational Guidance Series 1.1.1, 1998, as amended).

µg/L = Microgram(s) per liter.
ng/L = Nanogram(s) per liter.
J = Concentration is estimated.
J+ = Concentration is estimated; biased high.
NA = Not analyzed.
NSL = No screening level
NYSDEC = New York State Department of Environmental Conservation.
SVOCs = Semivolatile organic compounds.
U = Analyte not detected.
Concentrations exceeding the screening level are shaded.
PZ-301 was not sampled in May or August 2023 due to access issues.

Table 4. Summary of Surface Water COC Concentrations (September 2023 and Historical)

			Location ID	SW-400	SW-400	SW-400	SW-400	SW-400	SW-400	SW-400
			Sample Name	SW-400	SW-400	SW-400	SW-400	516008-SW-400	516008-SW-400	516008-FD-01-SW
			Parent Sample ID							516008-SW-400
			Sample Date	2/24/2021	6/8/2021	10/20/2021	7/28/2022	5/31/2023	9/6/2023	9/6/2023
Analyte	**NYSDEC AWQS[1]**	**NYSDEC SW[2]**	**Unit**							
SVOCs (SW8270)										
1,4-Dioxane (P-Dioxane)	0.35	NSL	µg/L	NA	NA	NA	< 0.032 U	NA	NA	NA
2-Methylnaphthalene	NSL	NSL	µg/L	NA	NA	NA	NA	< 0.65 U	NA	NA
Acenaphthene	20	20	µg/L	< 0.014 U	< 0.014 U	0.028 J	NA	< 0.52 U	< 0.19 U	< 0.19 U
Acenaphthylene	NSL	NSL	µg/L	< 0.015 U	< 0.015 U	0.03 J	NA	< 0.54 U	< 0.14 U	< 0.14 U
Anthracene	50	NSL	µg/L	< 0.025 U	< 0.025 U	< 0.025 U	NA	< 0.48 U	< 0.21 U	< 0.21 U
Benzo(A)Anthracene	0.002	NSL	µg/L	< 0.016 U	< 0.016 U	< 0.016 U	NA	< 0.44 U	< 0.20 U	< 0.20 U
Benzo(A)Pyrene	NSL	NSL	µg/L	0.03 J	< 0.022 U	< 0.022 U	NA	< 0.67 U	< 0.21 U	< 0.21 U
Benzo(B)Fluoranthene	0.002	NSL	µg/L	< 0.024 U	< 0.024 U	< 0.024 U	NA	< 0.53 U	< 0.21 U	< 0.21 U
Benzo(G,H,I)Perylene	NSL	NSL	µg/L	< 0.035 U	< 0.035 U	< 0.035 U	NA	< 0.65 UJ	< 0.34 U	< 0.34 U
Benzo(K)Fluoranthene	0.002	NSL	µg/L	< 0.028 U	< 0.028 U	< 0.028 U	NA	< 0.61 U	< 0.21 U	< 0.21 U
Chrysene	0.002	NSL	µg/L	0.032 J	< 0.030 U	< 0.030 U	NA	< 0.43 U	< 0.18 U	< 0.18 U
Dibenz(A,H)Anthracene	NSL	NSL	µg/L	0.025 J+	< 0.020 U	< 0.020 U	NA	< 0.71 UJ	< 0.33 U	< 0.33 U
Fluoranthene	50	NSL	µg/L	< 0.039 U	< 0.039 U	< 0.039 U	NA	< 0.46 U	< 0.17 U	< 0.17 U
Fluorene	50	NSL	µg/L	< 0.012 U	< 0.012 U	0.019 J	NA	< 0.52 U	< 0.17 U	< 0.17 U
Indeno(1,2,3-C,D)Pyrene	0.002	NSL	µg/L	< 0.036 U	< 0.036 U	< 0.036 U	NA	< 0.75 UJ	< 0.33 U	< 0.33 U
Naphthalene	10	10	µg/L	< 0.12 U	< 0.12 U	0.49	NA	< 0.57 U	< 0.23 U	< 0.23 U
Phenanthrene	50	NSL	µg/L	0.024 J	< 0.022 U	0.089	NA	< 0.49 U	< 0.18 U	< 0.18 U
Pyrene	50	NSL	µg/L	0.034 J	< 0.031 U	< 0.031 U	NA	< 0.63 U	< 0.22 U	< 0.22 U

Notes:
(1) NYSDEC Class GA groundwater standards and guidance values (6 NYCRR Part 703.6 Ambient Water Quality Standards, as presented in the Division of Water Technical and Operational Guidance Series 1.1.1, 1998, as amended).
(2) NYSDEC Class A surface water standards and guidance values (6 NYCRR Part 703.5 Water Quality Regulations, as presented in the Division of Water Technical and Operational Guidance Series 1.1.1, 1998, as amended).
µg/L = Microgram(s) per liter
J = Concentration is estimated.
J+ = Concentration is estimated; biased high.
NA = Not analyzed
NSL = No screening level
NYSDEC = New York State Department of Conservation.
SVOCs = Semivolatile organic compounds.
U = Analyte not detected.
Concentrations exceeding the screening level are shaded.

Table 4. Summary of Surface Water COC Concentrations (September 2023 and Historical)

			Location ID	SW-400	SW-400	SW-401	SW-401	SW-401	SW-401	SW-401
			Sample Name	516008-SW-400	516008-FD-SW	SW-401	SW-401D	SW-401	SW-401D	SW-401
			Parent Sample ID		516008-SW-400		SW-401		SW-401	
			Sample Date	10/31/2023	10/31/2023	2/23/2021	2/23/2021	6/8/2021	6/8/2021	10/20/2021
Analyte	**NYSDEC AWQS[1]**	**NYSDEC SW[2]**	**Unit**							
SVOCs (SW8270)										
1,4-Dioxane (P-Dioxane)	0.35	NSL	µg/L	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	NSL	NSL	µg/L	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	20	20	µg/L	< 0.19 U	< 0.19 U	< 0.014 U	< 0.014 U	0.021 J	0.025 J	0.022 J
Acenaphthylene	NSL	NSL	µg/L	< 0.14 U	< 0.14 U	< 0.015 U	< 0.015 U	< 0.015 U	< 0.015 U	0.016 J
Anthracene	50	NSL	µg/L	< 0.21 U	< 0.21 U	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U
Benzo(A)Anthracene	0.002	NSL	µg/L	< 0.20 U	< 0.20 U	< 0.016 U	< 0.016 U	< 0.016 U	< 0.016 U	< 0.016 U
Benzo(A)Pyrene	NSL	NSL	µg/L	< 0.21 U	< 0.21 U	< 0.022 U	< 0.022 U	< 0.022 U	< 0.022 U	< 0.022 U
Benzo(B)Fluoranthene	0.002	NSL	µg/L	< 0.21 U	< 0.21 U	< 0.024 U	< 0.024 U	< 0.024 U	< 0.024 U	< 0.024 U
Benzo(G,H,I)Perylene	NSL	NSL	µg/L	< 0.34 U	< 0.34 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U
Benzo(K)Fluoranthene	0.002	NSL	µg/L	< 0.21 U	< 0.21 U	< 0.028 U	< 0.028 U	< 0.028 U	< 0.028 U	< 0.028 U
Chrysene	0.002	NSL	µg/L	< 0.18 U	< 0.18 U	< 0.030 U	< 0.030 U	< 0.030 U	< 0.030 U	< 0.030 U
Dibenz(A,H)Anthracene	NSL	NSL	µg/L	< 0.33 U	< 0.33 U	< 0.020 U	< 0.020 U	< 0.020 U	< 0.020 U	< 0.020 U
Fluoranthene	50	NSL	µg/L	< 0.17 U	< 0.17 U	< 0.039 U	< 0.039 U	< 0.039 U	< 0.039 U	< 0.039 U
Fluorene	50	NSL	µg/L	< 0.17 U	< 0.17 U	< 0.012 U	< 0.012 U	< 0.012 U	< 0.012 U	0.016 J
Indeno(1,2,3-C,D)Pyrene	0.002	NSL	µg/L	< 0.33 U	< 0.33 U	< 0.036 U	< 0.036 U	< 0.036 U	< 0.036 U	< 0.036 U
Naphthalene	10	10	µg/L	< 0.23 U	< 0.23 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	0.23
Phenanthrene	50	NSL	µg/L	< 0.18 U	< 0.18 U	< 0.022 U	< 0.022 U	< 0.022 U	< 0.022 U	0.11
Pyrene	50	NSL	µg/L	< 0.22 U	< 0.22 U	< 0.031 U	< 0.031 U	< 0.031 U	< 0.031 U	< 0.031 U

Notes:
(1) NYSDEC Class GA groundwater standards and guidance values (6 NYCRR Part 703.6 Ambient Water Quality Standards, as presented in the Division of Water Technical and Operational Guidance Series 1.1.1, 1998, as amended).
(2) NYSDEC Class A surface water standards and guidance values (6 NYCRR Part 703.5 Water Quality Regulations, as presented in the Division of Water Technical and Operational Guidance Series 1.1.1, 1998, as amended).
µg/L = Microgram(s) per liter
J = Concentration is estimated.
J+ = Concentration is estimated; biased high.
NA = Not analyzed
NSL = No screening level
NYSDEC = New York State Department of Conservation.
SVOCs = Semivolatile organic compounds.
U = Analyte not detected.
Concentrations exceeding the screening level are shaded.

Table 4. Summary of Surface Water COC Concentrations (September 2023 and Historical)

			Location ID	SW-401	SW-401	SW-401	SW-401	SW-401	SW-401	SW-401
			Sample Name	SW-401D	SW-401	SW-401D	516008-SW-401	516008-FD-SW	516008-SW-401	516008-SW-401
			Parent Sample ID	SW-401		SW-401		516008-SW-401		
			Sample Date	10/20/2021	7/28/2022	7/28/2022	5/31/2023	5/31/2023	9/6/2023	10/31/2023
Analyte	**NYSDEC AWQS[1]**	**NYSDEC SW[2]**	**Unit**							
SVOCs (SW8270)										
1,4-Dioxane (P-Dioxane)	0.35	NSL	µg/L	NA	< 0.032 U	< 0.032 U	NA	NA	NA	NA
2-Methylnaphthalene	NSL	NSL	µg/L	NA	NA	NA	< 0.66 U	< 0.66 U	NA	NA
Acenaphthene	20	20	µg/L	0.024 J	< 0.019 UJ	NA	< 0.52 U	< 0.53 U	< 0.19 U	< 0.19 U
Acenaphthylene	NSL	NSL	µg/L	0.016 J	< 0.015 UJ	NA	< 0.54 U	< 0.55 U	< 0.14 U	< 0.14 U
Anthracene	50	NSL	µg/L	< 0.025 U	< 0.012 UJ	NA	< 0.48 U	< 0.49 U	< 0.21 U	< 0.21 U
Benzo(A)Anthracene	0.002	NSL	µg/L	< 0.016 U	< 0.014 UJ	NA	< 0.45 U	< 0.45 U	< 0.20 U	< 0.21 U
Benzo(A)Pyrene	NSL	NSL	µg/L	< 0.022 U	< 0.014 UJ	NA	< 0.68 U	< 0.68 U	< 0.21 U	< 0.22 U
Benzo(B)Fluoranthene	0.002	NSL	µg/L	< 0.024 U	< 0.016 UJ	NA	< 0.53 U	< 0.54 U	< 0.21 U	< 0.21 U
Benzo(G,H,I)Perylene	NSL	NSL	µg/L	< 0.035 U	< 0.017 UJ	NA	< 0.66 UJ	< 0.67 UJ	< 0.34 U	< 0.34 U
Benzo(K)Fluoranthene	0.002	NSL	µg/L	< 0.028 U	< 0.012 UJ	NA	< 0.61 U	< 0.62 U	< 0.21 U	< 0.21 U
Chrysene	0.002	NSL	µg/L	< 0.030 U	< 0.013 UJ	NA	< 0.43 U	< 0.44 U	< 0.18 U	< 0.18 U
Dibenz(A,H)Anthracene	NSL	NSL	µg/L	< 0.020 U	< 0.018 UJ	NA	< 0.72 UJ	< 0.73 UJ	< 0.33 U	< 0.33 U
Fluoranthene	50	NSL	µg/L	< 0.039 U	< 0.013 UJ	NA	< 0.47 U	< 0.47 U	< 0.17 U	< 0.17 U
Fluorene	50	NSL	µg/L	0.017 J	< 0.016 UJ	NA	< 0.52 U	< 0.53 U	< 0.17 U	< 0.17 U
Indeno(1,2,3-C,D)Pyrene	0.002	NSL	µg/L	< 0.036 U	< 0.018 UJ	NA	< 0.76 UJ	< 0.77 UJ	< 0.33 U	< 0.34 U
Naphthalene	10	10	µg/L	0.25	< 0.026 UJ	NA	< 0.58 U	< 0.59 U	< 0.23 U	< 0.23 U
Phenanthrene	50	NSL	µg/L	0.095	< 0.015 UJ	NA	< 0.5 U	< 0.5 U	< 0.18 U	< 0.18 U
Pyrene	50	NSL	µg/L	< 0.031 U	< 0.014 UJ	NA	< 0.64 U	< 0.64 U	< 0.22 U	< 0.22 U

Notes:
(1) NYSDEC Class GA groundwater standards and guidance values (6 NYCRR Part 703.6 Ambient Water Quality Standards, as presented in the Division of Water Technical and Operational Guidance Series 1.1.1, 1998, as amended).
(2) NYSDEC Class A surface water standards and guidance values (6 NYCRR Part 703.5 Water Quality Regulations, as presented in the Division of Water Technical and Operational Guidance Series 1.1.1, 1998, as amended).
µg/L = Microgram(s) per liter
J = Concentration is estimated.
J+ = Concentration is estimated; biased high.
NA = Not analyzed
NSL = No screening level
NYSDEC = New York State Department of Conservation.
SVOCs = Semivolatile organic compounds.
U = Analyte not detected.
Concentrations exceeding the screening level are shaded.

