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2022 First Semiannual Groundwater/Surface Water Quality Monitoring Report

Mineral Springs Road Former MGP Site (NYSDEC #V00195) West Seneca, New York

Submitted to:

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1. INTRODUCTION

This report presents a summary of groundwater and surface water quality monitoring results for the 2022 first semiannual monitoring event at the National Fuel Gas Mineral Springs facility at 365 Mineral Springs Road in West Seneca, New York (Site). The site is a former manufactured gas plant (MGP) and implements ongoing operations and maintenance which includes groundwater and surface water quality monitoring. The 2021 second semiannual monitoring report was transmitted to the Department on October 5, 2021.

1.1 Background

The Site is currently an active National Fuel Gas service center consisting of approximately 81 acres and includes seven active buildings, numerous parking areas, pipeline equipment and staging areas, and undeveloped areas. The site location and site layout are shown in Figures 1 and 2, respectively.

National Fuel completed remedial construction which included source removal and containment in 2001 under a Voluntary Cleanup Agreement (VCA) No. B9-0538-98-08 between National Fuel and the New York State Department of Environmental Conservation (NYSDEC). Remedial and engineering control features include perimeter fencing, six asphalt caps, a clay cap, an HDPE cap, and a capped drainage feature consisting of both clay and HDPE caps. National Fuel performs operations and maintenance (O&M) activities for the remedy in accordance with the Final Engineering Report, Volume II – Operations and Maintenance (O&M) Plan, dated May 2002 (O&M Plan). The O&M Plan specifies groundwater and surface water quality monitoring conducted on a semiannual basis. An assessment of institutional and engineering controls is summarized each year in a Site Management Periodic Review Report (PRR). The most recent PRR was submitted to the NYSDEC on October 29, 2022.

1.2 Site Conditions

The Site is relatively flat lying. An unnamed surface water drainage feature, classified as a Class D stream, is situated along the southern site boundary and flows in a westward direction. The stratigraphy of the site in order of occurrence is:

- soil fill (4 to 8 feet in thickness)
- approximately 10 feet of a laterally extensive clay (referred to as the upper confining clay layer {UCL})

- silt, sand, and gravel
- a lower confining clay layer (LCL), and bedrock.

Overburden groundwater is typically encountered 5 to 12 feet below ground surface and fluctuates approximately 2 feet seasonally. Overburden groundwater flow is generally to the north and northwest toward Mineral Springs Road, Calais Street, and the Buffalo River. Average overburden groundwater velocity across the site was calculated to be approximately 0.06 feet per day (22 feet per year).

2. MONITORING NETWORK AND SAMPLING METHODS

Groundwater monitoring well and surface water sampling locations are shown on Figure 2. The groundwater monitoring wells were installed during and following completion of remedial construction and are screened to monitor groundwater flowing in the lower UCL and the silt, sand, and gravel layer. The O&M Plan specifies groundwater sample collection and analysis from 13 on-site and off-site monitoring wells. In addition, the determination for accumulated DNAPL in Recovery Well #1 (RTW-1) and purging of accumulated liquid, if present, is included in the groundwater monitoring program. Consistent with the O&M Plan, groundwater samples were collected using low-flow sampling methods with peristaltic pumps.

Surface water sample locations identified in the O&M Plan include SW-01 and SW-02 situated upstream and downstream of the facility. On July 7, 2020, a staff gauge was installed at SW-02 to facilitate the collection of surface water elevation data at the upstream sampling location. Survey reference data is included in Table 1.

Groundwater and surface water samples for the 2022 first semiannual monitoring event were collected on April 19 and 20, 2022 by a GEI sampling team. Monitoring was consistent with sampling procedures described in the O&M Plan. Table 1 summarizes sampling location, sample analysis, and Quality Control sample analysis, and current reference elevations. A synoptic round of water levels was measured in monitoring wells on April 19, 2022, and water levels were recorded prior to purging and sampling. Groundwater elevations are summarized in Table 2. Groundwater elevations were generally between one and two feet higher during the April 2022 sampling event when compared to the 2021 summer sampling event and most groundwater elevations were similar this event when compared to the spring event monitored in 2021. The surface water elevation in the stream was higher this event. The surface water elevation at staff gauge location SW-2 was 1.37 feet higher when compared to the downstream SW-1 location. Surface water elevations are influenced seasonally by precipitation events and groundwater elevations adjacent to the stream. April 2021 surface water elevations are comparable to historic measurements made during Spring monitoring events.

Field measured parameters were taken periodically during purging and include temperature, pH, Oxidation-Reduction Potential (ORP), electrical conductance, and turbidity. A summary of final field measured parameters is included in Table 3. All samples were placed in coolers and iced during same day transport under chain-of-custody to the analytical laboratory (Eurofins Test America) located in Amherst, New York. Final laboratory analytical data

reports were made available to GEI on May 13, 2022, and subsequently evaluated for data usability.

3. LABORATORY METHODS AND QUALITY CONTROL

3.1 Laboratory Methods

Samples were analyzed for BTEX volatile organic compounds (VOCs) by SW-846 method 8260C, polycyclic aromatic hydrocarbon (PAH) semi-volatile organic compounds (SVOCs) by SW-846 Method 8270D, total cyanide by SW-846 Method 9012B, and free cyanide by SW-846 Method 9016. Surface water samples and groundwater well MW-11A were analyzed for suspended solids (TSS) by Standard Methods to assess the influence of particulates on cyanide detections. Except for free cyanide, water samples were analyzed by Eurofins Test America Laboratories, Inc. (Eurofins) of Amherst, New York. Free cyanide analyses were performed by Eurofins Test America of Edison, New Jersey. Each laboratory maintains NYSDOH ELAP certifications.

3.2 Laboratory Quality Control

The laboratory data package (Level 2) is included in Appendix A. A Level 4 data package was also provided and was reviewed during GEI data validation and preparation of the data usability report (DUSR). Overall quality assurance and quality control (QA/QC) measures were taken to ensure the reliability of the data generated during the sampling event. These measures include the submittal of trip blanks and the collection of a blind duplicate sample. Equipment blanks were not required since dedicated sampling equipment was used.

The specific methodologies employed in obtaining the analytical results refer to the following USEPA references.

- "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods" (SW-846),
 Third Edition, September 1994, USEPA Office of Solid Waste.
- 40CFR Part 136 "Guidelines Establishing Test Procedures for the Analysis of Pollutants Under the Clean Water Act", October 26, 1984 USEPA.

The data validation was performed on the Level 4 data package based on the Standard Operating Procedure (SOP) HW-33 (Revision 3) Low/Medium Volatile Data Validation (March 2013), SOP HW-35 (Revision 2) Semivolatile Data Validation (March 2013), and SOP 2c (Revision 15), SOP for the Evaluation of Cyanide for the Contract Laboratory Program (December 2012), modified for the SW-846 methodologies utilized.

The data were evaluated based on the following parameters:

- Data Completeness
- Holding Times and Sample Preservation
- Initial and Continuing Calibrations
- Blanks
- Surrogate Recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results
- Laboratory Duplicate Results
- Internal Standard Results
- Laboratory Control Sample (LCS) Results
- Field Duplicate Results
- Quantitation Limits and Data Assessment
- Sample Quantitation and Compound Identification

Blind duplicate samples were collected at sampling location well MW-23 and submitted for analyses with the sample delivery group to assess laboratory precision. Laboratory accuracy was assessed through analysis of surrogate spike recoveries.

A data usability review is provided in Appendix B. The non-detect results for free cyanide in samples MW-13 and MW-17 were rejected (R) due to hold time exceedances. However, the reported results were similar to historic results. Validation action was taken to estimate (UJ), rather than reject (R), non-detect results for free cyanide in several other samples as the laboratory had initial results (associated with low level method blank contamination) which confirmed these out of hold time results. Other data appear usable as reported or usable with minor qualification due to sample matrix or laboratory quality control outliers. No deviations from analytic protocol that affected the acceptability of the results were reported by the laboratories.

4. EVALUATION OF MONITORING RESULTS

The groundwater analytical results for the April 2022 sampling event are summarized in Tables 4A and 4B. Surface water sample results are summarized in Table 5. Groundwater sampling logs are included as Appendix C. Results for the monitoring event are compared to the NYSDEC Technical Operational and Guidance Series (TOGS) 1.1.1, Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations (June 1998) (herein referred to as groundwater standards or water quality comparison criteria). Sampling results are discussed below.

4.1 Groundwater Elevations and Flow

A potentiometric surface map of groundwater elevations for the upper water-bearing zone at the site is provided on Figure 3. The groundwater flow direction occurs predominantly to the north and northwest. The surface water elevation in the Class D stream at SW-02 was higher than the head in nearby well MW-11A (584.17 FASL and 583.08 FASL, respectively) indicating "losing stream conditions" where surface water is recharging groundwater infiltrating at the base grade of the stream at this location. The surface water elevation in the stream at SW-01 was slightly higher than nearby well MW-16 (582.80 FASL and 582.58 FASL, respectively) also indicating "losing stream conditions" at this location.

