

Quarterly Groundwater, Surface Water and Sediment Sampling Report, Q2 (May 2023) Saranac Lake Gas Co. (516008) Saranac Lake, New York

Prepared for

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



Prepared by

EA Engineering, P.C., and Its Affiliate EA Science and Technology Washington Station 333 West Washington Street, Suite 300 Syracuse, New York 13202

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Joshua Oliver, P.G. Project Manager EA Science and Technology 19 July 2024 Date

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LIST OF ACRONYMNS AND ABBREVIATIONS

µg/L	Microgram(s) per liter
AWQS	Ambient Water Quality Standards
COC	Contaminant of concern
DO	Dissolved oxygen
EA EPA	Engineering, P.C. and its affiliate EA Science and Technology U.S. Environmental Protection Agency
ft	Foot (feet)
GC	Gas chromatography
mg/L MGP MS MSD	Milligram(s) per liter Manufactured gas plant Matrix spike Matrix spike duplicate
NYSDEC	New York State Department of Environmental Conservation
ORP OU	Oxidation-reduction potential Operable unit
PAH P.E. P.G. pH	Polycyclic aromatic hydrocarbon Professional Engineer Professional Geologist Potential hydrogen
QA QC	Quality assurance Quality control
RI	Remedial investigation
Site SMP SVOC	Saranac Lake Gas Co. Site Management Plan Semivolatile organic compound

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, former manufactured gas plant (MGP) Saranac Lake Gas Co. manufactured lighting gas (coal gasification) for the village of Saranac Lake, and during this time, released MGP-waste into the environment at operable unit (OU) 01, and it appeared that direct surface discharge of waste occurred to Brandy Brook (OU02) and migrated 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. Following the issuance of the RI report¹, Feasibility Studies were developed for OU01, OU02, and OU03 which led to remedial activities that took place between May and December 2018 at OUs 02 and 03, and between April 2021 and June 2022 at OU01. As part of the ongoing site investigations for the Site, EA is collecting quarterly groundwater, sediment, and surface water samples to evaluate how contaminant of concern (COC) concentrations respond if the plume migrates.

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 Site Management Plan (SMP)¹. 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 two 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 second quarter (Q2) of 2023 (May 2023). The May 2023 event is the third post-OU01 remediation media monitoring and sampling event.

¹ MACTEC Engineering and Consulting, P.C. (MACTEC) 2023. *Site Management Plan OU01, OU-2, & OU03 Saranac Lake Gas Company, Inc. Site #516008.* June.

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2. MONITORING ACTIVITIES

The May 2023 media monitoring and sampling event was conducted from 30 to 31 May 2023. Field activities included gauging and sampling of groundwater monitoring wells and collection of surface water and sediment samples. Sampling locations are presented on Figure 2a (OU01) and Figure 2b (OU02 and OU03). A summary of samples collected during the May 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 30 May 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 0.2 liters per minute. Dedicated high density polyethylene tubing was used at each monitoring well location. Drawdown was monitored to the hundredth of a ft. at 3-minute intervals throughout purging using an electronic water level meter. 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, or as needed throughout the day. 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**.

- 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 parameters were as follows:

- Drawdown: less than 0.3 ft drawdown during purging
- $pH: \pm 0.1$ standard unit
- Specific Conductivity: ± 3 percent (%)
- DO: ± 10 % (mg/L) for values greater than 0.5 mg/L or 3 readings < 0.5 mg/L
- ORP: ±10 mV
- Turbidity: < 5 NTU or $\pm 10\%$ for readings > 5 NTU

Two monitoring wells (MW-106R and MW-110R) exhibited high turbidity and were sampled after purging for 2 hours. These wells will be considered for redevelopment during the upcoming quarterly sampling event. Depths to water at MW-104, MW-108R, MW-110R, and MW-204S 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 the laboratory supplied sample containers for off-site laboratory analysis of PAHs by U.S. Environmental Protection Agency (EPA) method 8270E. EPA Method. 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 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 (OU02) (SW-400, SW-401, SW-402) and one location in Pontiac Bay (OU03) (SW-403). QA/QC samples collected for surface water included one MS/MSD and one field duplicate. Samples were collected in order from downstream to upstream to avoid the incidental inclusion of disturbed sediment in the samples. Surface water samples were collected using 6-inch long by 1.6-inch diameter bailers without disturbing bottom sediment and poured into laboratory-provided sample containers. Water quality parameters including temperature, pH, oxidation-reduction potential, conductivity, dissolved oxygen, 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**.

Each surface water sample was collected for off-site laboratory analysis of PAHs via EPA method 8270E. Samples are summarized 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 (OU02) (SD-400, SD-401, and SD-402). QA/QC samples collected for sediment included one MS/MSD and one field duplicate. Each sample was collected from 0 to 0.5 ft below ground surface using dedicated sampling equipment (metal scoops) and composited in dedicated pans. Reusable sampling equipment was decontaminated between sampling locations with Alconox[®] detergent and deionized water to prevent cross-contamination. 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. Samples are summarized 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 Con-Test Analytical laboratory in East Longmeadow, Massachusetts 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 Con-Test Analytical laboratory in East Longmeadow, Massachusetts. Laboratory analytical reports are provided in **Appendix C**.

2.8 DATA VALIDATION AND DATA USABILITY

Upon receipt of the analytical laboratory reports, a preliminary review of the data was performed by EA to verify that all the necessary paperwork, such as chains-of-custody, analytical reports, and deliverable packages, were present. Sample delivery groups were then sent to an independent thirdparty validator, Environmental Data Services, LTD. for validation. Data validation included a review of pertinent QA/QC data such as sample extraction and analysis, holding times, calibration, a review of laboratory blanks and QA/QC sample results, and a review of the analytical case narrative. The analytical data were qualified and appropriately flagged by the data validator. Separate Data Usability Summary Reports, provided in **Appendix D**, were prepared for each sample delivery group associated with the RI and reviewed the following questions:

- Is the data package complete?
- Have all holding times been met?
- Do all the QC data—blanks, instrument tunings, calibration standards, calibration verifications, surrogate recoveries, spike recoveries, replicate analyses, laboratory controls, and sample data—fall within the protocol required limits and specifications?
- Have all of the data been generated using established and agreed upon analytical protocols?
- Does an evaluation of the raw data confirm the results provided in the data summary sheets and QC verification forms?
- Have the correct data qualifiers been used?

The following items/criteria were reviewed for samples:

- Case narrative and deliverables compliance
- Holding times, both technical and procedural, and sample preservation (including pH and temperature)
- System monitoring compound (surrogate) recoveries and summaries
- MS/MSD results, recoveries, and summaries
- Blank spike results, recoveries, and summaries
- Method blank results and summaries
- Gas chromatography (GC)/mass spectroscopy tuning and performance
- Initial and continuing calibration summaries
- Internal standard areas, retention times, and summaries
- Field and trip blank data, when applicable
- Blind field duplicate sample results, when applicable
- Gas chromatography/electron capture detector Instrument Performance Check

- Organic analysis data sheets (Form 1)
- GC/mass spectroscopy and GC chromatograms, mass spectra, and quantitation reports
- Quantitation/detection limits
- Qualitative and quantitative compound identification.

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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 Part 703.5 Water Quality Regulations, as presented in the Division of Water Technical and Operational Guidance Series 1.1.1, 1998, as amended). Acenaphthene, naphthalene, and phenanthrene were detected at concentrations in exceedance of NYSDEC Class GA guidance values (50, 10, and 50 micrograms per liter [μ g/L], respectively) at the following wells:

- Acenaphthene: MW-104, MW-106R, and MW-205D
- Naphthalene: MW-104, MW-106R, MW-204D, MW-204S, and MW-205D
- Phenanthrene: MW-104

Maximum concentrations for each analyte were detected at the corresponding wells:

- Acenaphthene: MW-104 with a concentration of 94 μ g/L
- Naphthalene: MW-205D with a concentration of $2300 \ \mu g/L$
- Phenanthrene: MW-104 with a concentration of 52 μ g/L

PAH concentrations for wells sampled in May 2023 are summarized in **Table 3** and presented on **Figure 4**. Analytical results tables contain data from this sampling event and historical data for comparison. Laboratory reports are presented in **Appendix C**.

3.2 SURFACE WATER PAH RESULTS

Surface water analytical results were compared to the NYSDEC Class GA standards and guidance values (6 New York Code of Rules and Regulations 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 May 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 (Total PAH concentration <4 milligrams per kilogram). Pyrene was the only PAH detected in sediment, with an estimated concentration of 0.084 milligrams per kilogram at SD-402; therefore, there were no exceedances of Class A sediment guidance values. Analytical results are

summarized in **Table 5** and laboratory reports are presented in **Appendix C.** The Data Validation Report is presented in **Appendix D.**

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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5. REFERENCES

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Tables

				MS/						
Location ID	Sample ID	Sample Date	Sample Time	MSD	Analysis					
Groundwater Samples										
MW-204S	516008-MW-204S	05/30/2023	1306	Ν	EPA method 8270					
MW-106R	516008-MW-106R	05/30/2023	1327	Ν	EPA method 8270					
MW-204D	516008-MW-204D	05/30/2023	1411	Y	EPA method 8270					
MW-205S	516008-MW-205S	05/30/2023	1535	N	EPA method 8270					
MW-104	516008-MW-104	05/30/2023	1616	Ν	EPA method 8270					
MW-205D	516008-MW-205D	05/30/2023	1635	Ν	EPA method 8270					
MW-108R	516008-MW-108R	05/31/2023	0830	Ν	EPA method 8270					
MW-110R	516008-MW-110R	05/31/2023	1001	Ν	EPA method 8270					
	Surface Water Samples									
SW-400	516008-SW-400	05/31/2023	1105	Ν	EPA method 8270					
SW-401	516008-SW-401	05/31/2023	1138	Ν	EPA method 8270					
SW-402	516008-SW-402	05/31/2023	1241	Y	EPA method 8270					
SW-403	516008-SW-403	05/31/2023	1320	Ν	EPA method 8270					
		Sediment Sampl	es							
SD-400	516008-SD-400	05/31/2023	1110	Y	EPA method 8270					
SD-401	516008-SD-401	05/31/2023	1148	Ν	EPA method 8270					
SD-402	516008-SD-402	05/31/2023	1251	Ν	EPA method 8270					
		QC Samples								
Associated Parent										
Sample	Sample ID	Sample Date	Sample Time		QC Type					
516008-MW-108R	516008-FD-GW	05/31/2023	-		FD					
516008-SW-401	516008-FD-SW	05/31/2023	-		FD					
516008-SD-401	516008-FD-SD	05/31/2023	-		FD					

Table 1. Summary of Samples Collected (May 2023)

Notes:

FD = Field Duplicate

ID = Identification

MS = Matrix spike

MSD = Matrix spike duplicate

MW = Monitoring well QC = Quality control

SD = Sediment

SW = Surface water

					Ground						GW
			Top of Casing		Surface			Bottom of	Screening	DTW (ft	Elevation
			Elevation (ft	Riser Elevation	Elevation		TOC -	Well (ft	Interval (ft	bgs) (May	(ft)
Location ID	Northing	Easting	amsl)	(ft amsl)	(ft amsl)	TOC (ft ags)	TOR (ft)	BTOR)	bgs)	2023)	May 2023
MW-104	1999833.87	592054.19	1545.27	1544.85	1542.3	3.0	0.42	19.4	6.4 - 16.4	6.8	1538.05
MW-106R	1999720.17	592160.58	1544.09	1541.39	1543.9	2.7	2.7	14.5	4.3 - 14.3	6.15	1535.24
MW-108R	1999558.44	592455.82	1547.42	1544.52	1547.2	2.9	2.9	19.2	9.0 - 19.0	13.65	1530.87
MW-110R	1999536.11	592196.40	1547.33	1543.73	1546.1	3.6	3.6	20.1	9.9 - 19.9	12.34	1531.39
MW-204S	1999285.76	592255.49	1546.53	1546.29	1543.5	3.0	0.24	28.3	10.3 - 25.3	12.96	1533.33
MW-204D	1999286.15	592260.28	1546.95	1546.95	1547	3.0	0	29.7	19.5 - 29.5	13.36	1533.59
MW-205S	1999119.02	592297.69	1545.44	1545.24	1542.5	2.9	0.2	19.6	9.6 - 19.6	11.92	1533.32
MW-205D	1999124.3	592295.88	1545.52	1545.37	1542.4	3.1	0.15	33.5	20.4 - 30.4	11.93	1533.44
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	10.85	1535.75
PZ-PV2	1999775.970	592560.119	1548.1	1547.8	1545	0	0.3	15.1	4.9 - 14.9	7.19	1540.61

 Table 2. Well Construction Details and Groundwater Elevations (May 2023) Saranac Lake Gas Co. Site (516008)

ags = Above ground surface

amsl = Above mean sea level

bgs = Below ground surface

DTW = Depth to water

ft = Foot (feet)

GW = Groundwater

MW = Monitoring well

NM = Not measured

TOC = Top of casing

TOR = Top of riser

			Table 5. Summar	y of Oroundwater	COC Concenti at	ons and Excernan	ccs (191ay 2020 and	inscorreaty
	Location IE					MW-104	MW-104	MW-104
		Sample Name	MW-104	MW-104	MW-104	MW-104	MW-104	MW-104
		Parent Sample ID						
		Sample Date	7/21/2020	11/19/2020	2/24/2021	6/8/2021	10/20/2021	7/26/2022
Analyte	NYSDEC AWQS ¹	Unit	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
2-Methylnaphthalene	NSL	μg/L	NA	NA	NA	NA	NA	NA
Acenaphthene	20	μg/L	96	130	64	73	85	76 J
Acenaphthylene	NSL	μg/L	110	140	96 J+	87	84	92 J
Anthracene	50	μg/L	12	12	11 J	7.8 J	5.1 J	8.1 J
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
Benzo(A)Pyrene	NSL	μg/L	< 2.2 U	< 0.47 U	< 5.4 U	< 0.022 U	< 0.11 U	< 0.015 UJ
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
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
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
Chrysene	0.002	μg/L	3.5 J+	< 0.33 U	< 7.5 U	0.037 J	< 0.15 U	0.061 J
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
Fluoranthene	50	μg/L	6.2 J+	4 J	< 9.8 U	2.6	2.3	3.3 J
Fluorene	50	μg/L	58	58	38 J	40	52 J	36 J
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
Naphthalene	10	µg/L	250	1100	760	700	820	320 J
Phenanthrene	50	μg/L	53	78 J	33 J	22 J	52 J	49 J
Pyrene	50	μg/L	7.8 J+	7	< 7.9 U	3.4	3.9	4.5 J

(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).

 $\mu g/L = Microgram(s)$ 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 2023 due to access issues.

Version: FINAL Table 3, Page 1 of 6 July 2024

			Table 5. Summar	y of Orouna mater	COC Concenti au	ons and Excernal	ices (intag 2020 and	instoricary
	Location ID					MW-106R	MW-106R	MW-108R
		Sample Name	516008-MW-104	MW-106R	MW-106RD	MW-106R	516008-MW-106R	MW-108R
		Parent Sample ID			MW-106R			
		Sample Date	5/30/2023	7/26/2022	7/26/2022	10/12/2022	5/30/2023	7/26/2022
Analyte	NYSDEC AWQS ¹	Unit	Result	Result	Result	Result	Result	Result
SVOCs (SW8270)								
1,4-Dioxane (P-Dioxane)	0.35	µg/L	NA	< 0.031 U	< 0.034 U	NA	NA	< 0.032 U
2-Methylnaphthalene	NSL	μg/L	370	NA	NA	NA	140	NA
Acenaphthene	20	μg/L	94	NA	NA	26	39	NA
Acenaphthylene	NSL	μg/L	88	NA	NA	27	24	NA
Anthracene	50	μg/L	8.6	NA	NA	3.1	3.3 J	NA
Benzo(A)Anthracene	0.002	μg/L	< 0.45 U	NA	NA	0.34	< 0.46 U	NA
Benzo(A)Pyrene	NSL	μg/L	< 0.68 U	NA	NA	0.27	< 0.7 U	NA
Benzo(B)Fluoranthene	0.002	μg/L	< 0.53 U	NA	NA	0.28	< 0.55 U	NA
Benzo(G,H,I)Perylene	NSL	μg/L	< 0.66 U	NA	NA	0.18 J	< 0.68 U	NA
Benzo(K)Fluoranthene	0.002	μg/L	< 0.61 U	NA	NA	0.088 J	< 0.63 U	NA
Chrysene	0.002	μg/L	< 0.43 U	NA	NA	0.35	< 0.44 U	NA
Dibenz(A,H)Anthracene	NSL	μg/L	< 0.72 U	NA	NA	0.027 J	< 0.74 U	NA
Fluoranthene	50	μg/L	3.3 J	NA	NA	2.3	2.0 J	NA
Fluorene	50	µg/L	39	NA	NA	14	13	NA
Indeno(1,2,3-C,D)Pyrene	0.002	μg/L	< 0.76 U	NA	NA	0.16	< 0.78 U	NA
Naphthalene	10	µg/L	500	NA	NA	480	500	NA
Phenanthrene	50	µg/L	52	NA	NA	15	21	NA
Pyrene	50	µg/L	4.1 J	NA	NA	2.9	2.8 J	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).

 $\mu g/L = Microgram(s)$ 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 2023 due to access issues.

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			Tuble of Summar	hary of Groundwatch COC Concentrations and Exectedances (114) 2020 and 11				
		Location ID	MW-108R	MW-108R	MW-108R	MW-110R	MW-110R	MW-110R
		Sample Name	MW-108R	516008-MW-108R	516008-FD-GW	MW-110R	MW-110R	516008-MW-110R
		Parent Sample ID			516008-MW-108R			
		Sample Date	10/12/2022	5/31/2023	5/31/2023	7/26/2022	10/12/2022	5/31/2023
Analyte	NYSDEC AWQS ¹	Unit	Result	Result	Result	Result	Result	Result
SVOCs (SW8270)								
1,4-Dioxane (P-Dioxane)	0.35	μg/L	NA	NA	NA	< 0.033 UJ	NA	NA
2-Methylnaphthalene	NSL	μg/L	NA	< 0.66 U	< 0.66 U	NA	NA	< 0.65 U
Acenaphthene	20	μg/L	23	< 0.52 U	< 0.52 U	NA	< 0.019 U	< 0.52 U
Acenaphthylene	NSL	μg/L	76	< 0.54 U	< 0.54 U	NA	< 0.015 U	< 0.54 U
Anthracene	50	μg/L	8.7	< 0.48 U	< 0.48 U	NA	< 0.012 U	< 0.48 U
Benzo(A)Anthracene	0.002	μg/L	2.9	< 0.45 U	< 0.45 U	NA	< 0.014 U	< 0.44 U
Benzo(A)Pyrene	NSL	μg/L	2.3	< 0.68 U	< 0.68 U	NA	< 0.015 U	< 0.67 U
Benzo(B)Fluoranthene	0.002	μg/L	1.9	< 0.53 U	< 0.53 U	NA	< 0.016 U	< 0.53 U
Benzo(G,H,I)Perylene	NSL	μg/L	1.2	< 0.66 U	< 0.66 UJ	NA	< 0.018 U	< 0.65 UJ
Benzo(K)Fluoranthene	0.002	μg/L	0.57	< 0.61 U	< 0.61 U	NA	< 0.012 U	< 0.61 U
Chrysene	0.002	μg/L	2.8	< 0.43 U	< 0.43 U	NA	< 0.013 U	< 0.43 U
Dibenz(A,H)Anthracene	NSL	μg/L	0.16	< 0.72 U	< 0.72 UJ	NA	< 0.018 U	< 0.71 UJ
Fluoranthene	50	μg/L	14	< 0.47 U	< 0.47 U	NA	< 0.013 U	< 0.46 U
Fluorene	50	μg/L	18	< 0.52 U	< 0.52 U	NA	< 0.017 U	< 0.52 U
Indeno(1,2,3-C,D)Pyrene	0.002	μg/L	1	< 0.76 U	< 0.76 UJ	NA	< 0.018 U	< 0.75 UJ
Naphthalene	10	μg/L	940	< 0.58 U	< 0.58 U	NA	0.055 J	< 0.57 U
Phenanthrene	50	µg/L	13	< 0.5 U	< 0.5 U	NA	< 0.016 U	< 0.49 U
Pyrene	50	μg/L	17	< 0.64 U	< 0.64 U	NA	< 0.014 U	< 0.63 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).

 $\mu g/L = Microgram(s)$ 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 2023 due to access issues.

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			I ubic of Summar	j of Orounamater	coc concenti ut	ions and Exceedan	ceculices (intry 2020 and instorneur)		
	Location ID				MW-204D	MW-204D	MW-205S	MW-205S	
		Sample Name	MW-204S	516008-MW-204S	MW-204D	516008-MW-204D	MW-205S	516008-MW-205S	
		Parent Sample ID							
		Sample Date	7/27/2022	5/30/2023	7/27/2022	5/30/2023	7/27/2022	5/30/2023	
Analyte	NYSDEC AWQS ¹	Unit	Result	Result	Result	Result	Result	Result	
SVOCs (SW8270)									
1,4-Dioxane (P-Dioxane)	0.35	μg/L	< 0.033 U	NA	< 0.034 U	NA	< 0.032 U	NA	
2-Methylnaphthalene	NSL	μg/L	NA	5.9	NA	13	NA	< 0.68 U	
Acenaphthene	20	μg/L	1.9 J	3.7 J	9.3 J	8.8	2.6 J	1.3 J	
Acenaphthylene	NSL	μg/L	1.2 J	17	53 J	38	5.6 J	< 0.56 U	
Anthracene	50	µg/L	0.073 J	< 0.48 U	2.6 J	2.2 J	< 0.012 UJ	< 0.5 U	
Benzo(A)Anthracene	0.002	μg/L	0.018 J	< 0.44 U	0.024 J	< 0.45 U	0.018 J	< 0.47 U	
Benzo(A)Pyrene	NSL	µg/L	< 0.014 UJ	< 0.67 U	< 0.015 UJ	< 0.68 U	< 0.015 UJ	< 0.71 U	
Benzo(B)Fluoranthene	0.002	μg/L	< 0.016 UJ	< 0.53 U	< 0.016 UJ	< 0.53 U	< 0.016 UJ	< 0.55 U	
Benzo(G,H,I)Perylene	NSL	μg/L	< 0.017 UJ	< 0.65 U	< 0.018 UJ	< 0.66 U	< 0.018 UJ	< 0.69 U	
Benzo(K)Fluoranthene	0.002	μg/L	< 0.012 UJ	< 0.61 U	< 0.012 UJ	< 0.61 U	< 0.012 UJ	< 0.64 U	
Chrysene	0.002	μg/L	0.017 J	< 0.43 U	0.023 J	< 0.43 U	0.017 J	< 0.45 U	
Dibenz(A,H)Anthracene	NSL	μg/L	< 0.018 UJ	< 0.71 U	< 0.018 UJ	< 0.72 U	< 0.018 UJ	< 0.75 U	
Fluoranthene	50	μg/L	< 0.013 UJ	< 0.46 U	0.82 J	0.88 J	< 0.013 UJ	< 0.48 U	
Fluorene	50	μg/L	2.4 J	3.3 J	12 J	13	1.6 J	0.62 J	
Indeno(1,2,3-C,D)Pyrene	0.002	μg/L	< 0.018 UJ	< 0.75 U	< 0.018 UJ	< 0.76 U	< 0.018 UJ	< 0.79 U	
Naphthalene	10	μg/L	< 0.026 UJ	200	280 J	190	27 J	< 0.6 U	
Phenanthrene	50	µg/L	0.23 J	1.2 J	12 J	9.8	0.33 J	< 0.52 U	
Pyrene	50	µg/L	< 0.014 UJ	< 0.63 U	0.74 J	0.90 J	< 0.014 UJ	< 0.66 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).

 $\mu g/L = Microgram(s)$ 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 2023 due to access issues.

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Location ID MW-205D MW-205D MW-205D MW Sample Name 516008-MW205D025 516008-MW205D025D MW-205D 516008-Parent Sample ID 516008-MW205D025 Sample Date 9/26/2019 9/26/2019 7/27/2022 5/30 NYSDEC AWQS¹ Unit R Analyte Result Result Result SVOCs (SW8270) < 0.10 U < 0.10 U < 0.032 U 1,4-Dioxane (P-Dioxane) 0.35 μg/L 2-Methylnaphthalene NSL NA NA NA µg/L 38 J 29 J Acenaphthene 20 41 µg/L Acenaphthylene NSL 130 130 110 J µg/L 2.8 J 50 < 7.0 U 1.9 J Anthracene μg/L < 0.014 UJ < 9.0 U Benzo(A)Anthracene 0.002 < 1.8 U < 0μg/L < 2.4 U < 12 U < 0.014 UJ < 0 Benzo(A)Pyrene NSL μg/L Benzo(B)Fluoranthene 0.002 < 1.7 U < 8.5 U < 0.016 UJ < 0 μg/L < (Benzo(G,H,I)Perylene NSL < 1.8 U < 8.8 U < 0.017 UJ µg/L < 0 Benzo(K)Fluoranthene 0.002 μg/L < 3.7 U < 18 U < 0.012 UJ < 8.3 U < 0 Chrysene 0.002 < 1.7 U < 0.013 UJ µg/L < 0 Dibenz(A,H)Anthracene < 2.1 U < 11 U < 0.018 UJ NSL μg/L < 10 U 50 < 2.0 U 0.34 J < (Fluoranthene µg/L 50 20 J 21 J 24 J Fluorene µg/L Indeno(1,2,3-C,D)Pyrene 0.002 < 2.4 U < 12 U < 0.018 UJ µg/L < 0Naphthalene 2100 2000 10 µg/L 1400 J 50 20 J 20 J 19 J Phenanthrene μg/L 50 < 1.7 U < 8.5 U 0.28 J < 0 Pyrene µg/L

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

(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).

 $\mu g/L = Microgram(s)$ 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 2023 due to access issues.

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cuances (I	Tay 2025 and mist	Ji ical)
/-205D	PZ-301	PZ-301
MW-205D	PZ-301	PZ-301
0/2023	7/21/2020	11/19/2020
esult	Result	Result
NA	NA	NA
140	NA	NA
27	< 0.014 U	< 0.41 U
150	< 0.015 U	< 0.38 U
2.6 J	< 0.0092 U	< 0.28 U
).47 U	< 0.016 U	< 0.36 U
).72 U	< 0.022 U	< 0.47 U
).56 U	< 0.024 U	< 0.34 U
0.7 U	< 0.035 U	< 0.35 U
).65 U	< 0.028 U	< 0.73 U
).46 U	< 0.030 U	< 0.33 U
).76 U	< 0.020 U	< 0.42 U
).49 U	< 0.039 U	< 0.4 U
26	< 0.012 U	< 0.36 U
).81 U	< 0.036 U	< 0.47 U
.300	< 0.12 U	0.82 J
25	0.024 J	< 0.44 U
0.68 U	< 0.031 U	< 0.34 U

			Tuble et Summary		concentrations and	a Encocaunces (intag	1010 und miscorreat
		Location ID	PZ-301	PZ-301	PZ-301	PZ-301	PZ-301
		Sample Name	PZ-301	PZ-301	PZ-301	PZ-301	PZ-301
		Parent Sample ID					
		Sample Date	2/24/2021	6/8/2021	10/20/2021	7/27/2022	5/31/2023
Analyte	NYSDEC AWQS ¹	Unit	Result	Result	Result	Result	Result
SVOCs (SW8270)							
1,4-Dioxane (P-Dioxane)	0.35	μg/L	NA	NA	NA	< 0.033 U	NS
2-Methylnaphthalene	NSL	µg/L	NA	NA	NA	NA	NS
Acenaphthene	20	μg/L	< 0.014 U	< 0.014 U	0.043 J	0.075 J	NS
Acenaphthylene	NSL	μg/L	< 0.015 U	< 0.015 U	0.053	< 0.016 UJ	NS
Anthracene	50	µg/L	< 0.025 U	< 0.025 U	< 0.025 U	< 0.013 UJ	NS
Benzo(A)Anthracene	0.002	μg/L	< 0.016 U	< 0.016 U	< 0.016 U	< 0.015 UJ	NS
Benzo(A)Pyrene	NSL	µg/L	< 0.022 U	< 0.022 U	< 0.022 U	< 0.016 UJ	NS
Benzo(B)Fluoranthene	0.002	μg/L	< 0.024 U	< 0.024 U	< 0.024 U	< 0.017 UJ	NS
Benzo(G,H,I)Perylene	NSL	μg/L	< 0.035 U	< 0.035 U	< 0.035 U	< 0.019 UJ	NS
Benzo(K)Fluoranthene	0.002	μg/L	< 0.028 U	< 0.028 U	< 0.028 U	< 0.013 UJ	NS
Chrysene	0.002	μg/L	< 0.030 U	< 0.030 U	< 0.030 U	< 0.014 UJ	NS
Dibenz(A,H)Anthracene	NSL	µg/L	< 0.020 U	< 0.020 U	< 0.020 U	< 0.02 UJ	NS
Fluoranthene	50	μg/L	< 0.039 U	< 0.039 U	< 0.039 U	< 0.014 UJ	NS
Fluorene	50	µg/L	< 0.012 U	< 0.012 U	0.023 J	0.032 J	NS
Indeno(1,2,3-C,D)Pyrene	0.002	μg/L	< 0.036 U	< 0.036 U	< 0.036 U	< 0.019 UJ	NS
Naphthalene	10	µg/L	< 0.12 U	< 0.12 U	0.68	< 0.028 UJ	NS
Phenanthrene	50	µg/L	< 0.022 U	< 0.022 U	0.088	< 0.017 UJ	NS
Pyrene	50	µg/L	< 0.031 U	< 0.031 U	< 0.031 U	< 0.015 UJ	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).

 $\mu g/L = Microgram(s)$ 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 2023 due to access issues.