Table 4. Summary of Surface Water COC Concentrations (September 2023 and Historical)

			Location ID	SW-402	SW-402	SW-402	SW-402	SW-402	SW-402	SW-402
			Sample Name	SW-402	SW-402	SW-402	SW-402	516008-SW-402	516008-SW-402	516008-SW-402
			Parent Sample ID							
			Sample Date	2/23/2021	6/8/2021	10/20/2021	7/28/2022	5/31/2023	9/6/2023	10/31/2023
Analyte	**NYSDEC AWQS[1]**	**NYSDEC SW[2]**	**Unit**							
SVOCs (SW8270)										
1,4-Dioxane (P-Dioxane)	0.35	NSL	µg/L	NA	NA	NA	< 0.032 U	NA	NA	NA
2-Methylnaphthalene	NSL	NSL	µg/L	NA	NA	NA	NA	< 0.66 U	NA	NA
Acenaphthene	20	20	µg/L	< 0.014 U	< 0.014 U	0.024 J	< 0.021 UJ	< 0.52 U	< 0.19 U	< 0.19 U
Acenaphthylene	NSL	NSL	µg/L	< 0.015 U	< 0.015 U	< 0.015 U	< 0.017 UJ	< 0.54 U	< 0.13 U	< 0.14 U
Anthracene	50	NSL	µg/L	< 0.025 U	< 0.025 U	< 0.025 U	< 0.014 UJ	< 0.48 U	< 0.21 U	< 0.21 U
Benzo(A)Anthracene	0.002	NSL	µg/L	< 0.016 U	< 0.016 U	< 0.016 U	< 0.016 UJ	< 0.45 U	< 0.20 U	< 0.21 U
Benzo(A)Pyrene	NSL	NSL	µg/L	< 0.022 U	< 0.022 U	< 0.022 U	< 0.016 UJ	< 0.68 U	< 0.21 U	< 0.22 U
Benzo(B)Fluoranthene	0.002	NSL	µg/L	0.037 J	< 0.024 U	< 0.024 U	< 0.018 UJ	< 0.53 U	< 0.20 U	< 0.21 U
Benzo(G,H,I)Perylene	NSL	NSL	µg/L	0.043 J+	< 0.035 U	< 0.035 U	< 0.019 UJ	< 0.66 UJ	< 0.33 U	< 0.34 U
Benzo(K)Fluoranthene	0.002	NSL	µg/L	< 0.028 U	< 0.028 U	< 0.028 U	< 0.013 UJ	< 0.61 U	< 0.20 U	< 0.21 U
Chrysene	0.002	NSL	µg/L	0.048 J	< 0.030 U	< 0.030 U	< 0.014 UJ	< 0.43 U	< 0.17 U	< 0.18 U
Dibenz(A,H)Anthracene	NSL	NSL	µg/L	< 0.020 U	< 0.020 U	< 0.020 U	< 0.02 UJ	< 0.72 UJ	< 0.32 U	< 0.33 U
Fluoranthene	50	NSL	µg/L	0.066	< 0.039 U	< 0.039 U	< 0.015 UJ	< 0.47 U	< 0.17 U	< 0.17 U
Fluorene	50	NSL	µg/L	< 0.012 U	< 0.012 U	0.016 J	< 0.018 UJ	< 0.52 U	< 0.17 U	< 0.17 U
Indeno(1,2,3-C,D)Pyrene	0.002	NSL	µg/L	0.042 J	< 0.036 U	< 0.036 U	< 0.02 UJ	< 0.76 UJ	< 0.33 U	< 0.34 U
Naphthalene	10	10	µg/L	< 0.12 U	< 0.12 U	0.14 J	< 0.029 UJ	< 0.58 U	< 0.23 U	< 0.23 U
Phenanthrene	50	NSL	µg/L	0.035 J	< 0.022 U	0.077	< 0.017 UJ	< 0.5 U	< 0.17 U	< 0.18 U
Pyrene	50	NSL	µg/L	0.071	< 0.031 U	< 0.031 U	< 0.016 UJ	< 0.64 U	< 0.21 U	< 0.22 U

Notes:
(1) NYSDEC Class GA groundwater standards and guidance values (6 NYCRR Part 703.6 Ambient Water Quality Standards, as presented in the Division of Water Technical and Operational Guidance Series 1.1.1, 1998, as amended).
(2) NYSDEC Class A surface water standards and guidance values (6 NYCRR Part 703.5 Water Quality Regulations, as presented in the Division of Water Technical and Operational Guidance Series 1.1.1, 1998, as amended).
µg/L = Microgram(s) per liter
J = Concentration is estimated.
J+ = Concentration is estimated; biased high.
NA = Not analyzed
NSL = No screening level
NYSDEC = New York State Department of Conservation.
SVOCs = Semivolatile organic compounds.
U = Analyte not detected.
Concentrations exceeding the screening level are shaded.

Table 4. Summary of Surface Water COC Concentrations (September 2023 and Historical)

			Location ID	SW-403	SW-403	SW-403	SW-403	SW-403	SW-403	SW-403
			Sample Name	SW-403	SW-403	SW-403	SW-403	516008-SW-403	516008-SW-403	516008-SW-403
			Parent Sample ID							
			Sample Date	2/23/2021	6/8/2021	10/20/2021	7/28/2022	5/31/2023	9/6/2023	10/31/2023
Analyte	**NYSDEC AWQS[1]**	**NYSDEC SW[2]**	**Unit**							
SVOCs (SW8270)										
1,4-Dioxane (P-Dioxane)	0.35	NSL	µg/L	NA	NA	NA	< 0.032 U	NA	NA	NA
2-Methylnaphthalene	NSL	NSL	µg/L	NA	NA	NA	NA	< 0.66 U	NA	NA
Acenaphthene	20	20	µg/L	0.024 J	< 0.014 U	< 0.014 U	< 0.019 UJ	< 0.52 U	< 0.19 U	< 0.19 U
Acenaphthylene	NSL	NSL	µg/L	< 0.015 U	< 0.015 U	< 0.015 U	< 0.015 UJ	< 0.54 U	< 0.14 U	< 0.14 U
Anthracene	50	NSL	µg/L	< 0.025 U	< 0.025 U	< 0.025 U	< 0.012 UJ	< 0.48 U	< 0.22 U	< 0.21 U
Benzo(A)Anthracene	0.002	NSL	µg/L	< 0.016 U	< 0.016 U	0.02 J	< 0.014 UJ	< 0.45 U	< 0.21 U	< 0.20 U
Benzo(A)Pyrene	NSL	NSL	µg/L	< 0.022 U	< 0.022 U	0.029 J	< 0.014 UJ	< 0.68 U	< 0.22 U	< 0.21 U
Benzo(B)Fluoranthene	0.002	NSL	µg/L	0.038 J	< 0.024 U	0.043 J	< 0.015 UJ	< 0.53 U	< 0.21 U	< 0.21 U
Benzo(G,H,I)Perylene	NSL	NSL	µg/L	0.036 J+	< 0.035 U	< 0.035 U	< 0.017 UJ	< 0.66 UJ	< 0.35 U	< 0.34 U
Benzo(K)Fluoranthene	0.002	NSL	µg/L	< 0.028 U	< 0.028 U	< 0.028 U	< 0.012 UJ	< 0.61 U	< 0.21 U	< 0.21 U
Chrysene	0.002	NSL	µg/L	0.047 J	< 0.030 U	0.031 J	< 0.013 UJ	< 0.43 U	< 0.18 U	< 0.18 U
Dibenz(A,H)Anthracene	NSL	NSL	µg/L	< 0.020 U	< 0.020 U	< 0.020 U	< 0.018 UJ	< 0.72 UJ	< 0.34 U	< 0.33 U
Fluoranthene	50	NSL	µg/L	0.067	< 0.039 U	0.066	< 0.013 UJ	< 0.47 U	< 0.17 U	< 0.17 U
Fluorene	50	NSL	µg/L	0.012 J	< 0.012 U	< 0.012 U	< 0.016 UJ	< 0.52 U	< 0.17 U	< 0.17 U
Indeno(1,2,3-C,D)Pyrene	0.002	NSL	µg/L	< 0.036 U	< 0.036 U	< 0.036 U	< 0.017 UJ	< 0.76 UJ	< 0.34 U	< 0.33 U
Naphthalene	10	10	µg/L	< 0.12 U	< 0.12 U	< 0.12 U	< 0.026 UJ	< 0.58 U	< 0.24 U	< 0.23 U
Phenanthrene	50	NSL	µg/L	0.028 J	< 0.022 U	0.1	< 0.015 UJ	< 0.5 U	< 0.18 U	< 0.18 U
Pyrene	50	NSL	µg/L	0.068	< 0.031 U	0.059	< 0.014 UJ	< 0.64 U	< 0.22 U	< 0.22 U

Notes:
(1) NYSDEC Class GA groundwater standards and guidance values (6 NYCRR Part 703.6 Ambient Water Quality Standards, as presented in the Division of Water Technical and Operational Guidance Series 1.1.1, 1998, as amended).
(2) NYSDEC Class A surface water standards and guidance values (6 NYCRR Part 703.5 Water Quality Regulations, as presented in the Division of Water Technical and Operational Guidance Series 1.1.1, 1998, as amended).
µg/L = Microgram(s) per liter
J = Concentration is estimated.
J+ = Concentration is estimated; biased high.
NA = Not analyzed
NSL = No screening level
NYSDEC = New York State Department of Conservation.
SVOCs = Semivolatile organic compounds.
U = Analyte not detected.
Concentrations exceeding the screening level are shaded.

Table 5. Summary of Sediment COC Concentrations (September 2023 and Historical)

			Location ID	SD-400	SD-400	SD-400	SD-400	SD-401	SD-401	SD-401	SD-401	SD-401
			Sample Name	SD-400	SD-400	516008-SD-400	516008-SD-400	SD-401	SD-401D	SD-401	SD-401D	SD-401
			Parent Sample ID						SD-401		SD-401	
			Sample Date	10/20/2021	7/28/2022	5/30/2023	9/6/2023	6/8/2021	6/8/2021	10/20/2021	10/20/2021	7/28/2022
Analyte	**NYSDEC Class A[1]**	**Unit**										
SVOCs (SW8270)												
2-Methylnaphthalene	NSL	mg/kg	NA	NA	< 0.084 U	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	NSL	mg/kg	< 0.017 U	< 0.093 U	< 0.082 U	< 0.015 U	< 0.011 U	< 0.011 U	< 0.01 U	< 0.011 U	< 0.011 U	< 0.076 U
Acenaphthylene	NSL	mg/kg	0.051 J	< 0.092 U	< 0.084 U	< 0.021 U	0.013 J	< 0.0039 U	0.01 J	0.0089 J	< 0.074 U	
Anthracene	NSL	mg/kg	0.071 J	< 0.093 U	< 0.083 U	< 0.026 U	0.015 J	0.012 J	0.013 J	0.014 J	< 0.076 U	
Benzo(A)Anthracene	NSL	mg/kg	0.087	< 0.082 U	< 0.078 U	0.0471	0.07	0.052	< 0.013 U	< 0.014 U	< 0.066 U	
Benzo(A)Pyrene	NSL	mg/kg	0.083 J	0.083 J	< 0.071 U	0.0455	0.078 J	0.068 J	< 0.0098 U	< 0.01 U	< 0.064 U	
Benzo(B)Fluoranthene	NSL	mg/kg	0.14 J	0.11 J	< 0.072 U	0.0638	0.1	0.1	< 0.0095 U	< 0.01 U	< 0.066 U	
Benzo(G,H,I)Perylene	NSL	mg/kg	0.17 J	< 0.099 U	< 0.09 U	0.0404 J	0.061 J	0.043 J	< 0.011 U	< 0.011 U	< 0.08 U	
Benzo(K)Fluoranthene	NSL	mg/kg	0.047 J	< 0.079 U	< 0.078 U	0.0252 J	0.033 J	0.037 J	< 0.0072 U	< 0.0076 U	< 0.064 U	
Chrysene	NSL	mg/kg	0.1 J	0.089 J	< 0.078 U	0.0557	0.088 J	0.088 J	< 0.0062 U	< 0.0066 U	< 0.069 U	
Dibenz(A,H)Anthracene	NSL	mg/kg	0.043 J	< 0.091 U	< 0.083 U	< 0.019 U	< 0.016 U	< 0.017 U	< 0.016 U	< 0.017 U	< 0.074 U	
Fluoranthene	NSL	mg/kg	0.15 J	0.13 J	< 0.077 U	0.0595	0.13 J	0.13 J	< 0.013 U	< 0.014 U	< 0.069 U	
Fluorene	NSL	mg/kg	0.0088 J	< 0.093 U	< 0.084 U	< 0.019 U	< 0.0051 U	< 0.0053 U	< 0.0050 U	< 0.0053 U	< 0.076 U	
Indeno(1,2,3-C,D)Pyrene	NSL	mg/kg	0.15	< 0.1 U	< 0.094 U	0.0528	0.069	0.061	< 0.014 U	< 0.015 U	< 0.085 U	
Naphthalene	NSL	mg/kg	< 0.01 U	< 0.091 U	< 0.086 U	0.128 B	< 0.0065 U	< 0.0067 U	< 0.0064 U	< 0.0067 U	< 0.074 U	
Phenanthrene	NSL	mg/kg	0.064 J	< 0.093 U	< 0.084 U	0.0241 J	0.07 J	0.047 J	< 0.0065 U	< 0.0069 U	< 0.076 U	
Pyrene	NSL	mg/kg	0.16 J	0.14 J	< 0.086 U	0.0847	0.13 J	0.11 J	< 0.0091 U	< 0.0097 U	< 0.073 U	
Sum of PAHs	4	mg/kg	1.3248	0.552	ND	0.6268	0.857	0.748	0.023	0.0229	ND	

Notes:
(1) NYSDEC Class A Freshwater Sediment standards (Screening and Assessment of Contaminated Sediment, June 24 2014).
B = Analyte found in associated method blank.
COC = Contaminants of concern.
J = Concentration is estimated.
mg/kg = Milligram(s) per kilogram.
NA = Not analyzed.
NSL = No screening level available.
PAH = Polycyclic aromatic hydrocarbons.
SVOCs = Semivolatile organic compounds.
U = Analyte not detected.
Concentrations exceeding the screening level are shaded gray.