4.2 Constituents Detected in Groundwater

Monitoring well locations provide groundwater quality data for on-site areas near former MGP residual remediation areas and near the site perimeter at both on-site and off-site monitoring locations. Groundwater quality in each of these areas is described below.

On-Site Areas

A summary of groundwater analytical data for "On-Site" areas is provided in Table 4A. Monitoring wells MW-07, MW-10, MW-11A, and MW-19 assess on-site groundwater quality downgradient of subsurface soils impacted with hydrocarbon MGP residuals. Benzene, toluene, ethylbenzene, and xylenes (BTEX) compounds were not detected at MW-10. BTEX compounds were detected above the NYSDEC Groundwater Standards in MW-07, MW-11A and MW-19. BTEX compound detections were similar to historical concentrations in each of these wells.

PAH compounds were detected in well MW-07 (naphthalene and acenaphthene) and well MW-19 (naphthalene) at concentrations above water quality comparison criteria. Well MW-11A includes analysis for total and free cyanide, plus analysis for TSS in support of the

assessment of past cyanide detections in surface water. Total cyanide was detected at 228 $\mu g/L$ which is above the NYS groundwater standard of 200 $\mu g/L$ but within the range of the last nine monitoring events. Free cyanide was detected at a concentration of 6 $\mu g/L$. The TSS concentration in well MW-11A was 26.4 mg/L indicating a low number of suspended solids in the sample.

Monitoring wells MW-12 and MW-16 assess on-site groundwater quality at locations of capped areas with known subsurface deposits of MGP purifier box residuals. Groundwater samples from these two wells were analyzed for total and free cyanide. Total cyanide concentrations were 1060 μ g/L at MW-12 and 4940 μ g/L at MW-16; each is above water quality comparison criteria. The concentration detected during this event at MW-12 (1060 μ g/L) was higher than historic five-year average, but well within the historic range of concentrations detected in the well and similar to the August 2021 sampling result of 1070 μ g/L. The concentration at MW-16 was lower than the prior sampling event but the concentration remains elevated. The monitoring well is screened in the saturated zone containing MGP residual materials below an engineered clay capped area. Free cyanide concentrations were 8.9 μ g/L at MW-12 and 46.4 J μ g/L at MW-16 (a NYSDEC Groundwater Standard for free cyanide does not exist). Concentrations of free cyanide in both wells were within the range of prior detections. An assessment of the data trends will be presented and discussed in the 2022 Periodic Review Report (PRR).

Site Perimeter

A summary of groundwater analytical data for "Site perimeter" areas is provided in Table 4B. Monitoring well MW-17 assesses upgradient groundwater quality and wells MW-13, MW-14, MW-20, MW-21, MW-22, and MW-23 monitor downgradient water quality with MW-20 and MW-21 monitoring cyanide concentrations at off-site locations. VOCs were not detected at any site perimeter area sampling locations. Of the wells tested, only location MW-23 exhibited a trace detection of PAHs. Benzo(b)fluoranthene (0.31 J mg/L) was detected in MW-23, while chrysene (0.36 J mg/L) was detected in the duplicate sample taken from MW-23; both were detected above Class GA Groundwater Standards.

Total cyanide was detected at a concentration of 73.9 μ g/L in upgradient well MW-17 and is considered representative of background. Total cyanide was detected in downgradient wells MW-14, MW-20, MW-21 and MW-22 at concentrations above water quality comparison criteria (200 μ g/L) at concentrations ranging from 343 μ g/L to 754 μ g/L. The total cyanide concentration detected in each of these wells was within the range of historic concentrations and no increasing trends are noted.

Free cyanide was detected in perimeter monitoring wells MW-14, MW-20, MW-21 MW-22 and MW-23. Concentrations ranged from 3.4 J μ g/L to 9.1 J μ g/L and were flagged as laboratory estimated concentrations during the data validation process due to each sample

being analyzed outside of the specified holding time by the laboratory. An assessment of the data trends will be discussed in the 2022 Periodic Review Report (PRR).

4.3 Constituents Detected in Surface Water

Two surface water samples (SW-01 and SW-02) were collected from the unnamed NYSDEC Class D Stream flowing along the south side of the site; analytical results are provided on Table 5. These surface water sampling locations monitor the effectiveness of the containment engineering controls of the Eastern Drainage Ditch Cap and monitor the concentrations of constituents of concern in surface water downstream of the Site. The collected samples were analyzed for BTEX and PAH compounds, as well as total and free cyanide. Samples were also collected at each surface water sampling location and analyzed for total suspended solids (TSS) to evaluate a potential correlation between suspended solids (TSS) and total/free cyanide results.

BTEX compounds were not detected in surface water samples. One PAH compound, naphthalene, was detected at upstream surface water location SW-02 at a concentration of 0.84 μ g/L, well below the Class D Stream Standard of 110 μ g/L. Total cyanide was detected at a concentration of 29.1 J μ g/L at downstream location SW-01 and was not detected in the upstream sample. Free cyanide was detected at location SW-01 at a laboratory estimated concentration of 3 J μ g/L and was not detected in the upstream sample. The detected concentrations are within the range of historic detected concentrations.

Total Suspended Solids were not detected in either the upstream or downstream sample at a laboratory detection limit of 1.6 mg/L.

4.4 DNAPL Recovery Test Well

On April 19, 2022, the Recovery System at RTW-1 was gauged using a threaded steel rod to assess whether DNAPL had accumulated since the August 2021 sampling event. No visual staining was observed on the rod bottom. Rigid tubing was lowered to the base of the well and pumped using peristaltic methods. Approximately two liters of water were evacuated. The water contained only trace DNAPL in the form of "blebs", visually estimated to be less than 1% of total volume. Based on the testing performed, passive DNAPL accumulation was not identified during the April 2022 monitoring event.

5. SUMMARY

A summary of April 2022 field testing and water quality monitoring in on-site remediated areas, perimeter areas and on-site surface water is provided below:

Groundwater:

 Groundwater elevations were generally between one and two feet higher during the April 2022 sampling event when compared to the 2021 summer sampling event and most groundwater elevations were similar this event when compared to the spring event monitored in 2021. Groundwater flow directions remained in a north and northwest direction.

On-Site Areas:

- BTEX compounds were detected above the regulatory comparison criteria at wells MW-07, MW-11A and MW-19. BTEX compound detections were consistent with historical levels.
- Low concentrations of PAHs were detected in MW-7 and MW-19 but above water quality comparison criteria. The detected concentrations were consistent with historical analytical data.
- Total cyanide concentrations at wells MW-12 and MW-16 were above water quality comparison criteria. The total cyanide concentration at MW-12 was slightly lower than the previous event and remains lower than levels in 2017 and early 2000s. Total cyanide concentrations exhibit some seasonal variability, and no significant concentration trend is identified over the past eight sampling events. At MW-16, the total cyanide concentration was lower than the previous sampling event and continues a reversal of the prior upward concentration trend. Free cyanide concentrations at each location were within the range of historic concentrations. As identified in surface water sampling results for the downstream sample location SW-1, the total and free cyanide concentrations at MW-16 do not appear to be significantly affecting surface water quality in the stream (see Section 4.3).

Perimeter Areas:

• A trace concentration of one VOC (total xylene) was detected at MW-23. No other BTEX compounds were detected in the upgradient well or perimeter wells tested. A

PAH compound (benzo(b)fluoranthene) was detected above groundwater quality standards at downgradient monitoring location MW-23.

- Total cyanide was detected at upgradient well MW-17 indicating the constituent is present in background groundwater (73.9 µg/L). The free cyanide data at this location was rejected during data validation due to analysis outside of hold time by the laboratory but the reported value is consistent with historic results.
- Total cyanide was detected in downgradient wells MW-14, MW-20, MW-21 and MW-22 at concentrations above water quality comparison criteria (200 μg/L) at concentrations ranging from 343 μg/L to 754 μg/L. The total cyanide concentration detected in each of these wells was within the range of historic concentrations and no increasing trends are noted.
- Free cyanide was detected in perimeter monitoring wells MW-14, MW-20, MW-21 MW-22 and MW-23. Concentrations ranged from 3.4 J μg/L to 9.1 J μg/L and were flagged as laboratory estimated concentrations during the data validation process due to each sample being analyzed outside of the specified holding time by the laboratory. Detected concentrations were consistent with historic results.

Surface Water:

- The surface water elevation of the Class D stream was low indicating "losing stream conditions" in April 2022.
- BTEX compounds were not detected in surface water samples. One PAH compound, naphthalene, was detected at upstream surface water location SW-02 at a concentration of 0.84 µg/L, well below the Class D Stream Standard of 110 µg/L.
- Total cyanide was detected at a concentration of 29.1 J μg/L at downstream location SW-01 and was not detected in the upstream sample. The result was consistent with historic detections.
- Total Suspended Solids were not detected in either the upstream or downstream sample at a laboratory detection limit of 1.6 mg/L.
- Free cyanide was detected at location SW-01 at a laboratory estimated concentration of 3 J μg/L and was not detected in the upstream sample. The result was consistent with historic detections.
- Testing results for this event indicate site groundwater has no significant impact on surface water quality.