Version: FINAL Table 3, Page 6 of 6 July 2024

	Table 4. Summary of Surface Water COC Concentrations (May 2023 and Historical)										
			Location ID	SW-400	SW-400	SW-400	SW-400	SW-400	SW-401	SW-401	
			Sample Name	SW-400	SW-400	SW-400	SW-400	516008-SW-400	SW-401	SW-401D	
			Parent Sample ID							SW-401	
			Sample Date	2/24/2021	6/8/2021	10/20/2021	7/28/2022	5/31/2023	2/23/2021	2/23/2021	
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	< 0.014 U	< 0.014 U	
Acenaphthylene	NSL	NSL	μg/L	< 0.015 U	< 0.015 U	0.03 J	NA	< 0.54 U	< 0.015 U	< 0.015 U	
Anthracene	50	NSL	μg/L	< 0.025 U	< 0.025 U	< 0.025 U	NA	< 0.48 U	< 0.025 U	< 0.025 U	
Benzo(A)Anthracene	0.002	NSL	μg/L	< 0.016 U	< 0.016 U	< 0.016 U	NA	< 0.44 U	< 0.016 U	< 0.016 U	
Benzo(A)Pyrene	NSL	NSL	μg/L	0.03 J	< 0.022 U	< 0.022 U	NA	< 0.67 U	< 0.022 U	< 0.022 U	
Benzo(B)Fluoranthene	0.002	NSL	μg/L	< 0.024 U	< 0.024 U	< 0.024 U	NA	< 0.53 U	< 0.024 U	< 0.024 U	
Benzo(G,H,I)Perylene	NSL	NSL	μg/L	< 0.035 U	< 0.035 U	< 0.035 U	NA	< 0.65 UJ	< 0.035 U	< 0.035 U	
Benzo(K)Fluoranthene	0.002	NSL	μg/L	< 0.028 U	< 0.028 U	< 0.028 U	NA	< 0.61 U	< 0.028 U	< 0.028 U	
Chrysene	0.002	NSL	μg/L	0.032 J	< 0.030 U	< 0.030 U	NA	< 0.43 U	< 0.030 U	< 0.030 U	
Dibenz(A,H)Anthracene	NSL	NSL	μg/L	0.025 J+	< 0.020 U	< 0.020 U	NA	< 0.71 UJ	< 0.020 U	< 0.020 U	
Fluoranthene	50	NSL	μg/L	< 0.039 U	< 0.039 U	< 0.039 U	NA	< 0.46 U	< 0.039 U	< 0.039 U	
Fluorene	50	NSL	μg/L	< 0.012 U	< 0.012 U	0.019 J	NA	< 0.52 U	< 0.012 U	< 0.012 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	< 0.036 U	< 0.036 U	
Naphthalene	10	10	μg/L	< 0.12 U	< 0.12 U	0.49	NA	< 0.57 U	< 0.12 U	< 0.12 U	
Phenanthrene	50	NSL	μg/L	0.024 J	< 0.022 U	0.089	NA	< 0.49 U	< 0.022 U	< 0.022 U	
Pyrene	50	NSL	μg/L	0.034 J	< 0.031 U	< 0.031 U	NA	< 0.63 U	< 0.031 U	< 0.031 U	

(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).

 $\mu g/L = Microgram(s)$ 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.

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	Table 4. Summary of Surface Water COC Concentrations (May 2023 and Historical)									
Location ID SW-401 SW-401 SW-401									SW-401	SW-401
			Sample Name	SW-401	SW-401D	SW-401	SW-401D	SW-401	SW-401D	516008-SW-401
			Parent Sample ID		SW-401		SW-401		SW-401	
			Sample Date	6/8/2021	6/8/2021	10/20/2021	10/20/2021	7/28/2022	7/28/2022	5/31/2023
Analyte	NYSDEC AWQS ¹	NYSDEC SW ²	Unit							
SVOCs (SW8270)										
1,4-Dioxane (P-Dioxane)	0.35	NSL	μg/L	NA	NA	NA	NA	< 0.032 U	< 0.032 U	NA
2-Methylnaphthalene	NSL	NSL	μg/L	NA	NA	NA	NA	NA	NA	< 0.66 U
Acenaphthene	20	20	μg/L	0.021 J	0.025 J	0.022 J	0.024 J	< 0.019 UJ	NA	< 0.52 U
Acenaphthylene	NSL	NSL	μg/L	< 0.015 U	< 0.015 U	0.016 J	0.016 J	< 0.015 UJ	NA	< 0.54 U
Anthracene	50	NSL	μg/L	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U	< 0.012 UJ	NA	< 0.48 U
Benzo(A)Anthracene	0.002	NSL	μg/L	< 0.016 U	< 0.016 U	< 0.016 U	< 0.016 U	< 0.014 UJ	NA	< 0.45 U
Benzo(A)Pyrene	NSL	NSL	μg/L	< 0.022 U	< 0.022 U	< 0.022 U	< 0.022 U	< 0.014 UJ	NA	< 0.68 U
Benzo(B)Fluoranthene	0.002	NSL	μg/L	< 0.024 U	< 0.024 U	< 0.024 U	< 0.024 U	< 0.016 UJ	NA	< 0.53 U
Benzo(G,H,I)Perylene	NSL	NSL	μg/L	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.017 UJ	NA	< 0.66 UJ
Benzo(K)Fluoranthene	0.002	NSL	μg/L	< 0.028 U	< 0.028 U	< 0.028 U	< 0.028 U	< 0.012 UJ	NA	< 0.61 U
Chrysene	0.002	NSL	μg/L	< 0.030 U	< 0.030 U	< 0.030 U	< 0.030 U	< 0.013 UJ	NA	< 0.43 U
Dibenz(A,H)Anthracene	NSL	NSL	μg/L	< 0.020 U	< 0.020 U	< 0.020 U	< 0.020 U	< 0.018 UJ	NA	< 0.72 UJ
Fluoranthene	50	NSL	μg/L	< 0.039 U	< 0.039 U	< 0.039 U	< 0.039 U	< 0.013 UJ	NA	< 0.47 U
Fluorene	50	NSL	μg/L	< 0.012 U	< 0.012 U	0.016 J	0.017 J	< 0.016 UJ	NA	< 0.52 U
Indeno(1,2,3-C,D)Pyrene	0.002	NSL	μg/L	< 0.036 U	< 0.036 U	< 0.036 U	< 0.036 U	< 0.018 UJ	NA	< 0.76 UJ
Naphthalene	10	10	μg/L	< 0.12 U	< 0.12 U	0.23	0.25	< 0.026 UJ	NA	< 0.58 U
Phenanthrene	50	NSL	μg/L	< 0.022 U	< 0.022 U	0.11	0.095	< 0.015 UJ	NA	< 0.5 U
Pyrene	50	NSL	μg/L	< 0.031 U	< 0.031 U	< 0.031 U	< 0.031 U	< 0.014 UJ	NA	< 0.64 U

(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).

 $\mu g/L = Microgram(s)$ 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.

Version: FINAL Table 4, Page 2 of 4 July 2024

	Table 4. Summary of Surface Water COC Concentrations (May 2023 and Historical)										
			Location ID	SW-401	SW-402	SW-402	SW-402	SW-402	SW-402	SW-403	
			Sample Name	516008-FD-SW	SW-402	SW-402	SW-402	SW-402	516008-SW-402	SW-403	
			Parent Sample ID	516008-SW-401							
			Sample Date	5/31/2023	2/23/2021	6/8/2021	10/20/2021	7/28/2022	5/31/2023	2/23/2021	
Analyte	NYSDEC AWQS ¹	NYSDEC SW ²	Unit								
SVOCs (SW8270)											
1,4-Dioxane (P-Dioxane)	0.35	NSL	μg/L	NA	NA	NA	NA	< 0.032 U	NA	NA	
2-Methylnaphthalene	NSL	NSL	μg/L	< 0.66 U	NA	NA	NA	NA	< 0.66 U	NA	
Acenaphthene	20	20	μg/L	< 0.53 U	< 0.014 U	< 0.014 U	0.024 J	< 0.021 UJ	< 0.52 U	0.024 J	
Acenaphthylene	NSL	NSL	μg/L	< 0.55 U	< 0.015 U	< 0.015 U	< 0.015 U	< 0.017 UJ	< 0.54 U	< 0.015 U	
Anthracene	50	NSL	μg/L	< 0.49 U	< 0.025 U	< 0.025 U	< 0.025 U	< 0.014 UJ	< 0.48 U	< 0.025 U	
Benzo(A)Anthracene	0.002	NSL	μg/L	< 0.45 U	< 0.016 U	< 0.016 U	< 0.016 U	< 0.016 UJ	< 0.45 U	< 0.016 U	
Benzo(A)Pyrene	NSL	NSL	μg/L	< 0.68 U	< 0.022 U	< 0.022 U	< 0.022 U	< 0.016 UJ	< 0.68 U	< 0.022 U	
Benzo(B)Fluoranthene	0.002	NSL	μg/L	< 0.54 U	0.037 J	< 0.024 U	< 0.024 U	< 0.018 UJ	< 0.53 U	0.038 J	
Benzo(G,H,I)Perylene	NSL	NSL	μg/L	< 0.67 UJ	0.043 J+	< 0.035 U	< 0.035 U	< 0.019 UJ	< 0.66 UJ	0.036 J+	
Benzo(K)Fluoranthene	0.002	NSL	μg/L	< 0.62 U	< 0.028 U	< 0.028 U	< 0.028 U	< 0.013 UJ	< 0.61 U	< 0.028 U	
Chrysene	0.002	NSL	μg/L	< 0.44 U	0.048 J	< 0.030 U	< 0.030 U	< 0.014 UJ	< 0.43 U	0.047 J	
Dibenz(A,H)Anthracene	NSL	NSL	μg/L	< 0.73 UJ	< 0.020 U	< 0.020 U	< 0.020 U	< 0.02 UJ	< 0.72 UJ	< 0.020 U	
Fluoranthene	50	NSL	μg/L	< 0.47 U	0.066	< 0.039 U	< 0.039 U	< 0.015 UJ	< 0.47 U	0.067	
Fluorene	50	NSL	μg/L	< 0.53 U	< 0.012 U	< 0.012 U	0.016 J	< 0.018 UJ	< 0.52 U	0.012 J	
Indeno(1,2,3-C,D)Pyrene	0.002	NSL	μg/L	< 0.77 UJ	0.042 J	< 0.036 U	< 0.036 U	< 0.02 UJ	< 0.76 UJ	< 0.036 U	
Naphthalene	10	10	μg/L	< 0.59 U	< 0.12 U	< 0.12 U	0.14 J	< 0.029 UJ	< 0.58 U	< 0.12 U	
Phenanthrene	50	NSL	μg/L	< 0.5 U	0.035 J	< 0.022 U	0.077	< 0.017 UJ	< 0.5 U	0.028 J	
Pyrene	50	NSL	μg/L	< 0.64 U	0.071	< 0.031 U	< 0.031 U	< 0.016 UJ	< 0.64 U	0.068	
NT. (

(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).

 $\mu g/L = Microgram(s)$ 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.

Version: FINAL Table 4, Page 3 of 4 July 2024

				Table 4. Summary of	Surface Water COC	Concentrations (May	2023 and Historical)
			Location ID	SW-403	SW-403	SW-403	SW-403
			Sample Name	SW-403	SW-403	SW-403	516008-SW-403
			Parent Sample ID				
			Sample Date	6/8/2021	10/20/2021	7/28/2022	5/31/2023
Analyte	NYSDEC AWQS ¹	NYSDEC SW ²	Unit				
SVOCs (SW8270)							
1,4-Dioxane (P-Dioxane)	0.35	NSL	μg/L	NA	NA	< 0.032 U	NA
2-Methylnaphthalene	NSL	NSL	μg/L	NA	NA	NA	< 0.66 U
Acenaphthene	20	20	μg/L	< 0.014 U	< 0.014 U	< 0.019 UJ	< 0.52 U
Acenaphthylene	NSL	NSL	μg/L	< 0.015 U	< 0.015 U	< 0.015 UJ	< 0.54 U
Anthracene	50	NSL	μg/L	< 0.025 U	< 0.025 U	< 0.012 UJ	< 0.48 U
Benzo(A)Anthracene	0.002	NSL	μg/L	< 0.016 U	0.02 J	< 0.014 UJ	< 0.45 U
Benzo(A)Pyrene	NSL	NSL	μg/L	< 0.022 U	0.029 J	< 0.014 UJ	< 0.68 U
Benzo(B)Fluoranthene	0.002	NSL	μg/L	< 0.024 U	0.043 J	< 0.015 UJ	< 0.53 U
Benzo(G,H,I)Perylene	NSL	NSL	μg/L	< 0.035 U	< 0.035 U	< 0.017 UJ	< 0.66 UJ
Benzo(K)Fluoranthene	0.002	NSL	μg/L	< 0.028 U	< 0.028 U	< 0.012 UJ	< 0.61 U
Chrysene	0.002	NSL	μg/L	< 0.030 U	0.031 J	< 0.013 UJ	< 0.43 U
Dibenz(A,H)Anthracene	NSL	NSL	μg/L	< 0.020 U	< 0.020 U	< 0.018 UJ	< 0.72 UJ
Fluoranthene	50	NSL	μg/L	< 0.039 U	0.066	< 0.013 UJ	< 0.47 U
Fluorene	50	NSL	μg/L	< 0.012 U	< 0.012 U	< 0.016 UJ	< 0.52 U
Indeno(1,2,3-C,D)Pyrene	0.002	NSL	μg/L	< 0.036 U	< 0.036 U	< 0.017 UJ	< 0.76 UJ
Naphthalene	10	10	μg/L	< 0.12 U	< 0.12 U	< 0.026 UJ	< 0.58 U
Phenanthrene	50	NSL	μg/L	< 0.022 U	0.1	< 0.015 UJ	< 0.5 U
Pyrene	50	NSL	µg/L	< 0.031 U	0.059	< 0.014 UJ	< 0.64 U

(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).

 $\mu g/L = Microgram(s)$ 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.

Version: FINAL Table 4, Page 4 of 4 July 2024

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

					J			/	/	
Location ID			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	SD-401	SD-401D	SD-401	SD-401D	SD-401
	ample ID					SD-401		SD-401		
	San	nple Date	10/20/2021	7/28/2022	5/30/2023	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
Acenaphthene	NSL	mg/kg	< 0.017 U	< 0.093 U	< 0.082 U	< 0.011 U	< 0.011 U	< 0.01 U	< 0.011 U	< 0.076 U
Acenaphthylene	NSL	mg/kg	0.051 J	< 0.092 U	< 0.084 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	0.015 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	0.07	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	0.078 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	0.1	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	0.061 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	0.033 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	0.088 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	< 0.016 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	0.13 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	< 0.0051 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	0.069	0.061	< 0.014 U	< 0.015 U	< 0.085 U
Naphthalene	NSL	mg/kg	< 0.01 U	< 0.091 U	< 0.086 U	< 0.0065 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	0.07 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	0.13 J	0.11 J	< 0.0091 U	< 0.0097 U	< 0.073 U
Sum of PAHs	4	mg/kg	1.3248	0.552	ND	0.857	0.748	0.023	0.0229	ND

Notes:

(1) NYSDEC Class A Freshwater Sediment standards

(Screening and Assessment of Contaminated Sediment, June 24

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 hydrocarbon

SVOC = Semivolatile organic compound

U = Analyte not detected.

Version: FINAL Table 5, Page 1 of 2 July 2024
	Table 5. Summary of Sediment COC Concentrations (May 2023 and Historical)								
	Loc	cation ID	SD-401	SD-401	SD-401	SD-402	SD-402	SD-402	SD-402
Sample Name		SD-401D	516008-SD-401	516008-FD-SD	SD-402	SD-402	SD-402	516008-SD-402	
	Parent Sa	ample ID	SD-401		516008-SD-401				
	Sam	ple Date	7/28/2022	5/31/2023	5/31/2023	6/8/2021	10/20/2021	7/28/2022	5/31/2023
Analyte	NYSDEC Class A ¹	Unit							
SVOCs (SW8270)									
2-Methylnaphthalene	NSL	mg/kg	NA	< 0.081 U	< 0.078 U	NA	NA	NA	< 0.08 U
Acenaphthene	NSL	mg/kg	< 0.078 U	< 0.079 U	< 0.076 U	< 0.011 U	< 0.011 U	< 0.079 U	< 0.078 U
Acenaphthylene	NSL	mg/kg	< 0.076 U	< 0.081 U	< 0.078 U	< 0.0039 U	0.0088 J	< 0.077 U	< 0.08 U
Anthracene	NSL	mg/kg	< 0.077 U	< 0.08 U	< 0.077 U	< 0.012 U	0.013 J	< 0.079 U	< 0.079 U
Benzo(A)Anthracene	NSL	mg/kg	< 0.068 U	< 0.074 U	< 0.072 U	< 0.014 U	< 0.014 U	< 0.069 U	< 0.073 U
Benzo(A)Pyrene	NSL	mg/kg	< 0.066 U	< 0.068 U	< 0.066 U	< 0.01 U	< 0.01 U	< 0.067 U	< 0.067 U
Benzo(B)Fluoranthene	NSL	mg/kg	< 0.067 U	< 0.069 U	< 0.067 U	< 0.01 U	< 0.01 U	< 0.068 U	< 0.069 U
Benzo(G,H,I)Perylene	NSL	mg/kg	< 0.082 U	< 0.086 U	< 0.083 U	< 0.011 U	< 0.012 U	< 0.084 U	< 0.085 U
Benzo(K)Fluoranthene	NSL	mg/kg	< 0.065 U	< 0.074 U	< 0.072 U	< 0.0076 U	< 0.0077 U	< 0.067 U	< 0.073 U
Chrysene	NSL	mg/kg	< 0.07 U	< 0.074 U	< 0.072 U	< 0.0066 U	< 0.0066 U	< 0.071 U	< 0.074 U
Dibenz(A,H)Anthracene	NSL	mg/kg	< 0.076 U	< 0.08 U	< 0.077 U	< 0.017 U	< 0.017 U	< 0.077 U	< 0.079 U
Fluoranthene	NSL	mg/kg	< 0.071 U	< 0.074 U	< 0.071 U	< 0.014 U	< 0.014 U	< 0.072 U	< 0.073 U
Fluorene	NSL	mg/kg	< 0.077 U	< 0.08 U	< 0.077 U	< 0.0053 U	< 0.0053 U	< 0.079 U	< 0.079 U
Indeno(1,2,3-C,D)Pyrene	NSL	mg/kg	< 0.087 U	< 0.09 U	< 0.087 U	< 0.015 U	< 0.015 U	< 0.088 U	< 0.089 U
Naphthalene	NSL	mg/kg	< 0.076 U	< 0.083 U	< 0.079 U	< 0.0067 U	< 0.0068 U	< 0.077 U	< 0.081 U
Phenanthrene	NSL	mg/kg	< 0.077 U	< 0.081 U	< 0.078 U	< 0.0068 U	< 0.0069 U	< 0.079 U	< 0.08 U
Pyrene	NSL	mg/kg	< 0.075 U	< 0.082 U	< 0.079 U	< 0.0097 U	< 0.0098 U	< 0.076 U	0.084 J
Sum of PAHs	4	mg/kg	ND	ND	ND	ND	0.0218	ND	0.084

Notes:

(1) NYSDEC Class A Freshwater Sediment standards

(Screening and Assessment of Contaminated Sediment, June 24

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 hydrocarbon

SVOC = Semivolatile organic compound

U = Analyte not detected.

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Figures



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	Saranac Lake Gas Co. Parcel (OU01)
	Brandy Brook (OU02)
	Lake Flower (OU03)
\bigcirc	Groundwater Sampling Location
\bigtriangleup	Surface Water Sampling Location
\bigtriangleup	Surface Water and Sediment Sampling Location
\otimes	Not Sampled
٨	

Monitoring Sampling Locations Saranac Lake Gas Co., Inc. (NYSDEC Site No. 516008) Saranac Lake, New York



	New York State AWQS (May 2023)						
1	Analyte	Standard (µg/L)					
2	2-Methylnaphthalene	NSL					
	Acenaphthene	20					
5	Acenaphthylene	NSL					
-	Anthracene	50					
2	Fluoranthene	50					
10	Fluorene	50					
	Naphthalene	10					
	Phenanthrene	50					
511	Pyrene	50					

MW-108R

100		
MW-104	۰۰ محمد المحمد المحمد ال	1
Analyte	May-23	
2-Methylnaphthalene	370	-
Acenaphthene	94	2
Acenaphthylene	88	N
Anthracene	8.6	
Fluoranthene	3.3 J	1
Fluorene	39	
Naphthalene	500	
Phenanthrene	52	
Pyrene	4.1 J	
the second second second	A CONTRACT	-

	and the second se	
1	MW-106R	6 8
	Analyte	May-23
	2-Methylnaphthalene	140
	Acenaphthene	39
	Acenaphthylene	24
	Anthracene	3.3 J
	Fluoranthene	2.0 J
	Fluorene	13
2	Naphthalene	500
	Phenanthrene	21
	Pyrene	2.8 J

MW-110R

And and a state of the state of		
MW-204S		
Analyte	May-23	
2-Methylnaphthalene	5.9	
Acenaphthene	3.7 J	Ņ
Acenaphthylene	17	
Fluorene	3.3 J	ł.
Naphthalene	200	ľ
Phenanthrene	1.2 J	1
A REAL PROPERTY AND A REAL		

100 Barris (1997) - 100 Barris (1997)	A MARCO
MW-205D	
Analyte	May-23
2-Methylnaphthalene	140
Acenaphthene	27
Acenaphthylene	150
Anthracene	2.6 J
Fluorene	26
Naphthalene	2300

State - The second	1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
MW-204D	
Analyte	May-23
2-Methylnaphthalene	13
Acenaphthene	8.8
Acenaphthylene	38
Anthracene	2.2 J
Fluoranthene	0.88 J
Fluorene	13
Naphthalene	190
Phenanthrene	9.8
Pyrene	0.90 J

13	MW-20	5S
	Analyte	May-23
	cenaphthene	1.3

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Appendix A

Daily Field Reports

NYSDEC Division of Environmental RemediationNew York STATEDepartment of Environmental ConservationSite Location: Payeville Lane, Saranac Lake, New York 12983						Contract No. D009806 DEC PM – J. Stefansky Engineer PM – J. Oliver			
	Weather	Condition	e			Eng	ineer Insp	. – K. Cass	sidy
General Description Sunny AM Sunny PM									
Temperature	70 F	AM 83 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						NA			
Were there any exceeda	nces of the peri	imeter air mo	nitoring reported	on this d	ate?	*Y	es	No	NA X
Were there any nuisance	e issues reporte	d/observed o	on this date?			*Y	es	No X	NA
Hoalth & Safoty Com	monte	4,00001104				- · ·			101
Use caution in wooded a	areas; slips, trips	s, and falls; ti	cks.						
Summary of Work Pe	erformed	Arrived at	site: 0915		De	parte	ed Site:	1715	
Equipment/Material If any box below is c Were there any vehicles	205S (1535). EA collected sample at MW-104 (1616). EA collected sample at MW-205D (1635). EA gauged PVC stickup in creek in front of residences in OU2 (0.1 ppm) (1700). 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?				^	res	NO	NA X
Personnel and Equip	ment	decontamina	ated prior to exit	ng the wo	ork site?	<u> </u>	res	NO	NA X
Individual		Co	mpany		Tra	ade		Total	Hours
Katie Cassidy	,	EA Scie			entist		8		
Moriah Gilkey	,	EA Sc			Scie	cientist		8	
Philomena Coles-Car	rruthers	EA			Scie	entist		8	
Equipment Descri	ption		Contractor/Ve	ndor			Quantity	U	sed
PID Peristatic Pum	n	Pine Environmental					2	2	
Horiba U-52	P	Pine Environmental					2	2	
Water Level Me	ter		Pine Environm	ental			2	2	
Material Description	terial Description Imported/ Delivered to Site Off Site (If Applicable) Facilit			Sour Facilit	ce or y (If <i>I</i>	Disposal Applicable)	Daily Loads	Daily Weight (tons)*	
Equipment/Material Tracking Comments:									
Visitors to Site									
Name			Representi	ng		En	tered Exc	clusion/C	RZ Zone
						Yes No		No	
		-			Yes No				
Site Representatives	;	1							



Name	Representing
None	
Project Schedule Comments	
None.	
Issues Pending	
None	
Interaction with Public, Property Owners, Media, et	ic.
Nana	
None	



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

Site Photographs (Descriptions Below)				



WELL MONITORING TAE	<u>BLE:</u>		
Well ID	DTW	DTB	Notes
516008-MW-204S	12.96	28.20	
516008-MW-204D	13.36	31.50	MS/MSD
516008-MW-205S	11.92	19.60	
516008-MW-205D	11.93	33.25	
516008-MW-104	6.80	18.80	
516008-MW-106R	6.15	17.03	
Site Inspector(s): Katie Cassidy Date: 5/30/23			

 $\label{eq:Videos} Videos \ of \ discreet \ operations \ have \ been \ provided \ to \ the \ DEC \ Project \ Manager \ to \ facilitate \ understanding \ of \ the \ ongoing \ work? \qquad Yes \ \square \ No \ \square \ N/A \ X$



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 🗆
Comm N/A	ents:		

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:		<u>.</u>	

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⊠
<u>Comments:</u> 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⊠
<u>Comments:</u> N/A			

* BART – Best Available Retrofit Technology



NYSDEC Division of Environme Site Location: Payes	ental Remediat ville Lane, Sara	tion ² anac Lake, I	NEW YORK STATE Con New York 12983	artmen ironme servatio	nt of ntal on	Contract No. D009806 DEC PM – J. Stefansky Engineer PM – J. Oliver		
		• Condition	-			Engineer Insp	o. – K. Cass	idy
General Description	Suppy		Suppy		DM			
Temperature		AM	30111y 85 F					
Wind	SW 6 MPH		SW 6 MPH	1	PM			
Health & Safety If any box below is checked "Yes", provide explanation under "Health & Safety Comments".								
Were there any change	s to the Health &	& Safety Plan	?			*Yes	No X	NA
Were there any exceed	ances of the per	imeter air mo	onitoring reported of	on this d	ate?	*Yes	No	NA X
Were there any nuisand	e issues reporte	ed/observed o	on this date?			*Yes	No X	NA
Health & Safety Con	nments							
Heat; biting insects								
Summary of Work P	erformed	Arrived at	t site: 0730		De	parted Site:	1330	
collected sample SW-44 duplicate (1138). EA co EA collected sample SE Equipment/Material If any box below is o Were there any vehicles	00 (1105). EA co llected sample S 0-402 (1251). EA Tracking checked "Yes s which did not d	bllected samp SD-401 + field A collected sa ", provide display prope	bles SD-400 + MS/ d duplicate (1148). ample SW-403 (13 explanation und r D.O.T numbers a	MSD (1 EA colle 20). EA der "Ma and place	110). EA ected sar offsite (1 aterial T ards?	collected sam nples SW-402 330). racking Cor	ples SW-40 2 + MS/MSD nments".	1 + field (1241).
Were there any vehicles	s which were not	t tarned?				* Ves	No	
Were there any vehicles	s which were not	t decontamin	ated prior to exitin	a the wa	ork site?	* Yes	No	NAX
Personnel and Equi	pment			5		<u>I</u>	<u> </u>	
Individual		Co	mpany		Tra	de	Total	Hours
Katie Cassid	V		EA		Scier	ntist	6	
Moriah Gilke	y y		EA		Engir	neer	6	
Philomena Coles-Ca	arruthers		EA	<u> </u>	Scientis	t/Intern	6	
Equipment Desci	ription		Dino Environmo	aor		Quantity	0	ed
Horiba U-52			Pine Environme	ntal		2	2	
Water Level Me	eter		Pine Environme	ntal		2	2	
Carbon filtration t	Carbon filtration bucketPine Environmental22Material DescriptionImported/ Delivered to SiteExported off SiteWaste Profile (If Applicable)Source or Disposal Facility (If Applicable)Daily LoadsDaily Weig (to set)					Daily Weight (tons)*		
Equipment/Material	Tracking Con	nments:					I	
Visitors to Site								
Name			Representin	g		Entered Ex	clusion/C	RZ Zone
						Yes	No	
						Yes	No	
Site Representativo	s							
Nama	3		Denres	ontine				
INAILIE			Repres	enung				

NEW YORK STATE Department of Environmental Conservation

None	
Project Schedule Comments	
None.	
Issues Pending	
 EA took note of a downed tree that caused dat fence repair and tree removal crew will need to 	mage to perimeter fence. PM Josh Oliver notified that o fix the issue. Photos will be included in photo log.
Interaction with Public, Property Owners, Media, et	с.
None	



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

Site Photographs (Descriptions Below)				



WELL MONITORING TA	BLE:				
Well ID	DTW	DTB	Notes		
516008-MW-204S	12.96	28.20			
516008-MW-204D	13.36	31.50	MS/MSD		
516008-MW-205S	11.92	19.60			
516008-MW-205D	11.93	33.25			
516008-MW-104	6.80	18.80			
516008-MW-106R	6.15	17.03			
516008-MW-108R	13.65	21.89	Field duplicate		
516008-MW-110R	12.34	20.95			
Site Inspector(s): Katie Cassidy Date: 5/31/23					

Videos of discreet operations have been provided to the DEC Project Manager to facilitate understanding of the ongoing work? $\mathsf{Yes} \Box \mathsf{No} \Box \mathsf{N/A} \mathsf{X}$



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)? 		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 🗆
Comm N/A	<u>ents:</u>		

ON-SITE WASTE STORAGE

Drums, roll offs and piles are staged in secure areas?	Yes □	No 🗆	N/A⊠
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Comments:			

NUISANCE CHECKLIST

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Were any property owners NOT provided advance notice for work performed on this property on this date?	Yes 🗆	No 🗆	N/A⊠



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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?		No 🗆	N/A⊠
If yes, has Contractor been notified?	Yes 🗆	No 🗆	N/A⊠
<u>Comments:</u> 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⊠
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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⊠
<u>Comments:</u> N/A			

* BART – Best Available Retrofit Technology



Appendix B

Field Forms

CALIBRATION		
DATE: C	5 30123	
TIME:	1106	
METER ID:	18804	

pH CALIBRATION

pH STANDARD	INITIAL	FINAL
	READING	READING
4.0	4.11	3.96

CONDUCTIVITY CALIBARATION

CONDUCTIVITY STANDARD	STANDARD READING	FINAL READING
4.49	4.52	4:42

TURBIDITY CALIBRATION

STANDARD	INITIAL READING	FINAL READING
0 NTU	2.9	0.1

COMMENTS

SIGNATURE

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Ouch Selley

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CALIBRATION			
DATE: 0	5/30/2/3		
TIME: 1100			
METER ID:	22290 - May 1+25 9		

pH CALIBRATION

pH STANDARD	INITIAL READING	FINAL READING
4.0	7.20	3.99

CONDUCTIVITY CALIBARATION

CONDUCTIVITY STANDARD	STANDARD READING	FINAL READING
4.49	2-72	5.13

TURBIDITY CALIBRATION

STANDARD	INITIAL READING	FINAL READING
0 NTU	5.7	0.3

COMMENTS

SIGNATURE

1/orma Lod

CALIBRATION	****************
DATE: 5731 23	
TIME: 073 @	
METER ID: 18804	

pH CALIBRATION

pH STANDARD	INITIAL	FINAL		
	READING	READING		
4.0	3.95	3.97		

CONDUCTIVITY CALIBARATION

CONDUCTIVITY STANDARD	STANDARD READING	FINAL READING
4.49	4.94	4.45

TURBIDITY CALIBRATION

STANDARD	INITIAL READING	FINAL READING
0 NTU	<i>0.0</i>	0.0

COMMENTS

SIGNATURE

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CALIBRATION	
DATE: 5 31 23	
TIME: 0732	*****
METER ID: 18804 14259	· ·

pH CALIBRATION

pH STANDARD	INITIAL READING	FINAL READING		
4.0	4.12	4.12		

CONDUCTIVITY CALIBARATION

CONDUCTIVITY STANDARD	STANDARD READING	FINAL READING
4.49	5.09	4.49

TURBIDITY CALIBRATION

STANDARD	INITIAL READING	FINAL READING
0 NTU	1.4	. [. 3

COMMENTS

SIGNATURE

5

FIELD CALIBRATION FORM

Site Name: Jaranac Lake Gas Co.