Table 5. Summary of Sediment COC Concentrations (September 2023 and Historical)

			Location ID	SD-401	SD-401	SD-401	SD-401	SD-401	SD-402	SD-402	SD-402	SD-402	SD-402
			Sample Name	SD-401D	516008-SD-401	516008-FD-SD	516008-SD-401	516008-FD-01-SD	SD-402	SD-402	SD-402	516008-SD-402	516008-SD-402
			Parent Sample ID	SD-401		516008-SD-401		516008-SD-401					
			Sample Date	7/28/2022	5/31/2023	5/31/2023	9/6/2023	9/6/2023	6/8/2021	10/20/2021	7/28/2022	5/31/2023	9/6/2023
Analyte	**NYSDEC Class A[1]**	**Unit**											
SVOCs (SW8270)													
2-Methylnaphthalene	NSL	mg/kg	NA	< 0.081 U	< 0.078 U	NA	NA	NA	NA	NA	NA	< 0.08 U	NA
Acenaphthene	NSL	mg/kg	< 0.078 U	< 0.079 U	< 0.076 U	< 0.014 U	0.0916	< 0.011 U	< 0.011 U	< 0.079 U	< 0.078 U	0.433
Acenaphthylene	NSL	mg/kg	< 0.076 U	< 0.081 U	< 0.078 U	< 0.021 U	< 0.019 U	< 0.0039 U	0.0088 J	< 0.077 U	< 0.08 U	< 0.021 U
Anthracene	NSL	mg/kg	< 0.077 U	< 0.08 U	< 0.077 U	< 0.025 U	0.0373 J	< 0.012 U	0.013 J	< 0.079 U	< 0.079 U	0.239
Benzo(A)Anthracene	NSL	mg/kg	< 0.068 U	< 0.074 U	< 0.072 U	0.0147 J	0.0268 J	< 0.014 U	< 0.014 U	< 0.069 U	< 0.073 U	0.208
Benzo(A)Pyrene	NSL	mg/kg	< 0.066 U	< 0.068 U	< 0.066 U	< 0.019 U	0.0176 J	< 0.01 U	< 0.01 U	< 0.067 U	< 0.067 U	0.179
Benzo(B)Fluoranthene	NSL	mg/kg	< 0.067 U	< 0.069 U	< 0.067 U	0.0267 J	0.0284 J	< 0.01 U	< 0.01 U	< 0.068 U	< 0.069 U	0.185
Benzo(G,H,I)Perylene	NSL	mg/kg	< 0.082 U	< 0.086 U	< 0.083 U	< 0.02 U	0.0210 J	< 0.011 U	< 0.012 U	< 0.084 U	< 0.085 U	0.0954
Benzo(K)Fluoranthene	NSL	mg/kg	< 0.065 U	< 0.074 U	< 0.072 U	< 0.019 U	< 0.018 U	< 0.0076 U	< 0.0077 U	< 0.067 U	< 0.073 U	0.0794
Chrysene	NSL	mg/kg	< 0.07 U	< 0.074 U	< 0.072 U	0.0183 J	0.0273 J	< 0.0066 U	< 0.0066 U	< 0.071 U	< 0.074 U	0.181
Dibenz(A,H)Anthracene	NSL	mg/kg	< 0.076 U	< 0.08 U	< 0.077 U	< 0.018 U	< 0.017 U	< 0.017 U	< 0.017 U	< 0.077 U	< 0.079 U	0.0213 J
Fluoranthene	NSL	mg/kg	< 0.071 U	< 0.074 U	< 0.071 U	0.0311 J	0.113	< 0.014 U	< 0.014 U	< 0.072 U	< 0.073 U	0.724
Fluorene	NSL	mg/kg	< 0.077 U	< 0.08 U	< 0.077 U	< 0.019 U	0.0906	< 0.0053 U	< 0.0053 U	< 0.079 U	< 0.079 U	0.441
Indeno(1,2,3-C,D)Pyrene	NSL	mg/kg	< 0.087 U	< 0.09 U	< 0.087 U	0.0356 J	0.0329 J	< 0.015 U	< 0.015 U	< 0.088 U	< 0.089 U	0.101
Naphthalene	NSL	mg/kg	< 0.076 U	< 0.083 U	< 0.079 U	0.104 B	0.416 B	< 0.0067 U	< 0.0068 U	< 0.077 U	< 0.081 U	1.3 B
Phenanthrene	NSL	mg/kg	< 0.077 U	< 0.081 U	< 0.078 U	0.0195 J	0.254	< 0.0068 U	< 0.0069 U	< 0.079 U	< 0.08 U	1.28
Pyrene	NSL	mg/kg	< 0.075 U	< 0.082 U	< 0.079 U	0.0317 J	0.0799	< 0.0097 U	< 0.0098 U	< 0.076 U	0.084 J	0.553
Sum of PAHs	4	mg/kg	ND	ND	ND	0.2816	1.2364	ND	0.0218	ND	0.084	6.0201

Notes:
(1) NYSDEC Class A Freshwater Sediment standards (Screening and Assessment of Contaminated Sediment, June 24 2014).
B = Analyte found in associated method blank.
COC = Contaminants of concern.
J = Concentration is estimated.
mg/kg = Milligram(s) per kilogram.
NA = Not analyzed.
NSL = No screening level available.
PAH = Polycyclic aromatic hydrocarbons.
SVOCs = Semivolatile organic compounds.
U = Analyte not detected.
Concentrations exceeding the screening level are shaded gray.

Figures

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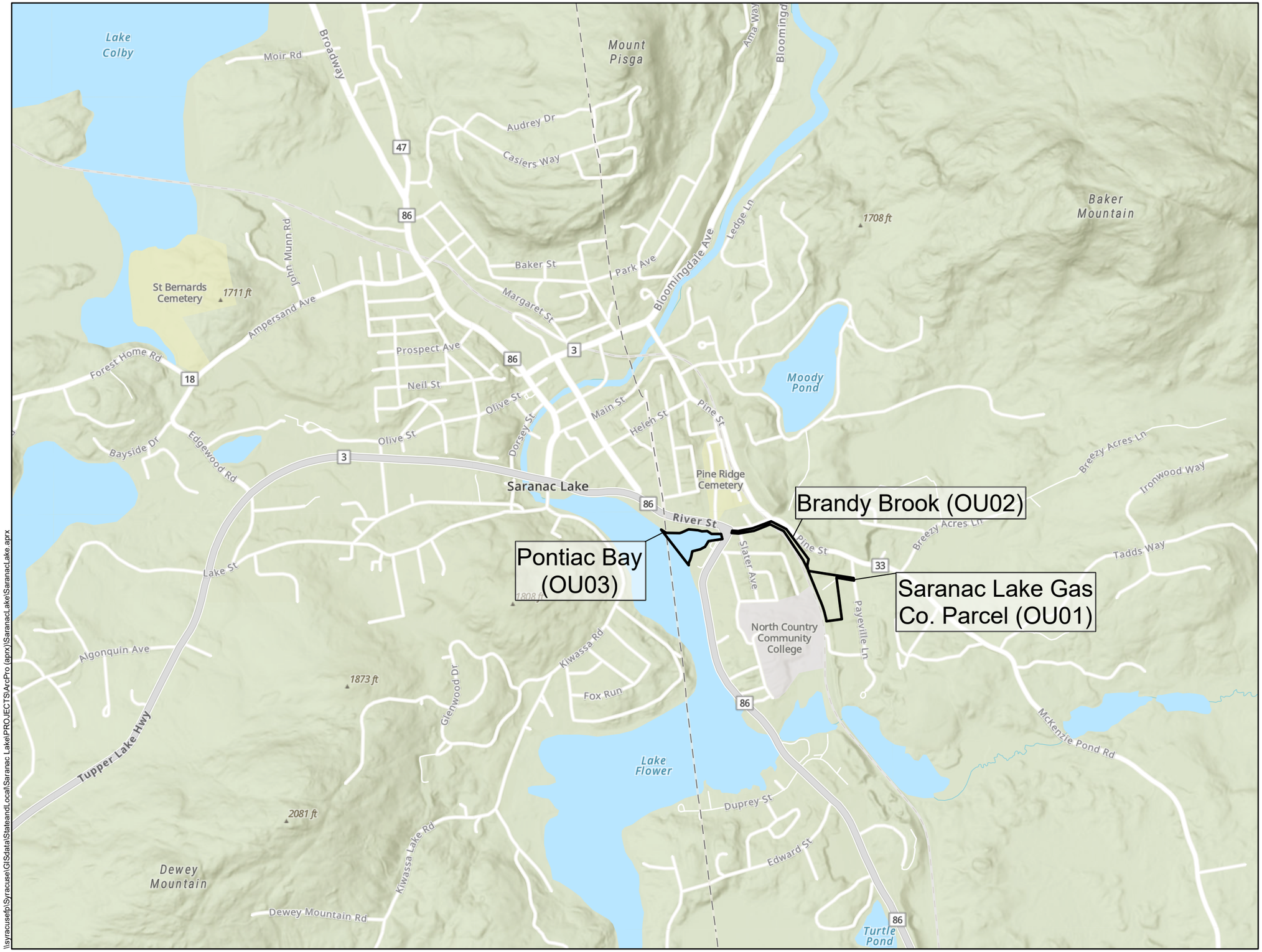
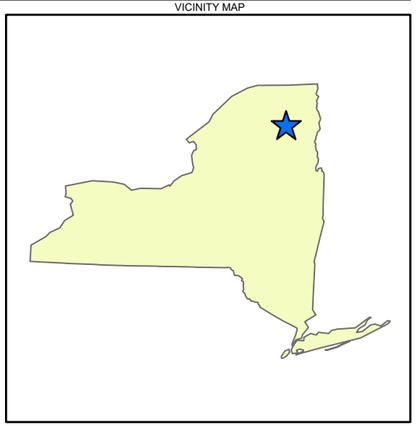


VICINITY MAP



Legend

- Site Location
- Operable Units (OUs)

N

0 500 1,000

Feet

Map Date: 10/5/2023
Projection: NAD 1983 State Plane New York East
Source: WSP; ESRI

NEW YORK STATE | Department of Environmental Conservation

Figure 1
Site Vicinity Map
Saranac Lake Gas Co., Inc.
(NYSDEC Site No. 516008)
Saranac Lake, New York

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PZ-PV2

MW-106R

MW-108R

MW-110R

PZ-PV1

MW-204S MW-204D

MW-205D
MW-205S

Legend

- Saranac Lake Gas Co. Parcel (OU01)
- Site Location
- Groundwater Sampling Location
- Gauged Only

N

0 50 100
Feet

Figure 2a
OU01 Long-Term Monitoring Sampling Locations
Saranac Lake Gas Co., Inc.
(NYSDEC Site No. 516008)
Saranac Lake, New York

NEW YORK STATE Department of Environmental Conservation

Map Date: 6/10/2024
Projection: NAD 1983 State Plane New York East
Source: WSP; ESRI

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VICINITY MAP

Legend

- Saranac Lake Gas Co. Parcel (OU01)
- Brandy Brook (OU02)
- Lake Flower (OU03)
- Groundwater Sampling Location
- Surface Water Sampling Location
- Surface Water and Sediment Sampling Location
- Not Sampled
- Site Location

N

0 100 200

Feet

Map Date: 11/28/2023
Projection: NAD 1983 State Plane New York East
Source: WSP; ESRI

NEW YORK STATE Department of Environmental Conservation

Figure 2b
OU02 and OU03 Long-Term Monitoring Sampling Locations
Saranac Lake Gas Co., Inc.
(NYSDEC Site No. 516008)
Saranac Lake, New York

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PZ-301
NS

MW-104
1539.11

MW-106R
1536.23

PZ-PV2
1542.37

1542

1540

MW-108R
1530.85

MW-110R
1531.29

1538

PZ-PV1
1537.55

1536

1532

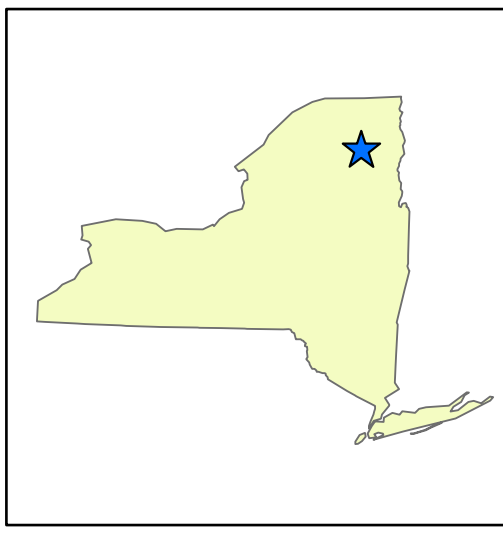
MW-204S
1533.19

MW-204D*

1534

MW-205D*

MW-205S
1533.26



Legend

- Groundwater Contours
- Groundwater Flow Direction
- Saranac Lake Gas Co. Parcel (OU01)
- Groundwater Sampling Location
- Gauged Only
- Not Sampled
- Site Location

N

0 100 200
Feet

Figure 3
Groundwater Elevation Contours
August 2023
Saranac Lake Gas Co., Inc.
(NYSDEC Site No. 516008)
Saranac Lake, New York

NEW YORK STATE | Department of Environmental Conservation

Map Date: 7/12/2024
Projection: NAD 1983 State Plane New York East
Source: WSP; ESRI

Notes:
Groundwater elevations presented in feet.
*Groundwater elevations omitted for MW-204D and MW-205D.