DNAPL accumulation was not identified in RTW-1 during the April 2022 monitoring event.

A discussion of historical concentration trends and overall groundwater and surface water quality will be included in the 2022 PRR with August 2022 sampling data and time-series concentration plots of detected constituents. No immediate response actions appear to be warranted.

Tables

Table 1. 2022 First Semiannual Monitoring Water Sampling Summary Mineral Springs Road MGP Site National Fuel Gas Distribution Corporation West Seneca, New York

Location	Cyanide, Total USEPA	Cyanide, Free USEPA	BTEX USEPA	PAHs USEPA	TSS	Specific Conductivity Field	Water Elevation	Benchmark Elevation
	SW846 9014	SW846 9016	SW846 8260C	SW846 8270D	SM2540D	Measurement		(ft. MSL, top of PVC casing)
Upgradient S	ite Perimete	r						
MW-17	Х	Х	Х	Х		х	Х	587.28
Downgradien	t Site Perim	eter						
MW-13	Х	Х	Х	Х		х	Х	591.85
MW-14	Х	Х				х	Х	589.53
MW-15							Х	590.93
MW-20	Х	Х				х	Х	587.06
MW-21	Х	Х				х	Х	587.84
MW-22	Х	Х				х	Х	592.50
MW-23	Х	Х	Х	Х		Х	Х	589.28
Onsite Purific	er Residuals	Impacted Ar	eas					
MW-12	Х	Х				Х	Х	591.40
MW-16	Х	Х				Х	Х	588.99
Onsite Hydro	carbon Impa	acted Areas						
MW-07	-		Х	Х		Х	Х	587.01
MW-10			Х	Х		Х	Х	587.61
MW-11A	Х	Х	Х	Х	Х	Х	Х	589.78
MW-19			Х	Х		Х	Х	589.83
Onsite Surfac	ce Water							
SW-01	Х	Х	Х	Х	Х	Х	Х	top of headwall = 587.0
SW-02	Х	Х	Х	Х	Х	Х	X ²	S G-2 "0" - 581.67
SW-03 ^{2,3}	X ²	X ²			x ²	x ²		
SW-04 ^{2,3}	x ²	x ²			x ²	x ²		
SW-05 ^{2,3}	X ²	X ²			x ²	x ²		
QA/QC Samp	les (frequen	су)						
Trip Blank			Х					(one per shipment)
Field Duplicate	Х	Х	Х	Х				(one per event)
Equipment Blank	Х	Х	Х	Х				(one per event)
DNAPL Reco	very							
RTW-1				No S	ample Collection		accı	(purge well of ımulated DNAPL)
Total	17	17	12	11	12	18	16	
Container, Preservative	250 mL plastic, NaOH	250 mL plastic amber, NaOH	40 mL VOA vial, HCl (x3)	250 mL glass amber, NP (x2)	500 mL plastic, unpreserved			

Notes:

- 1. Elevations are from the 2007 survey, except for MW-20, which was resurveyed in August 2009 due to a repair.
- 2. Supplemental sampling at this location was conducted in August 2017, April 2018, August 2018, April 2019 and August 2019.
- 3. Supplemental sampling at this location discontinued in 2020 and thereafter.

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Table 2. Groundwater and Surface Water Elevations Mineral Springs Road MGP Site National Fuel Gas Distribution Corporation West Seneca, New York

Well ID	TOR Elevation ⁽¹⁾	Iall ID		April 17, 2018 (FIRST SEMIANNUAL 2018)		August 15, 2018 (SECOND SEMIANNUAL 2018)		April 17, 2019 (FIRST SEMIANNUAL 2019)		August 20, 2019 (SECOND SEMIANNUAL 2019)		April 15, 2020 (FIRST SEMIANNUAL 2020)	
	Elevation	Depth	Elevation	Depth	Elevation	Depth	Elevation	Depth	Elevation	Depth	Elevation		
MW-07	587.01	4.80	582.21	7.15	579.86	4.48	582.53	6.12	580.89	4.53	582.48		
MW-10	587.61	6.40	581.21	7.64	579.97	6.28	581.33	7.09	580.52	5.61	582.00		
MW-11A	589.78	8.15	581.63	9.02	580.76	6.43	583.35	7.67	582.11	6.80	582.98		
MW-12	591.40	10.06	581.34	11.65	579.75	11.63	579.77	10.80	580.60	9.50	581.90		
MW-13	591.85	10.56	581.29	13.54	578.31	11.40	580.45	13.20	578.65	11.52	580.33		
MW-14	589.53	10.70	578.83	11.93	577.60	10.48	579.05	11.77	577.76	10.47	579.06		
MW-15	590.93	10.40	580.53	11.60	579.33	9.37	581.56	10.79	580.14	9.60	581.33		
MW-16	588.99	8.70	580.29	9.65	579.34	5.80	583.19	7.05	581.94	6.06	582.93		
MW-17	587.28	3.98	583.30	6.69	580.59	3.98	583.30	5.28	582.00	4.40	582.88		
MW-19	589.83	7.58	582.25	9.80	580.03	7.73	582.10	8.94	580.89	7.70	582.13		
MW-20	587.06	6.38	580.68	10.16	576.90	7.14	579.92	9.70	577.36	7.23	579.83		
MW-21	587.84	8.42	579.42	11.06	576.78	9.27	578.57	10.85	576.99	9.54	578.30		
MW-22	592.50	10.41	582.09	12.95	579.55	11.42	581.08	12.24	580.26	10.84	581.66		
MW-23	589.28	10.22	579.06	11.53	577.75	10.18	579.10	11.22	578.06	10.12	579.16		
SW-01	587.0 (Top Headwall)	3.08	583.92	na ⁽²⁾	na	3.28	583.72	5.10	581.90	4.25	582.75		
SW-02	See note (3)	1.89	583.52	0.82	581.58	0.86	583.95	0.40	582.51	0.06	582.92		
RTW-1	na	8.98	na	10.52	na	8.35	na	10.28	na	8.73	na		

Notes:

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⁽¹⁾ TOR (top of riser for monitoring wells) measured in feet; distance above sea level.

⁽²⁾ location inaccessible due to debris at headwall measurement point.

⁽³⁾ Former Reference Point TOR at Well 11A / Staff Gauge SG-2 installed on 7/7/20 at SW-02 location. Reference elevation is 581.67 fasl na = not available.

Table 2. Groundwater and Surface Water Elevations Mineral Springs Road MGP Site National Fuel Gas Distribution Corporation West Seneca, New York

Well ID	TOR Elevation ⁽¹⁾	August 6, 2020 (SECOND SEMIANNUAL 2020)		April 13, 2021 (FIRST SEMIANNUAL 2021)		_	t 9, 2021 MANNUAL 2021)	April 19, 2022 (FIRST SEMIANNUAL 2022)	
	Elevation	Depth	Elevation	Depth	Elevation	Depth	Elevation	Depth	Elevation
MW-07	587.01	5.96	581.05	4.88	582.13	5.76	581.25	4.60	582.41
MW-10	587.61	7.00	580.61	6.08	581.53	7.05	580.56	5.85	581.76
MW-11A	589.78	8.36	581.42	7.10	582.68	8.38	581.40	6.70	583.08
MW-12	591.40	11.00	580.40	10.13	581.27	11.03	580.37	9.75	581.65
MW-13	591.85	12.93	578.92	12.16	579.69	12.97	578.88	12.02	579.83
MW-14	589.53	11.49	578.04	11.06	578.47	11.45	578.08	10.69	578.84
MW-15	590.93	10.96	579.97	10.12	580.81	10.75	580.18	9.72	581.21
MW-16	588.99	7.65	581.34	6.40	582.59	7.77	581.22	6.41	582.58
MW-17	587.28	6.00	581.28	4.75	582.53	6.18	581.10	4.70	582.58
MW-19	589.83	9.15	580.68	8.17	581.66	9.15	580.68	7.76	582.07
MW-20	587.06	9.22	577.84	7.78	579.28	9.30	577.76	7.52	579.54
MW-21	587.84	10.63	577.21	10.08	577.76	10.65	577.19	9.89	577.95
MW-22	592.50	12.29	580.21	11.47	581.03	12.31	580.19	11.05	581.45
MW-23	589.28	11.17	578.11	10.78	578.50	11.14	578.14	10.33	578.95
SW-01	587.0 (Top Headwall)	6.20	580.80	5.05	581.95	na ⁽²⁾	na	4.20	582.80
SW-02	See note (3)	0.14	581.81	0.06	581.73	dry	<581.67'	2.50	584.17
RTW-1	na	8.30	na	8.59	na	8.64	na	7.75	na

GEI Consultants, Inc., P.C. Page 2 of 2

Notes:

(1) TOR (top of riser for monitoring wells) measured in feet; distance above sea level.

⁽²⁾ location inaccessible due to debris at headwall measurement point.

⁽³⁾ Former Reference Point TOR at Well 11A / Staff Gauge SG-2 installed on 7/7/20 at SW-02 location. Reference elevation is 581.67 fasl na = not available.