INSTRUMENT: Honeywell MiniRAG 3000 P	INSTRUMENT ID No: 22290
OPERATOR: M. GILKey	WEATHER: 67°F Sun; 6mohsw
SPANGAS TYPE: 1 Sobuty Leve	DATE: 05/30/23
CALIBRATION NOTES:	, , , ,
nevo Cal: 0.0 ppm	· · ·
Span Cal: 100.0 ppm	·
6	
	•
COMMENTS:	
SIGNATURE: March Silkey I	DATE: 05/30/23

Site Entry and Exit Log

Site: Saranac Lake, Village of Saranac Lake, New York						
Name	Deta	Time of	Time of	Initials		
Kitte Costile	5/30/27	Agis	1716	1/0		
Mariah Gulkon	-12a /72	0115	1715	MRA		
Mena Cores Carnythere	5/30/27	0915	1715	Mac		
Kothe Quesidu	604-2	07.6	17.74	Vo		
Manialo Gilli au	5/31/23	0715	1330	mpG		
Meha Coles-Carrythers	5151122	0715	7751	MAC		
Manne Land Land Market	2121160		1000			
			~			
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	A ®	EA Enginee EA Science	ring, P.C. and Techn GROUNDI	ology WATER SAMP	UNG PURC		NEW YOR STATE OF OPPORTUNITY	K Departn Environ Conserv	nent of mental ⁄ation	
Wall I D L EA Porconnol:										
wen i.D.:	MM-10 6	1	K. CA	flour -		Client: 516008 Saranac Long				
Location:			Well Condit	don: 11		Weather:	10 C	have 1 or		
Saranac Lake (Gas Company, Inc	. (516008)		GOODA			807 SUMMY			
Sounding M	ethod:		Gauge Date	1/2 120	,	Measuremen	t Ref:			
Ha	An ULI	Ч								
Stick Up/Do	wn (ft):		Gauge Time			Well Diamet	er (in):			
<u></u> \	UK-UP			<u>2935</u>						
Purge Date:	51	rolaz		l	Purge Time:	1549	1			
Durge Methr		<u>27167</u>			Field Techni	lalan.	<u> </u>			
ruge mem	" (au-1	Low per	1 June	1	K.	128sid	4			
		,ł	-1-4					· · · ·		
				Well Vol	time			<u></u>		
A. Well Den	th (ff): 1 \$7	~? <u>></u>	D. Well Vol	nme (ff): A		Denth/Heigh	f of Top of P	VC		
A. HULDER		80	D. 1101 101	U.(241	Debutareion		¥ C,		
B. Depth to Y	Water (ft):	- 82	E. Well Volt	ume (gal) C*D);	<u> </u>	Pump Type:	A 100			
_ 1	····· (0,80		6.41	92		Plasfal	the py	MD	
C. Liquid De	epth (ft) (A-B):	17 00	F. Three We	ll Volumes (gal)	(E3):	Pump Intake	Depth:		7	
		16.00		<u> </u>	76		NAIC-	Screen		
			Ţ	Water Quality I	Parameters					
Time	Temperature	pH	ORP	Conductivity	Turbidity	DO	DTW	Rate	Volume	
(hrs)	(0C)	(pH units)	(mV)	(S/m)	(ntu)	(mg/L)	(ft btoc)	(Lpm)	(liters)	
1549	27.57	6.17	-97	0.105	51	1.08		0.23	·	
1552	24.100	6.19	- 101	0.102	55	0.59		0.25	NT	
1.005	20 47	r au	- 84	~ IN7	17 2	067		2.0	1.0	
iera	10.00	5.00	<u>-07</u>	0.10	100	10.51		- 25	1.3-	
122	19.00	501	-23	U.IVe	24.3	0.00	l	0.45	- 6-63	
<u>ILEN I</u>	18.03	5.07	<u>-84</u>	0.100	22.2	0.54		425	3.00	
1604	17.05	5.88	-86	0.108	24.1	0.54		0.25	3.75	
1607	10.09	5.91	-90	0.110	24.8	0.54		0.25	4.50	
1610	14.03	5.92	-91	0 110	24.3	0.53		0.25	5.75	
1613	C 41	cai	-93	0111	142	n.c2		0.25	10.00	
11010	15.75	5.40	. 02	1 n	224	1001		0.25	5.25	
ta ta	14,60	-5.7V	-72-		4.7.7	- 4.21		<u>Vi ~</u> .)	01.12	
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						1				
		+		<u> </u>	<u>}</u>	╉──────				
Total Ortanti			<u> </u>	1	1	<u> </u>		1/01/0		
Lotal Quants	ity of water iter	noved (gal):		0.75 L	-	Samping In	ne: Mille			
Sampling D	ater	Elant	1-7		•	Sample Type	** TTT		, <u>_</u>	
ountring ~.	atc.	-21761			-	ountre vite	•	- game		
COMMENT	S AND OBSER	VATIONS:						V		
		• • • • • • • • • •								

							·			
EA Engineering, P.C. EA Science and Technology page 10-4						3 NEW YORK STATE OF DEPORTUNITY DEPORTUNITY Department of Environmental Conservation				
GROUNDWATER SAMPLING PURGE FORM										
Well I.D.:	DAP		EA Personnel:			Client: (516008)				
Location:			Well Condition:			Weather:				
Sounding M	ethod:	NY	Gauge Date:			Measurement Ref:				
Heion	MIM		05130123			TOC (PVC)				
Stick Up/Do	wn (ft):		Gauge Time: 0935			$\gamma \gamma $				
Purge Date: Purge Time: 11.35										
Purge Method: Field Technician:										
Now Tow - perri Mi - Uilkey/K. Cussicely										
Well Volume										
A. Well Depth (ft): 17.03			D. Well Volume (ft):			Depth/Height of Top of PVC:				
B. Depth to Water (ft):			E. Well Volume (gal) C*D):			Pump Type:				
C. Liquid Depth (ft) (A-B): $[A \in \mathcal{O}]$			F. Three Well Volumes (gal) (E3):			Pump Intake Depth:				
-		0.88	1.738			mia-screen				
Water Quality Parameters										
Time	Temperature	p H (√)	ORP	Conductivity	Turbidity	DO	DTW	Rate	Volume	
(hrs)		(pH unNs)	(mV)Ψ	(S/m)	(ntu)	(mg/L)	(ft btoc)	(Lpm)	(liters)	
159	74.60	9.00	-14-1	0.653	-*	0.36	6.72	0.26	0	
1145	11.04	9.18	-202	0.715	623	0.00	6.64		250	
1148	16.55	9.29	-219	0.748	693	0.00	6.60		3,75	
11451	16.95	9.42	-232	0.739	734	0.00	6.59		5.00	
11454	17.36	9,44	-235	0.735	733	0.00	6.57		6.25	
1147	17.70	9.62	-23T	0.714	675	00,00	6.57		7-50	
1000	16.80	9.59	-234	0 (ED	629	0.00	10-56		10.00	
12.06	16,76	9,50	-236	0.596	532	0,00			11.25	
11.09	10.19	9.55	-236	0.570	466	0.00			12.50	
1202	16.68	9.52	-235	0.560	381	0.00			13.75	
1205	17.00	9.30	- 240	0 523	291	0.00			15.00	
1208	[7, [7]	9.28	-251	0.496	257	0.00			16.25	
1221	17.33	9.49	-250	0.7480	282	0.00			17.50	
17.27	17,88	9.41	-250	0.479	124	0.00	6.56		20.00	
Total Quantity of Water Removed (gal): Sampling Time: 132-7										
Samplers: <u>MG kC </u> Sampling Date: 06120			2.3			Split Sample With: Sample Type:		TOAR	GOAB	
COMMENTS AND OBSERVATIONS: Purged WATO cup for first few minutes and to hance scharget towering ate										
1 WE BELL	We have the mild download the day of a little day of the day of th									
* noving could gread nurbidity and to funels over 1000 N7U										

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		EA Enginee EA Science	ering, P.C. and Techn	nology par	ye 20f	3 2	NEW YOF STATE OF OPPORTUNIT	K Depart Enviror Conser	ment of Imental vation					
			GROUNDW	VATER SAMP	LING PURC	GE FORM								
Well I.D.:			EA Personne	el:		Client:								
Location:			Well Condit	ion:		Weather:								
		Bee	page	1										
Sounding M	lethod:		Gauge Date:			Measureme	nt Ref:							
Stick Up/Do	own (ft):		Gauge Time	:		Well Diame	ter (in):							
	,						·····							
Purge Date:					Purge Time:		,							
			Se	e pago	1									
Purge Meth	od:			1 3	Field Techn	ician:								
				Well Vol	ume									
A. Well Dep	oth (ft):		D. Well Vol	ume (ft):		Depth/Heig	ht of Top of P	VC:						
B. Depth to	Water (ft):		E. Well Volu	ıme (gal) C*D):		Pump Type:	1		··· · · · · · · · · · · · · · · · · ·					
C. Liquid D	epth (ft) (A-B):		F. Three We	ll Volumes (gal)	(E3);	Pump Intak	e Devth:							
-	1 () ()				· · · · · · ·	L	T							
Time	Temperature	nH 🔊	ORP	Conductivity	Turbidity		שדמ	Rate	Volume					
(hrs)	(oC)	(pH units)	(mV)	(S/m)	(ntu)	(mg/L)	(ft btoc)	(Lpm)	(liters)					
1230	6.47	9.24	-271	0.467	99.4	0.00		0.25	21.25					
1233	17.20	a. 20	~ 288	0.452	108	0.00			22-5					
1236	17.54	9:13	-300	0.448	109	0.00	6.56		23.79					
1239	17.90	9.28	- 300	0.440	100	0.00	6.56		25.0					
1242	17.90	9.25	> 304	0.447	867	0.00	6.50		26.29					
1245	18.02	9,20	- 310	0.497	82.2	0.00	6.37		27.92					
1248	18.04	9,19	- 322	0.447	72.7	0.00	6.51		28.70					
1251	18,49	9.17	-335	0.438	62.2	0.00	6.57		36.00					
1234	18.13	9.18	-349	0.443	65.9	0,00	6.58	[3.29					
1257	17.79	9.12	- 363	0.443	71.7	0.00	6.59	<u> </u>	32.50					
1300	17.77	9.07	-391	0.433	67.9	0.00	6.59	<u></u>	33.79					
1303	17.65	9.02	-404	0.432	64.9	0.0	6.59	<u> </u>	35.00					
1306	17.69	9.02	-414	0.429	734	0.0	6.60		36.20					
1309	17.80	4.01	-423	0.427	61.4	0.0	6.60	<u> </u>	37.5					
1312	17.00	Q.04	-433	0.427	69.1	10.0	6.60		38.75					
1315	17.96	8.99	<u>• 4433</u>	0.427	62.0	0.0	10.60		40.0					
Total Quant	ity of Water Po	"D'U"+	- 494	0.427	lei	10 · 0	Q. (0 { ime:	<u> </u>	14-1.25					
Samplers:	ary of trafet Re	M. GILKOEN	K. Cassi	- Lel	-	Split Sampl	e With:	$-\frac{327}{9}$						
Sampling D	ate:	5 30	23	J	-	Sample Typ	e:	URAB						
COMMENT	S AND OBSER	VATIONS:												
			Cel Dua	c1										
			10-1-0											

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Weil Low It A Engineering, P.C. EA Science and Technology Page 3 of 3 It Wurdt Wurdt Environme Conservation Well Low GROUNDWATER SAMPLING PURCE FORM Client: Number of the state of the st				ment of Imental vation		
Well I.D.:	EA Personnel:	LING PURC	Client:			
MW-106R			NYSDEC			
Location:	Well Condition:		Weather:			
Saranac Lake Gas Company, Inc. (516008)	Gauge Date:		Measuremen	t Ref		
oblinding method.	See Dave	ne. I	Measuremen			
Stick Up/Down (ft):	Gauge Time:	0-	Well Diamet	er (in):		
Purge Date:		Purge Time				
Purge Method		Field Techn	ician:			
i uge Methou.	See ogere		iciali.			
					· · · · · · · · · · · · · · · · · · ·	
	Well Vo	lume				
A. Well Depth (ft):	D. Well Volume (ft):		Depth/Heigł	nt of Top of P	VC:	
B. Depth to Water (ft):	E. Well Volume (gal) C*D):	a 1	Pump Type:			
C. Liquid Depth (ft) (A-B):	F. Three Well Volumes (gal	(E3):	Pump Intake	Depth:		
			1			
	Water Quality	Parameters				
Time Temperature pH (V	ORI Conductivity	- Turbidity	DO	DTW	Rate	Volume
(hrs) (oC) (pH units)	(mV) (S/m) V	(ntu)	(mg/Ľ)	(ft btoc)	(Lpm)	(liters)
1321 18.07 8.98	-451 0.4-26	56.7	0.0	6.62	0.25	42.5
1324 18.10 9.00	-456 0,426	53.2	0.0	6.62	1	43.75
1327 18,15 8,48	-459 0.426	56.2	0.0	(e.le?	۱	45.0
1330						
· · · · · · · · · · · · · · · · · · ·				1		
· · · · ·						
		-				
		-				
			+			-
						<u> </u>
Total Quantity of Water Removed (201):	<u> </u>		Sampling Ti	me:	1327	<u> </u>
Samplers: W. Gall	Cer K. Cassich	<u>-uc</u>	Split Sample	e With:	\$	
Sampling Date:	123	-	Sample Typ	e:	GRAY	
COMMENTE AND ODEEDVATIONS						
COMMENTS AND OBSERVATIONS:	Sel park 1					
	1 0					

EA Enginee EA Science	ering, P.C. and Technology			NEW YOR STATE OF OPPORTUNIT	K Departr Environ Conserv	nent of mental vation		
	GROUNDWATER SAMP	LING PURC	GE FORM		·			
Well I.D.:	EA Personnel:)	Client:	516008	(o)			
Location:	Well Condition!	<u>w</u>	Weather; (Manac Luk	e (74516	·		
Savanar Lake, NY	Grood /-+		<u>}</u>		JUNN	1		
Hemon WLM	Batige Date: 08/30/23		Measuremen	n Ker: V A (Ni	c			
Stick Up/Down (ft):	Gauge Time:		Well Diamet	er (in):	~~			
	0475		<u> </u>	W PV C				
Purge Date:		Purge Time:	<u>م</u> ري	ee				
Purge Method: $0 > 1 < 1 < 7 < 3$		Field Techni	ician:	<u> </u>				
Low Anw-perry	1 pump	M. Gulk	ion/K.C	USSICIA				
· · · · · · · · · · · · · · · · · · ·	Well Vol	ume		<u> </u>				
A. Well Depth (ft): 7180	D. Well Volume (ft):		Depth/Heigh	it of Top of P	VC:			
R Dowth to Water (ft)	U F. Wall Walnume (gal) (*D)	.041	Barana Taun at					
[7.65]	E. Wen Volume (gar) C D):	0.338	Perri	stattic F	ump			
C. Liquid Depth (ft) (A-B): 274	F. Three Well Volumes (gal)	(E3):	Pump Intake	Depth:	,			
0.11		11015	<u> </u>	<u>r- sonan</u>	<u> </u>			
	Water Quality I	arameters						
Image: EA Engineering, P.C. EA Science and Technology Department of ENVIOUNENTER SAMPLING PURCE PORM CROUNDWATER SAMPLING PURCE PORM Well LOG: IN Fourier Landow Conservation Conser								
0800 17.84 5.77	767 0.207-	778	3.84	-¥-	0.75	0		
0803 12.44 5.92	243 0,183	263	3.61	-36-		1.25		
0806 12.14 6.03	234 0.172	84.8	3.Ă	X		2.50		
0809 11.67 6.10	230 0.167	28.0	3.04	*		3.75		
IA Ingineering P.C. EA Science and TechnologyIn work performantal ConservationCROUNDWATER SAMPLING PURCE FORMWell ID: Mowi- 10842CROUNDWATER SAMPLING PURCE FORMWell Construct of the Arts of the Movie of the Arts of		5.0						
EA Engineering, F.L. EA Science and Technology CROUNDWATER SAMPLING PURGE FORM Well LD: MW-103RE MW-			6.29					
0871 1146 6.25	2750 0.165	0.0	2.40			7.5		
0874 11 48 6.31	725 0,163	6.6	2 07					
0827 11,24 6,33	226 0,162	0.0	2.99					
EA Science and Technology Environmental Conservation GROUNDWATER SAMPLING PURCE FORM (Clicat: SileCOR: SileCOR						<u></u>		
If Engineering, P.C. EA Science and Technology GROUNDWATER SAMPLING PURCE FORM Well Conservation CROUNDWATER SAMPLING PURCE FORM Well Conservation Conservation <t< td=""><td></td></t<>								
		ļ						
	· · · · · · · · · · · · · · · · · · ·							
				<u></u>				
Total Quantity of Water Removed (gal):	II	<u></u>	I Sampling Ti	me:	0830	<u>ا ا</u>		
Samplers: <u>m.Gilker</u>	g K. Gassich	-	Split Sample	e With:	F	Ď		
Sampung Date:	1162 0	-	Sample Type	31	GRAR			
COMMENTS AND OBSERVATIONS:			<u> </u>		<u> </u>	····		
HARSTNE PUC JOINTSIS	out of line so the	_WLM a	1. Hoing	<u>) can't f</u>	it down(e			
	field	dup te	iken her	e				

		EA Enginee EA Science	ering, P.C. and Techno	ology		2	NEW YOF STATE OF OPPORTUNIT	K Departr	nent of mental		
			GROUND	VATER SAMP	LING PURG	E FORM	Yes.	Conserv	ation		
Well I.D.:	110-110	R	EA Personne	" Sidy		Client: * NYSDEC	51600 Saran	ac Lake	e Gusco		
Location: Saranac Lake (Gas Company, Inc	. (516008)	Well Condit	nued		Weather:	toof s	sunn			
Sounding M	ethod:	LM	Gauge Date:	5/3/17:	ζ	Measuremen	t Ref: TT	sc.			
Stick Up/Do	wn (ft):) \	Gauge Time	Aaz	-	Well Diamet	er (in):				
	Snu	24	I	0155			1				
Purge Date:	5/2	51123			Purge Time:	7758	7				
Purge Metho	dil 1540 - H	ow pen	PUMO		Field Techni	cian: assidu	0				
			1	Woll Vol							
A. Well Dep	th (ft): 20	.95	D. Well Vol	ume (ft):	2.041	Depth/Heigh	t of Top of P	VC:			
B. Depth to	Water (ft):	774	E. Well Volu	ume (gal) C*D):	0.257	Pump Type:	penista	172 0	UMA		
C. Liquid De	epth (ft) (A-B):	8.61	F. Three We	ll Volumes (gal)	(E3): L. 059	Pump Intake	Depth:	scree	<u>ייך</u> ר		
		<u> </u>			<u> </u>						
			1	Water Quality I	Parameters	20			<u> </u>		
Time (hrs)	(oC)	pH (pH units)	(mV)	(S/m)	(ntu)	DO (mg/L)	(ft btoc)	(Lpm)	Volume (liters)		
12758	15.92	6.50	-94	0.887	484	0.78	•	0.25			
ISI 125DFurge Method:Furge Method:Furge Method:Furge Method:Furge Method:Furge Method:Furge Method:Furge Method:Furge Method:Well VolumeWell VolumeWell Volume (ft):O . 041Depth/Height of Top of PVC:Pump Type:fl/1 Stal DL PurgPump Type:fl/1 Stal DL PurgC. Liquid Depth (ft) (A-B):8. (a)F. Three Well Volumes (gal) (E3): I. 059Pump Intake Depth: Midl-SCN20Water Quality ParametersWater Quality ParametersTime (pH units)PH (mV)Conductivity (S/m)Turbidity (ntu)DO (mg/L)DTW (ft btoc)Rate (Lpm)Volume (liters)D758IS-93(0.50-940.887L484 (0.780.250% O114. 67 (0.8666.866-125 (0.94170.407 243 (0.2000.25 (0.7550.755											
0804	14.35	6.94	- 136	0.959	220	0.56		025	1.50		
0807	14.20	6.95	-147	0.959	252	0.54		0.25	2.25		
0810	14.22	695	-151	0.959	432	0.53		0.25	3.00		
0813	14.01	6.98	-1510	0962	860	0.52	, v	0.25	3.75		
08/16	14.27	6.94	-161	0.935	*KO00*	0.51		0.25	4.58		
0819		10.90	-144	0.859	786	0.51		0.25	2.25		
1622	11.54	6.84	-148	Dasg	au o	0.46		0.25	10.60		
Well Volume A. Well Depth (ft): 20.95 D. Well Volume (ft): 0.041 Depth/Height of Top of PVC: B. Depth to Water (ft): $[2.39]$ E. Well Volume (gal) C*D): 0.353 Pump Type: $plui$ (41112 $punp$ C. Liquid Depth (ft) (A-B): 8.61 F. Three Well Volumes (gal) (E3): 1.659 Pump Intake Depth: 1.659 Water Quality Parameters Time Temperature pH (oC) (pH units) (mV) ($5/m$) (atu) (mg/L) (ft btoc) ($1pm$) (liters) 0.553 15.92 (650 -944 0.887 484 0.78 0.25 -773 0.535 15.92 (6.90 -125 0.9447 243 0.60 0.25 0.735 D/258 15.92 (6.944 -136 0.9459 22.0 0.564 0.25 7.255 0.601 14.07 6.860 -125 0.9459 22.0 0.564 0.25 7.255 0.601 0.255 -147 0.959 25.2 0.253 0.255 <t< td=""></t<>											
In suggest charge and Technology Imagest charge and Technology Imagest charge and technology VIII.D: CROUNDWATER SAMPLING PURGE FORM Imagest charge and technology Imagest charge and technology <thi< td=""></thi<>											
0021	IS IA	1. (19)		10 927	240	D LC		0.25	875		
2021	Auris Int-	1. 91	110	nand	air	010		075	9.00		
1054 0827	15-50	1. 00	<u> 162</u>		413	0,47		10 25	9 -1-5		
N021	13,15	4.75	160	0 0 2 2	100 AV	0.41		0.20	167		
0 10	10.04	0.41	180	0.766	2200	U.40		0.25	10,30		
0645	14.35	10.90	-157	875	14-5 ipport	1.30		$ 0, 25^{\circ} $	10.25		
<u>146</u>	<u>114.29</u>	16.42	-144	U. 568	1000 *	<u>V140</u>		10.25	160		
1 otal Quant	ity of water Re	movea (gal): 1/0 Al D_	Da		-	Sampling Tr	me: With	1001			
Samplers: Sampling D	ate:	Ke We	H · W		-	Sample Type	. , , , ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,,	and 1-			
Jan Pring D				4 - <i>3</i> *4	-	pro xyp		1			
COMMENT	'S AND OBSER	VATIONS:		0456:	Flushe	<u>d</u> Hor	They	V			
			<u> </u>	····							

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* turbidity maxed out

		EA Enginee EA Science	ring, P.C. and Techn	ology		2	NEW YOF STATE OF OPPORTUNIT	K Departr Environ Conserv	nent of mental vation					
			GROUND	WATER SAMP	LING PURC	E FORM		•						
$\mathcal{W}^{\mathrm{ellI.D.:}}$	W-110R	$\sum_{i=1}^{n}$	EA Personn	Lassidu		Client:								
Location:		-	Well Condit	ion:		Weather:		<u>``</u>						
Saranac Lake (Gas Company, Inc. athod:	(516008)	Carra Data	Pod		Measurement Ref:								
Jounding 141	ctilou.		5/	30/23	TOC									
Stick Up/Do	wn (ft): <u>XVP</u>		Gauge Time	0935	35 Well Diameter (in):									
Purge Date:	512.1	<u>.</u>			Purge Time:	0750		· . · · · ·						
Purge Methr	<u>~/)\/</u>				Field Techni	() () () () () () () () () () () () () (
low-	Flow pe	xi pun	vр		Ľ.	Cassie	ly							
				Well Vol	ume									
A. Well Dep	th (ft):		D. Well Vol	ume (ft):		Depth/Heigh	t of Top of P	VC:						
B. Depth to	Vater (ft):		E. Well Volt	tme (gal) C*D);		Pump Type:								
C. Liquid De	epth (ft) (A-B):		F. Three We	ll Volumes (gal)	(E3):	Pump Intake	Depth:		•					
· · · · ·														
Time	Temperature	pH	ORP	Conductivity	Turbidity	DO	DTW	Rate	Volume					
(hrs)	(0C)	(pH units)	(mV)	(S/m)	(ntu)	(mg/L)	(ft btoc)	(Lpm)	(liters)					
0849	15.88	6,93	-147	0.865	1000+	1.05		0.25	12.75					
0852	15.80	6.88	-165	0.847	1000*	1.05		0.25	13.50					
0000	21 OU	1. 76	-00	DU 7105	-772-	124		0.75	14.75					
ngolf	2027	1.100	-1001	0769	innot	2 21		0.7-	1500					
0907	20,29		~ 8LI	nece	10000	0.57		0.25	15-25					
Calo	2005	660	-100	0750	10000	018		$\bigcirc 2$	16.57					
$\frac{O(10)}{O(12)}$	asu	1.67	-101	07103	1000t	DU7		0.5	1225					
OUIS OUIS	10 110	N. 74	-Inc	0 752	1000#	O		0.5	180					
in la	10,112	6 79	-112	0755	1000	0 27		025	10.00					
M 11	11.73 A 474	1.61	170	1 -5-11	10001	0.21		0 25	16 -7					
OUT -	057		125	0.15-	1000 32	0.00		0.25	2025					
MATR		4.0V	124	0.700		0.51		0.20	10.03					
MLB AU21		UNO -	- 10	0.700		0.36		0.25	2100					
<u>075</u>	19.94	10.19	157	10, 775	1000th	0:50		0.75	11.17					
<u>0454</u>	20.03	6.79	- 158	4.155	780	W. 55		0.25	12.50					
0937	20.08	6.17	-142	<u> 0.754</u>	10007	0.35		0.25	23.25					
0440	20.12	6.78	1-148	0-748	1000*	10.35		0.25	24.00					
Fotal Quanti	ty of Water Ren	noved (gal):				Sampling Ti	ne:							
Samplers:	, to					Split Sample	With:							
samping Da	ис.		, · ·		-	Sample Type								
COMMENT	S AND OBSER	VATIONS:		0858:	Flush	ned H	oriba	<u> </u>						