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MW-106R	
Analyte	Aug-23
Acenaphthene	**26.1**
Acenaphthylene	14.1
Anthracene	3.7
Benzo(a)anthracene	**0.29 J**
Chrysene	**0.19 J**
Fluoranthene	1.7
Fluorene	8.3
Naphthalene	**237**
Phenanthrene	14
Pyrene	2.5

MW-104	
Analyte	Aug-23
Acenaphthene	**71.4**
Acenaphthylene	84.1
Anthracene	9.7
Fluoranthene	3.7
Fluorene	37.3
Naphthalene	**446**
Phenanthrene	48.6
Pyrene	4.1

MW-110R	
Analyte	Aug-23
Acenaphthene	12.5
Acenaphthylene	27.3
Anthracene	6
Benzo(a)anthracene	**2.2**
Benzo(a)pyrene	2.2
Benzo(b)fluoranthene	**1.4**
Benzo(k)fluoranthene	**0.69 J**
Chrysene	**2.2**
Fluoranthene	8.9
Fluorene	8.2
Indeno(1,2,3-cd)pyrene	**0.77 J**
Naphthalene	**261**
Phenanthrene	11.7
Pyrene	10.2

MW-108R

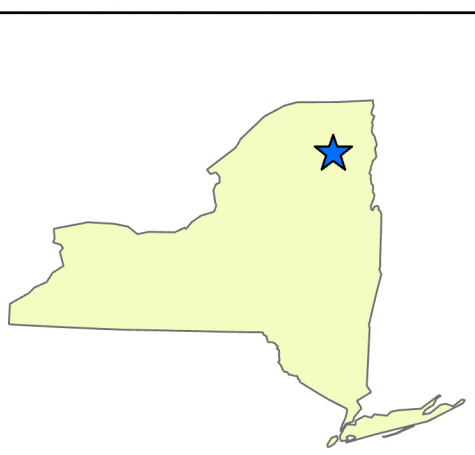
MW-204S	
Analyte	Aug-23
Acenaphthene	7.7
Acenaphthylene	34.7
Anthracene	1.8
Fluorene	10.7
Naphthalene	**202**
Phenanthrene	8.5

MW-204D	
Analyte	Aug-23
Acenaphthene	10.3
Acenaphthylene	43.8
Anthracene	3
Fluoranthene	1.2
Fluorene	15.4
Naphthalene	**225**
Phenanthrene	11.5
Pyrene	0.86 J

New York State AWQS (August 2023)	
Analyte	Standard (µg/L)
Acenaphthene	20
Acenaphthylene	NSL
Anthracene	50
Benzo(a)anthracene	0.002
Benzo(a)pyrene	NSL
Benzo(b)fluoranthene	0.002
Benzo(k)fluoranthene	0.002
Chrysene	0.002
Fluoranthene	50
Fluorene	50
Indeno(1,2,3-cd)pyrene	0.002
Naphthalene	10
Phenanthrene	50
Pyrene	50

MW-205D	
Analyte	Aug-23
Acenaphthene	**33.4**
Acenaphthylene	162
Anthracene	4.6
Fluoranthene	0.74 J
Fluorene	33.9
Naphthalene	**1950**
Phenanthrene	32.4
Pyrene	0.48 J

MW-205S



Legend

- Saranac Lake Gas Co. Parcel (OU01)
- Site Location
- Groundwater Sampling Location

N

0 40 80

Feet

Figure 4
Groundwater Analytical Results
PAH Detections
Saranac Lake Gas Co., Inc.
(NYSDEC Site No. 516008)
Saranac Lake, New York

NEW YORK STATE | Department of Environmental Conservation

Map Date: 7/18/2024
Projection: NAD 1983 State Plane New York East
Source: WSP; ESRI

Note:
Values in red indicate exceedances of AWQS Standards.
NSL = No screening level available

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NYSDEC Class A Freshwater Sediment Standards	
Analyte	Standard (mg/kg)
Sum of PAHs	4

VICINITY MAP

Legend

- Sediment Sampling Location
- Not Sampled (Groundwater Sampling Location)
- Site Location

N

0 50 100
Feet

Note:
Values in red indicate exceedances of NYSDEC Class A Freshwater Sediment Standards.

Map Date: 7/18/2024
Projection: NAD 1983 State Plane New York East
Source: WSP; ESRI

NEW YORK STATE Department of Environmental Conservation

Figure 5
Sediment Analytical Results
PAH Detections
Saranac Lake Gas Co., Inc.
(NYSDEC Site No. 516008)
Saranac Lake, New York

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Appendix A

Daily Field Reports

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NYSDEC
Division of Environmental Remediation

NEW YORK STATE | Department of Environmental Conservation

Contract No. D009806
DEC PM – J. Stefansky
Engineer PM – J. Oliver
Engineer Insp. – K. Cassidy

Site Location: Payeville Lane, Saranac Lake, New York 12983

Weather Conditions

General Description	Rainy	AM	Rainy	PM
Temperature	72 F	AM	66 F	PM
Wind	SW 6 MPH	AM	SW 6 MPH	PM

Health & Safety
If any box below is checked "Yes", provide explanation under "Health & Safety Comments".

Were there any changes to the Health & Safety Plan?	*Yes	No X	NA
Were there any exceedances of the perimeter air monitoring reported on this date?	*Yes	No	NA X
Were there any nuisance issues reported/observed on this date?	*Yes	No X	NA

Health & Safety Comments

Use caution in wet areas; slips, trips, and falls; ticks.

Summary of Work Performed	Arrived at site:	0900	Departed Site:	1715

EA (K. Cassidy, M. Gilkey, and P. Coles-Carruthers) arrive onsite (0900). EA calibrates Horibas. (0915). EA begins gauging wells (0945) Noticed fuel odor while gauging MW-110R and MW-108R. EA begins purging MW-205S (1113). EA begins purging MW-204S (1121). EA collected sample + field duplicate at MW-205S (1142). EA collected sample + MS/MSD at MW-204S (1206). EA begins purging MW-205D (1214). EA begins purging MW-204D; EA collected sample at MW-205D (1241).

Well development: [M. Gilkey begins development of MW-106R. DTW 5.16 ft bTOC and DTB 17.05ft bTOC. Flow rate started at 0.40 L/min. Agitating every minute by moving tubing up and down in well. One well volume is 0.485 gals, three well volumes is 1.455 gals. (1257). Change flow rate to 0.7 L/min (14.8 L to this point have been purged). Heavy sediment and debris were being purged into the bucket (1334). Turned pump off to trouble shoot at other wells set up. 22.5 L have been purged at this point (1345). Turned pump back on at flow rate 0.7 L/min. More sediment and debris being purged. Agitating approximately every 3 – 5 minutes (1351). Purge water still has color and odor but no longer contains debris or significant sediment. Flow rate is still 0.7 L/min (1420). End development. Water still has color and odor but no noticeable sediment. Total purge volume is 53.3 L. (14.08 gals). The new DTB is 17.37 ft bTOC. The bottom is now hard when gauged. Water level only dropped to 5.46 ft bTOC during development (1435).]

EA collected sample at MW-204D (1358). EA begins purging MW-110R (1522) Water purged MW-110R is found to have consistently strong gasoline odor and dark yellow/brown coloration throughout time purged. Thin, loose globules of potential product found in water purged. Globules seem to suspend in water. Purge water highly turbid (400-500 NTU). All purge water is disposed of through carbon filtration bucket during purge. EA collected sample at MW-110R (1634). EA collected sample at SW-403 (1710). EA offsite (1715).

Equipment/Material Tracking
If any box below is checked "Yes", provide explanation under "Material Tracking Comments".

Were there any vehicles which did not display proper D.O.T numbers and placards?	*Yes	No X	NA
Were there any vehicles which were not tarped?	* Yes	No	NA X
Were there any vehicles which were not decontaminated prior to exiting the work site?	* Yes	No	NA X

Personnel and Equipment

Individual	Company	Trade	Total Hours
Katie Cassidy	EA	Scientist	8
Moriah Gilkey	EA	Scientist	8
Philomena Coles-Carruthers	EA	Scientist	8

Equipment Description	Contractor/Vendor	Quantity	Used
Peristatic Pump	Pine Environmental	2	2
Horiba U-52	Pine Environmental	2	2
Water Level Meter	Pine Environmental	2	2

Material Description	Imported/ Delivered to Site	Exported off Site	Waste Profile (If Applicable)	Source or Disposal Facility (If Applicable)	Daily Loads	Daily Weight (tons)*

Equipment/Material Tracking Comments:

Visitors to Site

Name	Representing	Entered Exclusion/CRZ Zone	
		Yes	**No**
		Yes	**No**

Site Representatives

Name	Representing
None	

Project Schedule Comments

None.

Issues Pending

- None

Interaction with Public, Property Owners, Media, etc.

None

Include (insert) figures with markups showing location of work and job progress

Site Photographs (Descriptions Below)

PZ-PV1

Setup at MW-204D

Brandy Brook flowing, high due to rain

Buckets of redevelopment water from MW-106R

Water purged from MW-110R in sample bottle

Tubing from MW-110R with product residue

Tubing from MW-110R with product residue

Setup at MW-110R

Sampling location, SW-403, OU3 Lake Flower

WELL MONITORING TABLE:

Well ID	DTW	DTB	Notes
MW-204S	13.10	28.22	Sampled + MS/MSD
MW-204D	13.51	31.49	Sampled
MW-205S	11.98	19.61	Sampled + FD
MW-205D	11.96	33.23	Sampled
MW-110R	12.44	21.04	Sampled
MW-108R	13.67	21.93	
MW-106R	5.16	17.05	
PZ-PV1	9.05	14.49	
PZ-PV2	5.43	17.47	

Site Inspector(s): Katie Cassidy	**Date: 8/8/23**

Videos of discreet operations have been provided to the DEC Project Manager to facilitate understanding of the ongoing work? Yes ☐ No ☐ N/A ☒

REMEDIAL ACTIVITIES AT PROPERTIES

1. Does anyone at this location have any symptoms of a respiratory infection (e.g., cough, sore throat, fever, or shortness of breath)?	Yes ☐	No ☒
2. Have anyone at this location been tested and confirmed to have COVID-19?	Yes ☐	No ☒
3. Were personal protective gloves, masks, and eye protection being used?	Yes ☐	No ☒
4. Does the Department and its contractors have your permission to enter the property at this time?	Yes ☐	No ☐
5. If Yes to 1 or 2, follow the latest NYSDOH COVID-19 guidance: https://coronavirus.health.ny.gov/home	Yes ☐	No ☐
Comments: N/A		

ON-SITE WASTE STORAGE

Drums, roll offs and piles are staged in secure areas?	Yes ☐	No ☐	N/A☒
Liners and berms have been installed if necessary to prevent cross contamination of clean areas?	Yes ☐	No ☐	N/A☒
Containers are in good condition or properly overpacked?	Yes ☐	No ☐	N/A☒
Waste materials are scheduled to be properly characterized and disposed of prior to demobilization?	Yes ☐	No ☐	N/A☒
Complying with RCRA 90 day storage limitation for hazardous waste?	Yes ☐	No ☐	N/A☒
Piles are securely covered when not in use?	Yes ☐	No ☐	N/A☒
Containers are closed when not in use?	Yes ☐	No ☐	N/A☒
Staging areas should be inspected periodically and any issues addressed immediately?	Yes ☐	No ☐	N/A☒
Signage and labeling comply with RCRA requirements for all staging areas and containers?	Yes ☐	No ☐	N/A☒
If any issues noted, has Contractor been notified?	Yes ☐	No ☐	N/A☒
Comments:			

NUISANCE CHECKLIST

Were there any community complaints related to work on this date?	Yes ☐	No ☒	N/A☐
Were there any odors detected on this date?	Yes ☐	No ☒	N/A☐
Was noise outside specification and/or above background on this date?	Yes ☐	No ☒	N/A☐
Were vibration readings outside specification and/or above background on this date?	Yes ☐	No ☐	N/A☒
Any visible dust observed beyond the work perimeter on this date?	Yes ☐	No ☐	N/A☒
Any visible contrast (turbidity) beyond engineering controls observed on this date?	Yes ☐	No ☐	N/A☒
Was turbidity checked at the outfall(s)?	AM ☐	PM ☐	N/A☒
Were any property owners NOT provided advance notice for work performed on this property on this date?	Yes ☐	No ☐	N/A☒

Was the temporary fabric structure closed at the end of the day?	Yes ☐	No ☐	N/A☒
Has Contractor failed to protect all foundations and structures adjacent to and adjoining the site which are affected by the excavations or other operations connected with performance of the Work?	Yes ☐	No ☐	N/A☒
If yes, has Contractor been notified?	Yes ☐	No ☐	N/A☒
Comments: N/A			

RESILIENCE/GREEN REMEDIATION CHECKLIST

Is site power procured from renewable energy sources (e.g., solar, wind, geothermal, biomass and biogas)?	Yes ☐	No ☐	N/A☒
Is the Contractor employing 2007 or newer or retrofitted (BART*) diesel on-road trucks and non-road equipment?	Yes ☐	No ☐	N/A☒
Is vehicle idling adequately reduced per 6NYCRR Part 217-3?	Yes ☐	No ☐	N/A☒
Have equipment operators been trained in the idling requirements of 6NYCRR Part 217-3?	Yes ☐	No ☐	N/A☒
Is BART-equipped equipment properly maintained and working?	Yes ☐	No ☐	N/A☒
Is work being sequenced to avoid double handling?	Yes ☐	No ☐	N/A☒
Is there an onsite recycling program for CONTRACTOR-generated wastes and is it complied with?	Yes ☐	No ☐	N/A☒
Are office trailer heating and cooling systems maintained at efficient set points, have programable thermostats been installed?	Yes ☐	No ☐	N/A☒
Are products and materials used in performance of the work appropriately certified (e.g., LEED, Energy Star, Sustainable Forestry Initiative®, etc.)?	Yes ☐	No ☐	N/A☒
Are resiliency features included in the design, or completed remedy properly installed and/or maintained (flood control, storm water controls, erosion measures, etc.)?	Yes ☐	No ☐	N/A☒
Are green remediation elements included in the design, or completed remedy properly installed and/or maintained (e.g., porous pavement, geothermal, variable speed drives, native plantings, natural stream bank restoration, etc.)?	Yes ☐	No ☐	N/A☒
Has Contractor been notified of any deficiencies?	Yes ☐	No ☐	N/A☒
Are remote/call in job meetings being held in lieu of meeting in person where possible?	Yes ☐	No ☐	N/A☒
Comments: N/A			

* BART – Best Available Retrofit Technology

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NYSDEC
Division of Environmental Remediation

NEW YORK STATE | Department of Environmental Conservation

Contract No. D009806
DEC PM – J. Stefansky
Engineer PM – J. Oliver
Engineer Insp. – K. Cassidy

Site Location: Payeville Lane, Saranac Lake, New York 12983

Weather Conditions

General Description	Cloudy	AM	Partly cloudy	PM
Temperature	60 F	AM	73 F	PM
Wind	SE 7 MPH	AM	SE 7 MPH	PM

Health & Safety
If any box below is checked "Yes", provide explanation under "Health & Safety Comments".

Were there any changes to the Health & Safety Plan?	*Yes	No X	NA
Were there any exceedances of the perimeter air monitoring reported on this date?	*Yes	No	NA X
Were there any nuisance issues reported/observed on this date?	*Yes	No X	NA

Health & Safety Comments

Use caution in wet areas; slips, trips, and falls.