Table 3. Field Measured Parameters
Mineral Springs Road MGP Site
National Fuel Gas Distribution Corporation
West Seneca, New York

Well ID	Sampling Date	Sampling Time	pH (standard units)	Specific Conductance (mS/cm)	Temperature (°C)	Turbidity (ntu)	Oxidation Reduction Potential (mV)	Dissolved Oxygen (ppm)	Comments	
Groundwater	Groundwater Monitoring Wells									
MW-07	04/19/22	9:15	6.64	2.58	10.1	4.70	97.8	0.18		
MW-10	04/19/22	9:10	6.67	1.40	50.8	1.23	22.9	1.79		
MW-11A	04/19/22	11:15	6.76	1.09	8.7	4.80	-0.8	0.18		
MW-12	04/19/22	12:30	5.93	4.54	8.7	4.20	43.1	2.26		
MW-13	04/20/22	10:30	6.60	0.53	50.4	1.40	22.4	0.26		
MW-14	04/19/22	10:15	6.58	2.66	11.9	3.60	-31.4	0.09		
MW-16	04/20/22	11:50	4.31	3.63	52.3	3.30	62.1	0.89		
MW-17	04/20/22	11:15	6.66	2.00	45.9	0.43	14.8	0.43		
MW-19	04/19/22	10:55	6.7	0.89	48.9	0.37	-64.1	0.55		
MW-20	04/20/22	9:20	6.50	1.99	48.1	4.70	-56.3	0.24		
MW-21	04/20/22	10:00	6.41	3.29	50.7	4.97	-40.2	0.18		
MW-22	04/19/22	12:25	6.63	2.18	51.0	2.07	-61.4	0.36		
MW-23	04/19/22	9:50	6.60	4.97	51.4	4.93	77.9	3.06	Field Duplicate	
Surface Wate	r Sampling L	ocations*						•		
SW-01	04/20/22	13:30		1.76	-		-		downstream	
SW-02	04/20/22	11:00		1.73					upstream	

Notes:

GEI Consultants, Inc., P.C.

^{*} Surface water sampling locations are field measured for specific conductance concentrations only.

⁻⁻ Information not available.

Table 4A. Groundwater Analytical Summary - Onsite Areas Mineral Springs Road MGP Site National Fuel Gas Distribution Corporation West Seneca, New York

	I	S	cation Name ample Name Start Depth End Depth Depth Unit Sample Date	MW-07 MW-07 5 15 ft 4/19/2022	MW-10 MW-10 5 15 ft 4/19/2022	MW-11A MW-11A 3 18 ft 4/19/2022	MW-12 MW-12 5 15 ft 4/19/2022	MW-16 MW-16 8 18 ft 4/20/2022	MW-19 MW-19 15 25 ft 4/19/2022
Analyte	Units	CAS No.	NYS AWQS						
BTEX	ug/L	CAS NO.	N13 AWQ3						
Benzene	ug/L	71-43-2	1	420	1 U	4.9			4100
Toluene		108-88-3	5	40 U	1 U	2 U			100 U
Ethylbenzene		100-33-3	5	910	1 U	2 U			470
Total Xylene		1330-20-7	5	410	2 U	4 U			200 U
Total BTEX (ND=0)		TBTEX ND0	NE	1740	ND	4.9			4570
PAH17	ug/L	TBTEX_NB0		1770	IND	7.0			4070
Acenaphthene	ug/L	83-32-9	20*	110	0.5 U	1.4			100 U
Acenaphthylene		208-96-8	NE NE	50 U	0.5 U	0.87			100 U
Anthracene		120-12-7	50*	50 U	0.5 U	0.5 U			100 U
Benzo(a)anthracene		56-55-3	0.002*	50 U	0.5 U	0.5 U			100 U
Benzo(b)fluoranthene		205-99-2	0.002*	50 U	0.5 U	0.5 U			100 U
Benzo(k)fluoranthene		207-08-9	0.002*	50 U	0.5 U	0.5 U			100 U
Benzo(g,h,i)perylene		191-24-2	NE	50 U	0.5 U	0.5 U			100 U
Benzo(a)pyrene		50-32-8	ND	50 U	0.5 U	0.5 U	-		100 U
Chrysene		218-01-9	0.002*	50 U	0.5 U	0.5 U	-		100 U
Dibenz(a,h)anthracene		53-70-3	NE	50 U	0.5 U	0.5 U			100 U
Fluoranthene		206-44-0	50*	50 U	0.5 U	0.5 U			100 U
Fluorene		86-73-7	50*	50 U	0.5 U	0.5 U			100 U
Indeno(1,2,3-cd)pyrene		193-39-5	0.002*	50 U	0.5 U	0.5 U			100 U
2-Methylnaphthalene		91-57-6	NE	190	0.5 U	0.5 U			100 U
Naphthalene		91-20-3	10*	2100	1.3	0.5 U			5700
Phenanthrene		85-01-8	50*	50 U	0.5 U	0.5 U	-		100 U
Pyrene		129-00-0	50*	50 U	0.5 U	0.5 U	-		100 U
Total PAH (17) (ND=0)		TPAH17_ND0	NE	2400	1.3	2.27			5700
Cyanides	ug/L								
Free Cyanide		FREECN	NE			6 J	8.9 J	46.4 J	
Total Cyanide		57-12-5	200			228	1060	4940	
Other									
Total Suspended Solids	ug/L	TSS	NE		-	26400	-		

Table 4B. Groundwater Analytical Summary - Perimeter Areas Mineral Springs Road MGP Site National Fuel Gas Distribution Corporation West Seneca, New York

		S	cation Name iample Name Start Depth End Depth Depth Unit Sample Date arent Sample	MW-13 MW-13 10 20 ft 4/20/2022	MW-14 MW-14 10 20 ft 4/19/2022	MW-17 MW-17 7 17 ft 4/20/2022	MW-20 MW-20 10 20 ft 4/20/2022	MW-21 MW-21 10 20 ft 4/20/2022	MW-22 MW-22 10 20 ft 4/19/2022	MW-23 MW-23 5 20 ft 4/19/2022	MW-23 Duplicate 5 20 ft 4/19/2022 MW-23
Analyte	Units	CAS No.	NYS AWQS								
BTEX	ug/L										
Benzene	Ŭ	71-43-2	1	1 U	-	2 U		-		1 U	1 U
Toluene		108-88-3	5	1 U	-	2 U		-		1 U	1 U
Ethylbenzene		100-41-4	5	1 U		2 U				1 U	1 U
Total Xylene		1330-20-7	5	2 U		4 U				2 U	2 U
Total BTEX (ND=0)		TBTEX_ND0	NE	ND	-	ND				ND	ND
PAH17	ug/L										
Acenaphthene		83-32-9	20*	0.5 U		2.5 U				0.5 U	0.5 U
Acenaphthylene		208-96-8	NE	0.5 U		2.5 U				0.5 U	0.5 U
Anthracene		120-12-7	50*	0.5 U	-	2.5 U		-		0.5 U	0.5 U
Benzo(a)anthracene		56-55-3	0.002*	0.5 U		2.5 U				0.5 U	0.5 U
Benzo(b)fluoranthene		205-99-2	0.002*	0.5 U		2.5 U				0.31 J	0.5
Benzo(k)fluoranthene		207-08-9	0.002*	0.5 U	-	2.5 U		1		0.5 U	0.5 U
Benzo(g,h,i)perylene		191-24-2	NE	0.5 U	-	2.5 U		-		0.5 U	0.5 U
Benzo(a)pyrene		50-32-8	ND	0.5 U	-	2.5 U		-		0.5 U	0.5 U
Chrysene		218-01-9	0.002*	0.5 U	-	2.5 U		-		0.5 U	0.36 J
Dibenz(a,h)anthracene		53-70-3	NE	0.5 U	-	2.5 U		-		0.5 U	0.5 U
Fluoranthene		206-44-0	50*	0.5 U	-	2.5 U		-		0.49 J	0.74
Fluorene		86-73-7	50*	0.5 U		2.5 U				0.5 U	0.5 U
Indeno(1,2,3-cd)pyrene		193-39-5	0.002*	0.5 U		2.5 U				0.5 U	0.5 U
2-Methylnaphthalene		91-57-6	NE	0.5 U		2.5 U				0.5 U	0.5 U
Naphthalene		91-20-3	10*	0.5 U		2.5 U				0.79	0.5 U
Phenanthrene		85-01-8	50*	0.5 U		2.5 U				0.5 U	0.38 J
Pyrene		129-00-0	50*	0.5 U		2.5 U				0.39 J	0.63
Total PAH (17) (ND=0)		TPAH17_ND0	NE	ND	-	ND				1.98	2.61
Cyanides	ug/L							· ·		· ·	
Free Cyanide		FREECN	NE	5 R	8.3 J	5 R	9.1 J	3.4 J	15.3 J	6.4 J	6 J
Total Cyanide		57-12-5	200	10 U	568	73.9	754	343	614	174	191

Tables 4A and 4B. Groundwater Analytical Summary - Notes Mineral Springs Road MGP Site National Fuel Gas Distribution Corporation West Seneca, New York

Notes:

Analytes in blue are not detected in any sample

ug/L = micrograms per liter or parts per billion (ppb)

BTEX = Benzene, Toluene, Ethylbenzene, and Xylenes PAH = Polycyclic Aromatic Hydrocarbon

Total BTEX and Total PAHs are calculated using detects only.