	A	EA Enginee EA Science	ring, P.C. and Techno GROUNDV	ology VATER SAMP	LING PURG	E FORM	NEW YOR STATE OF OPPORTUNIT	K Departn Environ Conserv	nent of mental ⁄ation	
Well I.D.:	1 110 0		EA Personne	el:		Client:				
MM	1-110K		K.C	assidy		NYSDEC				
Location:		(E1 () 00)	Well Condit	ion:		Weather: 7	105 0	A.I		
Saranac Lake C	ethod:	(316008)	Gauge Date:			Measuremen	/ <u>F SUN</u> t Ref:	<u></u>		
			\$/3	0/23		100	-	~		
Stick Up/Dov Strck	wn (ft): CVP		Gauge Time	35	***	Well Diamet	er (in): \			
Purge Date:	5/31/2	3		<u>, , , , , , , , , , , , , , , , , , , </u>	Purge Time:	0758				
Purge Metho	d: low ppr	i pump			Field Techni	cian: (assrdu	1			
		1 1					<u> </u>			
A. Well Dept	th (ff):		D. Well Vol	well Vol	ume	Denth/Heigh	t of Top of P	VC•		
A. Hen Dep	un (14)•		D, Well Vol	ume (11).		Deptiviteign		¥ C.		
B. Depth to V	Vater (ft):		E. Well Volu	ıme (gal) C*D):		Ритр Туре:				
C. Liquid De	epth (ft) (A-B):		F. Three We	ll Volumes (gal)	(E3):	Pump Intake	Depth:			
			1	Water Quality I	Parameters					
Methods Department of Environmental Conservation GROUNDWATER SAMPLING PURGE FORM New Properties of Conservation CROUNDWATER SAMPLING PURGE FORM New Properties of Conservation Client: Method: Operation of Conservation Set Compare, inc. (51608) Well Condition: Weather: To C Sindifice: New Well Condition: Weather: To C Sindifice: Method: Client: Condition: Method: Group of the Condition: Weather: New Condition: Sindifice: Purge Time: OTS8 Weath Volume (fg): Depth/Height of Top of PVC: A weath (fg): Purge Time: OTS8 Weath Volume (fg): Purge Time: OTS8 Three Well Volume (fg): Purge Type: Three										
	20 17	$10 \le 0$	-152	107117	874	0211	(It bloc)		(Inters)	
MILLO	20.1	1.77	L152	0728	783	0.24		0.20	5:3	
601 à	Reference and Technology GROUNDWATER SAMPLING PURGE FORM GROUNDWATER SAMPLING PURGE FORM III ID: A Engineering, P.C. CROUNDWATER SAMPLING PURGE FORM III ID: A Engineering, P.C. Method: Clean: Method: Clean: Method: Group of Proceed of Proce									
EA Engineering, P.C. EA Science and Technology Departs CROUNDWATER SAMPLING PURGE FORM Well LING, PURGE FORM Well Confiltion: Standard Science Purget Science and Technology Vell Confiltion: Standard Science Purget Science Colspan="2">Operation: Science Colspan="2">Conversion: Science Colspan="2">Science Colspan="2">S										
EA Brigineering P.C. EA Science and Technology CROUNDWATER SAMPLING PURGE FORM Well LD: MAN-110 R PA Personal: CASE Colspan="2">Control of Entric Purpose Colspan="2">Purpose Colspan="2">Control of Entric Purpose Colspan="2">Control of Entric Purpose Colspan="2">Purpose Colspan="2">Control of Entric Purpose Colspan="2">Purpose Colspan="2">Control of Entric Purpose Colspan="2">Colspan="2">Colspan="2">Control of Entric Purpose Colspan="2">Colspan="2">Control of Entric Purpose Colspan="2">Purpose Colspan="2">Control of Entric Purpose Colspan="2">Colspan="2">Control of Entric Purpose Colspan="2">Control of Entric Purpose Colspan="2">Contrel Colspan= Colspan= Colspan="2">Control of Entric Purpose Colsp										
1055	20,37	10.11		0 722	119	022	,	025	<u> 7 8 7 7</u>	
	20,44	10.17	-11010	0.723	11.9	035		0.2	29.30	
	20.44	ψ_{11}	$-R\rho$	0.125	411	435		0,75	1.10	
							•			
					· · ·	· · · · ·				
Total Quanti	ty of Water Rer	noved (veli		2020	1 "']	Sampling Ti	mer	100		
Samplers:	sy of real of the	(Bar).		64.63		Split Sample	With:	<u> </u>	!	
Sampling Da	ite:				-	Sample Type	21	gras		
COMMENTS	S AND OBSER	VATIONS:						1		
			•							

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		EA Enginee EA Science	ring, P.C. and Techno	ology		2	STATE OF OPPORTUNIT	Conserv	nent of mental vation
			GROUNDV	VATER SAMP	ING PURG	E FORM			
Well I.D.:	141-704	5	EA Personne	1		Client: <	76008	naoL	1/06
Location:	100 601	<u> </u>	Well Conditi	ion:		Weather:			of prints (
Saranac Lake	Gas Company, Inc	2, (516008)	(1	bod	· · ·	4		<u>unny</u>	
Sounding N	Lewn	WLM	Gauge Date:	5/30/23		Measuremen	t Kei:		
Stick Up/D	own (ft):		Gauge Time	Xar		Well Diamet	er (in):	·· · ·	
	stick up	<u> </u>		01>2			b		
Purge Date	5122	>12.2			Purge Time:	171 1		· · · ·	
Purge Meth	und:	1-3			Field Techni	cian:			
10	ru-flow	per p	440		K.C	assidy	<u> </u>		.
		<u> </u>	۲	TA7-11 37-1		(
A. Well De	oth (ft):		D. Well Volu	ime (ft):		Depth/Heigh	t of Top of P	VC:	
		28.20		<u> </u>	<u>041</u>				
B. Depth to	Water (ft):	2.96	E. Well Volu	me (gal) C*D):	9.625	Pump Type:	Denich	alhe	Aunin
C. Liquid I	epth (ft) (A-B):	10 211	F. Three Wel	l Volumes (gal)	(E3):	Pump Intake	Depth:	1	<u> </u>
		13.64			1.8+		<u>1121-500</u>	rela	
·····			•	Vater Ouality I	arameters				<u> </u>
Time	Temperature	pH	ORP	Conductivity	Turbidity	DOtto	DTW	Rate	Volume
(hrs)	(oC)	(pH units)	(mV)	(S/m)	(ntu)	(mg/L)	(ft btoc)	(Lpm)	(liters)
1201	20.90	4.77	234	0.171	0.0	10.23		0.25	0-
ጠበጠርም	1 [4 44	1.01	666	0.177	0.0	17 . 4 10		0.23	0.15
1201	5.50	Hanne	0.0	מנות ו	A.A	0.11		1 1 7	158
1207	15.35	4.77	292	0.159	0.0	9.18		0.25	1.50
12107	15:39	4.63	247-308	0.162	0.0	9.00 8.73		0.25	1.58 2.25 3.00
1213	15:37 15:35 15:30 15:15	4.53 4.53 4.55	247- 247- 308 304	0.161 0.162 0.163	0.0 0.0 0.0	9.06 9.06 8.73 8.60		0.25 0.25 0.25	1.50 2.25 3.00 3.75
1213 1213 1214 1219	15:35 15:35 15:35 15:15 15:15	4.58 4.58	290 247 308 304 300	0.162 0.162 0.163 0.164	0.0 0.0 0.0 0.0 0.0	9.18 9.00 8.73 8.60 8.33		0.25 0.25 0.25 0.25	1.50 2.25 3.00 3.75 4.50
1213 1213 1219 1219 1222	15:39 15:35 15:35 15:15 15:15 15:25	4.58 4.57 4.57	292 247 308 304 300 297	0.162 0.162 0.163 0.164 0.164	0.0 0.0 0.0 0.0 0.0	9.18 9.00 8.73 8.60 8.33 8.13		0.25 0.25 0.25 0.25 0.25 0.25	1.50 2.25 2.20 7.70 7.70 7.70 7.70 7.70 7.70 7.70
1213 1213 1214 1219 1219 1222 1225	15:35 15:35 15:15 15:15 15:15 15:25 15:25 15:27	4.53 4.53 4.58 4.57 4.57 4.57	292 247 308 304 300 297 297 294	0.162 0.162 0.163 0.164 0.164 0.164 0.164	0.0 0.0 0.0 0.0 0.0 0.0 0.0	9.18 9.06 8.73 8.60 8.33 8.13 7.91		0.25 0.25 0.25 0.25 0.25 0.25 0.25	1.50 2.25 3.00 3.75 4.50 4.50 4.50
1213 1213 1213 1219 1219 1222 1225 1228	15:39 15:35 15:35 15:30 15:15 15:20 15:25 15:27 15:39	4.58 4.58 4.58 4.57 4.59 4.59 4.59	297 297 308 304 300 297 294 294 290	0.162 0.162 0.162 0.163 0.164 0.164 0.165 0.165 0.165	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	9.16 9.00 8.73 8.40 8.33 8.13 7.91 7.58		0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	1.50 2.25 3.07 4.55 5.25 6.07 5.25 6.07 5.25 6.07 5.25 6.07 5.25 6.7 7
1213 1213 1216 1219 1219 1225 1225 1228 1231	15:35 15:35 15:35 15:15 15:15 15:25 15:25 15:27 15:39 15:39	4.58 4.58 4.58 4.57 4.59 4.59 4.59 4.59 4.59 4.59 4.59 4.59	290 297 308 304 300 297 294 290 287 287	0.162 0.162 0.163 0.163 0.164 0.164 0.165 0.165 0.165	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	9.18 9.06 8.73 8.60 8.33 8.13 7.91 7.58 7.10		0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	1.50 225 3.07 4.50 4.50 4.50 4.50 4.50 4.50 4.50 5.00 5.0
1207 1218 1213 1219 1219 1219 1225 1225 1225 1231	15.35 15.30 15.15 15.25 15.25 15.25 15.25 15.25 15.25 15.39 15.86 15.86	4.58 4.58 4.58 4.57 4.59 4.57 4.59 4.59 4.59 4.59 4.59 4.59 4.59	297 297 308 304 300 297 294 290 287 288 287	0.162 0.162 0.163 0.164 0.164 0.164 0.165 0.165 0.165		9.18 9.00 8.33 8.40 8.33 8.13 7.91 7.58 7.10 7.58 7.10 7.58		0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	1.50 2.25 3.07 4.50 4.50 4.50 4.50 4.50 4.50 4.50 4.50
1213 1213 1219 1219 1219 1229 1225 1225 1225 1231	15:39 15:35 15:30 15:15 15:20 15:25 15:25 15:27 15:39 15:39 15:39 15:39 15:39 15:39 15:39 15:39 15:39 15:39	4.58 4.58 4.58 4.58 4.58 4.57 4.59 4.59 4.59 4.59 4.59 4.59 4.59	297 297 308 304 300 297 294 290 287 288 -109	0.162 0.162 0.162 0.163 0.164 0.165 0.165 0.165 0.165 0.165 0.165		9.18 9.05 8.73 8.40 8.33 8.13 7.91 7.58 7.10 7.58 7.10 7.58 7.10 7.58 7.10 7.58 7.10 7.58		0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	1.50 2.25 3.75 4.50 4.75 4.75 4.75 4.75 4.75 4.75 4.75 4.75
1213 1213 1213 1219 1219 1219 1229 1225 1225 1225 1234 1300 1303	15:39 15:35 15:35 15:30 15:15 15:20 15:25 15:25 15:25 15:39 15:86 15:86 15:86 15:86 15:86 15:86 15:86 15:86 15:39	4.58 4.58 4.58 4.58 4.58 4.58 4.58 4.59 4.59 4.59 4.59 4.59 4.50 4.50 4.50 4.50 4.50 4.50 4.50 4.50	297 297 308 304 300 297 297 294 290 287 288 -109 -111	0.162 0.162 0.163 0.163 0.163 0.165 0.165 0.165 0.165 89.1 89.1 88.8	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	9.16 9.06 8.73 8.40 8.33 8.13 7.91 7.58 7.10 7.58 7.10 7.58 7.10 7.58 7.10 7.58 3.04 3.04		0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	1.50 2.25 3.75 4.55 6.07 7.50 4.25 6.25 9.00 7.50 4.25 9.00 7.50 9.00 7.50 9.00 7.50 9.00 7.50 9.00 7.50 9.00 7.50 9.00 7.50 7.50 7.50 7.50 7.50 7.50 7.50 7
1213 1213 1213 1219 1219 1219 1219 1225 1225 1225 1225	15:39 15:30 15:15 15:20 15:25 15:25 15:29 15:39 15:86 15:86 15:86 15:86 15:86 15:86 15:86 15:86 15:86 15:86 15:39 15:86 15:39	4.58 4.58 4.58 4.58 4.58 4.57 4.59 4.59 4.59 4.59 4.59 4.59 4.59 4.59	292 297 308 309 300 297 290 297 290 287 288 -109 -111 -112	0.162 0.162 0.163 0.163 0.164 0.165 0.165 0.165 0.165 89.1 89.8 88.8	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	9.18 9.05 8.60 8.33 8.13 7.91 7.58 7.10 7.58 7.10 7.58 7.10 7.58 7.10 7.58 3.50 4 3.50 4 3.50 3.50 4 3.50 3.50 4 3.50 3.50 4 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50		0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	1.50 2.25 3.07 4.50 5.20 7.50 7.50 7.50 7.50 7.50 7.50 7.50 7.5
1207 1218 1218 1219 1219 1219 1229 1225 1225 1225 1225	15:39 15:35 15:35 15:30 15:15 15:20 15:25 15:25 15:27 15:39 15:86 15:86 15:86 15:86 15:86 15:86 15:86 15:86 15:39 15:86 15:39 15:39 15:39 15:35	4.58 4.58 4.58 4.58 4.58 4.57 4.59 4.59 4.59 4.59 4.59 4.59 4.59 4.59	297 297 308 304 300 297 297 297 290 287 288 -109 -111 -112	0.162 0.162 0.162 0.163 0.163 0.165 0.165 0.165 0.165 0.165 89.1 88.8 88.8	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	9.18 9.00 8.33 8.40 8.33 8.13 7.91 7.58 7.10 7.58 7.10 7.58 7.10 7.58 3.54 3.54 3.54 3.4.80 3.4.80		0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	1.50 2.25 3.75 4.50 6.75 4.50 6.75 7.50 9.00 4.55 9.00 4.55 9.00 4.55 9.00 4.55 9.00 4.55 9.00 4.55 9.00 9.55
1207 1213 1213 1219 1219 1219 1229 1225 1225 1225 1234 1234 1300 1300 1300 1300 1300 1300 1300	15:39 15:35 15:35 15:30 15:15 15:20 15:25 15:25 15:20 15:25 15:25 15:20 15:25	4.58 4.58 4.58 4.58 4.58 4.58 4.57 4.59 4.59 4.60 21.62 55 6.54 6.54 (e.54 (e.54)	297 297 308 304 300 297 294 290 287 287 288 -109 -111 -112	0.162 0.162 0.162 0.163 0.164 0.165 0.165 0.165 0.165 89.1 89.1 88.8	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	9.16 9.06 8.73 8.40 8.33 8.13 7.91 7.58 7.10 7.58 7.10 7.58 3.13 7.91 7.58 7.10 7.58 3.13 7.91 7.58 7.10 3.4.80 3.4.74 3.4.74		0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	1.50 2.25 3.07 4.50 4.50 6.07 7.50 6.25 9.00 9.75 10.50 9.75 10.50
1207 1213 1213 1219 1219 1219 1219 1225 1225 1225 1225 1225 1225 1225 1234 1300 1000	15:39 15:35 15:35 15:15 15:15 15:25 15:25 15:27 15:39 15:86 15:86 15:86 15:86 15:86 15:86 15:86 15:86 15:86 15:86 15:86 15:44 15:86 15:45 15:25	4.53 4.53 4.58 4.58 4.57 4.57 4.57 4.57 4.59 4.59 4.59 4.50 4.50 4.50 4.50 4.50 4.50 4.50 4.50	297 297 308 304 300 297 290 297 290 287 288 -109 -111 -112	0.162 0.162 0.163 0.163 0.164 0.165 0.165 0.165 0.165 89.1 89.1 88.8 88.8	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	q.16 9.06 8.73 8.60 8.33 8.13 7.91 7.58 7.91 7.58 7.10 7.58 7.10 7.58 7.10 3.1.04 3.1.04 3.1.04 3.1.04 3.1.04 3.1.04 3.1.04 3.1.04 3.1.04 3.1.04 3.1.04 3.1.04 3.1.04 3.1.04 3.1.04 3.1.04 3.1.04 3.1.04 3.1.04 3.1.04 3.1.04 3.1.04 3.1.04 3.1.04 3.1.04 3.1.04 3.1.04 3.1.04 3.1.04 3.1.04 3.1.04 3.1.04 3.1.04 3.1.04 3.1.04 3.1.04 3.1.04 3.1.04 3.1.04 3.1.04 3.1.04 3.1.04 3.1.04 3.1.04 3.1.04 3.1.04 3.1.04 3.1.04 3.1.04 3.1.04 3.1.04 3.1.04 3.1.04 3.1.04 3.1.04 3.1.04 3.1.04 3.1.04 3.1.04 3.1.04 3.1.04 3.1.04 3.1.04 3.1.04 3.1.04 3.1.04 3.1.04 3.1.04 3.1.04 3.1.04 3.1.04	me:	0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	1.50 2.25 3.00 4.50 4.50 4.50 4.50 4.50 4.50 4.50 4
1207 1213 1213 1219 1219 1219 1229 1225 12300 130	15:39 15:35 15:30 15:15 15:20 15:25 15:25 15:27 15:39 15:86 15:86 15:86 15:86 15:86 15:86 15:86 15:86 15:86 15:86 15:86 15:39 15:86 15:39 15:40 15:40 15:25	4.63 4.58 4.58 4.58 4.58 4.58 4.57 4.59 4.59 4.59 4.60 4.60 4.60 4.60 4.60 4.59 4.59 4.59 4.59 4.59 4.59 4.59 4.59	297 297 308 304 300 297 294 290 287 288 -109 -111 -112	0.162 0.162 0.163 0.164 0.164 0.165 0.165 0.165 0.165 89.1 89.1 88.8 \$8.8	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	9.16 9.06 8.73 8.60 8.33 8.13 7.91 7.58 7.10 7.58 7.10 7.58 3.1.3 7.91 7.58 3.1.3 7.91 7.58 3.1.3 7.91 7.58 3.1.3 7.91 7.58 3.1.3 7.91 7.58 3.1.0 7.40 3.1.59 7.10 7.50 3.1.59 7.10 7.58 3.1.59 7.10 7.58 3.1.59 7.10 7.58 3.1.59 7.10 7.58 3.1.59 7.50 8.33 8.1.59 7.50 7.50 7.50 7.50 7.50 7.50 7.50 7.50	me: 2 With: 2:	0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	1.58 2.25 3.07 4.58 5.25 6.07 7.58 6.25 9.00 4.05 7.58 9.00 4.05 7.58
1207 1213 1213 1213 1219 1219 1219 1219 1225 13000 13000 13000 13000 13000 13000	15:39 15:35 15:35 15:15 15:25 15:25 15:25 15:25 15:25 15:25 15:25 15:26 15:39 15:86 15:86 15:86 15:86 15:86 15:86 15:44 15:86 15:44 15:86 15:44 15:35 15:25	4.58 4.58 4.58 4.58 4.58 4.58 4.58 4.57 4.59 4.60 21.62 6.54 6.54 6.54 (e.54 (e.54) (e.54) (e.54) (e.54)	297 297 308 304 300 297 297 294 290 287 288 -109 -111 -112	0.162 0.162 0.162 0.163 0.163 0.165 0.165 0.165 0.165 89.1 88.8 \$8.8	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	9.16 9.06 8.73 8.60 8.33 8.13 7.91 7.58 7.10 7.58 7.10 7.58 7.10 7.58 7.10 7.58 7.10 7.58 7.10 7.58 7.10 7.58 7.10 7.58 7.10 7.58 7.10 7.58 7.10 7.58 7.10 7.58 7.10 7.58 7.10 7.58 7.10 7.58 7.10 7.58 7.10 7.58 7.10 7.58 7.10 7.58 7.10 7.58 7.10 7.58 7.10 7.59 7.10 7.59 7.10 7.59 7.10 7.59 7.10 7.59 7.10 7.59 7.10 7.59 7.10 7.59 7.10 7.59 7.10 7.59 7.10 7.59 7.10 7.59 5.04 3.1.5 5.04 3.1.5 5.04 3.1.5 5.04 3.1.5 5.04 3.1.5 5.04 3.1.5 5.04 3.1.5 5.04 3.1.5 5.04 3.1.5 5.04 3.1.5 5.04 3.1.5 5.04 3.1.5 5.04 3.1.5 5.04 3.1.5 5.04 5.05 5.04 5.05 5.04 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.055.05 5.05 5.055.0	me: With: 2:	0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	1.58 2.25 3.00 3.75 4.58 5.25 6.00 6.75 7.58 6.25 9.00 9.75 10.50

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EA Enginee EA Science	EA Engineering, P.C. EA Science and Technology						nent of mental /ation
	GROUNDW	VATER SAMP	LING PURG	E FORM		· · · · · · · · · · · · · · · · · · ·	
Well I.D.: 1110-204	EA Personne	1. 1. (2) ()		Client: 5	16028	mac Lab	4 Garro
Location:	Well Conditi	on:		Weather:	F Gu		
Saranac Lake Gas Company, Inc. (516008)	Gauge Date:			Measuremen	<u> </u>	my	
EA Engineering. P.C. EA Science and Technology GROUNDWATER SAMPLING PURCE FORM CELLU: Well Condition: Well Condition:		TUC	-				
Stick Up/Down (ft):	Gauge Time:	0935	-	Well Diamet	er (in):		
	<u>.</u>						
Purge Date: 530/23			Purge Time:	1332			
Purge Method:			Field Techni	cian:			
Causar jen	punp						
		Well Vol	ume				
A. Well Depth (ft): 31, 50	D. Well Volu	ume (ft): 0.	041	Depth/Heigh	t of Top of P	VC:	
B. Depth to Water (ft): 13.36	E. Well Volu	me (gal) C*D): (0.744	Pump Type:	penit	othe p	amp
C. Liquid Depth (ff) (A-B): (2.14)	F. Three Wel	l Volumes (gal)	(E3): 2·23	Pump Intake	Depth: Micl	-scree	1
		ATakan Ossaliku l	P				
Time Temperature pH		Conductivity	Turbidity	DO	DTW	Rate	Volume
(hrs) (oC) (pH units)	(mV)	(S/m)	(ntu)	(mg/L)	(ft btoc)	(Lpm)	(liters)
1332 13.18 7.13	-257-	81.4	91	27.70	13.40	0.25	
1335 12.38 7.14	-261	833	127	28.56	13.40	0.25	0.75
1338 11.77 7.15	-245	84.6	139	29.09	(1.40	0.25	1.5
1341 11.472 7413	-20+	25.3	1770	29.55	13.40	015	2.03
S-T-111.10 715	-20x	80	140	300	13. 4	6.43	7,00
134 - 10. 40 11	-107	X6.7	110	2.39	15.20	~ 75	STU
12:57 10.92 7.14	-1 (- ()	2/08	01 9	2	17 40	0.63	ようら
1270 10 77 7.13	-1 (20	No.9	80,6	204	10.510 7.40	0.25	(0. 8b)
1359 1ARL 7.15	-7.66	XI. 7		70.27	12.40	0.25	6.25
1402 16.65 7.14	-1 (14	87.2	30.0	108.	13.46	n.25	7.0
1405 10.22 1.13	-114	\$1	27.4	38.51	13.40	0.25	6.25
14158 10.58 714	-264	\$1.4	273	3069	13.40	0.25	9.00
1411 10.77 7.13	-264	\$6.1	2.7.1	3035	17.40	025	475
						· 0	
			<u> </u>				
		1 m de l		Compline Th		// . //	
Samplers:		4,756	-	Split Sample	With:	MIM	<u>SD</u>
Sampling Date: 51301	23		-	Sample Type	3:	Grab	
COMMENTS AND OBSERVATIONS:		MS/MSD	calleof	ed		0	
				• •			

		EA Enginee	ring, P.C.	-1			NEW YOR STATE OF OPPORTUNIT	K Depart	ment of mental
		EA Science	and Techn	Dage 1 or	F2_		Y	Conser	vation
			GROUND	VATER SAMP	LING PURC	E FORM	<i></i>	``	
Well I.D.:			EA Personne	el:	_	Client:	(51600	28)	1
<u> </u>	1-2053		Miaik	ey K. Cas	<u>sidy </u>	NYSDEC (St	urainac la	reclas Cl	シ
Location:	Cas Company Ing	(516008)	Well Condit	ion:	'	Weather:		WSW	
Sounding M	ethod:	(010008)	Gauge Date	<u></u>		Measuremen	t Ref:	2.44	
Heron	WLM		05	130/23		T	DC. PVC		
Stick Up/Do	wn (ft):		Gauge Time	0935		Well Diamet	er (in):		
· · ·	1314			0107		1	" PVC		
Purgo Dato					Burgo Timo				
ringe Date:	DElania	2. ²⁵			ruge i mei	142	S		
Purge Metho	d:	0			Field Techni	cian:	•		
	Low Flow	- Peni Pi	MMp		mau	Key/K.	Cassidy	M. Coles.	Carriether
						<u>، ، ، ، ، ، ، ، ، ، ، ، ، ، ، ، ، ، ، </u>		:	
				Well Vol	ume	r 			
A. Well Dep	^{th (ft):} 19	,60	D. Well Vol	ume (ft):	041	Depth/Heigh	nt of Top of P	VC:	
B. Denth to Y	Vater (ft)	100	F Well Volt	tme (gal) C*D);		Pump Type			
D. Deptitio	(int).	.92	L. WEIL VOI	anc (gai) C 10).	0.3/5	Perris	tatte Pu	MAD	
C. Liquid De	pth (ft) (A-B):	710	F. Three We	ll Volumes (gal)	(E3):	Pump Intake	Depth:		
		7.08		(<u>0.945</u>	mi	a-scree	<u>и </u>	
			<u>ا</u>	Water Quality I	Parameters	A	<u>}</u>		
Time	Temperature	рн 🕖		Conductivity	Turbidity		DTW	Rate	Volume
(hrs)	(oC)	(pH units)	(mV)	(S/m) V	(ntu)(V	/ (mg/L)	(tt bloc)	(Lpm)	(liters)
426	27.30	8.86	62	0,118	80.5	4.64	12.49	0.25	
1429	22.90	7.87	172	0.129	60.2	3.47	12.94		1.25
1432	20.98	7.68	200	0.125	69.3	3.09	12.93	<u> </u>	2.50
1435	20.29	7.35	217	0.122	/03	3.01	12.93		3.75
1438	18.87	7.19	223	0.122	110	3.00	12.93	3	5.00
1441	18,23	7.02	227	0.119	117	2.9			6.25
1444	18.41	6.85	229	0.120	113	2.75			7.50
1447	18 44	6.73	231	0.120	104	2.72			8.75
1450	18.64	6.62	230	0.120	93.4	2.66			10.00
1453	18.69	6.54	226	0.121	90.5	2.74			11.25
1456	18.66	6.47	2.21	0.122	83.2	2.74			12.50
1459	18.64	6.4-2	226	0.121	88.9	2.60			13.76
1502	18.21	(0.4)	236	0.121	70.10	2.48			150
1606	18.14	6. 28	1.31	0 120	600	2.21			16.20
160%	18 77	1. 22	721.	0.120	1.66	1. 62			17.6
1011	18 22		7 2 n	0.100	1.2.1	1.60	 :		18 76
1911	8.22	10 2A	2.20	0 1- 0	60.74	1.0		$\left \right $	200
Total Oward	ty of Water Per	noved (gal)	ा म्या जिल्ला विकास	$\frac{10}{20}$	<u>אימכו</u> גי	Sampling Ti	mer	1620	1000
Samplere	ty of water Ker	moven (gan):	ALK M.	- 48. 15C	<i>⊢)</i>	Split Sample	With	<u></u>	·
Sampling Da	ıte:	5/201-2	<u>a rencus</u>	siring		Sample Type	2:	CRAR	
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COMMENT	S AND OBSER	VATIONS:							
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	A	EA Enginee EA Science	ring, P.C. and Techno	ology pacy	e Z of	2 2	NEW YOF STATE OF OPPORTUNIT	K Departu Enviror Conser	ment of Imental vation
			GROUNDW	VATER SAMPI	LING PURG	E FORM			
Well I.D.:	2000		EA Personne	1: LARA		Client:	iranoq	LOUR	67010
Location:	2055		Well Conditi	ion;		Weather:		reora	
Saranac Lake C	Gas Company, Inc.	. (516008)		see p	ade 1		80°F	Junn	,
Sounding M	ethod:		Gauge Date:	•	0	Measuremen	t Ref:	/	
Stick Up/Do	wn (ft):		Gauge Time:	:		Well Diamet	er (in):		
P. D./					D				
Purge Date:			Ceo	Dack	Purge Time:				
Purge Metho	d:				Field Techni	cian:			
	· · · · · · · · · · · · · · · · · · ·			XAT-11 X7-1					
A Well Dep	th (ft):		D. Well Volu	Well Volt	ume	Denth/Heigh	t of Top of P	VC:	· · · · · ·
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B. Depth to V	Water (ft):		E. Well Volu	me (gal) C*D):	•	Pump Type:			
C. Liquid De	epth (ft) (A-B):		F. Three Wel	l Volumes (gal)	(E3):	Pump Intake	Depth:		
			V	Vater Quality I	arameters			<u> </u>	
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1520	18.29	631	240	0.121	33.2	1.62	12.94		22.5
1523	18.17	6.30	271	0.120	35.4	1.59	10:04		23.75
1526	18.01	6.30	293	0.170	25.7	1.56	•		25.0
1529	17.92	6.30	244	0.120	18.8	1.49			26.25
1532	18.01	6.30	245	0.120	20.5	1.45			27.5
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C. Liquid De	pth (ft) (A-B):	71.20	F. Three Wel	l Volumes (gal)	(E3):	Pump Intake	Depth:	1 - 11-	
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1420	25.78	6.51	-84	0. K+6	37.3	0.0	00-00-0		9.00
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Site Management Plan - Saranac Lake Gas Co. OU02 OU03 NYSDEC - Site No. 516008 MACTEC Engineering and Geology, P.C. - 3617207518

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

General Information		
Inspector Name:	Katie Cauridy	
Inspection Date:	5/30/23	
Weather (AM/PM):	70°F Junny / 80°F Junny	
Purpose for Inspection:	Annual requirement, QZ sampling even	L.
-		
Comments:		

B. Site Property (OU01)

A.

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?	\times	
2. Are there bare, dead or damaged vegetated areas along the	$\overline{\mathcal{K}}$	
wetland at the north end of the site?		
3. Is there any erosional damage to the slopes of the soil cover?	\overline{X}	
4. Is there any evidence of excavation or damage to the soil cover?	X	
5. Is there visible damage to the perimeter fence?		X
6. Is there visible damage to any of the monitoring wells?	X	<u> </u>
7. Is there any ponding water on or around the soil cover?	×	
8. Has any wildlife (terrestrial or aquatic) been observed?		$\overline{\times}$
12. Were any groundwater samples collected?	<u></u>	X
If so, what is the sample ID(s)?		`

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

Outer	perimeter	fence	by sile	enh	ance	hes	been	domag	e.f
<u> </u>	downe	d the	e. A	few	deser	obs	ened	walking	<u>م</u>
thin	wah 001	4							J

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.