Summary of Work Performed	Arrived at site:	0710	Departed Site:	1230

EA (K. Cassidy, M. Gilkey, and P. Coles-Carruthers) arrive onsite (0710). EA calibrates Horibas. (0715). EA begins purging MW-108R (0823). EA begins purging MW-104 (0830). Sampled MW-108R (0847). Sampled MW-104 (0906). EA begins purging MW-106R (0913). Sampled MW-106R (0952). Begin purging redevelopment water from MW-106R through carbon bucket. Spoke to Josh Oliver regarding concerns with sampling surface water and sediment due to high creek after rain event. Decided to postpone SW/SD sampling to a later date following a dry period (1000). Finish purging development water. Clean up all equipment (1045). M. Gilkey offsite (1100). K. Cassidy and P. Coles-Carruthers take site walk to take photos/complete site inspection (1100). DEC (J. Stefansky, J. Dyber) arrive onsite. Take site walk from OU1 to OU3 and back. Discuss remedial action that took place, engineering controls onsite, and current site investigation activities (1130). Everyone offsite (1230).

Equipment/Material Tracking
If any box below is checked "Yes", provide explanation under "Material Tracking Comments".

Were there any vehicles which did not display proper D.O.T numbers and placards?	*Yes	No X	NA
Were there any vehicles which were not tarped?	* Yes	No	NA X
Were there any vehicles which were not decontaminated prior to exiting the work site?	* Yes	No	NA X

Personnel and Equipment

Individual	Company	Trade	Total Hours
Katie Cassidy	EA	Scientist	4.5
Moriah Gilkey	EA	Scientist	3
Philomena Coles-Carruthers	EA	Scientist	4.5
Jasmine Stefansky	NYSDEC	Geologist/PM	1
Jeffrey Dyber	NYSDEC	Engineer	1

Equipment Description	Contractor/Vendor	Quantity	Used
Peristatic Pump	Pine Environmental	2	2
Horiba U-52	Pine Environmental	2	2
Water Level Meter	Pine Environmental	2	2

Material Description	Imported/ Delivered to Site	Exported off Site	Waste Profile (If Applicable)	Source or Disposal Facility (If Applicable)	Daily Loads	Daily Weight (tons)*

Equipment/Material Tracking Comments:

Visitors to Site

Name	Representing	Entered Exclusion/CRZ Zone	
		Yes	**No**
		Yes	**No**

Site Representatives	
Name	**Representing**
None	

Project Schedule Comments

None.

Issues Pending

- None

Interaction with Public, Property Owners, Media, etc.

None

Include (insert) figures with markups showing location of work and job progress

Site Photographs (Descriptions Below)

Setup at MW-104

Tubing from MW-106R

Japanese knotweed

Japanese knotweed

WELL MONITORING TABLE:

Well ID	DTW	DTB	Notes
MW-204S	13.10	28.22	
MW-204D	13.51	31.49	
MW-205S	11.98	19.61	
MW-205D	11.96	33.23	
MW-110R	12.44	21.04	
MW-108R	13.67	21.93	
MW-106R	5.16	17.05	
MW-104	5.74	18.85	
PZ-PV1	9.05	14.49	
PZ-PV2	5.43	17.47	

Site Inspector(s): Katie Cassidy	**Date: 8/9/23**

Videos of discreet operations have been provided to the DEC Project Manager to facilitate understanding of the ongoing work? Yes ☐ No ☐ N/A ☒

REMEDIAL ACTIVITIES AT PROPERTIES

1. Does anyone at this location have any symptoms of a respiratory infection (e.g., cough, sore throat, fever, or shortness of breath)?	Yes ☐	No ☒
2. Have anyone at this location been tested and confirmed to have COVID-19?	Yes ☐	No ☒
3. Were personal protective gloves, masks, and eye protection being used?	Yes ☐	No ☒
4. Does the Department and its contractors have your permission to enter the property at this time?	Yes ☐	No ☐
5. If Yes to 1 or 2, follow the latest NYSDOH COVID-19 guidance: https://coronavirus.health.ny.gov/home	Yes ☐	No ☐
Comments: N/A		

ON-SITE WASTE STORAGE

Drums, roll offs and piles are staged in secure areas?	Yes ☐	No ☐	N/A☒
Liners and berms have been installed if necessary to prevent cross contamination of clean areas?	Yes ☐	No ☐	N/A☒
Containers are in good condition or properly overpacked?	Yes ☐	No ☐	N/A☒
Waste materials are scheduled to be properly characterized and disposed of prior to demobilization?	Yes ☐	No ☐	N/A☒
Complying with RCRA 90 day storage limitation for hazardous waste?	Yes ☐	No ☐	N/A☒
Piles are securely covered when not in use?	Yes ☐	No ☐	N/A☒
Containers are closed when not in use?	Yes ☐	No ☐	N/A☒
Staging areas should be inspected periodically and any issues addressed immediately?	Yes ☐	No ☐	N/A☒
Signage and labeling comply with RCRA requirements for all staging areas and containers?	Yes ☐	No ☐	N/A☒
If any issues noted, has Contractor been notified?	Yes ☐	No ☐	N/A☒
Comments:			

NUISANCE CHECKLIST

Were there any community complaints related to work on this date?	Yes ☐	No ☒	N/A☐
Were there any odors detected on this date?	Yes ☐	No ☒	N/A☐
Was noise outside specification and/or above background on this date?	Yes ☐	No ☒	N/A☐
Were vibration readings outside specification and/or above background on this date?	Yes ☐	No ☐	N/A☒
Any visible dust observed beyond the work perimeter on this date?	Yes ☐	No ☐	N/A☒
Any visible contrast (turbidity) beyond engineering controls observed on this date?	Yes ☐	No ☐	N/A☒
Was turbidity checked at the outfall(s)?	AM ☐	PM ☐	N/A☒
Were any property owners NOT provided advance notice for work performed on this property on this date?	Yes ☐	No ☐	N/A☒

Was the temporary fabric structure closed at the end of the day?	Yes ☐	No ☐	N/A☒
Has Contractor failed to protect all foundations and structures adjacent to and adjoining the site which are affected by the excavations or other operations connected with performance of the Work?	Yes ☐	No ☐	N/A☒
If yes, has Contractor been notified?	Yes ☐	No ☐	N/A☒
Comments: N/A			

RESILIENCE/GREEN REMEDIATION CHECKLIST

Is site power procured from renewable energy sources (e.g., solar, wind, geothermal, biomass and biogas)?	Yes ☐	No ☐	N/A☒
Is the Contractor employing 2007 or newer or retrofitted (BART*) diesel on-road trucks and non-road equipment?	Yes ☐	No ☐	N/A☒
Is vehicle idling adequately reduced per 6NYCRR Part 217-3?	Yes ☐	No ☐	N/A☒
Have equipment operators been trained in the idling requirements of 6NYCRR Part 217-3?	Yes ☐	No ☐	N/A☒
Is BART-equipped equipment properly maintained and working?	Yes ☐	No ☐	N/A☒
Is work being sequenced to avoid double handling?	Yes ☐	No ☐	N/A☒
Is there an onsite recycling program for CONTRACTOR-generated wastes and is it complied with?	Yes ☐	No ☐	N/A☒
Are office trailer heating and cooling systems maintained at efficient set points, have programable thermostats been installed?	Yes ☐	No ☐	N/A☒
Are products and materials used in performance of the work appropriately certified (e.g., LEED, Energy Star, Sustainable Forestry Initiative®, etc.)?	Yes ☐	No ☐	N/A☒
Are resiliency features included in the design, or completed remedy properly installed and/or maintained (flood control, storm water controls, erosion measures, etc.)?	Yes ☐	No ☐	N/A☒
Are green remediation elements included in the design, or completed remedy properly installed and/or maintained (e.g., porous pavement, geothermal, variable speed drives, native plantings, natural stream bank restoration, etc.)?	Yes ☐	No ☐	N/A☒
Has Contractor been notified of any deficiencies?	Yes ☐	No ☐	N/A☒
Are remote/call in job meetings being held in lieu of meeting in person where possible?	Yes ☐	No ☐	N/A☒
Comments: N/A			

* BART – Best Available Retrofit Technology

NYSDEC
Division of Environmental Remediation

NEW YORK STATE | Department of Environmental Conservation

Contract No. D009806
DEC PM – J. Stefansky
Engineer PM – J. Oliver
Engineer Insp. – K. Cassidy

Site Location: Payeville Lane, Saranac Lake, New York 12983

Weather Conditions

General Description	Fair	AM	Partly cloudy	PM
Temperature	73 F	AM	84 F	PM
Wind	Calm	AM	Calm	PM

Health & Safety
If any box below is checked "Yes", provide explanation under "Health & Safety Comments".

Were there any changes to the Health & Safety Plan?	*Yes	No X	NA
Were there any exceedances of the perimeter air monitoring reported on this date?	*Yes	No	NA X
Were there any nuisance issues reported/observed on this date?	*Yes	No X	NA

Health & Safety Comments

Use caution in and around moving water.

Summary of Work Performed	Arrived at site:	0915	Departed Site:	1230

EA (K. Cassidy, H. Bedell) arrive onsite (0915). Collect sample SW-400 + FD (0952). Collect sample SD-400 + MS/MSD (1002). Collect sample SW-401 + MS/MSD (1032). Collect sample SD-401 + FD (1045). Collect sample SW-402 (1140). Collect sample SD-402, sampling location moved slightly upstream due to insufficient volume of sediment at sampling point; figure with revised sample location attached (1150). Collect sample SW-403 (1220). EA offsite (1230).

Equipment/Material Tracking
If any box below is checked "Yes", provide explanation under "Material Tracking Comments".

Were there any vehicles which did not display proper D.O.T numbers and placards?	*Yes	No X	NA
Were there any vehicles which were not tarped?	* Yes	No	NA X
Were there any vehicles which were not decontaminated prior to exiting the work site?	* Yes	No	NA X

Personnel and Equipment

Individual	Company	Trade	Total Hours
Katie Cassidy	EA	Scientist	3.25
Hannah Bedell	EA	Engineer	3.25

Equipment Description	Contractor/Vendor	Quantity	Used

Material Description	Imported/ Delivered to Site	Exported off Site	Waste Profile (If Applicable)	Source or Disposal Facility (If Applicable)	Daily Loads	Daily Weight (tons)*

Equipment/Material Tracking Comments:

Visitors to Site

Name	Representing	Entered Exclusion/CRZ Zone	
		Yes	**No**
		Yes	**No**

Site Representatives

Name	Representing

None	

Project Schedule Comments

None.

Issues Pending

- None

Interaction with Public, Property Owners, Media, etc.

None

Include (insert) figures with markups showing location of work and job progress

Site Photographs (Descriptions Below)

Newly paved Rail Trail – facing north

Newly paved rail trail – facing south

Japanese knotweed – sprayed with something?

Japanese knotweed – condition of leaves

Sampling at SW/SD-400

Sampling at SW/SD-401

SD-402 sampled here (upstream of original location)	SW-403 sample location
Site Inspector(s): Katie Cassidy	**Date: 9/6/23**

Videos of discreet operations have been provided to the DEC Project Manager to facilitate understanding of the ongoing work? Yes ☐ No ☐ N/A ☒

REMEDIAL ACTIVITIES AT PROPERTIES

1. Does anyone at this location have any symptoms of a respiratory infection (e.g., cough, sore throat, fever, or shortness of breath)?	Yes ☐	No ☒
2. Have anyone at this location been tested and confirmed to have COVID-19?	Yes ☐	No ☒
3. Were personal protective gloves, masks, and eye protection being used?	Yes ☐	No ☒
4. Does the Department and its contractors have your permission to enter the property at this time?	Yes ☐	No ☐
5. If Yes to 1 or 2, follow the latest NYSDOH COVID-19 guidance: https://coronavirus.health.ny.gov/home	Yes ☐	No ☐
Comments: N/A		

ON-SITE WASTE STORAGE

Drums, roll offs and piles are staged in secure areas?	Yes ☐	No ☐	N/A☒
Liners and berms have been installed if necessary to prevent cross contamination of clean areas?	Yes ☐	No ☐	N/A☒
Containers are in good condition or properly overpacked?	Yes ☐	No ☐	N/A☒
Waste materials are scheduled to be properly characterized and disposed of prior to demobilization?	Yes ☐	No ☐	N/A☒
Complying with RCRA 90 day storage limitation for hazardous waste?	Yes ☐	No ☐	N/A☒
Piles are securely covered when not in use?	Yes ☐	No ☐	N/A☒
Containers are closed when not in use?	Yes ☐	No ☐	N/A☒
Staging areas should be inspected periodically and any issues addressed immediately?	Yes ☐	No ☐	N/A☒
Signage and labeling comply with RCRA requirements for all staging areas and containers?	Yes ☐	No ☐	N/A☒
If any issues noted, has Contractor been notified?	Yes ☐	No ☐	N/A☒
Comments:			