Total PAH17 is calculated using the list of analytes: Acenaphthene, Acenaphthylene, Anthracene, Benza[a]anthracene, Benza[a]pyrene, Benza[a]pyrene, Benza[a,h]anthracene, Benza[a,h]anthracene, Fluoranthene, Fluorene, Indena[1,2,3-cd]pyrene, Naphthalene, 2-Methylnaphthalene, Phenanthrene, and Pyrene

NYS AWQS = New York State Ambient Water Quality Standards and Guidance Values for GA groundwater * indicates the value is a quidance value and not a standard

CAS No. = Chemical Abstracts Service Number
MGP = Manufactured Gas Plant
ND = Not Detected
NE = Not Established

NYSDEC = New York State Department of Environmental Conservation

Bolding indicates a detected result concentration

Gray shading and bolding indicates that the detected result value exceeds the NYS AWQS

Validation Qualifiers:

J = The result is an estimated value.

R = The result is rejected.

U = The result was not detected above the reporting limit.

-- = Parameter was not analyzed for at this location.

Table 5. Surface Water Analytical Summary Mineral Springs Road MGP Site National Fuel Gas Distribution Corporation West Seneca, New York

	Γ	Sa	ation Name Imple Name Sample Date	SW-01 SW-01 4/19/2022	SW-02 SW-02 4/19/2022
Analyte	Units	CAS No.	Class D Stream		
BTEX	ug/L				
Benzene		71-43-2	10	1 U	1 U
Ethylbenzene		100-41-4	150*	1 U	1 U
Toluene		108-88-3	6000	1 U	1 U
Total Xylene		1330-20-7	590*	2 U	2 U
Total BTEX (ND=0)		TBTEX_ND0	NE	ND	ND
PAH17	ug/L				
Acenaphthene		83-32-9	48*	0.5 U	0.5 U
Acenaphthylene		208-96-8	NE	0.5 U	0.5 U
Anthracene		120-12-7	35*	0.5 U	0.5 U
Benzo(a)anthracene		56-55-3	0.23*	0.5 U	0.5 U
Benzo(b)fluoranthene		205-99-2	NE	0.5 U	0.5 U
Benzo(k)fluoranthene		207-08-9	NE	0.5 U	0.5 U
Benzo(g,h,i)perylene		191-24-2	NE	0.5 U	0.5 U
Benzo(a)pyrene		50-32-8	0.0012*	0.5 U	0.5 U
Chrysene		218-01-9	NE	0.5 U	0.5 U
Dibenz(a,h)anthracene		53-70-3	NE	0.5 U	0.5 U
Fluoranthene		206-44-0	NE	0.5 U	0.5 U
Fluorene		86-73-7	4.8*	0.5 U	0.5 U
Indeno(1,2,3-cd)pyrene		193-39-5	NE	0.5 U	0.5 U
2-Methylnaphthalene		91-57-6	42*	0.5 U	0.5 U
Naphthalene		91-20-3	110*	0.5 U	0.84
Phenanthrene		85-01-8	45*	0.5 U	0.5 U
Pyrene		129-00-0	42*	0.5 U	0.5 U
Total PAH (17) (ND=0)		TPAH17_ND0	NE	ND	0.84
Cyanides	ug/L	_			
Free Cyanide		FREECN	22	3 J	5 UJ
Total Cyanide		57-12-5	9000	29.1 J	10 U
Other					
Total Suspended Solids	ug/L	TSS	NE	1600 U	1600 U

Table 5. Surface Water Analytical Summary Mineral Springs Road MGP Site National Fuel Gas Distribution Corporation West Seneca, New York

Notes:

Analytes in blue are not detected in any sample

ug/L = micrograms per liter or parts per billion (ppb)

BTEX = Benzene, Toluene, Ethylbenzene, and Xylenes PAH = Polycyclic Aromatic Hydrocarbon

Total BTEX and Total PAHs are calculated using detects only.

Total PAH16 is calculated using the EPA16 list of analytes: Acenaphthene, Acenaphthylene, Anthracene, Benzo[a]anthracene, Benzo[a]pyrene, Benzo[b]fluoranthene, Benzo[g,h,i]perylene, Benzo[k]fluoranthene, Chrysene, Dibenz[a,h]anthracene, Fluoranthene, Fluorene, Indeno[1,2,3-cd]pyrene, Naphthalene, Phenanthrene, and Pyrene

Total PAH17 is calculated using the EPA16 list of analytes plus 2-Methylnaphthalene

NYS AWQS = New York State Ambient Water Quality Standards and Guidance Values for GA groundwater * indicates the value is a guidance value and not a standard

CAS No. = Chemical Abstracts Service Number MGP = Manufactured Gas Plant ND = Not Detected NE = Not Established

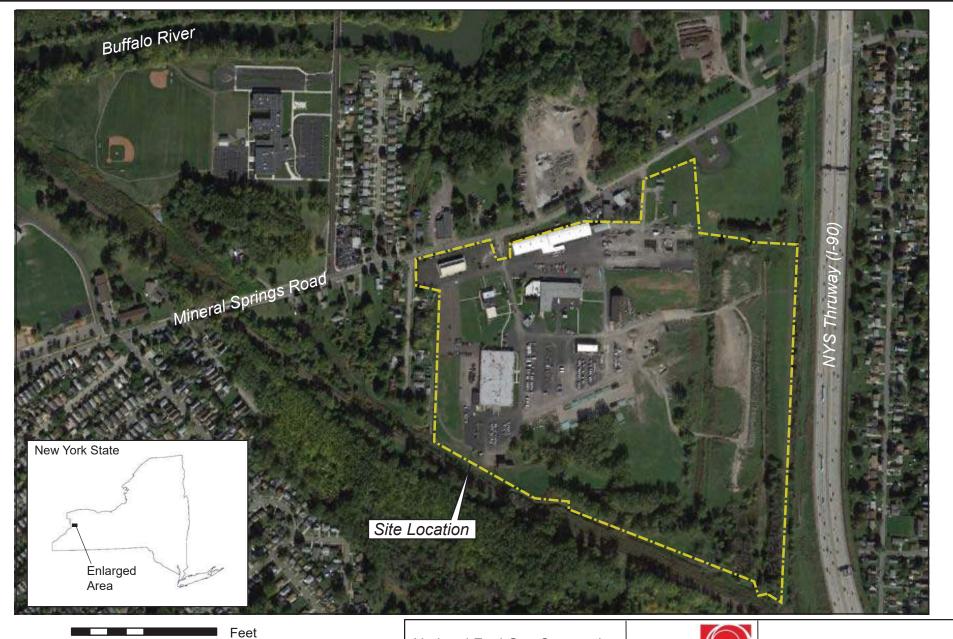
Bolding indicates a detected result concentration

Validation Qualifiers:

J = The result is an estimated value.

U = The result was not detected above the reporting limit.

Figures



Notes:

Aerial Imagery Sourced from Google Maps (http://www.maps.google.com) dated 2016.