- 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?

July 2022

No Yes

Site Management Plan - Saranac Lake Gas Co. OU02 OU03 NYSDEC - Site No. 516008 MACTEC Engineering and Geology, P.C. - 3617207518

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5. Are there bare, dead or damaged vegetated areas along bank?

- 6. Is there any erosional damage to the banks?
- 7. Has backfill (construction) sediment accumulated in any locations? If yes, photograph.
- 8. Is there any evidence of damage to the RCM?
- 9. Are monitoring points in the proper, upright position?
- 10. Insert the oil-water interface probe into each RCM monitoring stickup; is an interface observed? If yes, explain.
- 11. Is any wildlife (terrestrial or aquatic) observed?
- 12. Were any sediment/water samples collected?
 - If so, what is the sample ID(s)?

Comments: (Please comment for each question answered "yes") A few fish were observed in Brandy Browk.

N/A

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.

- 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)? 54-403

Comments: (Please cor	nment for each qu	uestion answere	ed "ves")	
_ A few +	Fish obcer	ved in	Pontize	Bau

No

Ν

Yes

Site Management Plan - Saranac Lake Gas Co. OU02 OU03 NYSDEC - Site No. 516008 MACTEC Engineering and Geology, P.C. - 3617207518

E. Site Management Activities

Upon completion of the inspection the following should be checked for compliance with the SMP.

1. Was routine sampling conducted during this inspection?	No	Yes
2. Was a Health and Safety Inspection Conducted?		<u> </u>
3. Are there any known missing site records?		<u> </u>
4. Are Engineering controls performing as designed?		
5. Do EC/ICs continue to be protective of human health and the environment?		<u> </u>
6. Is the remedial performance criteria being achieved?		<u></u>
7. Is the site in compliance with the requirements of the SMP?		5

Comments: (Please comment for each question answered "no")

Notes from last inspection: (Please review and comment)

Kape Cassid Inspector 7 Cassid

Signature

Reviewer

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130/2023

Date

Date

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			-					
r clear	EE '	31.17	8.02	τĩ	0.130	6.8	105	
	(mV)	(°C)	(mg/L)	(ntu)	(mS/cm)	(pH units)	(hrs)	
Weather:	ORP	Temp	DO	Turb.	Cond.	РЧ	Time	
Surface Condi			ameters	Quality Par	Water			
Water Body Lo		1 1						Reference Description:
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5/31/2

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typhis te				e Water			TIME TIME	DATE DATE	Start Finish		Street 1 of 1	Sample Location ID:	

5/12/12

	Sampling Time: (24) Split Sample With: <u>KS/N</u> Sample Type: <u>Gra</u> 5						Ke 2/3/12	noved (gal):	Total Quantity of Water Ren Samplers: Sampling Date:
	Clear	28	29.60	q. 19	-9	0, 142	1 1 1 1 1	124	
rface Water	Description of Sur	(mV)	(°C)	(mg/L)	(ntu)	(mS/cm)	(pH units)	(hrs)	
	Weather:	ORP	Temp	DO	Turb.	Cond.	Нď	Time	
	Surface Conditions:			meters	Quality Para	Water			
TIME			8						
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Sérana	Job. No. Chent: NYSDEC Project: Saranac Lake Gas Co.				iliate	and Its Aff	eering, P.C.	EA Engin	

Total Quantity of Water Remo Samplers: Sampling Date:	T						werene beserbron	Reference Elevation:	Surface Water Elevation:	Coordinates:			
ved (gal):			1320	(hrs)	Time							A Scienc	lA Engine
5131			7.56	(pH units)	РH					Northing:	SURFACE	e and Tech	ering, P.C.
221			0.163	(mS/cm)	Cond.	Water					WATER SAM	nology	and Its Aff
			12.2	(ntu)	Turb.	Quality Para				Easting:	APLE LOG		iliate
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			37.76	(°C)	Temp		·		•	•			
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			tes is	ace Water			TIME TIME	DATE DATE	Sampling Date/Time	Sheet 1 of 1		Sample Location ID:	SEVER Mac Lake, NY
	 	 	 			,	1322	5/311					

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Appendix C

Laboratory Reports

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June 15, 2023

Joshua Oliver NYDEC_EA Engineering, Science & Tech. - NY 269 W. Jefferson Street Syracuse, NY 13202

Project Location: Saranac Lake, NY Client Job Number: Project Number: 516008 Laboratory Work Order Number: 23F0343

Enclosed are results of analyses for samples as received by the laboratory on June 2, 2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kyle K. Stuckey Project Manager

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NYDEC_EA Engineering, Science & Tech. - NY 269 W. Jefferson Street Syracuse, NY 13202 ATTN: Joshua Oliver

PURCHASE ORDER NUMBER: 145596

REPORT DATE: 6/15/2023

PROJECT NUMBER: 516008

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 23F0343

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: Saranac Lake, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
516008-MW-204S	23F0343-01	Ground Water		SW-846 8270E	
516008-MW-106R	23F0343-02	Ground Water		SW-846 8270E	
516008-MW-204D	23F0343-03	Ground Water		SW-846 8270E	
516008-MW-205S	23F0343-04	Ground Water		SW-846 8270E	
516008-MW-104	23F0343-05	Ground Water		SW-846 8270E	
516008-MW-205D	23F0343-06	Ground Water		SW-846 8270E	
516008-MW-108R	23F0343-07	Ground Water		SW-846 8270E	
516008-MW-110R	23F0343-08	Ground Water		SW-846 8270E	
516008-SW-400	23F0343-09	Surface Water		SW-846 8270E	
516008-SD-400	23F0343-10	Soil		SM 2540G	
				SW-846 8270E	
516008-SW-401	23F0343-11	Surface Water		SW-846 8270E	
516008-SD-401	23F0343-12	Soil		SM 2540G	
				SW-846 8270E	
516008-SW-402	23F0343-13	Surface Water		SW-846 8270E	
516008-SD-402	23F0343-14	Soil		SM 2540G	
				SW-846 8270E	
516008-SW-403	23F0343-15	Surface Water		SW-846 8270E	
516008-FD-GW	23F0343-16	Ground Water		SW-846 8270E	
516008-FD-SW	23F0343-17	Surface Water		SW-846 8270E	
516008-FD-SD	23F0343-18	Soil		SM 2540G	
				SW-846 8270E	



CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 8270E, only PAHs were requested and reported.

SW-846 8270E

Qualifications:

MS-22

Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria. Analyte & Samples(s) Qualified:

2-Methylnaphthalene

B342496-MS1

Naphthalene

B342496-MS1

S-01

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Samples(s) Qualified:

2-Fluorobiphenyl 23F0343-06RE2[516008-MW-205D]

Nitrobenzene-d5

23F0343-06RE2[516008-MW-205D]

p-Terphenyl-d14

23F0343-06RE2[516008-MW-205D]

V-05

Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

Analyte & Samples(s) Qualified:

Benzo(g,h,i)perylene

23F0343-08[516008-MW-110R], 23F0343-09[516008-SW-400], 23F0343-11[516008-SW-401], 23F0343-13[516008-SW-402], 23F0343-15[516008-SW-403], 23F0343-16[516008-FD-GW], 23F0343-17[516008-FD-SW], B342496-BS1, B342496-MS1, B342496-MS1, S088995-CCV1

Dibenz(a,h)anthracene

23F0343-08[516008-MW-110R], 23F0343-09[516008-SW-400], 23F0343-11[516008-SW-401], 23F0343-13[516008-SW-402], 23F0343-15[516008-SW-403], 23F0343-16[516008-FD-GW], 23F0343-17[516008-FD-SW], B342496-BS1, B342496-MS1, B342496-MS1, S088995-CCV1

Indeno(1,2,3-cd)pyrene

23F0343-08[516008-MW-110R], 23F0343-09[516008-SW-400], 23F0343-11[516008-SW-401], 23F0343-13[516008-SW-402], 23F0343-15[516008-SW-403], 23F0343-16[516008-FD-GW], 23F0343-17[516008-FD-SW], B342496-BS1, B342496-MS1, B342496-MS1, S088995-CCV1

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Jua Watchington

Lisa A. Worthington Technical Representative



Semivolatile Organic Compounds by GC/MS

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Work Order: 23F0343

Project Location: Saranac Lake, NY Date Received: 6/2/2023 Field Sample #: 516008-MW-204S Sample ID: 23F0343-01

Sample Matrix: Ground Water

Sampled: 5/30/2023 13:06

Sample Description:

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	3.7	4.8	0.52	μg/L	1	J	SW-846 8270E	6/6/23	6/9/23 19:30	AR2
Acenaphthylene	17	4.8	0.54	μg/L	1		SW-846 8270E	6/6/23	6/9/23 19:30	AR2
Anthracene	ND	4.8	0.48	μg/L	1		SW-846 8270E	6/6/23	6/9/23 19:30	AR2
Benzo(a)anthracene	ND	4.8	0.44	μg/L	1		SW-846 8270E	6/6/23	6/9/23 19:30	AR2
Benzo(a)pyrene	ND	4.8	0.67	μg/L	1		SW-846 8270E	6/6/23	6/9/23 19:30	AR2
Benzo(b)fluoranthene	ND	4.8	0.53	μg/L	1		SW-846 8270E	6/6/23	6/9/23 19:30	AR2
Benzo(g,h,i)perylene	ND	4.8	0.65	μg/L	1		SW-846 8270E	6/6/23	6/9/23 19:30	AR2
Benzo(k)fluoranthene	ND	4.8	0.61	μg/L	1		SW-846 8270E	6/6/23	6/9/23 19:30	AR2
Chrysene	ND	4.8	0.43	μg/L	1		SW-846 8270E	6/6/23	6/9/23 19:30	AR2
Dibenz(a,h)anthracene	ND	4.8	0.71	μg/L	1		SW-846 8270E	6/6/23	6/9/23 19:30	AR2
Fluoranthene	ND	4.8	0.46	μg/L	1		SW-846 8270E	6/6/23	6/9/23 19:30	AR2
Fluorene	3.3	4.8	0.52	μg/L	1	J	SW-846 8270E	6/6/23	6/9/23 19:30	AR2
Indeno(1,2,3-cd)pyrene	ND	4.8	0.75	μg/L	1		SW-846 8270E	6/6/23	6/9/23 19:30	AR2
2-Methylnaphthalene	5.9	4.8	0.65	μg/L	1		SW-846 8270E	6/6/23	6/9/23 19:30	AR2
Naphthalene	200	19	2.3	μg/L	4		SW-846 8270E	6/6/23	6/10/23 13:56	AR2
Phenanthrene	1.2	4.8	0.49	μg/L	1	J	SW-846 8270E	6/6/23	6/9/23 19:30	AR2
Pyrene	ND	4.8	0.63	μg/L	1		SW-846 8270E	6/6/23	6/9/23 19:30	AR2
Surrogates		% Reco	overy	Recovery Limits	;	Flag/Qual				
Nitrobenzene-d5		82.3		30-130					6/9/23 19:30	
Nitrobenzene-d5		84.8		30-130					6/10/23 13:56	
2-Fluorobiphenyl		84.2		30-130					6/9/23 19:30	
2-Fluorobiphenyl		83.2		30-130					6/10/23 13:56	
p-Terphenyl-d14		79.0		30-130					6/9/23 19:30	
p-Terphenyl-d14		84.6		30-130					6/10/23 13:56	



Semivolatile Organic Compounds by GC/MS

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Work Order: 23F0343

Project Location: Saranac Lake, NY Date Received: 6/2/2023 Field Sample #: 516008-MW-106R Sample ID: 23F0343-02

Sample Matrix: Ground Water

p-Terphenyl-d14

Sampled: 5/30/2023 13:27

Sample Description:

94.2

Date Date/Time Analyte Results RL DL Units Dilution Flag/Qual Method Prepared Analyzed Analyst Acenaphthene 39 5.0 0.54 μg/L 1 SW-846 8270E 6/6/23 6/9/23 19:51 AR2 Acenaphthylene 24 5.0 0.56 μg/L 1 SW-846 8270E 6/6/23 6/9/23 19:51 AR2 Anthracene 3.3 5.0 0.50 μg/L 1 J SW-846 8270E 6/6/23 6/9/23 19:51 AR2 Benzo(a)anthracene ND 5.0 $\mu g/L$ SW-846 8270E 6/6/23 6/9/23 19:51 AR2 0.46 1 Benzo(a)pyrene ND 5.0 SW-846 8270E 0.70 6/6/23 6/9/23 19:51 AR2 $\mu g/L$ 1 Benzo(b)fluoranthene ND SW-846 8270E 6/6/23 6/9/23 19:51 5.0 0.55 AR2 μg/L 1 Benzo(g,h,i)perylene SW-846 8270E ND 5.0 0.68 $\mu g/L$ 1 6/6/23 6/9/23 19:51 AR2 Benzo(k)fluoranthene ND 5.0 SW-846 8270E 6/6/23 0.63 μg/L 1 6/9/23 19:51 AR2 Chrysene ND 5.0 0.44 μg/L 1 SW-846 8270E 6/6/23 6/9/23 19:51 AR2 Dibenz(a,h)anthracene ND 5.0 0.74 SW-846 8270E 6/6/23 6/9/23 19:51 AR2 μg/L 1 Fluoranthene 2.0 5.0 0.48 μg/L 1 J SW-846 8270E 6/6/23 6/9/23 19:51 AR2 Fluorene 5.0 6/6/23 13 0.54 μg/L 1 SW-846 8270E 6/9/23 19:51 AR2 Indeno(1,2,3-cd)pyrene ND 5.0 0.78 SW-846 8270E 6/6/23 6/9/23 19:51 AR2 μg/L 1 2-Methylnaphthalene 140 50 6.8 10 SW-846 8270E 6/6/23 6/10/23 14:18 AR2 $\mu g/L$ Naphthalene 500 50 10 SW-846 8270E 6/6/23 6/10/23 14:18 6.0 μg/L AR2 Phenanthrene 21 5.0 0.51 1 SW-846 8270E 6/6/23 $\mu g/L$ 6/9/23 19:51 AR2 Pyrene 2.8 SW-846 8270E 6/6/23 6/9/23 19:51 5.0 0.66 μg/L 1 J AR2 % Recovery **Recovery Limits** Flag/Qual Surrogates Nitrobenzene-d5 82.5 30-130 6/9/23 19:51 Nitrobenzene-d5 86.6 30-130 6/10/23 14:18 30-130 2-Fluorobiphenyl 84.1 6/9/23 19:51 2-Fluorobiphenyl 88.8 30-130 6/10/23 14:18 6/9/23 19:51 87.0 p-Terphenyl-d14 30-130 6/10/23 14:18

30-130



Semivolatile Organic Compounds by GC/MS

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Work Order: 23F0343

Project Location: Saranac Lake, NY Date Received: 6/2/2023 Field Sample #: 516008-MW-204D Sample ID: 23F0343-03

Sample Matrix: Ground Water

Sampled: 5/30/2023 14:11

Sample Description:

Date Date/Time Analyte Results RL DL Units Dilution Flag/Qual Method Prepared Analyzed Analyst 4.9 Acenaphthene 8.8 0.52 μg/L 1 SW-846 8270E 6/6/23 6/9/23 20:13 AR2 Acenaphthylene 38 4.9 0.54 μg/L 1 SW-846 8270E 6/6/23 6/9/23 20:13 AR2 Anthracene 2.2 $\mu g/L$ 4.9 0.48 1 J SW-846 8270E 6/6/23 6/9/23 20:13 AR2 Benzo(a)anthracene ND 4.9 0.45 $\mu g/L$ SW-846 8270E 6/6/23 6/9/23 20:13 AR2 1 Benzo(a)pyrene ND 4.9 SW-846 8270E 0.68 6/6/23 6/9/23 20:13 AR2 $\mu g/L$ 1 Benzo(b)fluoranthene ND SW-846 8270E 6/6/23 4.9 0.53 6/9/23 20:13 AR2 μg/L 1 Benzo(g,h,i)perylene SW-846 8270E ND 4.9 0.66 $\mu g/L$ 1 6/6/23 6/9/23 20:13 AR2 Benzo(k)fluoranthene ND 4.9 SW-846 8270E 6/6/23 0.61 μg/L 1 6/9/23 20:13 AR2 Chrysene ND 4.9 0.43 μg/L 1 SW-846 8270E 6/6/23 6/9/23 20:13 AR2 Dibenz(a,h)anthracene ND 4.9 0.72 SW-846 8270E 6/6/23 6/9/23 20:13 AR2 μg/L 1 Fluoranthene 0.88 4.9 0.47 μg/L 1 J SW-846 8270E 6/6/23 6/9/23 20:13 AR2 Fluorene 4.9 6/6/23 13 0.52 μg/L 1 SW-846 8270E 6/9/23 20:13 AR2 Indeno(1,2,3-cd)pyrene ND 4.9 0.76 SW-846 8270E 6/6/23 6/9/23 20:13 AR2 μg/L 1 2-Methylnaphthalene 13 4.9 0.66 1 SW-846 8270E 6/6/23 6/9/23 20:13 AR2 $\mu g/L$ Naphthalene 190 19 4 SW-846 8270E 6/6/23 6/10/23 14:39 2.3 μg/L AR2 Phenanthrene 9.8 4.9 0.50 1 SW-846 8270E 6/6/23 $\mu g/L$ 6/9/23 20:13 AR2 Pyrene 6/9/23 20:13 0.90 49 SW-846 8270E 6/6/23 0.64 μg/L 1 J AR2 % Recovery **Recovery Limits** Flag/Qual Surrogates Nitrobenzene-d5 68.1 30-130 6/9/23 20:13 Nitrobenzene-d5 69.0 30-130 6/10/23 14:39 30-130 2-Fluorobiphenyl 71.8 6/9/23 20:13 2-Fluorobiphenyl 75.6 30-130 6/10/23 14:39 72.3 p-Terphenyl-d14 30-130 6/9/23 20:13 p-Terphenyl-d14 77.8 30-130 6/10/23 14:39



Semivolatile Organic Compounds by GC/MS

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Work Order: 23F0343

Project Location: Saranac Lake, NY Date Received: 6/2/2023 Field Sample #: 516008-MW-205S Sample ID: 23F0343-04

Sample Matrix: Ground Water

Sampled: 5/30/2023 15:35

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	1.3	5.1	0.54	μg/L	1	J	SW-846 8270E	6/6/23	6/9/23 20:34	AR2
Acenaphthylene	ND	5.1	0.56	μg/L	1		SW-846 8270E	6/6/23	6/9/23 20:34	AR2
Anthracene	ND	5.1	0.50	μg/L	1		SW-846 8270E	6/6/23	6/9/23 20:34	AR2
Benzo(a)anthracene	ND	5.1	0.47	μg/L	1		SW-846 8270E	6/6/23	6/9/23 20:34	AR2
Benzo(a)pyrene	ND	5.1	0.71	μg/L	1		SW-846 8270E	6/6/23	6/9/23 20:34	AR2
Benzo(b)fluoranthene	ND	5.1	0.55	μg/L	1		SW-846 8270E	6/6/23	6/9/23 20:34	AR2
Benzo(g,h,i)perylene	ND	5.1	0.69	μg/L	1		SW-846 8270E	6/6/23	6/9/23 20:34	AR2
Benzo(k)fluoranthene	ND	5.1	0.64	μg/L	1		SW-846 8270E	6/6/23	6/9/23 20:34	AR2
Chrysene	ND	5.1	0.45	μg/L	1		SW-846 8270E	6/6/23	6/9/23 20:34	AR2
Dibenz(a,h)anthracene	ND	5.1	0.75	μg/L	1		SW-846 8270E	6/6/23	6/9/23 20:34	AR2
Fluoranthene	ND	5.1	0.48	μg/L	1		SW-846 8270E	6/6/23	6/9/23 20:34	AR2
Fluorene	0.62	5.1	0.54	μg/L	1	J	SW-846 8270E	6/6/23	6/9/23 20:34	AR2
Indeno(1,2,3-cd)pyrene	ND	5.1	0.79	μg/L	1		SW-846 8270E	6/6/23	6/9/23 20:34	AR2
2-Methylnaphthalene	ND	5.1	0.68	μg/L	1		SW-846 8270E	6/6/23	6/9/23 20:34	AR2
Naphthalene	ND	5.1	0.60	μg/L	1		SW-846 8270E	6/6/23	6/9/23 20:34	AR2
Phenanthrene	ND	5.1	0.52	μg/L	1		SW-846 8270E	6/6/23	6/9/23 20:34	AR2
Pyrene	ND	5.1	0.66	μg/L	1		SW-846 8270E	6/6/23	6/9/23 20:34	AR2
Surrogates		% Reco	overy	Recovery Limits		Flag/Qual				
Nitrobenzene-d5		70.2		30-130					6/9/23 20:34	
2-Fluorobiphenyl		75.4		30-130					6/9/23 20:34	
p-Terphenyl-d14		83.7		30-130					6/9/23 20:34	



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Work Order: 23F0343

Project Location: Saranac Lake, NY Date Received: 6/2/2023 Field Sample #: 516008-MW-104 Sample ID: 23F0343-05

Sampled: 5/30/2023 16:16

Sample Matrix: Ground Water
Semivolatile Organic Compounds by GC/MS

								Date	Date/Time	
Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
Acenaphthene	94	4.9	0.52	μg/L	1		SW-846 8270E	6/6/23	6/9/23 20:55	AR2
Acenaphthylene	88	4.9	0.54	μg/L	1		SW-846 8270E	6/6/23	6/9/23 20:55	AR2
Anthracene	8.6	4.9	0.48	μg/L	1		SW-846 8270E	6/6/23	6/9/23 20:55	AR2
Benzo(a)anthracene	ND	4.9	0.45	μg/L	1		SW-846 8270E	6/6/23	6/9/23 20:55	AR2
Benzo(a)pyrene	ND	4.9	0.68	μg/L	1		SW-846 8270E	6/6/23	6/9/23 20:55	AR2
Benzo(b)fluoranthene	ND	4.9	0.53	μg/L	1		SW-846 8270E	6/6/23	6/9/23 20:55	AR2
Benzo(g,h,i)perylene	ND	4.9	0.66	μg/L	1		SW-846 8270E	6/6/23	6/9/23 20:55	AR2
Benzo(k)fluoranthene	ND	4.9	0.61	μg/L	1		SW-846 8270E	6/6/23	6/9/23 20:55	AR2
Chrysene	ND	4.9	0.43	μg/L	1		SW-846 8270E	6/6/23	6/9/23 20:55	AR2
Dibenz(a,h)anthracene	ND	4.9	0.72	μg/L	1		SW-846 8270E	6/6/23	6/9/23 20:55	AR2
Fluoranthene	3.3	4.9	0.47	μg/L	1	J	SW-846 8270E	6/6/23	6/9/23 20:55	AR2
Fluorene	39	4.9	0.52	μg/L	1		SW-846 8270E	6/6/23	6/9/23 20:55	AR2
Indeno(1,2,3-cd)pyrene	ND	4.9	0.76	μg/L	1		SW-846 8270E	6/6/23	6/9/23 20:55	AR2
2-Methylnaphthalene	370	49	6.6	μg/L	10		SW-846 8270E	6/6/23	6/10/23 15:00	AR2
Naphthalene	500	49	5.8	μg/L	10		SW-846 8270E	6/6/23	6/10/23 15:00	AR2
Phenanthrene	52	4.9	0.50	μg/L	1		SW-846 8270E	6/6/23	6/9/23 20:55	AR2
Pyrene	4.1	4.9	0.64	μg/L	1	J	SW-846 8270E	6/6/23	6/9/23 20:55	AR2
Surrogates		% Reco	very	Recovery Limits		Flag/Qual				
Nitrobenzene-d5		80.0		30-130					6/9/23 20:55	
Nitrobenzene-d5		69.0		30-130					6/10/23 15:00	
2-Fluorobiphenyl		76.2		30-130					6/9/23 20:55	
2-Fluorobiphenyl		73.9		30-130					6/10/23 15:00	
p-Terphenyl-d14		80.6		30-130					6/9/23 20:55	
p-Terphenyl-d14		76.1		30-130					6/10/23 15:00	



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Work Order: 23F0343

Project Location: Saranac Lake, NY Date Received: 6/2/2023 Field Sample #: 516008-MW-205D Sample ID: 23F0343-06

Sample Matrix: Ground Water

Sampled: 5/30/2023 16:35

Semivolatile Organic Compounds by GC/MS										
Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	27	5.2	0.56	μg/L	1		SW-846 8270E	6/6/23	6/9/23 21:16	AR2
Acenaphthylene	150	52	5.8	μg/L	10		SW-846 8270E	6/6/23	6/10/23 15:21	AR2
Anthracene	2.6	5.2	0.51	μg/L	1	J	SW-846 8270E	6/6/23	6/9/23 21:16	AR2
Benzo(a)anthracene	ND	5.2	0.47	μg/L	1		SW-846 8270E	6/6/23	6/9/23 21:16	AR2
Benzo(a)pyrene	ND	5.2	0.72	μg/L	1		SW-846 8270E	6/6/23	6/9/23 21:16	AR2
Benzo(b)fluoranthene	ND	5.2	0.56	μg/L	1		SW-846 8270E	6/6/23	6/9/23 21:16	AR2
Benzo(g,h,i)perylene	ND	5.2	0.70	μg/L	1		SW-846 8270E	6/6/23	6/9/23 21:16	AR2
Benzo(k)fluoranthene	ND	5.2	0.65	μg/L	1		SW-846 8270E	6/6/23	6/9/23 21:16	AR2
Chrysene	ND	5.2	0.46	μg/L	1		SW-846 8270E	6/6/23	6/9/23 21:16	AR2
Dibenz(a,h)anthracene	ND	5.2	0.76	μg/L	1		SW-846 8270E	6/6/23	6/9/23 21:16	AR2
Fluoranthene	ND	5.2	0.49	$\mu g/L$	1		SW-846 8270E	6/6/23	6/9/23 21:16	AR2
Fluorene	26	5.2	0.56	$\mu g/L$	1		SW-846 8270E	6/6/23	6/9/23 21:16	AR2
Indeno(1,2,3-cd)pyrene	ND	5.2	0.81	μg/L	1		SW-846 8270E	6/6/23	6/9/23 21:16	AR2
2-Methylnaphthalene	140	52	7.0	μg/L	10		SW-846 8270E	6/6/23	6/10/23 15:21	AR2
Naphthalene	2300	260	31	μg/L	50		SW-846 8270E	6/6/23	6/12/23 18:49	AR2
Phenanthrene	25	5.2	0.53	$\mu g/L$	1		SW-846 8270E	6/6/23	6/9/23 21:16	AR2
Pyrene	ND	5.2	0.68	μg/L	1		SW-846 8270E	6/6/23	6/9/23 21:16	AR2
Surrogates		% Reco	overy	Recovery Limit	ts	Flag/Qual				
Nitrobenzene-d5		78.0		30-130					6/9/23 21:16	
3.7. 1 1#										

Nitrohangana d5	78.0	20,120		6/0/22 21:16
Nitrobenzene-us	/8.0	30-130		0/9/25 21.10
Nitrobenzene-d5	75.1	30-130		6/10/23 15:21
Nitrobenzene-d5	*	30-130	S-01	6/12/23 18:49
2-Fluorobiphenyl	82.9	30-130		6/9/23 21:16
2-Fluorobiphenyl	83.4	30-130		6/10/23 15:21
2-Fluorobiphenyl	*	30-130	S-01	6/12/23 18:49
p-Terphenyl-d14	83.1	30-130		6/9/23 21:16
p-Terphenyl-d14	81.2	30-130		6/10/23 15:21
p-Terphenyl-d14	*	30-130	S-01	6/12/23 18:49



Semivolatile Organic Compounds by GC/MS

Work Order: 23F0343

Project Location: Saranac Lake, NY Date Received: 6/2/2023 Field Sample #: 516008-MW-108R Sample ID: 23F0343-07

Sample Matrix: Ground Water

Sampled: 5/31/2023 08:30

Analyte	Results	RL	DL	Units	Dilution	Flag/Oual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	4.9	0.52	μg/L	1		SW-846 8270E	6/7/23	6/10/23 12:32	AR2
Acenaphthylene	ND	4.9	0.54	μg/L	1		SW-846 8270E	6/7/23	6/10/23 12:32	AR2
Anthracene	ND	4.9	0.48	μg/L	1		SW-846 8270E	6/7/23	6/10/23 12:32	AR2
Benzo(a)anthracene	ND	4.9	0.45	μg/L	1		SW-846 8270E	6/7/23	6/10/23 12:32	AR2
Benzo(a)pyrene	ND	4.9	0.68	μg/L	1		SW-846 8270E	6/7/23	6/10/23 12:32	AR2
Benzo(b)fluoranthene	ND	4.9	0.53	μg/L	1		SW-846 8270E	6/7/23	6/10/23 12:32	AR2
Benzo(g,h,i)perylene	ND	4.9	0.66	μg/L	1		SW-846 8270E	6/7/23	6/10/23 12:32	AR2
Benzo(k)fluoranthene	ND	4.9	0.61	μg/L	1		SW-846 8270E	6/7/23	6/10/23 12:32	AR2
Chrysene	ND	4.9	0.43	μg/L	1		SW-846 8270E	6/7/23	6/10/23 12:32	AR2
Dibenz(a,h)anthracene	ND	4.9	0.72	μg/L	1		SW-846 8270E	6/7/23	6/10/23 12:32	AR2
Fluoranthene	ND	4.9	0.47	µg/L	1		SW-846 8270E	6/7/23	6/10/23 12:32	AR2
Fluorene	ND	4.9	0.52	µg/L	1		SW-846 8270E	6/7/23	6/10/23 12:32	AR2
Indeno(1,2,3-cd)pyrene	ND	4.9	0.76	µg/L	1		SW-846 8270E	6/7/23	6/10/23 12:32	AR2
2-Methylnaphthalene	ND	4.9	0.66	µg/L	1		SW-846 8270E	6/7/23	6/10/23 12:32	AR2
Naphthalene	ND	4.9	0.58	µg/L	1		SW-846 8270E	6/7/23	6/10/23 12:32	AR2
Phenanthrene	ND	4.9	0.50	µg/L	1		SW-846 8270E	6/7/23	6/10/23 12:32	AR2
Pyrene	ND	4.9	0.64	μg/L	1		SW-846 8270E	6/7/23	6/10/23 12:32	AR2
Surrogates		% Reco	very	Recovery Limits		Flag/Qual				
Nitrobenzene-d5		66.8		30-130					6/10/23 12:32	
2-Fluorobiphenyl		64.4		30-130					6/10/23 12:32	
p-Terphenyl-d14		74.6		30-130					6/10/23 12:32	