NUISANCE CHECKLIST

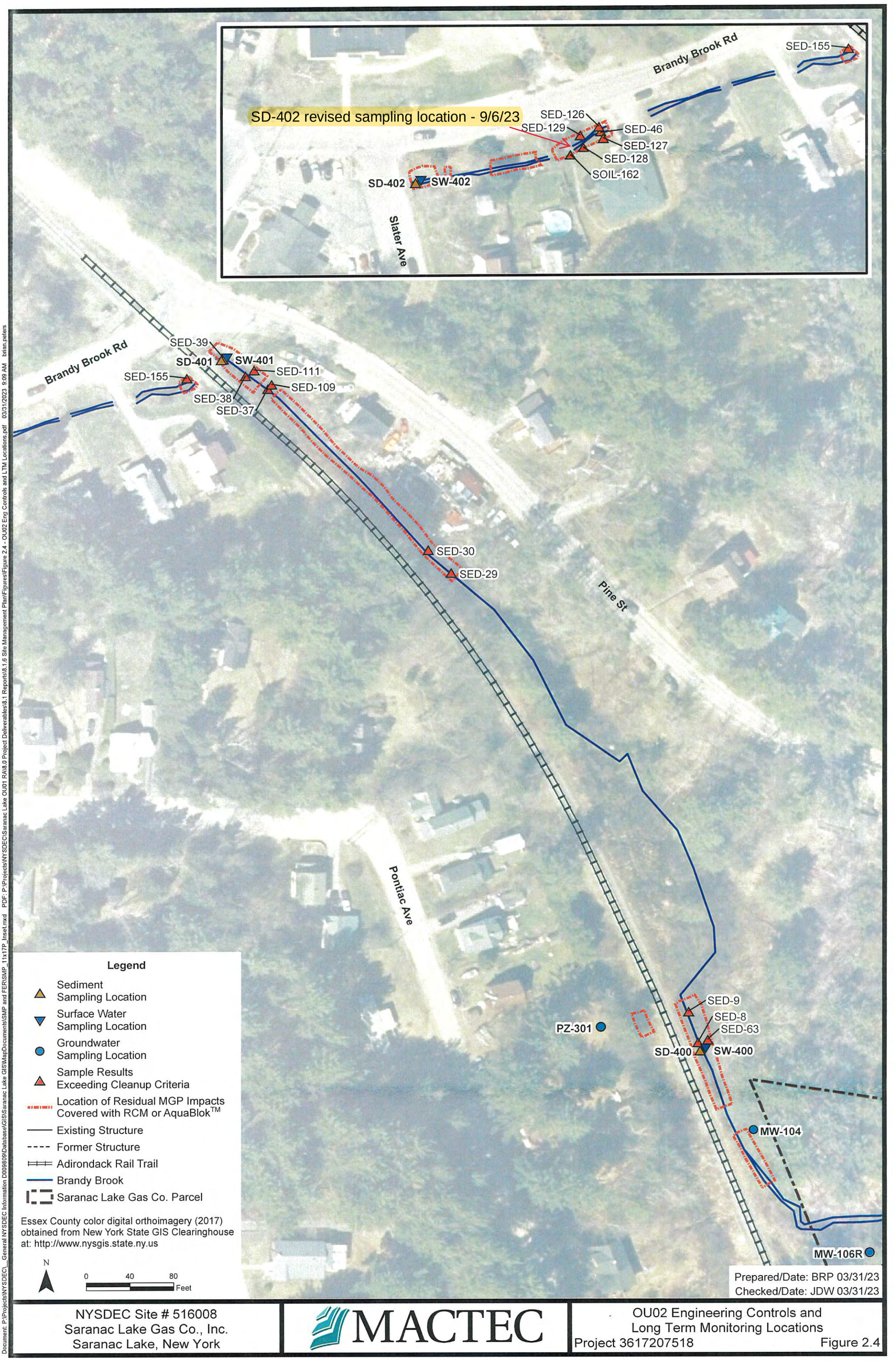
Were there any community complaints related to work on this date?	Yes ☐	No ☒	N/A☐
Were there any odors detected on this date?	Yes ☐	No ☒	N/A☐
Was noise outside specification and/or above background on this date?	Yes ☐	No ☒	N/A☐
Were vibration readings outside specification and/or above background on this date?	Yes ☐	No ☐	N/A☒
Any visible dust observed beyond the work perimeter on this date?	Yes ☐	No ☐	N/A☒
Any visible contrast (turbidity) beyond engineering controls observed on this date?	Yes ☐	No ☐	N/A☒
Was turbidity checked at the outfall(s)?	AM ☐	PM ☐	N/A☒
Were any property owners NOT provided advance notice for work performed on this property on this date?	Yes ☐	No ☐	N/A☒

Was the temporary fabric structure closed at the end of the day?	Yes ☐	No ☐	N/A☒
Has Contractor failed to protect all foundations and structures adjacent to and adjoining the site which are affected by the excavations or other operations connected with performance of the Work?	Yes ☐	No ☐	N/A☒
If yes, has Contractor been notified?	Yes ☐	No ☐	N/A☒
Comments: N/A			

RESILIENCE/GREEN REMEDIATION CHECKLIST

Is site power procured from renewable energy sources (e.g., solar, wind, geothermal, biomass and biogas)?	Yes ☐	No ☐	N/A☒
Is the Contractor employing 2007 or newer or retrofitted (BART*) diesel on-road trucks and non-road equipment?	Yes ☐	No ☐	N/A☒
Is vehicle idling adequately reduced per 6NYCRR Part 217-3?	Yes ☐	No ☐	N/A☒
Have equipment operators been trained in the idling requirements of 6NYCRR Part 217-3?	Yes ☐	No ☐	N/A☒
Is BART-equipped equipment properly maintained and working?	Yes ☐	No ☐	N/A☒
Is work being sequenced to avoid double handling?	Yes ☐	No ☐	N/A☒
Is there an onsite recycling program for CONTRACTOR-generated wastes and is it complied with?	Yes ☐	No ☐	N/A☒
Are office trailer heating and cooling systems maintained at efficient set points, have programable thermostats been installed?	Yes ☐	No ☐	N/A☒
Are products and materials used in performance of the work appropriately certified (e.g., LEED, Energy Star, Sustainable Forestry Initiative®, etc.)?	Yes ☐	No ☐	N/A☒
Are resiliency features included in the design, or completed remedy properly installed and/or maintained (flood control, storm water controls, erosion measures, etc.)?	Yes ☐	No ☐	N/A☒
Are green remediation elements included in the design, or completed remedy properly installed and/or maintained (e.g., porous pavement, geothermal, variable speed drives, native plantings, natural stream bank restoration, etc.)?	Yes ☐	No ☐	N/A☒
Has Contractor been notified of any deficiencies?	Yes ☐	No ☐	N/A☒
Are remote/call in job meetings being held in lieu of meeting in person where possible?	Yes ☐	No ☐	N/A☒
Comments: N/A			

* BART – Best Available Retrofit Technology



Document: P:\Projects\NYSDEC_General NYSDEC Information D009809\Database\GIS\Saranac Lake GIS\MapDocuments\SMP and FER\SMP_11x17P_Inset.mxd PDF: P:\Projects\NYSDEC\Saranac Lake OU01 RA\8.0 Project Deliverables\8.1 Reports\8.1.6 Site Management Plan\Figures\Figure 2.4 - OU02 Eng Controls and LTM Locations.pdf 03/31/2023 9:09 AM brian.peters

Appendix B

Field Forms

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FIELD CALIBRATION FORM
Horiba U-52
pH, CONDUCTIVITY, AND TURBIDITY

CALIBRATION	
DATE:	8/8/2023
TIME:	0915
METER ID:	15265

pH CALIBRATION

pH STANDARD	INITIAL READING	FINAL READING
4.0	3.83	3.89

CONDUCTIVITY CALIBARATION

CONDUCTIVITY STANDARD	STANDARD READING	FINAL READING
4.49	4.71	4.51

TURBIDITY CALIBRATION

STANDARD	INITIAL READING	FINAL READING
0 NTU	2.0	0.0

COMMENTS

SIGNATURE

FIELD CALIBRATION FORM
Horiba U-52
pH, CONDUCTIVITY, AND TURBIDITY

CALIBRATION
DATE: 8/9/23
TIME: 0725
METER ID: 21246

pH CALIBRATION

pH STANDARD	INITIAL READING	FINAL READING
4.0	4.04	4.00

CONDUCTIVITY CALIBARATION

CONDUCTIVITY STANDARD	STANDARD READING	FINAL READING
4.49	4.33	4.50

TURBIDITY CALIBRATION

STANDARD	INITIAL READING	FINAL READING
0 NTU	0.0	0.0

COMMENTS

SIGNATURE

FIELD CALIBRATION FORM
Horiba U-52
pH, CONDUCTIVITY, AND TURBIDITY

CALIBRATION
DATE: 8/9/23
TIME: 0725
METER ID: 48907

pH CALIBRATION

pH STANDARD	INITIAL READING	FINAL READING
4.0	5.18	3.93

CONDUCTIVITY CALIBARATION

CONDUCTIVITY STANDARD	STANDARD READING	FINAL READING
4.49	4.83	4.47

TURBIDITY CALIBRATION

STANDARD	INITIAL READING	FINAL READING
0 NTU	3.5	3.4

COMMENTS

SIGNATURE

Monitoring Well Gauging Log

Well ID	Date	Time	PID (ppb)	DTW (ft bgs)	DTB (ft bgs)	Well Diameter (in.)	Comments
MW-104	8/8/2023	1040	0	5.74	18.85	1	
MW-106R	8/8/2023	1042		5.16	17.05	1	
MW-108R	8/8/2023	955	0	13.67	21.93	1	fuel smell
MW-110R	8/8/2023	950	0	12.44	21.04	1	fuel smell
MW-204S	8/8/2023	1029		13.1	28.22	1	
MW-204D	8/8/2023	1029		13.51	31.49	1	
MW-205S	8/8/2023	1025		11.98	19.61	1	
MW-205D	8/8/2023	1024		11.96	33.23	1	
PZ-301						1	
PZ-PV1	8/8/2023	1019		9.05	14.49	1	
PZ-PV2	8/8/2023	945		5.43	17.47	1	

EA Engineering, P.C.
EA Science and Technology

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-104	EA Personnel: K. Cassidy	Client: NYSDEC
Location: Saranac Lake Gas Company, Inc. (516008)	Well Condition: Good	Weather: 60°F, cloudy
Sounding Method: Solinist-WLM	Gauge Date: 8/1	Measurement Ref: TOC
Stick Up/Down (ft): up, ~3ft.	Gauge Time:	Well Diameter (in): 1"

Purge Date: 8/9/2023	Purge Time: 0838
Purge Method: Low-flow peri pump	Field Technician: K. Cassidy

Well Volume

A. Well Depth (ft): 18.85	D. Well Volume (ft): 0.538	Depth/Height of Top of PVC: —
B. Depth to Water (ft): 5.74	E. Well Volume (gal) C*D: 1.613	Pump Type: peristaltic
C. Liquid Depth (ft) (A-B): 13.11	F. Three Well Volumes (gal) (E3): 4.84	Pump Intake Depth: mid-screen

Water Quality Parameters

Time (hrs)	Temperature (oC)	pH (pH units)	ORP (mV)	Conductivity (S/m)	Turbidity (ntu)	DO (mg/L)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
0838	15.44	5.98	-97	.175	63.8	2.76	5.74	0.25	
0843	14.67	6.17	-131	0.129	47.2	1.70	5.74	0.25	
0846	14.35	6.21	-139	0.123	38.8	1.45	5.74	0.25	
0839	14.01	6.24	-144	0.117	32.4	1.33	5.74	0.25	
0842	13.86	6.25	-148	0.114	32.5	1.38	5.74	0.25	
0845	13.72	6.25	-150	0.112	27.1	1.40	5.74	0.25	
0848	13.61	6.26	-153	0.111	20.5	1.24	5.74	0.25	
0851	13.58	6.27	-154	0.111	16.2	1.30	5.74	0.25	
0854	13.54	6.27	-156	0.111	11.5	1.35	5.74	0.25	
0857	13.52	6.27	-158	0.111	10.0	1.36	5.74	0.25	
0900	13.52	6.28	-160	0.111	0.0	1.30	5.74	0.25	
0903	13.53	6.28	-161	0.14	0.0	1.31	5.74	0.25	
0906	13.59	6.27	-162	0.111	0.0	1.31	5.74	0.25	

Total Quantity of Water Removed (gal):		Sampling Time:	0906
Samplers:	KC	Split Sample With:	—
Sampling Date:	8/9/2023	Sample Type:	grab

COMMENTS AND OBSERVATIONS:

EA Engineering, P.C.
EA Science and Technology

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

~~GROUNDWATER SAMPLING PURGE~~ Development FORM

Well I.D.: MW-106R	EA Personnel: M. Gilkey	Client: NYSDEC
Location: Saranac Lake Gas Company, Inc. (516008)	Well Condition:	Weather:
Sounding Method:	Gauge Date:	Measurement Ref:
Stick Up/Down (ft):	Gauge Time:	Well Diameter (in): 1" PVC

Purge Date:	Purge Time:
Purge Method:	Field Technician:

Well Volume

A. Well Depth (ft): 17.05	D. Well Volume (ft): 0.041	Depth/Height of Top of PVC: —
B. Depth to Water (ft): 5.16	E. Well Volume (gal) C*D: 0.489	Pump Type: Perristaltic
C. Liquid Depth (ft) (A-B): 11.89	F. Three Well Volumes (gal) (E3): 1.456	Pump Intake Depth:

Water Quality Parameters

Time (hrs)	Temperature (oC)	pH (pH units)	ORP (mV)	Conductivity (S/m)	Turbidity (ntu)	DO (mg/L)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)	
1257	10.44	10.23	-211	0.922	366	9.86		0.4	0	0.40
1324								0.7	14.8	
1345	0	ft	—	—	—	—	—	—	~~14.8~~	0.70
1351								0.7	22.5	22.5
1420								0.7	42.8	
1435										
			DTB 17.37							
			DTW 5.46							

Total Quantity of Water Removed (gal):		Sampling Time:	
Samplers:		Split Sample With:	
Sampling Date:		Sample Type:	

COMMENTS AND OBSERVATIONS:

EA Engineering, P.C.
EA Science and Technology

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-106R	EA Personnel: M. Gilkey / K. Cassidy	Client: NYSDEC
Location: Saranac Lake Gas Company, Inc. (516008)	Well Condition: Good	Weather: 62°F ; Partly Cloudy
Sounding Method: Solonist WLM	Gauge Date: 08/08/23	Measurement Ref: TOC
Stick Up/Down (ft): +3.5	Gauge Time: 0945	Well Diameter (in): 1" PVC

Purge Date: 8/9/23	Purge Time: 0913
Purge Method: low flow - peri pump	Field Technician: M. Gilkey / K. Cassidy

Well Volume

A. Well Depth (ft): 17.37	D. Well Volume (ft): 0.041	Depth/Height of Top of PVC:
B. Depth to Water (ft): 5.46	E. Well Volume (gal) C*D: 0.485	Pump Type: Peristaltic
C. Liquid Depth (ft) (A-B): 11.91	F. Three Well Volumes (gal) (E3): 1.46	Pump Intake Depth: (~15') mid-screen

Water Quality Parameters

Time (hrs)	Temperature (oC)	pH (pH units)	ORP (mV)	Conductivity (S/m)	Turbidity (ntu)	DO (mg/L)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
0913	15.73	7.45	-157	0.756	19.3	1.25	5.64	0.25	0
0916	15.68	8.10	-215	0.733	12.3	0.68			0.75
0919	15.67	8.28	-302	0.765	6.0	0.58			1.5
0922	15.66	8.38	-328	0.762	2.5	0.52			2.25
0925	15.61	8.45	-355	0.759	0.6	0.48			3.0
0928	15.61	8.48	-375	0.756	0.0	0.45			3.75
0931	15.67	8.49	-384	0.755	0.0	0.44			4.5
0934	15.69	8.53	-396	0.748	0.0	0.42			5.25
0937	15.67	8.54	-403	0.747	0.0	0.41			6.0
0940	15.65	8.55	-410	0.747	0.0	0.40			6.75
0943	15.70	8.55	-415	0.747	0.0	0.39			7.5
0946	15.75	8.56	-420	0.747	0.0	0.38			8.25
0949	15.76	8.56	-424	0.747	0.0	0.38			9.0
0952	15.73	8.55	-427	0.746	0.0	0.37			