1000

500

250

National Fuel Gas Corporation Mineral Springs Facility

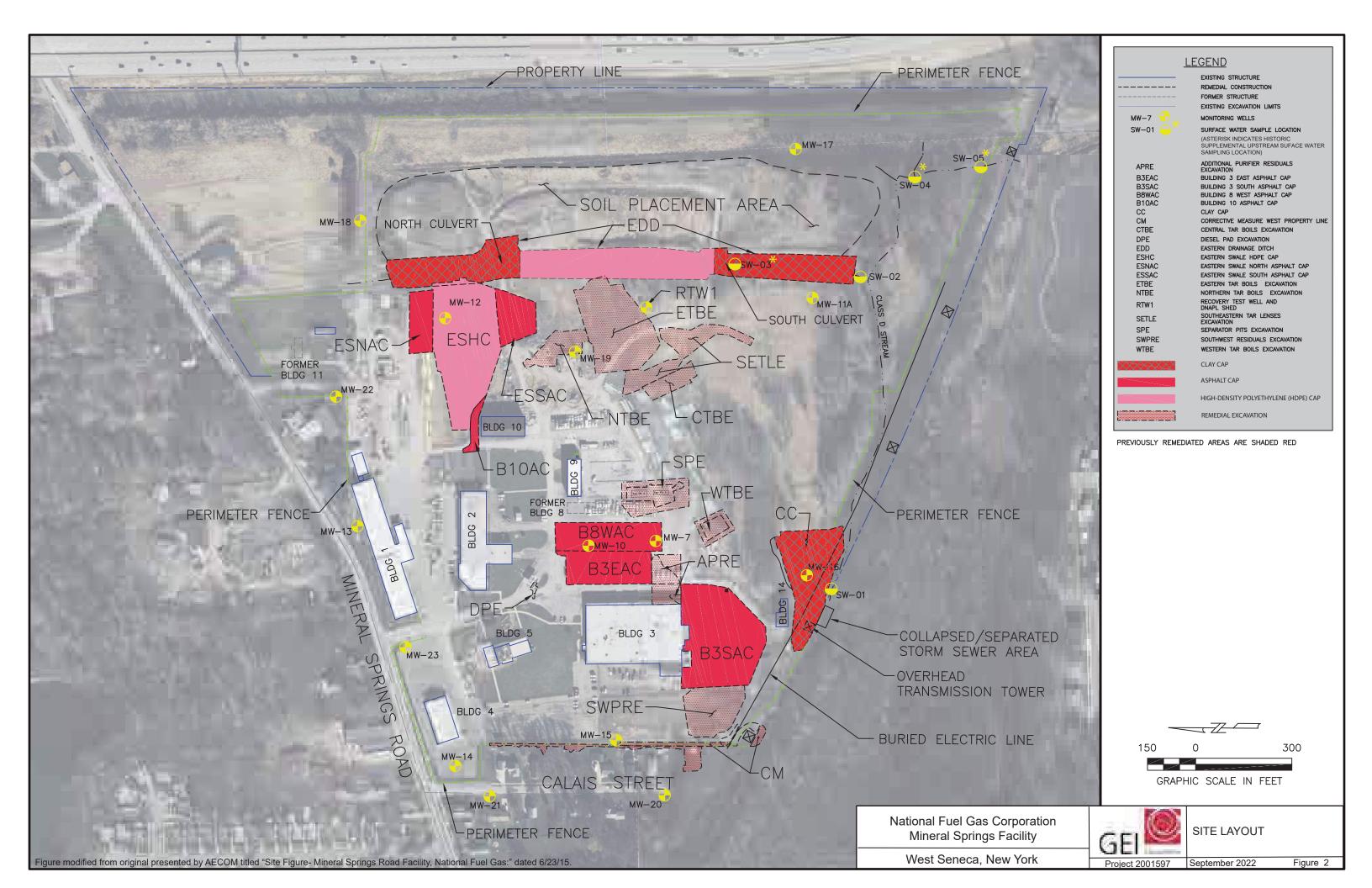
West Seneca, New York

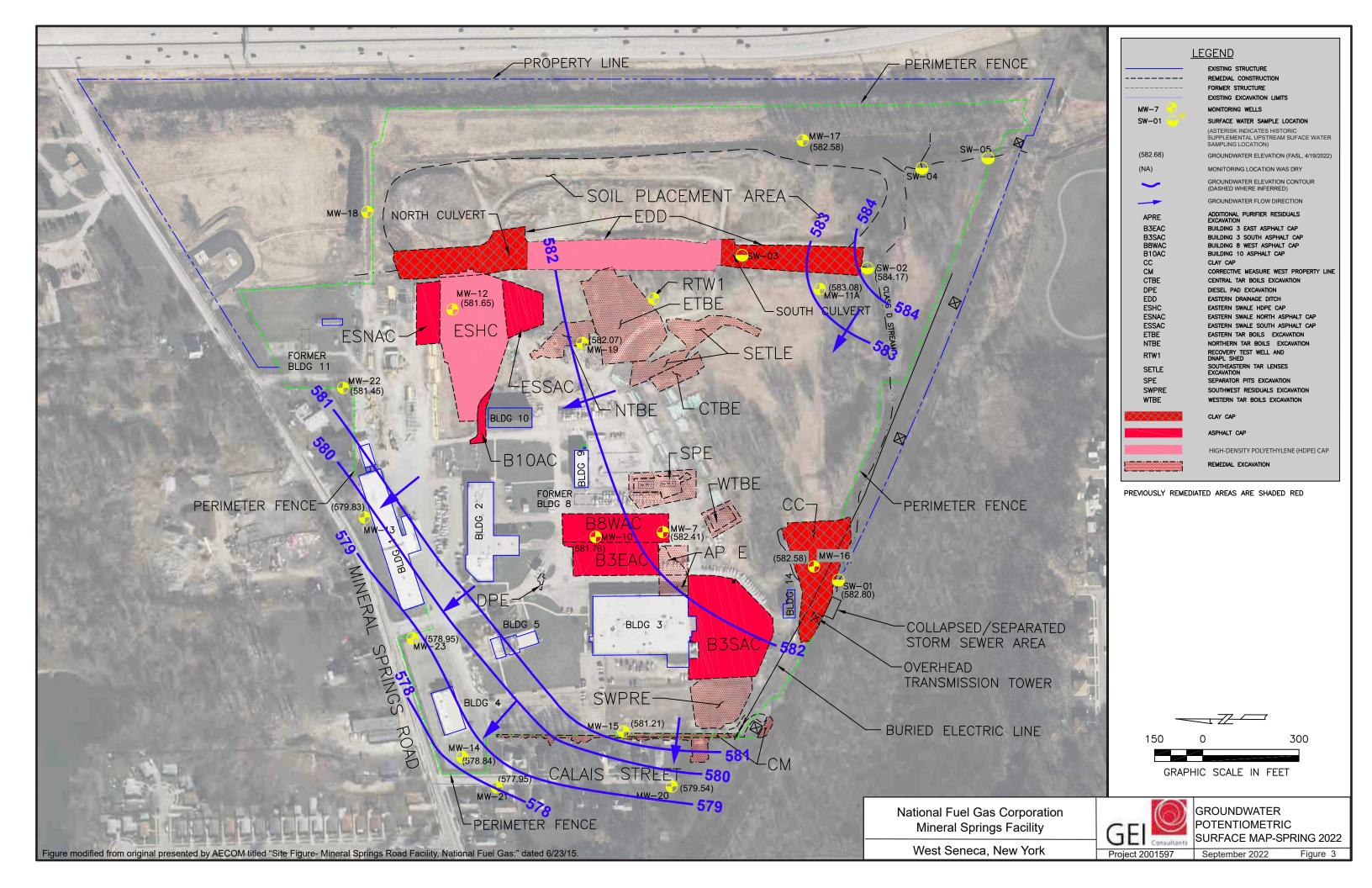


SITE LOCATION

Project 2001597 September 2022

Figure 1





Appendix A

Laboratory Data Package (Level 2)



Environment Testing America

ANALYTICAL REPORT

Eurofins Buffalo 10 Hazelwood Drive Amherst, NY 14228-2298 Tel: (716)691-2600

Laboratory Job ID: 480-196931-1

Laboratory Sample Delivery Group: 480-196931-1

Client Project/Site: GEI, Mineral Springs

Sampling Event: Semi Annual Sampling (April)

For:

GEI Consultants, Inc. 100 Sylvan Parkway Suite 400 Amherst, New York 14228

Attn: Richard Frappa

3

Authorized for release by: 5/13/2022 10:21:21 AM

Rebecca Jones, Project Management Assistant I Rebecca.Jones@et.eurofinsus.com

Designee for

John Schove, Project Manager II (716)504-9838

John.Schove@et.eurofinsus.com

.....LINKS

Review your project results through

Total Access

Have a Question?



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www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

2

3

4

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7

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4.0

13

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Definitions/Glossary

Client: GEI Consultants, Inc. Job ID: 480-196931-1 Project/Site: GEI, Mineral Springs SDG: 480-196931-1

Qualifiers

GC	MS'	VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC/MS Semi VOA

Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

U Indicates the analyte was analyzed for but not detected.

Qualifier Description

General Chemistry

Ouglifier

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
В	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
Н	Sample was prepped or analyzed beyond the specified holding time
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Clossary

Glossary	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
1.00	Lind to Charles (in the Charles Charles)

LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE) MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry) Minimum Detectable Concentration (Radiochemistry) MDC

MDL Method Detection Limit Minimum Level (Dioxin) ML MPN Most Probable Number Method Quantitation Limit MQL NC

Not Calculated

Not Detected at the reporting limit (or MDL or EDL if shown) ND

NEG Negative / Absent POS Positive / Present

PQL **Practical Quantitation Limit**

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Eurofins Buffalo

Page 3 of 57 5/13/2022

Case Narrative

Client: GEI Consultants, Inc. Project/Site: GEI, Mineral Springs Job ID: 480-196931-1

SDG: 480-196931-1

Job ID: 480-196931-1

Laboratory: Eurofins Buffalo

Narrative

Job Narrative 480-196931-1

Comments

No additional comments.

Receipt

The samples were received on 4/19/2022 2:20 PM and 4/20/2022 12:45 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 2.7° C, 2.9° C and 3.6° C.

GC/MS VOA

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-19 (480-196931-6). Elevated reporting limits (RLs) are provided.

Method 8260C: The following volatiles sample was diluted due to foaming at the time of purging during the original sample analysis: MW-11A (480-196931-1). Elevated reporting limits (RLs) are provided.

Method 8260C: The following sample was diluted due to the abundance of non-target analytes: MW-07 (480-196931-10). Elevated reporting limits (RLs) are provided.

Method 8260C: The following volatiles sample was diluted due to foaming at the time of purging during the original sample analysis: MW-17 (480-196985-4). Elevated reporting limits (RLs) are provided.