Semivolatile Organic Compounds by GC/MS

Work Order: 23F0343

Project Location: Saranac Lake, NY Date Received: 6/2/2023 Field Sample #: 516008-MW-110R Sample ID: 23F0343-08

Sample Matrix: Ground Water

Sampled: 5/31/2023 10:01

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	4.8	0.52	μg/L	1		SW-846 8270E	6/7/23	6/13/23 10:16	AR2
Acenaphthylene	ND	4.8	0.54	μg/L	1		SW-846 8270E	6/7/23	6/13/23 10:16	AR2
Anthracene	ND	4.8	0.48	μg/L	1		SW-846 8270E	6/7/23	6/13/23 10:16	AR2
Benzo(a)anthracene	ND	4.8	0.44	μg/L	1		SW-846 8270E	6/7/23	6/13/23 10:16	AR2
Benzo(a)pyrene	ND	4.8	0.67	μg/L	1		SW-846 8270E	6/7/23	6/13/23 10:16	AR2
Benzo(b)fluoranthene	ND	4.8	0.53	μg/L	1		SW-846 8270E	6/7/23	6/13/23 10:16	AR2
Benzo(g,h,i)perylene	ND	4.8	0.65	μg/L	1	V-05	SW-846 8270E	6/7/23	6/13/23 10:16	AR2
Benzo(k)fluoranthene	ND	4.8	0.61	μg/L	1		SW-846 8270E	6/7/23	6/13/23 10:16	AR2
Chrysene	ND	4.8	0.43	μg/L	1		SW-846 8270E	6/7/23	6/13/23 10:16	AR2
Dibenz(a,h)anthracene	ND	4.8	0.71	μg/L	1	V-05	SW-846 8270E	6/7/23	6/13/23 10:16	AR2
Fluoranthene	ND	4.8	0.46	μg/L	1		SW-846 8270E	6/7/23	6/13/23 10:16	AR2
Fluorene	ND	4.8	0.52	μg/L	1		SW-846 8270E	6/7/23	6/13/23 10:16	AR2
Indeno(1,2,3-cd)pyrene	ND	4.8	0.75	μg/L	1	V-05	SW-846 8270E	6/7/23	6/13/23 10:16	AR2
2-Methylnaphthalene	ND	4.8	0.65	μg/L	1		SW-846 8270E	6/7/23	6/13/23 10:16	AR2
Naphthalene	ND	4.8	0.57	μg/L	1		SW-846 8270E	6/7/23	6/13/23 10:16	AR2
Phenanthrene	ND	4.8	0.49	μg/L	1		SW-846 8270E	6/7/23	6/13/23 10:16	AR2
Pyrene	ND	4.8	0.63	μg/L	1		SW-846 8270E	6/7/23	6/13/23 10:16	AR2
Surrogates		% Reco	overy	Recovery Limits		Flag/Qual				
Nitrobenzene-d5		65.6		30-130					6/13/23 10:16	
2-Fluorobiphenyl		65.2		30-130					6/13/23 10:16	
p-Terphenyl-d14		56.0		30-130					6/13/23 10:16	



Semivolatile Organic Compounds by GC/MS

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Work Order: 23F0343

Project Location: Saranac Lake, NY Date Received: 6/2/2023 Field Sample #: 516008-SW-400 Sample ID: 23F0343-09

Sample Matrix: Surface Water

Sampled: 5/31/2023 11:05

Analyte	Results	RL	DL	Units	Dilution	Flag/Oual	Method	Date Prenared	Date/Time Analyzed	Analyst
Acenaphthene	ND	4.8	0.52	μg/L	1		SW-846 8270E	6/7/23	6/13/23 10:37	AR2
Acenaphthylene	ND	4.8	0.54	μg/L	1		SW-846 8270E	6/7/23	6/13/23 10:37	AR2
Anthracene	ND	4.8	0.48	μg/L	1		SW-846 8270E	6/7/23	6/13/23 10:37	AR2
Benzo(a)anthracene	ND	4.8	0.44	μg/L	1		SW-846 8270E	6/7/23	6/13/23 10:37	AR2
Benzo(a)pyrene	ND	4.8	0.67	μg/L	1		SW-846 8270E	6/7/23	6/13/23 10:37	AR2
Benzo(b)fluoranthene	ND	4.8	0.53	μg/L	1		SW-846 8270E	6/7/23	6/13/23 10:37	AR2
Benzo(g,h,i)perylene	ND	4.8	0.65	μg/L	1	V-05	SW-846 8270E	6/7/23	6/13/23 10:37	AR2
Benzo(k)fluoranthene	ND	4.8	0.61	μg/L	1		SW-846 8270E	6/7/23	6/13/23 10:37	AR2
Chrysene	ND	4.8	0.43	μg/L	1		SW-846 8270E	6/7/23	6/13/23 10:37	AR2
Dibenz(a,h)anthracene	ND	4.8	0.71	μg/L	1	V-05	SW-846 8270E	6/7/23	6/13/23 10:37	AR2
Fluoranthene	ND	4.8	0.46	μg/L	1		SW-846 8270E	6/7/23	6/13/23 10:37	AR2
Fluorene	ND	4.8	0.52	μg/L	1		SW-846 8270E	6/7/23	6/13/23 10:37	AR2
Indeno(1,2,3-cd)pyrene	ND	4.8	0.75	μg/L	1	V-05	SW-846 8270E	6/7/23	6/13/23 10:37	AR2
2-Methylnaphthalene	ND	4.8	0.65	μg/L	1		SW-846 8270E	6/7/23	6/13/23 10:37	AR2
Naphthalene	ND	4.8	0.57	μg/L	1		SW-846 8270E	6/7/23	6/13/23 10:37	AR2
Phenanthrene	ND	4.8	0.49	μg/L	1		SW-846 8270E	6/7/23	6/13/23 10:37	AR2
Pyrene	ND	4.8	0.63	µg/L	1		SW-846 8270E	6/7/23	6/13/23 10:37	AR2
Surrogates		% Reco	overy	Recovery Limits		Flag/Qual				
Nitrobenzene-d5		62.9		30-130					6/13/23 10:37	
2-Fluorobiphenyl		63.5		30-130					6/13/23 10:37	
p-Terphenyl-d14		73.0		30-130					6/13/23 10:37	



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Work Order: 23F0343

Project Location: Saranac Lake, NY Date Received: 6/2/2023 Field Sample #: 516008-SD-400 Sample ID: 23F0343-10 Sample Matrix: Soil

p-Terphenyl-d14

Sampled: 5/30/2023 13:06

Sample Description:

			Semivo	latile Organic Co	mpounds by	GC/MS				
Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analys
Acenaphthene	ND	0.22	0.082	mg/Kg dry	1		SW-846 8270E	6/7/23	6/10/23 1:32	BGL
Acenaphthylene	ND	0.22	0.084	mg/Kg dry	1		SW-846 8270E	6/7/23	6/10/23 1:32	BGL
Anthracene	ND	0.22	0.083	mg/Kg dry	1		SW-846 8270E	6/7/23	6/10/23 1:32	BGL
Benzo(a)anthracene	ND	0.22	0.078	mg/Kg dry	1		SW-846 8270E	6/7/23	6/10/23 1:32	BGL
Benzo(a)pyrene	ND	0.22	0.071	mg/Kg dry	1		SW-846 8270E	6/7/23	6/10/23 1:32	BGL
Benzo(b)fluoranthene	ND	0.22	0.072	mg/Kg dry	1		SW-846 8270E	6/7/23	6/10/23 1:32	BGL
Benzo(g,h,i)perylene	ND	0.22	0.090	mg/Kg dry	1		SW-846 8270E	6/7/23	6/10/23 1:32	BGL
Benzo(k)fluoranthene	ND	0.22	0.078	mg/Kg dry	1		SW-846 8270E	6/7/23	6/10/23 1:32	BGL
Chrysene	ND	0.22	0.078	mg/Kg dry	1		SW-846 8270E	6/7/23	6/10/23 1:32	BGL
Dibenz(a,h)anthracene	ND	0.22	0.083	mg/Kg dry	1		SW-846 8270E	6/7/23	6/10/23 1:32	BGL
Fluoranthene	ND	0.22	0.077	mg/Kg dry	1		SW-846 8270E	6/7/23	6/10/23 1:32	BGL
Fluorene	ND	0.22	0.084	mg/Kg dry	1		SW-846 8270E	6/7/23	6/10/23 1:32	BGL
Indeno(1,2,3-cd)pyrene	ND	0.22	0.094	mg/Kg dry	1		SW-846 8270E	6/7/23	6/10/23 1:32	BGL
2-Methylnaphthalene	ND	0.22	0.084	mg/Kg dry	1		SW-846 8270E	6/7/23	6/10/23 1:32	BGL
Naphthalene	ND	0.22	0.086	mg/Kg dry	1		SW-846 8270E	6/7/23	6/10/23 1:32	BGL
Phenanthrene	ND	0.22	0.084	mg/Kg dry	1		SW-846 8270E	6/7/23	6/10/23 1:32	BGL
Pyrene	ND	0.22	0.086	mg/Kg dry	1		SW-846 8270E	6/7/23	6/10/23 1:32	BGL
Surrogates		% Reco	overy	Recovery Limits		Flag/Qual				
Nitrobenzene-d5		74.0		30-130					6/10/23 1:32	
2-Fluorobiphenyl		73.4		30-130					6/10/23 1:32	

73.4 30-130 79.8 30-130

6/10/23 1:32



	39 Spruce S	treet * East	Longmeadow, MA 0	1028 * FAX 4	13/525-6405 * TE	EL. 413/525-2332			
Project Location: Saranac Lake, NY	Sa	mple Descrip	otion:				Work Orde	r: 23F0343	
Date Received: 6/2/2023									
Field Sample #: 516008-SD-400	Sa	mpled: 5/30	/2023 13:06						
Sample ID: 23F0343-10									
Sample Matrix: Soil									
	Conv	entional Ch	emistry Parameters by	/ EPA/APHA/	SW-846 Methods ((Total)			
							Date	Date/Time	
Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
% Solids	78.9		% Wt	1		SM 2540G	6/6/23	6/6/23 8:30	DRL



Semivolatile Organic Compounds by GC/MS

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Work Order: 23F0343

Project Location: Saranac Lake, NY Date Received: 6/2/2023 Field Sample #: 516008-SW-401 Sample ID: 23F0343-11

Sample Matrix: Surface Water

Sampled: 5/31/2023 11:38

								Date	Date/Time	
Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
Acenaphthene	ND	4.9	0.52	μg/L	1		SW-846 8270E	6/7/23	6/13/23 10:59	AR2
Acenaphthylene	ND	4.9	0.54	μg/L	1		SW-846 8270E	6/7/23	6/13/23 10:59	AR2
Anthracene	ND	4.9	0.48	μg/L	1		SW-846 8270E	6/7/23	6/13/23 10:59	AR2
Benzo(a)anthracene	ND	4.9	0.45	μg/L	1		SW-846 8270E	6/7/23	6/13/23 10:59	AR2
Benzo(a)pyrene	ND	4.9	0.68	μg/L	1		SW-846 8270E	6/7/23	6/13/23 10:59	AR2
Benzo(b)fluoranthene	ND	4.9	0.53	μg/L	1		SW-846 8270E	6/7/23	6/13/23 10:59	AR2
Benzo(g,h,i)perylene	ND	4.9	0.66	μg/L	1	V-05	SW-846 8270E	6/7/23	6/13/23 10:59	AR2
Benzo(k)fluoranthene	ND	4.9	0.61	μg/L	1		SW-846 8270E	6/7/23	6/13/23 10:59	AR2
Chrysene	ND	4.9	0.43	μg/L	1		SW-846 8270E	6/7/23	6/13/23 10:59	AR2
Dibenz(a,h)anthracene	ND	4.9	0.72	μg/L	1	V-05	SW-846 8270E	6/7/23	6/13/23 10:59	AR2
Fluoranthene	ND	4.9	0.47	μg/L	1		SW-846 8270E	6/7/23	6/13/23 10:59	AR2
Fluorene	ND	4.9	0.52	μg/L	1		SW-846 8270E	6/7/23	6/13/23 10:59	AR2
Indeno(1,2,3-cd)pyrene	ND	4.9	0.76	μg/L	1	V-05	SW-846 8270E	6/7/23	6/13/23 10:59	AR2
2-Methylnaphthalene	ND	4.9	0.66	μg/L	1		SW-846 8270E	6/7/23	6/13/23 10:59	AR2
Naphthalene	ND	4.9	0.58	μg/L	1		SW-846 8270E	6/7/23	6/13/23 10:59	AR2
Phenanthrene	ND	4.9	0.50	μg/L	1		SW-846 8270E	6/7/23	6/13/23 10:59	AR2
Pyrene	ND	4.9	0.64	μg/L	1		SW-846 8270E	6/7/23	6/13/23 10:59	AR2
Surrogates		% Reco	overy	Recovery Limits	;	Flag/Qual				
Nitrobenzene-d5		57.6		30-130					6/13/23 10:59	
2-Fluorobiphenyl		55.6		30-130					6/13/23 10:59	
p-Terphenyl-d14		67.3		30-130					6/13/23 10:59	



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332 Sample Description:

Semivolatile Organic Compounds by GC/MS

Project Location: Saranac Lake, NY Date Received: 6/2/2023 Field Sample #: 516008-SD-401

Sampled: 5/31/2023 11:48

Sample ID: 23F0343-12

Sample Matrix: Soil

Sampicu. 5/51/2025 11.48

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prenared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	0.079	mg/Kg dry	1	i ing/Quui	SW-846 8270E	6/7/23	6/10/23 1:57	BGL
Acenaphthylene	ND	0.21	0.081	mg/Kg dry	1		SW-846 8270E	6/7/23	6/10/23 1:57	BGL
Anthracene	ND	0.21	0.080	mg/Kg dry	1		SW-846 8270E	6/7/23	6/10/23 1:57	BGL
Benzo(a)anthracene	ND	0.21	0.074	mg/Kg drv	1		SW-846 8270E	6/7/23	6/10/23 1:57	BGL
Benzo(a)pyrene	ND	0.21	0.068	mg/Kg dry	1		SW-846 8270E	6/7/23	6/10/23 1:57	BGL
Benzo(b)fluoranthene	ND	0.21	0.069	mg/Kg dry	1		SW-846 8270E	6/7/23	6/10/23 1:57	BGL
Benzo(g,h,i)perylene	ND	0.21	0.086	mg/Kg dry	1		SW-846 8270E	6/7/23	6/10/23 1:57	BGL
Benzo(k)fluoranthene	ND	0.21	0.074	mg/Kg dry	1		SW-846 8270E	6/7/23	6/10/23 1:57	BGL
Chrysene	ND	0.21	0.074	mg/Kg dry	1		SW-846 8270E	6/7/23	6/10/23 1:57	BGL
Dibenz(a,h)anthracene	ND	0.21	0.080	mg/Kg dry	1		SW-846 8270E	6/7/23	6/10/23 1:57	BGL
Fluoranthene	ND	0.21	0.074	mg/Kg dry	1		SW-846 8270E	6/7/23	6/10/23 1:57	BGL
Fluorene	ND	0.21	0.080	mg/Kg dry	1		SW-846 8270E	6/7/23	6/10/23 1:57	BGL
Indeno(1,2,3-cd)pyrene	ND	0.21	0.090	mg/Kg dry	1		SW-846 8270E	6/7/23	6/10/23 1:57	BGL
2-Methylnaphthalene	ND	0.21	0.081	mg/Kg dry	1		SW-846 8270E	6/7/23	6/10/23 1:57	BGL
Naphthalene	ND	0.21	0.083	mg/Kg dry	1		SW-846 8270E	6/7/23	6/10/23 1:57	BGL
Phenanthrene	ND	0.21	0.081	mg/Kg dry	1		SW-846 8270E	6/7/23	6/10/23 1:57	BGL
Pyrene	ND	0.21	0.082	mg/Kg dry	1		SW-846 8270E	6/7/23	6/10/23 1:57	BGL
Surrogates		% Reco	overy	Recovery Limits		Flag/Qual				
Nitrobenzene-d5		68.2		30-130					6/10/23 1:57	
2-Fluorobiphenyl		70.3		30-130					6/10/23 1:57	
p-Terphenyl-d14		85.5		30-130					6/10/23 1:57	

Work Order: 23F0343



	39 Spruce S	street * East I	Longmeadow, MA 0	1028 * FAX 4	13/525-6405 * TE	L. 413/525-2332			
Project Location: Saranac Lake, NY	Sa	mple Descript	tion:				Work Orde	r: 23F0343	
Date Received: 6/2/2023									
Field Sample #: 516008-SD-401	Sa	impled: 5/31/2	2023 11:48						
Sample ID: 23F0343-12									
Sample Matrix: Soil									
	Conv	entional Che	mistry Parameters by	EPA/APHA/	SW-846 Methods (Total)			
							Date	Date/Time	
Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
% Solids	82.3		% Wt	1		SM 2540G	6/8/23	6/8/23 7:24	DRL



Semivolatile Organic Compounds by GC/MS

Work Order: 23F0343

Project Location: Saranac Lake, NY Date Received: 6/2/2023 Field Sample #: 516008-SW-402 Sample ID: 23F0343-13

Sample Matrix: Surface Water

Sampled: 5/31/2023 12:41

								Date	Date/Time	
Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
Acenaphthene	ND	4.9	0.52	μg/L	1		SW-846 8270E	6/7/23	6/13/23 11:20	AR2
Acenaphthylene	ND	4.9	0.54	µg/L	1		SW-846 8270E	6/7/23	6/13/23 11:20	AR2
Anthracene	ND	4.9	0.48	µg/L	1		SW-846 8270E	6/7/23	6/13/23 11:20	AR2
Benzo(a)anthracene	ND	4.9	0.45	µg/L	1		SW-846 8270E	6/7/23	6/13/23 11:20	AR2
Benzo(a)pyrene	ND	4.9	0.68	μg/L	1		SW-846 8270E	6/7/23	6/13/23 11:20	AR2
Benzo(b)fluoranthene	ND	4.9	0.53	µg/L	1		SW-846 8270E	6/7/23	6/13/23 11:20	AR2
Benzo(g,h,i)perylene	ND	4.9	0.66	µg/L	1	V-05	SW-846 8270E	6/7/23	6/13/23 11:20	AR2
Benzo(k)fluoranthene	ND	4.9	0.61	µg/L	1		SW-846 8270E	6/7/23	6/13/23 11:20	AR2
Chrysene	ND	4.9	0.43	µg/L	1		SW-846 8270E	6/7/23	6/13/23 11:20	AR2
Dibenz(a,h)anthracene	ND	4.9	0.72	µg/L	1	V-05	SW-846 8270E	6/7/23	6/13/23 11:20	AR2
Fluoranthene	ND	4.9	0.47	µg/L	1		SW-846 8270E	6/7/23	6/13/23 11:20	AR2
Fluorene	ND	4.9	0.52	µg/L	1		SW-846 8270E	6/7/23	6/13/23 11:20	AR2
Indeno(1,2,3-cd)pyrene	ND	4.9	0.76	µg/L	1	V-05	SW-846 8270E	6/7/23	6/13/23 11:20	AR2
2-Methylnaphthalene	ND	4.9	0.66	µg/L	1		SW-846 8270E	6/7/23	6/13/23 11:20	AR2
Naphthalene	ND	4.9	0.58	µg/L	1		SW-846 8270E	6/7/23	6/13/23 11:20	AR2
Phenanthrene	ND	4.9	0.50	µg/L	1		SW-846 8270E	6/7/23	6/13/23 11:20	AR2
Pyrene	ND	4.9	0.64	μg/L	1		SW-846 8270E	6/7/23	6/13/23 11:20	AR2
Surrogates		% Reco	overy	Recovery Limits		Flag/Qual				
Nitrobenzene-d5		62.3		30-130					6/13/23 11:20	
2-Fluorobiphenyl		54.7		30-130					6/13/23 11:20	
p-Terphenyl-d14		80.7		30-130					6/13/23 11:20	



Semivolatile Organic Compounds by GC/MS

Project Location: Saranac Lake, NY Date Received: 6/2/2023

Field Sample #: 516008-SD-402

Sample ID: 23F0343-14

Sample Matrix: Soil

Phenanthrene

Sample Description:

ND

0.20

0.080

Sampled: 5/31/2023 12:51

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	0.078	mg/Kg dry	1		SW-846 8270E	6/9/23	6/14/23 14:00	AR2
Acenaphthylene	ND	0.20	0.080	mg/Kg dry	1		SW-846 8270E	6/9/23	6/14/23 14:00	AR2
Anthracene	ND	0.20	0.079	mg/Kg dry	1		SW-846 8270E	6/9/23	6/14/23 14:00	AR2
Benzo(a)anthracene	ND	0.20	0.073	mg/Kg dry	1		SW-846 8270E	6/9/23	6/14/23 14:00	AR2
Benzo(a)pyrene	ND	0.20	0.067	mg/Kg dry	1		SW-846 8270E	6/9/23	6/14/23 14:00	AR2
Benzo(b)fluoranthene	ND	0.20	0.069	mg/Kg dry	1		SW-846 8270E	6/9/23	6/14/23 14:00	AR2
Benzo(g,h,i)perylene	ND	0.20	0.085	mg/Kg dry	1		SW-846 8270E	6/9/23	6/14/23 14:00	AR2
Benzo(k)fluoranthene	ND	0.20	0.073	mg/Kg dry	1		SW-846 8270E	6/9/23	6/14/23 14:00	AR2
Chrysene	ND	0.20	0.074	mg/Kg dry	1		SW-846 8270E	6/9/23	6/14/23 14:00	AR2
Dibenz(a,h)anthracene	ND	0.20	0.079	mg/Kg dry	1		SW-846 8270E	6/9/23	6/14/23 14:00	AR2
Fluoranthene	ND	0.20	0.073	mg/Kg dry	1		SW-846 8270E	6/9/23	6/14/23 14:00	AR2
Fluorene	ND	0.20	0.079	mg/Kg dry	1		SW-846 8270E	6/9/23	6/14/23 14:00	AR2
Indeno(1,2,3-cd)pyrene	ND	0.20	0.089	mg/Kg dry	1		SW-846 8270E	6/9/23	6/14/23 14:00	AR2
2-Methylnaphthalene	ND	0.20	0.080	mg/Kg dry	1		SW-846 8270E	6/9/23	6/14/23 14:00	AR2
Naphthalene	ND	0.20	0.081	mg/Kg dry	1		SW-846 8270E	6/9/23	6/14/23 14:00	AR2

Phenanthrene	ND	0.20	0.080	mg/Kg dry	1		SW-846 8270E	6/9/23	6/14/23 14:00	AR2
Pyrene	0.084	0.20	0.081	mg/Kg dry	1	J	SW-846 8270E	6/9/23	6/14/23 14:00	AR2
Surrogates		% Reco	very	Recovery Limits		Flag/Qual				
Nitrobenzene-d5		75.6		30-130					6/14/23 14:00	
2-Fluorobiphenyl		75.8		30-130					6/14/23 14:00	
p-Terphenyl-d14		80.0		30-130					6/14/23 14:00	

SW-846 8270E

6/9/23

Work Order: 23F0343



	39 Spruce S	treet * East	Longmeadow, MA 0	1028 * FAX 4	13/525-6405 * TE	L. 413/525-2332			
Project Location: Saranac Lake, NY	Sa	mple Descrip	tion:				Work Orde	er: 23F0343	
Date Received: 6/2/2023									
Field Sample #: 516008-SD-402	Sa	mpled: 5/31/	2023 12:51						
Sample ID: 23F0343-14									
Sample Matrix: Soil									
	Conv	entional Che	mistry Parameters by	/ EPA/APHA/	SW-846 Methods (Total)			
							Date	Date/Time	
Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
% Solids	83.3		% Wt	1		SM 2540G	6/9/23	6/9/23 11:54	JLC



Semivolatile Organic Compounds by GC/MS

Work Order: 23F0343

Project Location: Saranac Lake, NY Date Received: 6/2/2023 Field Sample #: 516008-SW-403 Sample ID: 23F0343-15

Sample Matrix: Surface Water

Sampled: 5/31/2023 13:20

Analyte	Results	RL	DL	Units	Dilution	Flag/Onal	Method	Date Prenared	Date/Time Analyzed	Analyst
Acenaphthene	ND	4.9	0.52	ug/L	1	r ng quu	SW-846 8270E	6/7/23	6/13/23 11:42	AR2
Acenaphthylene	ND	4.9	0.54	ug/L	1		SW-846 8270E	6/7/23	6/13/23 11:42	AR2
Anthracene	ND	4.9	0.48	μg/L	1		SW-846 8270E	6/7/23	6/13/23 11:42	AR2
Benzo(a)anthracene	ND	4.9	0.45	μg/L	1		SW-846 8270E	6/7/23	6/13/23 11:42	AR2
Benzo(a)pyrene	ND	4.9	0.68	μg/L	1		SW-846 8270E	6/7/23	6/13/23 11:42	AR2
Benzo(b)fluoranthene	ND	4.9	0.53	μg/L	1		SW-846 8270E	6/7/23	6/13/23 11:42	AR2
Benzo(g,h,i)perylene	ND	4.9	0.66	μg/L	1	V-05	SW-846 8270E	6/7/23	6/13/23 11:42	AR2
Benzo(k)fluoranthene	ND	4.9	0.61	μg/L	1		SW-846 8270E	6/7/23	6/13/23 11:42	AR2
Chrysene	ND	4.9	0.43	μg/L	1		SW-846 8270E	6/7/23	6/13/23 11:42	AR2
Dibenz(a,h)anthracene	ND	4.9	0.72	μg/L	1	V-05	SW-846 8270E	6/7/23	6/13/23 11:42	AR2
Fluoranthene	ND	4.9	0.47	μg/L	1		SW-846 8270E	6/7/23	6/13/23 11:42	AR2
Fluorene	ND	4.9	0.52	μg/L	1		SW-846 8270E	6/7/23	6/13/23 11:42	AR2
Indeno(1,2,3-cd)pyrene	ND	4.9	0.76	μg/L	1	V-05	SW-846 8270E	6/7/23	6/13/23 11:42	AR2
2-Methylnaphthalene	ND	4.9	0.66	μg/L	1		SW-846 8270E	6/7/23	6/13/23 11:42	AR2
Naphthalene	ND	4.9	0.58	μg/L	1		SW-846 8270E	6/7/23	6/13/23 11:42	AR2
Phenanthrene	ND	4.9	0.50	μg/L	1		SW-846 8270E	6/7/23	6/13/23 11:42	AR2
Pyrene	ND	4.9	0.64	μg/L	1		SW-846 8270E	6/7/23	6/13/23 11:42	AR2
Surrogates		% Reco	overy	Recovery Limits	;	Flag/Qual				
Nitrobenzene-d5		53.3		30-130					6/13/23 11:42	
2-Fluorobiphenyl		54.4		30-130					6/13/23 11:42	
p-Terphenyl-d14		67.7		30-130					6/13/23 11:42	



Semivolatile Organic Compounds by GC/MS

Work Order: 23F0343

Project Location: Saranac Lake, NY Date Received: 6/2/2023 Field Sample #: 516008-FD-GW Sample ID: 23F0343-16

Sample Matrix: Ground Water

Sampled: 5/31/2023 00:00

								Date	Date/Time	
Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
Acenaphthene	ND	4.9	0.52	μg/L	1		SW-846 8270E	6/7/23	6/13/23 12:03	AR2
Acenaphthylene	ND	4.9	0.54	μg/L	1		SW-846 8270E	6/7/23	6/13/23 12:03	AR2
Anthracene	ND	4.9	0.48	μg/L	1		SW-846 8270E	6/7/23	6/13/23 12:03	AR2
Benzo(a)anthracene	ND	4.9	0.45	$\mu g/L$	1		SW-846 8270E	6/7/23	6/13/23 12:03	AR2
Benzo(a)pyrene	ND	4.9	0.68	μg/L	1		SW-846 8270E	6/7/23	6/13/23 12:03	AR2
Benzo(b)fluoranthene	ND	4.9	0.53	$\mu g/L$	1		SW-846 8270E	6/7/23	6/13/23 12:03	AR2
Benzo(g,h,i)perylene	ND	4.9	0.66	$\mu g/L$	1	V-05	SW-846 8270E	6/7/23	6/13/23 12:03	AR2
Benzo(k)fluoranthene	ND	4.9	0.61	μg/L	1		SW-846 8270E	6/7/23	6/13/23 12:03	AR2
Chrysene	ND	4.9	0.43	μg/L	1		SW-846 8270E	6/7/23	6/13/23 12:03	AR2
Dibenz(a,h)anthracene	ND	4.9	0.72	μg/L	1	V-05	SW-846 8270E	6/7/23	6/13/23 12:03	AR2
Fluoranthene	ND	4.9	0.47	μg/L	1		SW-846 8270E	6/7/23	6/13/23 12:03	AR2
Fluorene	ND	4.9	0.52	$\mu g/L$	1		SW-846 8270E	6/7/23	6/13/23 12:03	AR2
Indeno(1,2,3-cd)pyrene	ND	4.9	0.76	$\mu g/L$	1	V-05	SW-846 8270E	6/7/23	6/13/23 12:03	AR2
2-Methylnaphthalene	ND	4.9	0.66	$\mu g/L$	1		SW-846 8270E	6/7/23	6/13/23 12:03	AR2
Naphthalene	ND	4.9	0.58	$\mu g/L$	1		SW-846 8270E	6/7/23	6/13/23 12:03	AR2
Phenanthrene	ND	4.9	0.50	μg/L	1		SW-846 8270E	6/7/23	6/13/23 12:03	AR2
Pyrene	ND	4.9	0.64	μg/L	1		SW-846 8270E	6/7/23	6/13/23 12:03	AR2
Surrogates		% Reco	overy	Recovery Limits	;	Flag/Qual				
Nitrobenzene-d5		69.4		30-130					6/13/23 12:03	
2-Fluorobiphenyl		67.0		30-130					6/13/23 12:03	
p-Terphenyl-d14		73.4		30-130					6/13/23 12:03	