Total Quantity of Water Removed (gal):		Sampling Time:	0952
Samplers:	M. Gilkey / K. Cassidy	Split Sample With:	X
Sampling Date:	08/09/23	Sample Type:	GRAB

COMMENTS AND OBSERVATIONS: fuel odor; slight orange brown color to purge water

Sample ID: 516008-MW-106R
Analysis: PAH

EA Engineering, P.C.
EA Science and Technology

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-108R	EA Personnel: M. Gilkey / K. Cassidy	Client: NYSDEC
Location: Saranac Lake Gas Company, Inc. (516008)	Well Condition: Good	Weather: 62°F ; Partly Cloudy
Sounding Method: SolinistWLM	Gauge Date: 08/08/23	Measurement Ref: TOC
Stick Up/Down (ft): +3.5	Gauge Time: 0945	Well Diameter (in): 1" PVC

Purge Date: 8/9/23	Purge Time: 0823
Purge Method: Low flow - Peri pump	Field Technician: M. Gilkey / K. Cassidy

Well Volume

A. Well Depth (ft): 21.93	D. Well Volume (ft): 0.041	Depth/Height of Top of PVC:
B. Depth to Water (ft): 13.67	E. Well Volume (gal) C*D: 0.337	Pump Type: Peristaltic Pump
C. Liquid Depth (ft) (A-B): 8.26	F. Three Well Volumes (gal) (E3): 3.827	Pump Intake Depth: mid-screen

Water Quality Parameters

Time (hrs)	Temperature (oC)	pH (pH units)	ORP (mV)	Conductivity (S/m)	Turbidity (ntu)	DO (mg/L)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
0823	13.68	5.15	216	0.241	502	8.55		0.25	0
826	13.10	5.68	137	0.238	175	8.32		|	0.75
829	12.90	5.84	125	0.240	45.1	8.33		|	1.5
832	12.72	5.91	121	0.240	9.6	8.37		|	2.25
835	12.105	5.97	118	0.241	0.0	8.30		|	3.0
838	12.63	6.00	117	0.241	0.0	8.33		|	3.75
841	12.54	6.03	116	0.240	0.0	8.39		|	4.5
844	12.50	6.06	115	0.240	0.0	8.42		|	5.25
847	12.51	6.07	115	0.240	0.0	8.42		|	6.0

Total Quantity of Water Removed (gal):	Sampling Time: 0847
Samplers: M. Gilkey / K. Cassidy	Split Sample With: No
Sampling Date: 8/9/23	Sample Type: Grab

COMMENTS AND OBSERVATIONS:

EA Engineering, P.C.
EA Science and Technology

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-110R	EA Personnel: M. Gilkey / K. Cassidy	Client: NYSDEC
Location: Saranac Lake Gas Company, Inc. (516008)	Well Condition:	Weather: 68°F, drizzle
Sounding Method: Solonist WLM	Gauge Date: 8/8/23	Measurement Ref:
Stick Up/Down (ft):	Gauge Time: 0950	Well Diameter (in): 1

Purge Date: 8/8/23	Purge Time: 1522
Purge Method: Low-flow peri pump	Field Technician: M. Gilkey / K. Cassidy

Well Volume

A. Well Depth (ft): 21.04	D. Well Volume (ft): 0.041	Depth/Height of Top of PVC:
B. Depth to Water (ft): 12.44	E. Well Volume (gal) C*D: 0.35	Pump Type: Peristaltic Pump
C. Liquid Depth (ft) (A-B): 8.6	F. Three Well Volumes (gal) (E3): 1.06	Pump Intake Depth: mid-screen

Water Quality Parameters

Time (hrs)	Temperature (oC)	pH (pH units)	ORP (mV)	Conductivity (S/m)	Turbidity (ntu)	DO (mg/L)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1522	16.30	8.28	-318	1.31	367	0.66		0.25	
1525	15.59	8.11	-316	1.31	359	0.51		0.25	
1528	15.22	8.07	-327	1.30	359	0.40		0.25	
1531	15.13	8.06	-333	1.29	383	0.38		0.25	
1534	15.13	8.05	-340	1.27	399	0.36		0.25	
1537	15.09	8.00	-345	1.26	402	0.33		0.25	
1540	15.02	8.04	-362	1.25	461	0.31		0.25	
1543	14.93	8.01	-375	1.24	427	0.30		0.25	
1546	14.89	7.96	-376	1.24	470	0.28		0.25	
1549	14.89	7.96	-377	1.24	473	0.28		0.25	
1552	15.02	7.95	-385	1.24	415	0.27		0.25	
1555	15.14	7.92	-390	1.24	478	0.27		0.25	
1558	14.88	7.92	-399	1.24	483	0.26		0.25	
1601	14.94	7.90	-406	1.24	465	0.25		0.25	

Total Quantity of Water Removed (gal):		Sampling Time:	1634
Samplers:	M. Gilkey / K. Cassidy	Split Sample With:	
Sampling Date:	8/8/23	Sample Type:	Grab

COMMENTS AND OBSERVATIONS:

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GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-110R	EA Personnel: M. Gilkey / K. Cassidy	Client: NYSDEC
Location: Saranac Lake Gas Company, Inc. (516008)	Well Condition:	Weather: 68°F, drizzle
Sounding Method: Solonist WLM	Gauge Date:	Measurement Ref:
Stick Up/Down (ft):	Gauge Time:	Well Diameter (in):

Purge Date: 8/8/23	Purge Time: 1522
Purge Method: Low-flow peri pump	Field Technician: M. Gilkey / K. Cassidy

Well Volume

A. Well Depth (ft): 21.04	D. Well Volume (ft):	Depth/Height of Top of PVC:
B. Depth to Water (ft): 12.44	E. Well Volume (gal) C*D):	Pump Type: Peristaltic Pump
C. Liquid Depth (ft) (A-B): 8.6	F. Three Well Volumes (gal) (E3):	Pump Intake Depth: mid-screen

Water Quality Parameters

Time (hrs)	Temperature (oC)	pH (pH units)	ORP (mV)	Conductivity (S/m)	Turbidity (ntu)	DO (mg/L)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1604	15.03	7.89	-110	1.24	513	0.25			
1607	15.03	7.87	-418	1.24	482	0.24			
1610	15.00	7.67	-423	1.25	487	0.24			
1613	14.97	7.67	-422	1.25	477	0.24			
1616	14.99	7.77	-425	1.25	452	0.24			
1619	15.09	7.87	-427	1.25	417	0.24			
1622	15.09	7.87	-429	1.24	419	0.23			
1625	15.00	7.86	-431	1.23	410	0.23			
1628	14.94	7.86	-433	1.23	399	0.23			
1631	14.93	7.86	-433	1.24	372	0.23			
1634	14.88	7.84	-434	1.24	360	0.23			

Total Quantity of Water Removed (gal):
Samplers: M. Gilkey / K. Cassidy
Sampling Date: 8/8/23

Sampling Time: 1634
Split Sample With:
Sample Type: Grab

COMMENTS AND OBSERVATIONS:

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EA Science and Technology

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GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-204S	EA Personnel: K. Cassidy	Client: NYSDEC
Location: Saranac Lake Gas Company, Inc. (516008)	Well Condition: Good	Weather: 68°F, drizzle
Sounding Method:	Gauge Date: 8/8/2023	Measurement Ref: TOC
Stick Up/Down (ft):	Gauge Time: 0945	Well Diameter (in): 1"

Purge Date: 8/8/2023	Purge Time: 1121
Purge Method:	Field Technician:

Well Volume

A. Well Depth (ft): 28.22	D. Well Volume (ft): 0.041	Depth/Height of Top of PVC: —
B. Depth to Water (ft): 13.10	E. Well Volume (gal) C*D: 0.620	Pump Type: Peristaltic pump
C. Liquid Depth (ft) (A-B): 15.12	F. Three Well Volumes (gal) (E3): 1.86	Pump Intake Depth: mid-screen

+- 0.1 +-10% +- 3% +-10%

Water Quality Parameters +-10%

Time (hrs)	Temperature (oC)	pH (pH units)	ORP (mV)	Conductivity (S/m)	Turbidity (ntu)	DO (mg/L)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1121	18.23	5.24	~~73~~ 114	0.224	32.0	5.08	13.11	0.25	
1124	~~17.24~~ 17.46	5.24	110	0.189	26.0	2.39			
1127	~~17.84~~ 17.17	5.24	108	0.187	27.4	2.12			
1130	~~16.96~~ 16.88	5.26	101	0.188	25.4	1.82			
1133	~~16.44~~ 16.59	5.29	93	0.188	22.8	1.60			
1136	16.37	5.31	92	0.187	18.0	1.48			
1139	16.16	5.32	91	0.183	18.1	1.39			
1142	15.98	5.33	90	0.182	14.9	1.33			
1145	15.87	5.36	90	0.180	13.8	1.26			
1148	15.79	5.35	88	0.178	9.8	1.19			
1151	15.73	5.36	87	0.178	8.0	1.17			
1154	15.65	5.35	87	0.178	4.9	1.15			
1157	15.62	5.37	87	0.177	7.3	1.17	13.11		
1200	15.54	5.38	86	0.175	4.8	1.12			
1203	15.44	5.37	86	0.176	5.4	1.12			
1206	15.42	5.38	86	0.175	5.0	1.08			

Total Quantity of Water Removed (gal):		Sampling Time:	1206
Samplers:		Split Sample With:	
Sampling Date:		Sample Type:	

COMMENTS AND OBSERVATIONS:

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GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-204D	EA Personnel: K. Cassidy	Client: NYSDEC Saranac Lake Gas
Location: Saranac Lake Gas Company, Inc. (516008)	Well Condition:	Weather:
Sounding Method: Solonist WLM	Gauge Date: 8/8/2023	Measurement Ref:
Stick Up/Down (ft):	Gauge Time:	Well Diameter (in): 1"

Purge Date: 8/8/23	Purge Time: 1241
Purge Method: Low flow peri pump	Field Technician: M. Grikey / K. Cassidy

Well Volume

A. Well Depth (ft): 31.49	D. Well Volume (ft): 0.041	Depth/Height of Top of PVC:
B. Depth to Water (ft): 13.51	E. Well Volume (gal) C*D: 0.737	Pump Type: Perstaltic pump
C. Liquid Depth (ft) (A-B): 17.98	F. Three Well Volumes (gal) (E3): 2.21	Pump Intake Depth: mid-screen

Water Quality Parameters

Time (hrs)	Temperature (oC)	pH (pH units)	ORP (mV)	Conductivity (S/m)	Turbidity (ntu)	DO (mg/L)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1241	15.63	5.76	-20	0.245	359	1.76			
1244	14.25	5.78	-25	0.255	276	1.23			
1247	14.10	5.79	-26	0.256	261	1.18			
1250	13.89	5.80	-30	0.257	197	1.10			
1253	13.69	5.82	-31	0.255	173	1.04			
1256	13.37	5.82	-34	0.259	160	0.91	14.71		
1259	13.36	5.83	-37	0.259	127	0.84			
1302	13.37	5.83	-37	0.259	126	0.81			
1305	13.42	5.83	-37	0.260	112	0.77			
1308	13.47	5.84	-37	0.260	99.9	0.75			
1311	13.42	5.84	-38	0.261	96.3	0.73			
1314	13.42	5.84	-39	0.261	93.8	0.73			
1317	13.44	5.84	-40	0.260	69.2	0.70			
1320	13.28	5.85	-40	0.264	55.3	0.69	13.54		
1323	13.20	5.84	-40	0.261	53.5	0.69			
1326	13.20	5.84	-41	0.261	49.5	0.69			
1329	13.19	5.85	-42	0.261	56.0	0.67			

Total Quantity of Water Removed (gal):		Sampling Time:	1358
Samplers:		Split Sample With:	
Sampling Date:		Sample Type:	

COMMENTS AND OBSERVATIONS:

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GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-204D	EA Personnel: K. Cassidy	Client: NYSDEC
Location: Saranac Lake Gas Company, Inc. (516008)	Well Condition:	Weather:
Sounding Method:	Gauge Date: 8/8/2023	Measurement Ref:
Stick Up/Down (ft):	Gauge Time:	Well Diameter (in):

Purge Date: 8/8/2023	Purge Time: 1241
Purge Method: Low flow peri pump	Field Technician: M. Grikey / K. Cassidy

Well Volume

A. Well Depth (ft): 31.49	D. Well Volume (ft):	Depth/Height of Top of PVC:
B. Depth to Water (ft): 13.51	E. Well Volume (gal) C*D):	Pump Type: peristaltic pump
C. Liquid Depth (ft) (A-B): 17.98	F. Three Well Volumes (gal) (E3):	Pump Intake Depth: mid-screen

Water Quality Parameters

Time (hrs)	Temperature (oC)	pH (pH units)	ORP (mV)	Conductivity (S/m)	Turbidity (ntu)	DO (mg/L)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1332	13.09	5.86	-42	0.261	58.9	0.67			
1335	13.01	5.86	-42	0.261	55.7	0.67			
1338	12.95	5.86	-43	0.262	48.6	0.66			
1349	13.11	5.91	-43	0.260	33.0	0.67			
1352	13.10	5.87	-43	0.261	30.2	0.64			
1355	13.06	5.86	-43	0.261	30.1	0.64			
1358	13.11	5.84	-43	0.262	29.8	0.62			

Horiba U52 ←

Total Quantity of Water Removed (gal):	Sampling Time: 1358
Samplers:	Split Sample With:
Sampling Date:	Sample Type:

COMMENTS AND OBSERVATIONS:

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GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-205D	EA Personnel: M. Gilkey / K. Cassidy	Client: NYSDEC (Saranac Lake Gas)
Location: Saranac Lake Gas Company, Inc. (516008)	Well Condition: Good	Weather: 65°F; Rain; 5mph wind
Sounding Method:	Gauge Date: 08/08/23	Measurement Ref: TOC
Stick Up/Down (ft): ~4ft	Gauge Time: 0945	Well Diameter (in): 1" PVC