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

GC/MS Semi VOA

Method 8270D LL PAH: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-19 (480-196931-6) and MW-07 (480-196931-10). Elevated reporting limits (RLs) are provided.

Method 8270D LL PAH: The following samples required a dilution due to the abundance of target analytes: MW-19 (480-196931-6) and MW-07 (480-196931-10). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8270D LL PAH: The following sample was diluted due to the abundance of non-target analytes: MW-17 (480-196985-4). Elevated reporting limits (RLs) are provided.

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

General Chemistry

Method 9016: Reanalysis of the following samples were performed outside of the analytical holding time due to QC failure in initial analysis: MW-11A (480-196931-1), SW-01 (480-196931-2), SW-02 (480-196931-3), MW-12 (480-196931-4), MW-14 (480-196931-5), MW-23 (480-196931-7), Duplicate (480-196931-8), MW-22 (480-196931-9) and EQUIPMENT BLANK (480-196931-13).

Method 9016: The following samples were analyzed outside of analytical holding time due to internal tracking error: MW-20 (480-196985-1), MW-21 (480-196985-2), MW-13 (480-196985-3), MW-17 (480-196985-4) and MW-16 (480-196985-5).

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

Organic Prep

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

Eurofins Buffalo 5/13/2022

Job ID: 480-196931-1 SDG: 480-196931-1

Client: GEI Consultants, Inc.
Project/Site: GEI, Mineral Springs

Client Sample ID: MW-11A

Lab Sample ID: 480-196931-1

- Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	4.9		2.0	0.82	ug/L		_	8260C	Total/NA
Acenaphthene	1.4		0.50	0.30	ug/L	1		8270D_LL_PAH	Total/NA
Acenaphthylene	0.87		0.50	0.34	ug/L	1		8270D_LL_PAH	Total/NA
Cyanide, Total	228		10.0	5.0	ug/L	1		9012B	Total/NA
Cyanide, Free	8.6	F1 B	5.0	2.3	ug/L	1		9016	Total/NA
Cyanide, Free	6.0	Н	5.0	2.3	ug/L	1		9016	Total/NA
Total Suspended Solids	26.4		1.6	1.6	ma/L	1		SM 2540D	Total/NA

Client Sample ID: SW-01 Lab Sample ID: 480-196931-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyanide, Total	29.1		10.0	5.0	ug/L	1		9012B	Total/NA
Cyanide, Free	5.6	В	5.0	2.3	ug/L	1		9016	Total/NA
Cyanide, Free	3.0	JH	5.0	2.3	ug/L	1		9016	Total/NA

Client Sample ID: SW-02 Lab Sample ID: 480-196931-3

Analyte	Result Qualifier	RL	MDL U	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.84	0.50	0.42	ug/L	1	_	8270D_LL_PAH	Total/NA
Cyanide, Total	6.2 J	10.0	5.0 ເ	ug/L	1		9012B	Total/NA
Cyanide, Free	5.2 B	5.0	2.3 ι	ug/L	1		9016	Total/NA

Client Sample ID: MW-12 Lab Sample ID: 480-196931-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyanide, Total	1060		10.0	5.0	ug/L	1	_	9012B	Total/NA
Cyanide, Free	15.3	В	5.0	2.3	ug/L	1		9016	Total/NA
Cyanide, Free	8.9	Н	5.0	2.3	ug/L	1		9016	Total/NA

Client Sample ID: MW-14 Lab Sample ID: 480-196931-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyanide, Total	568		10.0	5.0	ug/L	1	_	9012B	Total/NA
Cyanide, Free	12.5	В	5.0	2.3	ug/L	1		9016	Total/NA
Cyanide, Free	8.3	Н	5.0	2.3	ug/L	1		9016	Total/NA

Client Sample ID: MW-19 Lab Sample ID: 480-196931-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	4100		100	41	ug/L	100	_	8260C	Total/NA
Ethylbenzene	470		100	74	ug/L	100		8260C	Total/NA
Naphthalene	5700		100	84	ug/L	200		8270D_LL_PAH	Total/NA

Client Sample ID: MW-23 Lab Sample ID: 480-196931-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	0.31	J	0.50	0.30	ug/L	1	_	8270D_LL_PAH	Total/NA
Fluoranthene	0.49	J	0.50	0.36	ug/L	1		8270D_LL_PAH	Total/NA
Naphthalene	0.79		0.50	0.42	ug/L	1		8270D_LL_PAH	Total/NA
Pyrene	0.39	J	0.50	0.36	ug/L	1		8270D_LL_PAH	Total/NA
Cyanide, Total	174		10.0	5.0	ug/L	1		9012B	Total/NA
Cyanide, Free	9.0	В	5.0	2.3	ug/L	1		9016	Total/NA
Cyanide, Free	6.4	Н	5.0	2.3	ug/L	1		9016	Total/NA

This Detection Summary does not include radiochemical test results.

5/13/2022

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Client: GEI Consultants, Inc. Job ID: 480-196931-1 Project/Site: GEI, Mineral Springs SDG: 480-196931-1

Client	Same	ole ID:	Dup	licate

Lab Sample ID: 480-196931-8

Analyte	Result Qua	lifier RL	MDL	Unit	Dil Fac	D I	Method	Prep Type
Benzo[b]fluoranthene	0.50	0.50	0.30	ug/L	1	_ {	8270D_LL_PAH	Total/NA
Chrysene	0.36 J	0.50	0.32	ug/L	1	8	8270D_LL_PAH	Total/NA
Fluoranthene	0.74	0.50	0.36	ug/L	1	8	8270D_LL_PAH	Total/NA
Phenanthrene	0.38 J	0.50	0.38	ug/L	1	3	8270D_LL_PAH	Total/NA
Pyrene	0.63	0.50	0.36	ug/L	1	8	8270D_LL_PAH	Total/NA
Cyanide, Total	191	10.0	5.0	ug/L	1	Ś	9012B	Total/NA
Cyanide, Free	9.0 B	5.0	2.3	ug/L	1		9016	Total/NA
Cyanide, Free	6.0 H	5.0	2.3	ug/L	1	ç	9016	Total/NA

Client Sample ID: MW-22

Lab Sample ID: 480-196931-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyanide, Total	614		20.0	10.0	ug/L	2	_	9012B	Total/NA
Cyanide, Free	16.4	В	5.0	2.3	ug/L	1		9016	Total/NA
Cyanide, Free	15.3	Н	5.0	2.3	ug/L	1		9016	Total/NA

Client Sample ID: MW-07

Lab Sample ID: 480-196931-10

Analyte	Result C	Qualifier	RL	MDL	Unit	Dil Fac D	Method	Prep Type
Benzene	420		40	16	ug/L	40	8260C	Total/NA
Ethylbenzene	910		40	30	ug/L	40	8260C	Total/NA
Xylenes, Total	410		80	26	ug/L	40	8260C	Total/NA
2-Methylnaphthalene	190		50	38	ug/L	100	8270D_LL_PAH	Total/NA
Acenaphthene	110		50	30	ug/L	100	8270D_LL_PAH	Total/NA
Naphthalene	2100		50	42	ug/L	100	8270D_LL_PAH	Total/NA

Client Sample ID: MW-10

Lab Sample ID: 480-196931-11

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D	Method	Prep Type
Naphthalene	1.3	0.50	0.42 ug/L		8270D_LL_PAH	Total/NA

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-196931-12

No Detections.

Client Sample ID: EQUIPMENT BLANK

Lab Sample ID: 480-196931-13

Analyte	Result Qualifier	RL	MDL (Unit	Dil Fac	D	Method	Prep Type
Cyanide, Total	5.6 J	10.0	5.0	ug/L	1	_	9012B	Total/NA
Cyanide, Free	5.6 B	5.0	2.3 ι	ug/L	1		9016	Total/NA

Client Sample ID: MW-20

Lab Sample ID: 480-196985-1

Analyte	Result C	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyanide, Total	754		20.0	10.0	ug/L		2	9012B	Total/NA
Cyanide, Free	9.1 F	4	5.0	2.3	ug/L	•	1	9016	Total/NA

Client Sample ID: MW-21

Lab Sample ID: 480-196985-2

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D	Method	Prep Type
Cyanide, Total	343	10.0	5.0 ug/L		9012B	Total/NA
Cvanide, Free	34 JH	5.0	2.3 ua/L	1	9016	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

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Detection Summary

Client: GEI Consultants, Inc.

Project/Site: GEI, Mineral Springs

Job ID: 480-196931-1

SDG: 480-196931-1

Lab Sample ID: 480-196985-3

No Detections.

Client Sample ID: MW-13

Client Sample ID: MW-17 Lab Sample ID: 480-196985-4

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D	Method	Prep Type
Cyanide, Total	73.9	10.0	5.0 ug/L		9012B	Total/NA

Client Sample ID: MW-16 Lab Sample ID: 480-196985-5

Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac	D Method	Prep Type
Cyanide, Total	4940	200	100	ug/L	20	9012B	Total/NA
Cyanide, Free	46.4 H	5.0	2.3	ug/L	1	9016	Total/NA

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-196985-6

No Detections.