Semivolatile Organic Compounds by GC/MS

Work Order: 23F0343

Project Location: Saranac Lake, NY Date Received: 6/2/2023 Field Sample #: 516008-FD-SW Sample ID: 23F0343-17 Sample Matrix: Surface Water

Sampled: 5/31/2023 00:00

								Date	Date/Time	
Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
Acenaphthene	ND	4.9	0.53	$\mu g/L$	1		SW-846 8270E	6/7/23	6/13/23 12:24	AR2
Acenaphthylene	ND	4.9	0.55	μg/L	1		SW-846 8270E	6/7/23	6/13/23 12:24	AR2
Anthracene	ND	4.9	0.49	μg/L	1		SW-846 8270E	6/7/23	6/13/23 12:24	AR2
Benzo(a)anthracene	ND	4.9	0.45	μg/L	1		SW-846 8270E	6/7/23	6/13/23 12:24	AR2
Benzo(a)pyrene	ND	4.9	0.68	μg/L	1		SW-846 8270E	6/7/23	6/13/23 12:24	AR2
Benzo(b)fluoranthene	ND	4.9	0.54	μg/L	1		SW-846 8270E	6/7/23	6/13/23 12:24	AR2
Benzo(g,h,i)perylene	ND	4.9	0.67	μg/L	1	V-05	SW-846 8270E	6/7/23	6/13/23 12:24	AR2
Benzo(k)fluoranthene	ND	4.9	0.62	μg/L	1		SW-846 8270E	6/7/23	6/13/23 12:24	AR2
Chrysene	ND	4.9	0.44	μg/L	1		SW-846 8270E	6/7/23	6/13/23 12:24	AR2
Dibenz(a,h)anthracene	ND	4.9	0.73	$\mu g/L$	1	V-05	SW-846 8270E	6/7/23	6/13/23 12:24	AR2
Fluoranthene	ND	4.9	0.47	$\mu g/L$	1		SW-846 8270E	6/7/23	6/13/23 12:24	AR2
Fluorene	ND	4.9	0.53	μg/L	1		SW-846 8270E	6/7/23	6/13/23 12:24	AR2
Indeno(1,2,3-cd)pyrene	ND	4.9	0.77	μg/L	1	V-05	SW-846 8270E	6/7/23	6/13/23 12:24	AR2
2-Methylnaphthalene	ND	4.9	0.66	μg/L	1		SW-846 8270E	6/7/23	6/13/23 12:24	AR2
Naphthalene	ND	4.9	0.59	μg/L	1		SW-846 8270E	6/7/23	6/13/23 12:24	AR2
Phenanthrene	ND	4.9	0.50	μg/L	1		SW-846 8270E	6/7/23	6/13/23 12:24	AR2
Pyrene	ND	4.9	0.64	μg/L	1		SW-846 8270E	6/7/23	6/13/23 12:24	AR2
Surrogates		% Reco	overy	Recovery Limits	;	Flag/Qual				
Nitrobenzene-d5		53.2		30-130					6/13/23 12:24	
2-Fluorobiphenyl		46.1		30-130					6/13/23 12:24	
p-Terphenyl-d14		61.8		30-130					6/13/23 12:24	



Table of Contents

Work Order: 23F0343

Project Location: Saranac Lake, NY Date Received: 6/2/2023 Field Sample #: 516008-FD-SD Sample ID: 23F0343-18 Sample Matrix: Soil

Sampled: 5/31/2023 00:00

	Semivolatile Organic Compounds by GC/MS											
Analyte	Results	RL	DL	Units	Dilution	Flag/Oual	Method	Date Prepared	Date/Time Analyzed	Analyst		
Acenaphthene	ND	0.20	0.076	mg/Kg dry	1		SW-846 8270E	6/9/23	6/14/23 14:24	AR2		
Acenaphthylene	ND	0.20	0.078	mg/Kg dry	1		SW-846 8270E	6/9/23	6/14/23 14:24	AR2		
Anthracene	ND	0.20	0.077	mg/Kg dry	1		SW-846 8270E	6/9/23	6/14/23 14:24	AR2		
Benzo(a)anthracene	ND	0.20	0.072	mg/Kg dry	1		SW-846 8270E	6/9/23	6/14/23 14:24	AR2		
Benzo(a)pyrene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270E	6/9/23	6/14/23 14:24	AR2		
Benzo(b)fluoranthene	ND	0.20	0.067	mg/Kg dry	1		SW-846 8270E	6/9/23	6/14/23 14:24	AR2		
Benzo(g,h,i)perylene	ND	0.20	0.083	mg/Kg dry	1		SW-846 8270E	6/9/23	6/14/23 14:24	AR2		
Benzo(k)fluoranthene	ND	0.20	0.072	mg/Kg dry	1		SW-846 8270E	6/9/23	6/14/23 14:24	AR2		
Chrysene	ND	0.20	0.072	mg/Kg dry	1		SW-846 8270E	6/9/23	6/14/23 14:24	AR2		
Dibenz(a,h)anthracene	ND	0.20	0.077	mg/Kg dry	1		SW-846 8270E	6/9/23	6/14/23 14:24	AR2		
Fluoranthene	ND	0.20	0.071	mg/Kg dry	1		SW-846 8270E	6/9/23	6/14/23 14:24	AR2		
Fluorene	ND	0.20	0.077	mg/Kg dry	1		SW-846 8270E	6/9/23	6/14/23 14:24	AR2		
Indeno(1,2,3-cd)pyrene	ND	0.20	0.087	mg/Kg dry	1		SW-846 8270E	6/9/23	6/14/23 14:24	AR2		
2-Methylnaphthalene	ND	0.20	0.078	mg/Kg dry	1		SW-846 8270E	6/9/23	6/14/23 14:24	AR2		
Naphthalene	ND	0.20	0.079	mg/Kg dry	1		SW-846 8270E	6/9/23	6/14/23 14:24	AR2		
Phenanthrene	ND	0.20	0.078	mg/Kg dry	1		SW-846 8270E	6/9/23	6/14/23 14:24	AR2		
Pyrene	ND	0.20	0.079	mg/Kg dry	1		SW-846 8270E	6/9/23	6/14/23 14:24	AR2		
Surrogates		% Reco	overy	Recovery Limits	6	Flag/Qual						
Nitrobenzene-d5		78.2		30-130					6/14/23 14:24			
2-Fluorobiphenyl		77.9		30-130					6/14/23 14:24			
p-Terphenyl-d14		83.8		30-130					6/14/23 14:24			



	39 Spruce S	treet * East	Longmeadow, MA 07	1028 * FAX 4	13/525-6405 * TE	L. 413/525-2332			
Project Location: Saranac Lake, NY	Sa	mple Descrip	tion:				Work Orde	er: 23F0343	
Date Received: 6/2/2023									
Field Sample #: 516008-FD-SD	Sa	mpled: 5/31/	2023 00:00						
Sample ID: 23F0343-18									
Sample Matrix: Soil									
	Conv	entional Che	mistry Parameters by	EPA/APHA/	SW-846 Methods (Total)			
							Date	Date/Time	
Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
% Solids	85.4		% Wt	1		SM 2540G	6/9/23	6/9/23 11:54	JLC



Sample Extraction Data

Prep Method:% Solids Analytical Method:SM 2540G

Lab Number [Field ID]	Batch	Date		
23F0343-10 [516008-SD-400]	B342378	06/06/23		
Prep Method:% Solids Analytical Method:SM 2540G				
Lab Number [Field ID]	Batch	Date		
23F0343-12 [516008-SD-401]	B342616	06/08/23		

Prep Method:% Solids Analytical Method:SM 2540G

Lab Number [Field ID]	Batch	Date
23F0343-14 [516008-SD-402]	B342823	06/09/23
23F0343-18 [516008-FD-SD]	B342823	06/09/23

Prep Method:SW-846 3546 Analytical Method:SW-846 8270E

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
	B342520	30.0	1.00	06/07/23
23F0343-12 [516008-SD-401]	B342520	30.0	1.00	06/07/23

Prep Method:SW-846 3546 Analytical Method:SW-846 8270E

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
23F0343-14 [516008-SD-402]	B342790	30.0	1.00	06/09/23
23F0343-18 [516008-FD-SD]	B342790	30.0	1.00	06/09/23

Prep Method:SW-846 3510C Analytical Method:SW-846 8270E

Lab Number [Field ID]	Batch I	Initial [mL]	Final [mL]	Date
23F0343-01 [516008-MW-204S]	B342468	1040	1.00	06/06/23
23F0343-01RE1 [516008-MW-204S]	B342468	1040	1.00	06/06/23
23F0343-02 [516008-MW-106R]	B342468	1000	1.00	06/06/23
23F0343-02RE1 [516008-MW-106R]	B342468	1000	1.00	06/06/23
23F0343-03 [516008-MW-204D]	B342468	1030	1.00	06/06/23
23F0343-03RE1 [516008-MW-204D]	B342468	1030	1.00	06/06/23
23F0343-04 [516008-MW-2058]	B342468	990	1.00	06/06/23
23F0343-05 [516008-MW-104]	B342468	1030	1.00	06/06/23
23F0343-05RE1 [516008-MW-104]	B342468	1030	1.00	06/06/23
23F0343-06 [516008-MW-205D]	B342468	970	1.00	06/06/23
23F0343-06RE1 [516008-MW-205D]	B342468	970	1.00	06/06/23
23F0343-06RE2 [516008-MW-205D]	B342468	970	1.00	06/06/23

Prep Method:SW-846 3510C Analytical Method:SW-846 8270E

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23F0343-07 [516008-MW-108R]	B342496	1030	1.00	06/07/23
23F0343-08 [516008-MW-110R]	B342496	1040	1.00	06/07/23
23F0343-09 [516008-SW-400]	B342496	1040	1.00	06/07/23



Sample Extraction Data

Prep Method:SW-846 3510C Analytical Method:SW-846 8270E

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23F0343-11 [516008-SW-401]	B342496	1030	1.00	06/07/23
23F0343-13 [516008-SW-402]	B342496	1030	1.00	06/07/23
23F0343-15 [516008-SW-403]	B342496	1030	1.00	06/07/23
23F0343-16 [516008-FD-GW]	B342496	1030	1.00	06/07/23
23F0343-17 [516008-FD-SW]	B342496	1020	1.00	06/07/23



QUALITY CONTROL

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B342468 - SW-846 3510C										
Blank (B342468-BLK1)				Prepared: 06	6/06/23 Anal	yzed: 06/09/2	23			
Acenaphthene	ND	5.0	μg/L							
Acenaphthylene	ND	5.0	μg/L							
Anthracene	ND	5.0	μg/L							
Benzo(a)anthracene	ND	5.0	μg/L							
Benzo(a)pyrene	ND	5.0	μg/L							
Benzo(b)fluoranthene	ND	5.0	μg/L							
Benzo(g,h,i)perylene	ND	5.0	μg/L							
Benzo(k)fluoranthene	ND	5.0	μg/L							
Chrysene	ND	5.0	μg/L							
Dibenz(a,h)anthracene	ND	5.0	μg/L							
Fluoranthene	ND	5.0	μg/L							
Fluorene	ND	5.0	μg/L							
Indeno(1,2,3-cd)pyrene	ND	5.0	μg/L							
2-Methylnaphthalene	ND	5.0	μg/L							
Naphthalene	ND	5.0	μg/L							
Phenanthrene	ND	5.0	μg/L							
Pyrene	ND	5.0	μg/L							
Surrogate: Nitrobenzene-d5	66.6		μg/L	100		66.6	30-130			
Surrogate: 2-Fluorobiphenyl	62.3		μg/L	100		62.3	30-130			
Surrogate: p-Terphenyl-d14	90.3		μg/L	100		90.3	30-130			
LCS (B342468-BS1)				Prepared: 06	06/23 Anal	yzed: 06/09/2	.3			
Acenaphthene	34.2	5.0	μg/L	50.0		68.4	40-140			
Acenaphthylene	37.7	5.0	μg/L	50.0		75.3	40-140			
Anthracene	37.8	5.0	μg/L	50.0		75.6	40-140			
Benzo(a)anthracene	36.7	5.0	μg/L	50.0		73.5	40-140			
Benzo(a)pyrene	36.2	5.0	μg/L	50.0		72.4	40-140			
Benzo(b)fluoranthene	39.0	5.0	μg/L	50.0		78.0	40-140			
Benzo(g,h,i)perylene	27.2	5.0	μg/L	50.0		54.5	40-140			
Benzo(k)fluoranthene	39.7	5.0	μg/L	50.0		79.5	40-140			
Chrysene	34.2	5.0	μg/L	50.0		68.4	40-140			
Dibenz(a,h)anthracene	26.8	5.0	μg/L	50.0		53.5	40-140			
Fluoranthene	37.3	5.0	μg/L	50.0		74.5	40-140			
Fluorene	35.1	5.0	μg/L	50.0		70.2	40-140			
Indeno(1,2,3-cd)pyrene	28.0	5.0	μg/L	50.0		56.0	40-140			
2-Methylnaphthalene	34.3	5.0	μg/L	50.0		68.7	40-140			
Naphthalene	32.8	5.0	μg/L	50.0		65.7	40-140			
Phenanthrene	37.4	5.0	μg/L	50.0		74.8	40-140			
Pyrene	37.9	5.0	μg/L	50.0		75.9	40-140			
Surrogate: Nitrobenzene-d5	76.0		μg/L	100		76.0	30-130			
Surrogate: 2-Fluorobiphenyl	80.8		μg/L	100		80.8	30-130			
Surrogate: p-Terphenyl-d14	86.0		μg/L	100		86.0	30-130			



‡

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332 QUALITY CONTROL

Analys	D L	Reporting	TT '-	Spike	Source	0/852	%REC	DDD	RPD	NT (
Analyte	Kesult	Limit	Units	Level	ĸesult	%REC	Limits	крр	Limit	INOTES
Batch B342468 - SW-846 3510C										
LCS Dup (B342468-BSD1)				Prepared: 06	5/06/23 Analyz	zed: 06/09/2	23			
Acenaphthene	31.1	5.0	μg/L	50.0		62.3	40-140	9.34	20	
Acenaphthylene	33.8	5.0	μg/L	50.0		67.5	40-140	10.9	20	
Anthracene	35.1	5.0	μg/L	50.0		70.2	40-140	7.35	20	
Benzo(a)anthracene	34.4	5.0	μg/L	50.0		68.8	40-140	6.64	20	
Benzo(a)pyrene	33.0	5.0	μg/L	50.0		66.0	40-140	9.34	20	
Benzo(b)fluoranthene	35.6	5.0	μg/L	50.0		71.3	40-140	9.01	20	
Benzo(g,h,i)perylene	25.5	5.0	μg/L	50.0		51.0	40-140	6.56	20	
Benzo(k)fluoranthene	35.9	5.0	μg/L	50.0		71.9	40-140	10.0	20	
Chrysene	32.1	5.0	μg/L	50.0		64.2	40-140	6.31	20	
Dibenz(a,h)anthracene	25.5	5.0	μg/L	50.0		51.0	40-140	4.90	20	
Fluoranthene	35.0	5.0	μg/L	50.0		70.0	40-140	6.28	20	
Fluorene	33.2	5.0	μg/L	50.0		66.3	40-140	5.71	20	
Indeno(1,2,3-cd)pyrene	25.8	5.0	μg/L	50.0		51.6	40-140	8.11	50	
2-Methylnaphthalene	30.6	5.0	μg/L	50.0		61.2	40-140	11.5	20	
Naphthalene	30.1	5.0	μg/L	50.0		60.3	40-140	8.54	20	
Phenanthrene	34.2	5.0	μg/L	50.0		68.4	40-140	8.96	20	
Pyrene	36.2	5.0	μg/L	50.0		72.5	40-140	4.58	20	
Surrogate: Nitrobenzene-d5	67.9		μg/L	100		67.9	30-130			
Surrogate: 2-Fluorobiphenyl	70.0		μg/L	100		70.0	30-130			
Surrogate: p-Terphenyl-d14	79.3		$\mu g/L$	100		79.3	30-130			
Matrix Spike (B342468-MS1)	Sou	rce: 23F0343-0	13	Prepared: 06	6/06/23 Analyz	zed: 06/09/2	23			
Acenaphthene	42.0	4.9	μg/L	48.5	8.78	68.4	40-140			
Acenaphthylene	77.7	4.9	μg/L	48.5	38.4	81.0	40-140			
Anthracene	37.9	4.9	μg/L	48.5	2.19	73.5	40-140			
Benzo(a)anthracene	34.8	4.9	μg/L	48.5	ND	71.6	40-140			
Benzo(a)pyrene	34.4	4.9	μg/L	48.5	ND	70.9	40-140			
Benzo(b)fluoranthene	36.7	4.9	μg/L	48.5	ND	75.6	40-140			
Benzo(g,h,i)perylene	25.7	4.9	μg/L	48.5	ND	53.0	40-140			
Benzo(k)fluoranthene	36.6	4.9	μg/L	48.5	ND	75.5	40-140			
Chrysene	32.5	4.9	μg/L	48.5	ND	66.9	40-140			
Dibenz(a,h)anthracene	26.3	4.9	μg/L	48.5	ND	54.2	40-140			
Fluoranthene	36.0	4.9	μg/L	48.5	0.883	72.2	40-140			
Fluorene	47.3	4.9	μg/L	48.5	13.1	70.4	40-140			
Indeno(1,2,3-cd)pyrene	26.5	4.9	μg/L	48.5	ND	54.7	40-140			
2-Methylnaphthalene	45.5	4.9	μg/L	48.5	13.0	67.0	40-140			
Naphthalene	240	4.9	μg/L	48.5	181	122	40-140			
Phenanthrene	45.5	4.9	μg/L	48.5	9.79	73.6	40-140			
Pyrene	36.5	4.9	μg/L	48.5	0.903	73.4	40-140			
Surrogate: Nitrobenzene-d5	70.3		μg/L	97.1		72.4	30-130			
Surrogate: 2-Fluorobiphenyl	74.6		. υ μg/L	97.1		76.8	30-130			
Surrogate: p-Terphenyl-d14	70.1		μg/L	97.1		72.2	30-130			



Semivolatile Organic Compounds by GC/MS - Quality Control

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B342468 - SW-846 3510C										
Matrix Spike Dup (B342468-MSD1)	Sou	rce: 23F0343-0	03	Prepared: 06	5/06/23 Analyz	zed: 06/09/2	23			
Acenaphthene	40.0	4.9	μg/L	48.5	8.78	64.3	40-140	4.86	30	
Acenaphthylene	73.9	4.9	μg/L	48.5	38.4	73.2	40-140	5.01	30	
Anthracene	35.8	4.9	μg/L	48.5	2.19	69.2	40-140	5.67	30	
Benzo(a)anthracene	32.8	4.9	μg/L	48.5	ND	67.5	40-140	5.92	30	
Benzo(a)pyrene	32.1	4.9	μg/L	48.5	ND	66.1	40-140	7.01	30	
Benzo(b)fluoranthene	34.5	4.9	μg/L	48.5	ND	71.1	40-140	6.19	30	
Benzo(g,h,i)perylene	25.1	4.9	μg/L	48.5	ND	51.8	40-140	2.33	30	
Benzo(k)fluoranthene	34.6	4.9	μg/L	48.5	ND	71.3	40-140	5.70	30	
Chrysene	31.2	4.9	μg/L	48.5	ND	64.2	40-140	4.09	30	
Dibenz(a,h)anthracene	25.0	4.9	μg/L	48.5	ND	51.5	40-140	5.19	30	
Fluoranthene	34.3	4.9	μg/L	48.5	0.883	68.9	40-140	4.64	30	
Fluorene	45.4	4.9	μg/L	48.5	13.1	66.5	40-140	4.04	30	
Indeno(1,2,3-cd)pyrene	26.2	4.9	μg/L	48.5	ND	53.9	40-140	1.40	30	
2-Methylnaphthalene	44.7	4.9	μg/L	48.5	13.0	65.4	40-140	1.72	30	
Naphthalene	236	4.9	μg/L	48.5	181	112	40-140	1.97	30	
Phenanthrene	43.8	4.9	μg/L	48.5	9.79	70.2	40-140	3.69	30	
Pyrene	35.7	4.9	μg/L	48.5	0.903	71.6	40-140	2.42	30	
Surrogate: Nitrobenzene-d5	67.6		μg/L	97.1		69.6	30-130			
Surrogate: 2-Fluorobiphenyl	71.3		μg/L	97.1		73.4	30-130			
Surrogate: p-Terphenyl-d14	69.5		μg/L	97.1		71.6	30-130			

Batch B342496 - SW-846 3510C

Blank (B342496-BLK1)				Prepared: 06/07/23	Analyzed: 06/10/2	3	
Acenaphthene	ND	5.0	μg/L				
Acenaphthylene	ND	5.0	μg/L				
Anthracene	ND	5.0	μg/L				
Benzo(a)anthracene	ND	5.0	μg/L				
Benzo(a)pyrene	ND	5.0	μg/L				
Benzo(b)fluoranthene	ND	5.0	μg/L				
Benzo(g,h,i)perylene	ND	5.0	μg/L				
Benzo(k)fluoranthene	ND	5.0	μg/L				
Chrysene	ND	5.0	μg/L				
Dibenz(a,h)anthracene	ND	5.0	μg/L				
Fluoranthene	ND	5.0	μg/L				
Fluorene	ND	5.0	μg/L				
Indeno(1,2,3-cd)pyrene	ND	5.0	μg/L				
2-Methylnaphthalene	ND	5.0	μg/L				
Naphthalene	ND	5.0	μg/L				
Phenanthrene	ND	5.0	μg/L				
Pyrene	ND	5.0	μg/L				
Surrogate: Nitrobenzene-d5	71.7		μg/L	100	71.7	30-130	
Surrogate: 2-Fluorobiphenyl	65.9		μg/L	100	65.9	30-130	
Surrogate: p-Terphenyl-d14	85.2		μg/L	100	85.2	30-130	



Semivolatile Organic Compounds by GC/MS - Quality Control

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B342496 - SW-846 3510C										
LCS (B342496-BS1)				Prepared: 06	5/07/23 Anal	yzed: 06/10/2	23			
Acenaphthene	33.2	5.0	μg/L	50.0		66.5	40-140			
Acenaphthylene	35.9	5.0	μg/L	50.0		71.9	40-140			
Anthracene	37.1	5.0	μg/L	50.0		74.3	40-140			
Benzo(a)anthracene	35.6	5.0	μg/L	50.0		71.2	40-140			
Benzo(a)pyrene	34.2	5.0	μg/L	50.0		68.4	40-140			
Benzo(b)fluoranthene	35.8	5.0	μg/L	50.0		71.7	40-140			
Benzo(g,h,i)perylene	35.1	5.0	μg/L	50.0		70.1	40-140			V-05
Benzo(k)fluoranthene	36.1	5.0	μg/L	50.0		72.3	40-140			
Chrysene	33.2	5.0	μg/L	50.0		66.4	40-140			
Dibenz(a,h)anthracene	34.1	5.0	μg/L	50.0		68.2	40-140			V-05
Fluoranthene	36.4	5.0	μg/L	50.0		72.8	40-140			
Fluorene	35.5	5.0	μg/L	50.0		71.0	40-140			
Indeno(1,2,3-cd)pyrene	34.7	5.0	μg/L	50.0		69.5	40-140			V-05
2-Methylnaphthalene	30.7	5.0	μg/L	50.0		61.4	40-140			
Naphthalene	29.8	5.0	μg/L	50.0		59.5	40-140			
Phenanthrene	36.6	5.0	μg/L	50.0		73.3	40-140			
Pyrene	38.2	5.0	μg/L	50.0		76.4	40-140			
Surrogate: Nitrobenzene-d5	77.3		μg/L	100		77.3	30-130			
Surrogate: 2-Fluorobiphenyl	77.0		μg/L	100		77.0	30-130			
Surrogate: p-Terphenyl-d14	83.4		$\mu g/L$	100		83.4	30-130			
LCS Dup (B342496-BSD1)				Prepared: 06	07/23 Anal	yzed: 06/10/2	23			
Acenaphthene	31.3	5.0	μg/L	50.0		62.5	40-140	6.14	20	
Acenaphthylene	33.6	5.0	μg/L	50.0		67.1	40-140	6.85	20	
Anthracene	34.3	5.0	μg/L	50.0		68.6	40-140	7.98	20	
Benzo(a)anthracene	33.3	5.0	μg/L	50.0		66.6	40-140	6.67	20	
Benzo(a)pyrene	31.8	5.0	μg/L	50.0		63.6	40-140	7.33	20	
Benzo(b)fluoranthene	33.0	5.0	μg/L	50.0		66.0	40-140	8.22	20	
Benzo(g,h,i)perylene	33.3	5.0	μg/L	50.0		66.7	40-140	5.03	20	
Benzo(k)fluoranthene	33.7	5.0	μg/L	50.0		67.3	40-140	7.05	20	
Chrysene	31.7	5.0	μg/L	50.0		63.3	40-140	4.69	20	
Dibenz(a,h)anthracene	32.0	5.0	μg/L	50.0		64.0	40-140	6.29	20	
Fluoranthene	34.4	5.0	μg/L	50.0		68.7	40-140	5.79	20	
Fluorene	33.5	5.0	μg/L	50.0		66.9	40-140	5.94	20	
Indeno(1,2,3-cd)pyrene	32.8	5.0	μg/L	50.0		65.6	40-140	5.75	50	
2-Methylnaphthalene	29.7	5.0	μg/L	50.0		59.4	40-140	3.38	20	
Naphthalene	28.6	5.0	μg/L	50.0		57.1	40-140	4.12	20	
Phenanthrene	34.4	5.0	μg/L	50.0		68.8	40-140	6.30	20	
Pyrene	36.0	5.0	μg/L	50.0		72.0	40-140	5.88	20	
Surrogate: Nitrobenzene-d5	73.1		μg/L	100		73.1	30-130			
Surrogate: 2-Fluorobiphenyl	70.9		$\mu g/L$	100		70.9	30-130			
Surrogate: p-Terphenyl-d14	75.6		μg/L	100		75.6	30-130			

‡



Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B342496 - SW-846 3510C										
Matrix Spike (B342496-MS1)	Sou	rce: 23F0343-	13	Prepared: 06	5/07/23 Analyz	zed: 06/13	/23			
Acenaphthene	24.4	5.0	μg/L	50.0	ND	48.9	40-140			
Acenaphthylene	28.0	5.0	μg/L	50.0	ND	56.0	40-140			
Anthracene	34.5	5.0	μg/L	50.0	ND	69.0	40-140			
Benzo(a)anthracene	34.9	5.0	μg/L	50.0	ND	69.8	40-140			
Benzo(a)pyrene	33.9	5.0	μg/L	50.0	ND	67.9	40-140			
Benzo(b)fluoranthene	35.2	5.0	μg/L	50.0	ND	70.5	40-140			
Benzo(g,h,i)perylene	30.6	5.0	μg/L	50.0	ND	61.1	40-140			V-05
Benzo(k)fluoranthene	35.9	5.0	μg/L	50.0	ND	71.8	40-140			
Chrysene	32.5	5.0	μg/L	50.0	ND	65.0	40-140			
Dibenz(a,h)anthracene	30.8	5.0	μg/L	50.0	ND	61.6	40-140			V-05
Fluoranthene	36.1	5.0	μg/L	50.0	ND	72.2	40-140			
Fluorene	31.4	5.0	μg/L	50.0	ND	62.7	40-140			
Indeno(1,2,3-cd)pyrene	31.3	5.0	μg/L	50.0	ND	62.7	40-140			V-05
2-Methylnaphthalene	18.4	5.0	μg/L	50.0	ND	36.7	∗ 40-140			MS-22
Naphthalene	18.9	5.0	μg/L	50.0	ND	37.8	∗ 40-140			MS-22
Phenanthrene	34.6	5.0	μg/L	50.0	ND	69.2	40-140			
Pyrene	37.1	5.0	μg/L	50.0	ND	74.1	40-140			
Surrogate: Nitrobenzene-d5	69.0		μg/L	100		69.0	30-130			
Surrogate: 2-Fluorobiphenyl	57.5		μg/L	100		57.5	30-130			
Surrogate: p-Terphenyl-d14	78.2		μg/L	100		78.2	30-130			
Matrix Spike Dup (B342496-MSD1)	Sou	rce: 23F0343-	13	Prepared: 06	5/07/23 Analyz	zed: 06/13	/23			
Acenaphthene	28.3	5.0	μg/L	50.0	ND	56.5	40-140	14.5	30	
Acenaphthylene	31.7	5.0	μg/L	50.0	ND	63.5	40-140	12.4	30	
Anthracene	34.2	5.0	μg/L	50.0	ND	68.4	40-140	0.815	30	
Benzo(a)anthracene	34.1	5.0	μg/L	50.0	ND	68.1	40-140	2.38	30	
Benzo(a)pyrene	33.1	5.0	μg/L	50.0	ND	66.1	40-140	2.60	30	
Benzo(b)fluoranthene	34.1	5.0	μg/L	50.0	ND	68.3	40-140	3.20	30	
Benzo(g,h,i)perylene	30.0	5.0	μg/L	50.0	ND	60.1	40-140	1.72	30	V-05
Benzo(k)fluoranthene	35.1	5.0	μg/L	50.0	ND	70.1	40-140	2.40	30	
Chrysene	31.8	5.0	μg/L	50.0	ND	63.6	40-140	2.18	30	
Dibenz(a,h)anthracene	29.6	5.0	μg/L	50.0	ND	59.1	40-140	4.07	30	V-05
Fluoranthene	35.6	5.0	μg/L	50.0	ND	71.1	40-140	1.48	30	
Fluorene	32.2	5.0	μg/L	50.0	ND	64.5	40-140	2.74	30	
Indeno(1,2,3-cd)pyrene	30.7	5.0	μg/L	50.0	ND	61.3	40-140	2.13	30	V-05
2-Methylnaphthalene	23.2	5.0	μg/L	50.0	ND	46.4	40-140	23.4	30	
Naphthalene	22.7	5.0	μg/L	50.0	ND	45.5	40-140	18.5	30	
Phenanthrene	34.3	5.0	μg/L	50.0	ND	68.6	40-140	0.784	30	
Pyrene	36.4	5.0	μg/L	50.0	ND	72.8	40-140	1.88	30	
Surrogate: Nitrobenzene-d5	68.1		μg/L	100		68.1	30-130			
Surrogate: 2-Fluorobiphenyl	62.9		μg/L	100		62.9	30-130			
Surrogate: p-Terphenyl-d14	78.0		μg/L	100		78.0	30-130			