Purge Date: 08/08/23	Purge Time: 1214
Purge Method: Low-flow peristaltic pump	Field Technician: M. Gilkey / K. Cassidy

Well Volume

A. Well Depth (ft): 33.23	D. Well Volume (ft):	Depth/Height of Top of PVC:
B. Depth to Water (ft): 11.96	E. Well Volume (gal) C*D):	Pump Type: Peristaltic Pump
C. Liquid Depth (ft) (A-B): 21.27	F. Three Well Volumes (gal) (E3):	Pump Intake Depth: Mid-screen

Water Quality Parameters

Time (hrs)	Temperature (oC)	pH (pH units) ✓	ORP (mV) ✓	Conductivity (S/m) ✓	Turbidity (ntu) ✓	DO (mg/L) ✓	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1214	13.07	6.00	-81	0.240	14.8	6.23	*	0.28	0
1217	12.66	6.17	-97	0.246	0.0	0.86			0.84
1220	12.32	6.17	-97	0.248	0.0	0.63			1.68
1223	12.30	6.06	-93	0.248	0.0	0.57			2.52
1226	12.12	6.05	-94	0.248	0.0	0.52			3.36
1229	11.84	6.08	-97	0.248	0.0	0.47			4.20
1232	11.73	6.11	-99	0.248	0.0	0.45			5.04
1235	11.66	6.13	-101	0.248	0.0	0.44			5.88
1238	11.82	6.13	-101	0.248	0.0	0.42			6.72
1241	11.86	6.13	-101	0.249	0.0	0.41			

Total Quantity of Water Removed (gal):		Sampling Time:	1241
Samplers:	M. Gilkey / K. Cassidy	Split Sample With:	NO
Sampling Date:	08/08/23	Sample Type:	GRAB

COMMENTS AND OBSERVATIONS:

Sample ID: 516008-MW-205D
Analysis: PAH

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GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-205S	EA Personnel: M. Gilkey / K. Cassidy	Client: NYSDEC (Saranac Lake Gas)
Location: Saranac Lake Gas Company, Inc. (516008)	Well Condition: Good	Weather: 66°F; Rain; 5mph WSW
Sounding Method: Solonist WLM	Gauge Date: 08/08/23	Measurement Ref: TOC
Stick Up/Down (ft): ~4ft	Gauge Time: 0950	Well Diameter (in): 1" PVC

Purge Date: 08/08/23	Purge Time: 1113
Purge Method: Low flow peri pump	Field Technician: M. Gilkey / K. Cassidy

Well Volume

A. Well Depth (ft): 19.61	D. Well Volume (ft): 0.041	Depth/Height of Top of PVC:
B. Depth to Water (ft): 11.98	E. Well Volume (gal) C*D: 0.313	Pump Type: Peristaltic Pump
C. Liquid Depth (ft) (A-B): 7.63	F. Three Well Volumes (gal) (E3): 0.938	Pump Intake Depth: Mid screen

Water Quality Parameters

Time (hrs)	Temperature (oC)	pH ✓ (pH units)	ORP ✓ (mV)	Conductivity ✓ (S/m)	Turbidity ✓ (ntu)	DO (mg/L)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1115	13.75	5.41	191	0.219	19.0	6.30	*	0.25	0
1118	13.92	5.58	183	0.209	3.5	2.60	*	0.25	0.75
1121	13.77	5.60	182	0.206	1.3	2.36	*	1	1.5
1124	13.67	5.41	196	0.203	0.0	2.22	*	1	2.25
1127	13.48	5.48	194	0.202	0.0	2.17	*		3.0
1130	13.45	5.36	202	0.201	0.0	2.15	*		3.75
1133	13.31	5.37	203	0.200	0.0	2.10	*		4.5
1136	13.29	5.38	203	0.200	0.0	2.10	*		5.25
1139	13.33	5.39	203	0.200	0.0	2.07	*		6.00
1142	13.33	5.38	203	0.200	0.0	2.12			
1145									

Total Quantity of Water Removed (gal):		Sampling Time:	1142
Samplers:	M. Gilkey / K. Cassidy	Split Sample With:	FD
Sampling Date:	08/08/23	Sample Type:	GRAB/low flow

COMMENTS AND OBSERVATIONS:

Sample ID:
Analysis:

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Sediment
~~SURFACE WATER~~ SAMPLE LOG

Job. No.	Client: NYSDEC Project: Saranac Lake Gas Co.	Location: SD-40D	
Sampling Location Description: Brandy Brook		Sample Location ID: 516008-SD-40D	
Sample Method:		Sheet 1 of 1	
Depth of Water Body:		Sampling Date/Time	
Width of Water Body:		Start	Finish
Water Body Location		DATE	DATE
		TIME	TIME

Coordinates: Northing: Easting:
Surface Water Elevation:
Reference Elevation:
Reference Description:

Surface Conditions:
Weather:
Description of ~~Surface Water~~ Sed.

Water Quality Parameters						
Time (hrs)	pH (pH units)	Cond. (mS/cm)	Turb. (ntu)	DO (mg/L)	Temp (°C)	ORP (mV)

Total Quantity of Water Removed (gal):
Samplers: KE
Sampling Date: 9/6/2023

Sampling Time: 1002
Split Sample With: MS/MSD
Sample Type: Comp

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SEDIMENT SAMPLE LOG

Coordinates: Northing: Easting:
Surface Water Elevation:
Reference Elevation:
Reference Description:

Job. No.	Client: NYSDEC Project: Saranac Lake Gas Co.	Location: SD-401
Sampling Location Description: Brady Brook		Sample Location ID: 516008-SD-401
Sample Method:		Sheet 1 of 1
Depth of Water Body:		Sampling Date/Time
Width of Water Body:		Start / Finish
Water Body Location		DATE / DATE
		TIME / TIME

	Water Quality Parameters							Surface Conditions: / Weather: / Description of Sediment Water
	Time (hrs)	pH (pH units)	Cond. (mS/cm)	Turb. (ntu)	DO (mg/L)	Temp (°C)	ORP (mV)	

Total Quantity of Water Removed (gal):
Samplers: AE
Sampling Date: 9/6/2023

Sampling Time: 1045
Split Sample With: FD
Sample Type: Comp.

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SEDIMENT SAMPLE LOG

Coordinates: Northing: Easting:
Surface Water Elevation:
Reference Elevation:
Reference Description:

Job. No.	Client: NYSDEC Project: Saranac Lake Gas Co.	Location: SD-402
Sampling Location Description: Brandy Brook		Sample Location ID: 516008-SD-402
Sample Method:		Sheet 1 of 1
Depth of Water Body:		Sampling Date/Time
Width of Water Body:		Start / Finish
Water Body Location	DATE / DATE	
	TIME / TIME	

Surface Conditions:
Weather:

	Water Quality Parameters							Description of Sediment Water
	Time (hrs)	pH (pH units)	Cond. (mS/cm)	Turb. (ntu)	DO (mg/L)	Temp (°C)	ORP (mV)	

Total Quantity of Water Removed (gal):
Samplers: KE
Sampling Date: 9/6/2023

Sampling Time: 1150
Split Sample With:
Sample Type: Comp.

* point moved approx. 30-40 ft upstream due to lack of sediment

Appendix G
Saranac Lake Gas Co., OU01, OU02 & OU03
Site Inspection Form

A. General Information

Inspector Name: Katie Cassidy
Inspection Date: 8/9/2023
Weather (AM/PM): Partly cloudy, 72°F, AM (1100)
Purpose for Inspection: Quarterly DEC requirement.

Comments: _____

B. Site Property (OU01)

The Site property is located at 24 Payeville Lane and encompasses the portion of the Site where in-situ solidification was conducted and a soil cover placed over it. Brandy Brook (OU02) is located North of the property and the property is surrounded by a perimeter fence.

	No	Yes
1. Are there any odors emanating from the site?	✓	
2. Are there bare, dead or damaged vegetated areas along the wetland at the north end of the site?	✓	
3. Is there any erosional damage to the slopes of the soil cover?	✓	
4. Is there any evidence of excavation or damage to the soil cover?	✓	
5. Is there visible damage to the perimeter fence?		✓
6. Is there visible damage to any of the monitoring wells?	✓	
7. Is there any ponding water on or around the soil cover?	✓	
8. Has any wildlife (terrestrial or aquatic) been observed?		✓
9 ~~10~~. Were any groundwater samples collected?		✓

If so, what is the sample ID(s)? 516008-MW-2055+FD, 516008-MW-2045+MS/MSD, 516008-MW-2055, 516008-MW-2040, 516008-MW-1012, 516008-MW-108R, 516008-MW-104, 516008-MW-1062.

Comments: (Please comment for each question answered "yes")

_____
_____
_____
_____

C. Brandy Brook (OU02)

OU02, Brandy Brook, extends from Pontiac Bay (culverted under Lake Flower Ave. and Slater Ave.) to OU01, or approximately 0.75 miles.

	No	Yes
1. Is there an increase in turbidity causing a visible contrast to natural conditions?	✓	
2. Is there residue from oil and/or floating substances, visible oil film, or globules or grease?	✓	
3. Are there any odors emanating from the brook?	✓	
4. Are culverts free of debris/blockages?		✓

D. Pontiac Bay (OU03)

Pontiac Bay is located in the northeastern portion of Lake Flower and encompasses the area east of the Lake Flower Boat Launch to the Brandy Brook culvert and south of the Lake Flower Boat Launch to the Fogarty's Lake Flower Marina.

	No	Yes
1. Is there an increase in turbidity causing a visible contrast to natural conditions?	✓	
2. Is there residue from oil and/or floating substances, visible oil film, or globules or grease?	✓	
3. Are there any odors emanating from the bay?	✓	
4. Are there bare, dead or damaged vegetated areas along bank?	✓	
5. Is there any erosional damage to the banks?	✓	
6. Is there any damage to structural retaining walls along banks?	✓	
7. Is there visible damage to the Aquablok® barrier layer?	✓	
8. Has any wildlife (terrestrial or aquatic) been observed?		✓
9. Were any surface water samples collected?	✓	

If so, what is the sample ID(s)? _____

Comments: (Please comment for each question answered "yes")

_____

_____

_____

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SURFACE WATER SAMPLE LOG

Coordinates:	Northing: Easting:
Surface Water Elevation:	
Reference Elevation:	
Reference Description:	

Job. No.	Client: NYSDEC Project: Saranac Lake Gas Co.	Location: SW-400
Sampling Location Description: 0002 Brandy Brook		Sample Location ID: 516008-SW-400
Sample Method: grab		Sheet 1 of 1
Depth of Water Body:		Sampling Date/Time
Width of Water Body:		Start / Finish
Water Body Location 0002 Brandy Brook		DATE / DATE
		TIME / TIME

	Water Quality Parameters							
	Time (hrs)	pH (pH units)	Cond. (mS/cm)	Turb. (ntu)	DO (mg/L)	Temp (°C)	ORP (mV)	Description of Surface Water
	0952	8.01	0.080	00	13.22	8.08	61	

Surface Conditions:
Weather:

Total Quantity of Water Removed (gal):
Samplers: KL
Sampling Date: 9/6/2023

Sampling Time: 0952
Split Sample With: FD
Sample Type: grab

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Surface water
~~SEDIMENT~~ SAMPLE LOG

Coordinates:	Northing: Easting:
Surface Water Elevation:	
Reference Elevation:	
Reference Description:	

Job. No.	Client: NYSDEC Project: Saranac Lake Gas Co.	Location: SW-401
Sampling Location Description: 0602 Brandy Brook		Sample Location ID: 516008-SW-401
Sample Method: Grab		Sheet 1 of 1
Depth of Water Body: J		Sampling Date/Time
Width of Water Body:		Start / Finish
Water Body Location Brandy Brook		DATE / DATE
		TIME / TIME

Surface Conditions:
Weather:

Water Quality Parameters							
Time (hrs)	pH (pH units)	Cond. (mS/cm)	Turb. (ntu)	DO (mg/L)	Temp (°C)	ORP (mV)	Description of Sediment Water
1032	6.01	0.031	0.0	1821	9.21	30	

Total Quantity of Water Removed (gal):
Samplers: KR
Sampling Date: 9/6/2023

Sampling Time: 1032
Split Sample With: MS/MSD
Sample Type: grab

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Surface water
~~SEDIMENT~~ SAMPLE LOG

Coordinates:	Northing: Easting:
Surface Water Elevation:	
Reference Elevation:	
Reference Description:	

Job. No.	Client: NYSDEC Project: Saranac Lake Gas Co.	Location: SW-402
Sampling Location Description: 0002 Brandy Brook		Sample Location ID: 516038-SW-402
Sample Method: grab		Sheet 1 of 1
Depth of Water Body:		Sampling Date/Time
Width of Water Body:		Start / Finish
Water Body Location Brandy Brook		DATE / DATE
		TIME / TIME

Water Quality Parameters							Surface Conditions:
Time	pH	Cond.	Turb.	DO	Temp	ORP	Weather:
(hrs)	(pH units)	(mS/cm)	(ntu)	(mg/L)	(°C)	(mV)	Description of Sediment Water
1140	8.21	0.072	00	11.30	9.22	6	

Total Quantity of Water Removed (gal):
Samplers: KL
Sampling Date: 9/6/2023

Sampling Time: 1140
Split Sample With:
Sample Type: grab

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Surface Water ~~SEDIMENT~~ SAMPLE LOG

Job. No.	Client: NYSDEC Project: Saranac Lake Gas Co.	Location: SW-403	
Sampling Location Description: OSD3 Lake Flower		Sample Location ID: 516058-SW-403	
Sample Method: Grab		Sheet 1 of 1	
Depth of Water Body:		Sampling Date/Time	
Width of Water Body:		Start	Finish
Water Body Location Lake Flower		DATE	DATE
		TIME	TIME

Coordinates: Northing: Easting:
Surface Water Elevation:
Reference Elevation:
Reference Description:

Water Quality Parameters							Surface Conditions:
Time	pH	Cond.	Turb.	DO	Temp	ORP	Weather:
(hrs)	(pH units)	(mS/cm)	(ntu)	(mg/L)	(°C)	(mV)	Description of Sediment Water
1220	7.21	0.121	00	12.21	7.25	16	

Total Quantity of Water Removed (gal):
Samplers: KC
Sampling Date: 9/6/2023

Sampling Time: 1226
Split Sample With: —
Sample Type: grab

Appendix C

Laboratory Reports