QUALITY CONTROL

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B342520 - SW-846 3546										
Blank (B342520-BLK1)				Prepared: 06	5/07/23 Analy	zed: 06/09/2	3			
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	2.71		mg/Kg wet	3.33		81.3	30-130			
Surrogate: 2-Fluorobiphenyl	2.60		mg/Kg wet	3.33		78.0	30-130			
Surrogate: p-Terphenyl-d14	2.91		mg/Kg wet	3.33		87.4	30-130			
LCS (B342520-BS1)				Prepared: 06	07/23 Analy	zed: 06/09/2	3			
Acenaphthene	1.22	0.17	mg/Kg wet	1.67		72.9	40-140			
Acenaphthylene	1.35	0.17	mg/Kg wet	1.67		80.7	40-140			
Anthracene	1.25	0.17	mg/Kg wet	1.67		75.0	40-140			
Benzo(a)anthracene	1.22	0.17	mg/Kg wet	1.67		72.9	40-140			
Benzo(a)pyrene	1.18	0.17	mg/Kg wet	1.67		70.6	40-140			
Benzo(b)fluoranthene	1.28	0.17	mg/Kg wet	1.67		76.7	40-140			
Benzo(g,h,i)perylene	1.32	0.17	mg/Kg wet	1.67		79.4	40-140			
Benzo(k)fluoranthene	1.29	0.17	mg/Kg wet	1.67		77.3	40-140			
Chrysene	1.20	0.17	mg/Kg wet	1.67		71.9	40-140			
Dibenz(a,h)anthracene	1.33	0.17	mg/Kg wet	1.67		80.1	40-140			
Fluoranthene	1.21	0.17	mg/Kg wet	1.67		72.5	40-140			
Fluorene	1.31	0.17	mg/Kg wet	1.67		78.9	40-140			
Indeno(1,2,3-cd)pyrene	1.32	0.17	mg/Kg wet	1.67		79.1	40-140			
2-Methylnaphthalene	1.07	0.17	mg/Kg wet	1.67		64.2	40-140			
Naphthalene	1.21	0.17	mg/Kg wet	1.67		72.4	40-140			
Phenanthrene	1.25	0.17	mg/Kg wet	1.67		74.8	40-140			
Pyrene	1.22	0.17	mg/Kg wet	1.67		73.1	40-140			
Surrogate: Nitrobenzene-d5	2.76		mg/Kg wet	3.33		82.8	30-130			
Surrogate: 2-Fluorobiphenyl	2.69		mg/Kg wet	3.33		80.7	30-130			
Surrogate: p-Terphenyl-d14	2.70		mg/Kg wet	3.33		80.9	30-130			



		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B342520 - SW-846 3546										
LCS Dup (B342520-BSD1)				Prepared: 0	6/07/23 Analy	zed: 06/09	/23			
Acenaphthene	1.21	0.17	mg/Kg wet	1.67		72.5	40-140	0.633	30	
Acenaphthylene	1.30	0.17	mg/Kg wet	1.67		77.7	40-140	3.84	30	
Anthracene	1.29	0.17	mg/Kg wet	1.67		77.3	40-140	2.97	30	
Benzo(a)anthracene	1.24	0.17	mg/Kg wet	1.67		74.3	40-140	1.82	30	
Benzo(a)pyrene	1.19	0.17	mg/Kg wet	1.67		71.6	40-140	1.43	30	
Benzo(b)fluoranthene	1.36	0.17	mg/Kg wet	1.67		81.5	40-140	6.02	30	
Benzo(g,h,i)perylene	1.35	0.17	mg/Kg wet	1.67		81.3	40-140	2.29	30	
Benzo(k)fluoranthene	1.31	0.17	mg/Kg wet	1.67		78.7	40-140	1.80	30	
Chrysene	1.22	0.17	mg/Kg wet	1.67		73.1	40-140	1.66	30	
Dibenz(a,h)anthracene	1.32	0.17	mg/Kg wet	1.67		79.2	40-140	1.08	30	
Fluoranthene	1.17	0.17	mg/Kg wet	1.67		70.1	40-140	3.34	30	
Fluorene	1.32	0.17	mg/Kg wet	1.67		79.2	40-140	0.455	30	
Indeno(1,2,3-cd)pyrene	1.35	0.17	mg/Kg wet	1.67		80.9	40-140	2.22	30	
2-Methylnaphthalene	1.09	0.17	mg/Kg wet	1.67		65.2	40-140	1.55	30	
Naphthalene	1.22	0.17	mg/Kg wet	1.67		73.2	40-140	1.10	30	
Phenanthrene	1.28	0.17	mg/Kg wet	1.67		76.9	40-140	2.74	30	
Pyrene	1.29	0.17	mg/Kg wet	1.67		77.7	40-140	6.05	30	
Surrogate: Nitrobenzene-d5	2.83		mg/Kg wet	3.33		85.0	30-130			
Surrogate: 2-Fluorobiphenyl	2.61		mg/Kg wet	3.33		78.3	30-130			
Surrogate: p-Terphenyl-d14	2.81		mg/Kg wet	3.33		84.2	30-130			
Matrix Spike (B342520-MS1)	s	ource: 23F0343	-10	Prepared: 00	6/07/23 Analy	zed: 06/10	/23			
Acenaphthene	1.42	0.22	mg/Kg dry	2.11	ND	67.1	40-140			
Acenaphthylene	1.49	0.22	mg/Kg dry	2.11	ND	70.8	40-140			
Anthracene	1.48	0.22	mg/Kg dry	2.11	ND	70.3	40-140			
Benzo(a)anthracene	1.48	0.22	mg/Kg dry	2.11	ND	70.3	40-140			
Benzo(a)pyrene	1.40	0.22	mg/Kg dry	2.11	ND	66.2	40-140			
Benzo(b)fluoranthene	1.67	0.22	mg/Kg dry	2.11	ND	79.0	40-140			
Benzo(g,h,i)perylene	1.55	0.22	mg/Kg dry	2.11	ND	73.3	40-140			
Benzo(k)fluoranthene	1.63	0.22	mg/Kg dry	2.11	ND	77.2	40-140			
Chrysene	1.40	0.22	mg/Kg dry	2.11	ND	66.3	40-140			
Dibenz(a,h)anthracene	1.46	0.22	mg/Kg dry	2.11	ND	69.3	40-140			
Fluoranthene	1.48	0.22	mg/Kg dry	2.11	ND	69.9	40-140			
Fluorene	1.51	0.22	mg/Kg dry	2.11	ND	71.3	40-140			
Indeno(1,2,3-cd)pyrene	1.51	0.22	mg/Kg dry	2.11	ND	71.4	40-140			
2-Methylnaphthalene	1.29	0.22	mg/Kg dry	2.11	ND	60.9	40-140			
Naphthalene	1.34	0.22	mg/Kg dry	2.11	ND	63.6	40-140			
Phenanthrene	1.51	0.22	mg/Kg dry	2.11	ND	71.4	40-140			
Pyrene	1.56	0.22	mg/Kg dry	2.11	ND	74.0	40-140			
Surrogate: Nitrobenzene-d5	2.90		mg/Kg dry	4.22		68.6	30-130			
Surrogate: 2-Fluorobiphenyl	2.90		mg/Kg dry	4.22		68.7	30-130			
Surrogate: p-Terphenyl-d14	3.38		mg/Kg dry	4.22		80.1	30-130			



Semivolatile Organic Compounds by GC/MS - Quality Control

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B342520 - SW-846 3546										
Matrix Spike Dup (B342520-MSD1)	Sour	ce: 23F0343	-10	Prepared: 06	5/07/23 Analyz	zed: 06/10/2	23			
Acenaphthene	1.22	0.22	mg/Kg dry	2.11	ND	57.9	40-140	14.8	30	
Acenaphthylene	1.33	0.22	mg/Kg dry	2.11	ND	62.9	40-140	11.8	30	
Anthracene	1.30	0.22	mg/Kg dry	2.11	ND	61.7	40-140	13.1	30	
Benzo(a)anthracene	1.32	0.22	mg/Kg dry	2.11	ND	62.7	40-140	11.5	30	
Benzo(a)pyrene	1.28	0.22	mg/Kg dry	2.11	ND	60.8	40-140	8.41	30	
Benzo(b)fluoranthene	1.55	0.22	mg/Kg dry	2.11	ND	73.3	40-140	7.48	30	
Benzo(g,h,i)perylene	1.45	0.22	mg/Kg dry	2.11	ND	68.5	40-140	6.74	30	
Benzo(k)fluoranthene	1.49	0.22	mg/Kg dry	2.11	ND	70.7	40-140	8.68	30	
Chrysene	1.23	0.22	mg/Kg dry	2.11	ND	58.1	40-140	13.1	30	
Dibenz(a,h)anthracene	1.33	0.22	mg/Kg dry	2.11	ND	63.0	40-140	9.40	30	
Fluoranthene	1.30	0.22	mg/Kg dry	2.11	ND	61.4	40-140	12.9	30	
Fluorene	1.34	0.22	mg/Kg dry	2.11	ND	63.3	40-140	11.9	30	
Indeno(1,2,3-cd)pyrene	1.36	0.22	mg/Kg dry	2.11	ND	64.6	40-140	9.94	30	
2-Methylnaphthalene	1.17	0.22	mg/Kg dry	2.11	ND	55.3	40-140	9.71	30	
Naphthalene	1.25	0.22	mg/Kg dry	2.11	ND	59.2	40-140	7.20	30	
Phenanthrene	1.34	0.22	mg/Kg dry	2.11	ND	63.4	40-140	11.9	30	
Pyrene	1.49	0.22	mg/Kg dry	2.11	ND	70.4	40-140	4.93	30	
Surrogate: Nitrobenzene-d5	2.76		mg/Kg dry	4.22		65.3	30-130			
Surrogate: 2-Fluorobiphenyl	2.71		mg/Kg dry	4.22		64.1	30-130			
Surrogate: p-Terphenyl-d14	3.06		mg/Kg dry	4.22		72.4	30-130			

Batch B342790 - SW-846 3546

Blank (B342790-BLK1)			Р	repared: 06/09/23 Analyz	ed: 06/14/23	
Acenaphthene	ND	0.17	mg/Kg wet			
Acenaphthylene	ND	0.17	mg/Kg wet			
Anthracene	ND	0.17	mg/Kg wet			
Benzo(a)anthracene	ND	0.17	mg/Kg wet			
Benzo(a)pyrene	ND	0.17	mg/Kg wet			
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet			
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet			
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet			
Chrysene	ND	0.17	mg/Kg wet			
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet			
Fluoranthene	ND	0.17	mg/Kg wet			
Fluorene	ND	0.17	mg/Kg wet			
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet			
2-Methylnaphthalene	ND	0.17	mg/Kg wet			
Naphthalene	ND	0.17	mg/Kg wet			
Phenanthrene	ND	0.17	mg/Kg wet			
Pyrene	ND	0.17	mg/Kg wet			
Surrogate: Nitrobenzene-d5	2.80		mg/Kg wet	3.33	84.0	30-130
Surrogate: 2-Fluorobiphenyl	2.61		mg/Kg wet	3.33	78.2	30-130
Surrogate: p-Terphenyl-d14	2.78		mg/Kg wet	3.33	83.3	30-130



		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B342790 - SW-846 3546										
LCS (B342790-BS1)				Prepared: 06	5/09/23 Analy	zed: 06/14/2	23			
Acenaphthene	1.27	0.17	mg/Kg wet	1.67		76.3	40-140			
Acenaphthylene	1.37	0.17	mg/Kg wet	1.67		82.3	40-140			
Anthracene	1.26	0.17	mg/Kg wet	1.67		75.6	40-140			
Benzo(a)anthracene	1.22	0.17	mg/Kg wet	1.67		72.9	40-140			
Benzo(a)pyrene	1.18	0.17	mg/Kg wet	1.67		71.0	40-140			
Benzo(b)fluoranthene	1.34	0.17	mg/Kg wet	1.67		80.2	40-140			
Benzo(g,h,i)perylene	1.32	0.17	mg/Kg wet	1.67		79.3	40-140			
Benzo(k)fluoranthene	1.33	0.17	mg/Kg wet	1.67		80.1	40-140			
Chrysene	1.18	0.17	mg/Kg wet	1.67		71.0	40-140			
Dibenz(a,h)anthracene	1.30	0.17	mg/Kg wet	1.67		78.3	40-140			
Fluoranthene	1.18	0.17	mg/Kg wet	1.67		70.9	40-140			
Fluorene	1.36	0.17	mg/Kg wet	1.67		81.4	40-140			
Indeno(1,2,3-cd)pyrene	1.35	0.17	mg/Kg wet	1.67		80.9	40-140			
2-Methylnaphthalene	1.17	0.17	mg/Kg wet	1.67		70.3	40-140			
Naphthalene	1.26	0.17	mg/Kg wet	1.67		75.7	40-140			
Phenanthrene	1.26	0.17	mg/Kg wet	1.67		75.7	40-140			
Pyrene	1.24	0.17	mg/Kg wet	1.67		74.3	40-140			
Surrogate: Nitrobenzene-d5	2.84		mg/Kg wet	3.33		85.3	30-130			
Surrogate: 2-Fluorobiphenyl	2.90		mg/Kg wet	3.33		86.9	30-130			
Surrogate: p-Terphenyl-d14	2.78		mg/Kg wet	3.33		83.5	30-130			
LCS Dup (B342790-BSD1)				Prepared: 06	6/09/23 Analy	zed: 06/14/2	23			
Acenaphthene	1.26	0.17	mg/Kg wet	1.67		75.3	40-140	1.32	30	
Acenaphthylene	1.34	0.17	mg/Kg wet	1.67		80.2	40-140	2.56	30	
Anthracene	1.38	0.17	mg/Kg wet	1.67		82.6	40-140	8.80	30	
Benzo(a)anthracene	1.26	0.17	mg/Kg wet	1.67		75.4	40-140	3.29	30	
Benzo(a)pyrene	1.23	0.17	mg/Kg wet	1.67		73.8	40-140	3.81	30	
Benzo(b)fluoranthene	1.38	0.17	mg/Kg wet	1.67		83.1	40-140	3.60	30	
Benzo(g,h,i)perylene	1.38	0.17	mg/Kg wet	1.67		82.8	40-140	4.32	30	
Benzo(k)fluoranthene	1.38	0.17	mg/Kg wet	1.67		83.1	40-140	3.70	30	
Chrysene	1.23	0.17	mg/Kg wet	1.67		73.9	40-140	4.11	30	
Dibenz(a,h)anthracene	1.36	0.17	mg/Kg wet	1.67		81.9	40-140	4.55	30	
Fluoranthene	1.27	0.17	mg/Kg wet	1.67		76.1	40-140	7.02	30	
Fluorene	1.35	0.17	mg/Kg wet	1.67		80.9	40-140	0.591	30	
Indeno(1,2,3-cd)pyrene	1.35	0.17	mg/Kg wet	1.67		81.3	40-140	0.444	30	
2-Methylnaphthalene	1.21	0.17	mg/Kg wet	1.67		72.6	40-140	3.16	30	
Naphthalene	1.29	0.17	mg/Kg wet	1.67		77.6	40-140	2.45	30	
Phenanthrene	1.34	0.17	mg/Kg wet	1.67		80.2	40-140	5.88	30	
Pyrene	1.23	0.17	mg/Kg wet	1.67		74.0	40-140	0.351	30	
Surrogate: Nitrobenzene-d5	2.87		mg/Kg wet	3.33		86.1	30-130			
Surrogate: 2-Fluorobiphenyl	2.83		mg/Kg wet	3.33		85.0	30-130			
Surrogate: p-Terphenyl-d14	2.80		mg/Kg wet	3.33		84.0	30-130			



FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
Ť	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
MS-22	Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit
V-05	Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332 CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications	
SW-846 8270E in Soil		
Acenaphthene	CT,NY,NH,ME,NC,VA	
Acenaphthylene	CT,NY,NH,ME,NC,VA	
Anthracene	CT,NY,NH,ME,NC,VA	
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA	
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA	
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA	
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA	
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA	
Chrysene	CT,NY,NH,ME,NC,VA	
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA	
Fluoranthene	CT,NY,NH,ME,NC,VA	
Fluorene	CT,NY,NH,ME,NC,VA	
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA	
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA	
Naphthalene	CT,NY,NH,ME,NC,VA	
Phenanthrene	CT,NY,NH,ME,NC,VA	
Pyrene	CT,NY,NH,ME,NC,VA	
SW-846 8270E in Water		
Acenaphthene	CT,NY,NH,ME,NC,VA	
Acenaphthylene	CT,NY,NH,ME,NC,VA	
Anthracene	CT,NY,NH,ME,NC,VA	
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA	
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA	
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA	
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA	
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA	
Chrysene	CT,NY,NH,ME,NC,VA	
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA	
Fluoranthene	CT,NY,NH,ME,NC,VA	
Fluorene	CT,NY,NH,ME,NC,VA	
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA	
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA	
Naphthalene	CT,NY,NH,ME,NC,VA	
Phenanthrene	CT,NY,NH,ME,NC,VA	
Pyrene	CT,NY,NH,ME,NC,VA	

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
СТ	Connecticut Department of Public Health	PH-0821	12/31/2024
NY	New York State Department of Health	10899 NELAP	04/1/2024
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2024
NC	North Carolina Div. of Water Quality	652	12/31/2023
ME	State of Maine	MA00100	06/9/2025
VA	Commonwealth of Virginia	460217	12/14/2023

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	Pageof		# of Containers	Preservation Lode									¹ <u>Matrìx Codes</u> :	GW = Ground Water V/W = Waste Water	A = Air	S = 5oil SL = 5ludge	SOL = Solid 0 = Other (niezes	define)		² Preservation Codes:	H = HCL	N = Nitric Acid	B = Sodium Bisulfate	X = Sodium Hydroxide T = Sodium	Thiosulfate 0 = Other (please	define)	³ Container Codes:	A = Amber Glass G = Glass	P = Plastic	v = vici lic	S = Summa Canister T = Tedlar Bag	0 = Other (please define)		PCB ONLY	Non Soxhiet	
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Phone: 612-607-6400 Fax: 612-607-6344

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	Fax: 612-607-6344	CHAIN OF CUSTODY R	FCORD (New York)		1800 Elm Street SE	ſ
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Temp X<6° C Actual Temperature 3.2, 2.0, 2.2, 3.6
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Appendix D

Data Validation Report



DATA VALIDATION REPORT

NYSDEC Saranac Lake Gas Company

SDG: 23F0343

Chemical Analyses Performed by:

Con-Test Pace Analytical Laboratory

Prepared by

ENVIRONMENTAL DATA SERVICES, LTD.

Prepared for

EA Engineering, Science and Technology, Inc.

September 26, 2023

5 Brilliant Avenue, Pittsburgh, PA 15215 412.408.3288 I www.eds-pa.com



DATA USABILITY SUMMARY REPORT FOR 8270

PROJECT: NYSDEC Saranac Lake Gas Company

CLIENT: EA Engineering, Science, and Technology, Inc.

LABORATORY: Con-Test, A Pace Analytical Laboratory

SAMPLE DELIVERY GROUPS: 23F0343

SAMPLE DATES: 05/30/2023, 05/31/2023

The above sample delivery group (SDG) consist of the following samples:

Client Sample ID	Laboratory Sample ID
516008-MW-204S	23F0343-01
516008-MW-106R	23F0343-02
516008-MW-204D	23F0343-03
516008-MW-205S	23F0343-04
516008-MW-104	23F0343-05
516008-MW-205D	23F0343-06
516008-MW-108R	23F0343-07
516008-MW-110R	23F0343-08
516008-SW-400	23F0343-09
516008-SD-400	23F0343-10
516008-SW-401	23F0343-11
516008-SD-401	23F0343-12
516008-SW-402	23F0343-13
516008-SD-402	23F0343-14
516008-SW-403	23F0343-15
516008-FD-GW	23F0343-16
516008-FD-SW	23F0343-17
516008-FD-SD	23F0343-18

The samples described above were analyzed via USEPA SW-846 8270 to determine the concentrations of Polycyclic Aromatic Hydrocarbons (PAHs).

Project specific quality assurance (QA) objectives, as well as the USEPA Region II SOP, Validating Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846 Method 8270D, HW-22 Revision 5, December 2010, have been considered during validation of this data and its usability.

Table 1 provides a summary of major and minor data quality issues identified for this data set. All data are acceptable except those results which have been qualified with "R," rejected. Data validation qualifiers along with associated descriptions are provided in Table 2. All data qualification related to this group of samples is detailed on the attached sheets.

Per USEPA Region 2 Validation Guidance, "All data users should note two facts. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables even as a last resort. The second, no analyte concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error."
1. HOLDING TIME/SAMPLE HANDLING

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the specified holding time is exceeded, the data may not be valid. Proper sample handling and preservation also play a role in the chemical stability of analytes in the sample matrix. If samples are not collected and stored using proper containers and/or preservatives, data may not be valid.

The samples in this delivery group were received by the laboratory within the proper temperature range as specified in the validation guidance.

The samples in this delivery group were prepared and analyzed within the holding time specified in the validation guidelines.

2. BLANK CONTAMINATION

Quality assurance blanks include method, storage, trip, field, or rinse blanks. Blanks are prepared to identify any contamination, which may have been introduced into the samples during laboratory preparation and analysis or field activity. Method and storage blanks measure laboratory contamination. Trip blanks measure cross contamination during shipment. Field and rinse blanks measure cross contaminations.

Method Blanks

No problems were found for this criterion.

Field Blanks

No field blanks were submitted in association with this SDG.

3. MASS SPECTROMETER TUNING

Tuning and performance criteria are established to ensure adequate mass resolution, proper identification of compounds, and to some degree, sufficient instrument sensitivity. These criteria are not sample specific. Instrument performance is determined using standard materials. Therefore, these criteria should be met in all circumstances.

The tuning standard for semivolatiles is decafluorotriphenylphosphine (DFTPP).

All instrument tunes were fully compliant.

4. CALIBRATION

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative results. The initial calibration curve demonstrates that the instrument is capable of giving acceptable performance at the beginning of an analytical sequence. The continuing calibration verifies that the instrument is continuing to provide satisfactory daily performance. Additionally, a continuing calibration is analyzed at the end of each 12-hour analytical sequence, denoted as a "closing" calibration verification and ascertains acceptable performance at the conclusion of the analytical sequence.

Response Factor

The relative response factor (RRF) measures the instrument's responses to specific chemical compounds. The response factors for the base neutral acid (BNA) target compound list (TCL) analytes must be ≥ 0.05 in both the initial and continuing calibrations. A value less than the respective criteria indicates serious detection and quantitation problems. If the mean RRF of the initial calibration or the continuing calibration RRF is <0.05 for any analyte, those analytes detected in environmental samples will be qualified as estimated. All non-detects for those analytes will be rejected.

The RRF values in all initial and continuing calibration verifications (CCV) were found to be acceptable in all cases.

Note: No closing continuing calibration was performed.

Percent Relative Standard Deviation and Percent Deviation

Percent relative standard deviation (%RSD) is calculated from the initial calibration and is used to indicate stability of a specific compound over the calibration range. Percent deviation (%D) compares the response factor of the continuing calibration with the mean response factor of the initial calibration. Therefore, %D is a measure of the instrument's daily performance.

The following QC criteria have been applied for this project:

The %RSD of initial calibration must be <20%.

An RSD value outside the initial calibration limit indicates the potential for quantitation errors. For this reason, all positive and non-detected results are qualified as estimated. Severe performance failures (RSD >90%) requires rejection of non-detected results.

The %D for continuing calibration must be <20%.

A value outside these limits indicates the potential for detection and quantitation errors. For these reasons, all positive results are qualified as estimated "J," and non-detects are qualified with "UJ."

All initial calibration and continuing calibration %RSD and %D values were within defined quality control criteria with the following exceptions.

The observed %D for benzo(g,h,i)perylene, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene were outside acceptance limits in the CCV associated with the samples listed below. The impacted analytes in the associated samples were all non-detect and have been gualified "UJ" on this basis.

516008-MW-110R	516008-SW-401	516008-SW-403	516008-FD-SW
516008-SW-400	516008-SW-402	516008-FD-GW	

Note: No closing continuing calibration was performed.

5. INTERNAL STANDARDS PERFORMANCE

Internal standard performance criteria are meant to ensure that the gas chromatograph/mass spectrometer (GC/MS) sensitivity and response are stable during every experimental run.

The internal standard area count must not vary by more than a factor of two from the associated continuing calibration standard. The retention time of the internal standard must not vary by more

than +/-30 seconds from the associated continuing calibration standard. The area count must be within -50% to 200% range of the associated standard. If area count is >200%, non-detected results are not qualified while positive results are qualified "J," estimated. When an observed area count is <50%, results are qualified "J" or "UJ" as appropriate; however, should area counts be <25%, all associated non-detects are qualified "R," rejected.

The reported sample analyses and associated method blank had internal standard areas and retention times within QC criteria in all cases.

6. SURROGATES

All samples are spiked with surrogate compounds prior to sample preparation and analyses to evaluate overall laboratory performance and efficiency of the analytical technique.

The reported sample analyses and method blank had observed surrogate recoveries within the limits established by the laboratory in all cases.

7. COMPOUND IDENTIFICATION

Semivolatile

The project target analyte compounds are identified on the GC/MS by using the analytes relative retention time (RRT) and ion spectra. For the results to be a positive hit, the sample peak must be within ± 0.06 RRT units of the standard compound and have ion spectra which has a ratio of the primary and secondary ion intensities within 20% of that in the standard compound. In the cases where there is not an adequate ion spectrum match, the laboratory may have provided false positive identifications.

All identification criteria were met. Therefore, no analytes were qualified for compound identification.

8. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

The matrix spike and matrix spike duplicate (MS/MSD) are generated to determine the precision and accuracy of the analytical procedure in a given sample matrix.

Sample 516008-SD-400 was submitted for MS/MSD evaluation in association with this SDG. Upon evaluation al precision and accuracy indicators were favorable.

Sample 516008-MW-204D was submitted for MS/MSD evaluation in association with this SDG. Upon evaluation al precision and accuracy indicators were favorable.

Sample 516008-SW-402 was submitted for MS/MSD evaluation in association with this SDG. Upon evaluation al precision and accuracy indicators were favorable or did not require qualification of sample results.

9. LABORATORY CONTROL SAMPLE

The Laboratory Control Sample (LCS) is spiked with the same analytes at the same concentrations as the matrix spike. The LCS results are used to verify that the laboratory can perform the analysis in a clean matrix.

No problems were found for this criterion.

10. REPORTING

No dilutions, re-extractions, or other re-analyses were performed other than those required to bring target analytes within calibration range.

11. OTHER QUALITY CONTROL DATA OUT OF SPECIFICATION

No problems were found for this criterion.

12. FIELD DUPLICATE

Field duplicates are two (or more) field samples collected at the same time in the same location. Each of the samples represents the same population and is carried through all steps of the sampling and analytical procedures in an identical manner. Field duplicate results are used to assess precision of the total method, including sampling, analysis, and site heterogeneity.

Samples 516008-MW-108R and 516008-FD-GW were analyzed as a field duplicate pair in association with this SDG. Adequate field precision was demonstrated.

Samples 516008-SW-401 and 516008-FD-SW were analyzed as a field duplicate pair in association with this SDG. Adequate field precision was demonstrated.

Samples 516008-SD-401 and 516008-FD-SD were analyzed as a field duplicate pair in association with this SDG. Adequate field precision was demonstrated.

13. SYSTEM PERFORMANCE AND OVERALL ASSESSMENT

Overall, the laboratory data generated met the project goals and quality control criteria, with the exceptions identified in this report and as summarized in Table 1.

Table 1 **Review Elements Summary**

	Were acceptance criteria met?		
		No	
1,4-Dioxane		Major	Minor
Holding Time/Sample Handling	х		
Method Blanks			
Field Blanks	NA		
Mass Spectrometer Tuning	х		
Calibration Response Factor	х		
Calibration Percent Relative Standard Deviation and Percent Difference			х
Internal Standards Performance			
Surrogates			
Compound Identification - Semivolatile			
Tentatively Identified Compounds - Semivolatile			
Matrix Spike/Matrix Spike Duplicate			
Laboratory Control Sample			
Other Quality Control Data out of Linear Range			
Field Duplicate			

Major= Major data quality issue identified resulting in rejection of data. Minor= Minor data quality issue identified resulting in the qualification of data. Data qualification should be used to inform the data users of data limitations. NA = Not applicable

Table 2Data Validation Qualifiers

Data Qualifier	Definition
U	The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
NJ	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
UJ	The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
UJ-	The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise, and the result may be biased low.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample.

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