This Detection Summary does not include radiochemical test results.

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Client: GEI Consultants, Inc. Job ID: 480-196931-1 Project/Site: GEI, Mineral Springs SDG: 480-196931-1

Client Sample ID: MW-11A

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: 480-196931-1 **Matrix: Ground Water** Date Collected: 04/19/22 11:15

Date Received: 04/19/22 14:20

Cyanide, Free

Cyanide, Free

Total Suspended Solids

Analyte

Analyte	Result	Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fac
Benzene	4.9		2.0	0.82	ug/L			04/20/22 14:06	2
Ethylbenzene	2.0	U	2.0	1.5	ug/L			04/20/22 14:06	2
Toluene	2.0	U	2.0	1.0	ug/L			04/20/22 14:06	2
Xylenes, Total	4.0	U	4.0	1.3	ug/L			04/20/22 14:06	2
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 120					04/20/22 14:06	2
4-Bromofluorobenzene (Surr)	102		73 - 120					04/20/22 14:06	2
Dibromofluoromethane (Surr)	110		75 - 123					04/20/22 14:06	2
Toluene-d8 (Surr)	97		80 - 120					04/20/22 14:06	2
Method: 8270D_LL_PAH - \$	Semivolatile O	rganic Con	npounds (GC	/MS) Lo	w level	PAH			
Analyte		Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	0.50	U	0.50	0.38	ug/L		04/20/22 14:51	04/21/22 16:15	1
Acenaphthene	1.4		0.50	0.30	ug/L		04/20/22 14:51	04/21/22 16:15	1
Acenaphthylene	0.87		0.50	0.34	ug/L		04/20/22 14:51	04/21/22 16:15	1
Anthracene	0.50	U	0.50	0.39	ug/L		04/20/22 14:51	04/21/22 16:15	1
Benzo[a]anthracene	0.50	U	0.50	0.40	ug/L		04/20/22 14:51	04/21/22 16:15	1
Benzo[a]pyrene	0.50	U	0.50	0.33	ug/L		04/20/22 14:51	04/21/22 16:15	1
Benzo[b]fluoranthene	0.50	U	0.50	0.30	ug/L		04/20/22 14:51	04/21/22 16:15	1
Benzo[g,h,i]perylene	0.50	U	0.50	0.37	ug/L		04/20/22 14:51	04/21/22 16:15	1
Benzo[k]fluoranthene	0.50	U	0.50	0.085	ug/L		04/20/22 14:51	04/21/22 16:15	1
Chrysene	0.50	U	0.50	0.32	ug/L		04/20/22 14:51	04/21/22 16:15	1
Dibenz(a,h)anthracene	0.50	U	0.50	0.33	ug/L		04/20/22 14:51	04/21/22 16:15	1
Fluoranthene	0.50	U	0.50	0.36	ug/L		04/20/22 14:51	04/21/22 16:15	1
Fluorene	0.50	U	0.50	0.37	ug/L		04/20/22 14:51	04/21/22 16:15	1
Indeno[1,2,3-cd]pyrene	0.50	U	0.50	0.44	ug/L		04/20/22 14:51	04/21/22 16:15	1
Naphthalene	0.50	U	0.50	0.42	ug/L		04/20/22 14:51	04/21/22 16:15	1
Phenanthrene	0.50	U	0.50		ug/L		04/20/22 14:51	04/21/22 16:15	1
Pyrene	0.50	U	0.50	0.36	ug/L		04/20/22 14:51	04/21/22 16:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	93		48 - 120				04/20/22 14:51	04/21/22 16:15	1
Nitrobenzene-d5 (Surr)	79		46 - 120				04/20/22 14:51	04/21/22 16:15	1
p-Terphenyl-d14 (Surr)	72		24 - 136				04/20/22 14:51	04/21/22 16:15	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fac
	228				ug/L				

04/29/22 11:23 04/29/22 20:00

05/06/22 13:52 05/06/22 19:55

Analyzed

04/22/22 14:21

Prepared

5.0

5.0

RL

1.6

8.6 F1 B

Result Qualifier

6.0 H

26.4

2.3 ug/L

2.3 ug/L

RL Unit

1.6 mg/L

Dil Fac

Client: GEI Consultants, Inc. Job ID: 480-196931-1 Project/Site: GEI, Mineral Springs SDG: 480-196931-1

Client Sample ID: SW-01 Lab Sample ID: 480-196931-2

Date Collected: 04/19/22 13:30 **Matrix: Surface Water** Date Received: 04/19/22 14:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.41	ug/L			04/20/22 14:29	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			04/20/22 14:29	1
Toluene	1.0	U	1.0	0.51	ug/L			04/20/22 14:29	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			04/20/22 14:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		77 - 120					04/20/22 14:29	1
4-Bromofluorobenzene (Surr)	102		73 - 120					04/20/22 14:29	1
Dibromofluoromethane (Surr)	111		75 - 123					04/20/22 14:29	1
Toluene-d8 (Surr)	99		80 - 120					04/20/22 14:29	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	0.50	U	0.50	0.38	ug/L		04/20/22 14:51	04/21/22 16:43	1
Acenaphthene	0.50	U	0.50	0.30	ug/L		04/20/22 14:51	04/21/22 16:43	1
Acenaphthylene	0.50	U	0.50	0.34	ug/L		04/20/22 14:51	04/21/22 16:43	1
Anthracene	0.50	U	0.50	0.39	ug/L		04/20/22 14:51	04/21/22 16:43	1
Benzo[a]anthracene	0.50	U	0.50	0.40	ug/L		04/20/22 14:51	04/21/22 16:43	1
Benzo[a]pyrene	0.50	U	0.50	0.33	ug/L		04/20/22 14:51	04/21/22 16:43	1
Benzo[b]fluoranthene	0.50	U	0.50	0.30	ug/L		04/20/22 14:51	04/21/22 16:43	1
Benzo[g,h,i]perylene	0.50	U	0.50	0.37	ug/L		04/20/22 14:51	04/21/22 16:43	1
Benzo[k]fluoranthene	0.50	U	0.50	0.085	ug/L		04/20/22 14:51	04/21/22 16:43	1
Chrysene	0.50	U	0.50	0.32	ug/L		04/20/22 14:51	04/21/22 16:43	1
Dibenz(a,h)anthracene	0.50	U	0.50	0.33	ug/L		04/20/22 14:51	04/21/22 16:43	1
Fluoranthene	0.50	U	0.50	0.36	ug/L		04/20/22 14:51	04/21/22 16:43	1
Fluorene	0.50	U	0.50	0.37	ug/L		04/20/22 14:51	04/21/22 16:43	1
Indeno[1,2,3-cd]pyrene	0.50	U	0.50	0.44	ug/L		04/20/22 14:51	04/21/22 16:43	1
Naphthalene	0.50	U	0.50	0.42	ug/L		04/20/22 14:51	04/21/22 16:43	1
Phenanthrene	0.50	U	0.50	0.38	ug/L		04/20/22 14:51	04/21/22 16:43	1
Pyrene	0.50	U	0.50	0.36	ug/L		04/20/22 14:51	04/21/22 16:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	94		48 - 120				04/20/22 14:51	04/21/22 16:43	1
Nitrobenzene-d5 (Surr)	77		46 - 120				04/20/22 14:51	04/21/22 16:43	1
p-Terphenyl-d14 (Surr)	80		24 - 136				04/20/22 14:51	04/21/22 16:43	1

General Chemistry Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	29.1		10.0	5.0	ug/L		04/26/22 16:30	04/27/22 09:18	1
Cyanide, Free	5.6	В	5.0	2.3	ug/L		04/29/22 11:23	04/29/22 20:00	1
Cyanide, Free	3.0	JH	5.0	2.3	ug/L		05/06/22 13:52	05/06/22 19:55	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	1.6	U	1.6	1.6	mg/L			04/22/22 14:21	1

Client: GEI Consultants, Inc. Job ID: 480-196931-1 Project/Site: GEI, Mineral Springs SDG: 480-196931-1

Client Sample ID: SW-02

Date Collected: 04/19/22 11:00 Date Received: 04/19/22 14:20 Lab Sample ID: 480-196931-3

Matrix: Surface Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.41	ug/L			04/20/22 14:52	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			04/20/22 14:52	1
Toluene	1.0	U	1.0	0.51	ug/L			04/20/22 14:52	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			04/20/22 14:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		77 - 120					04/20/22 14:52	1
4-Bromofluorobenzene (Surr)	99		73 - 120					04/20/22 14:52	1
Dibromofluoromethane (Surr)	111		75 - 123					04/20/22 14:52	1
Toluene-d8 (Surr)	96		80 - 120					04/20/22 14:52	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	0.50	U	0.50	0.38	ug/L		04/20/22 14:51	04/21/22 17:10	1
Acenaphthene	0.50	U	0.50	0.30	ug/L		04/20/22 14:51	04/21/22 17:10	1
Acenaphthylene	0.50	U	0.50	0.34	ug/L		04/20/22 14:51	04/21/22 17:10	1
Anthracene	0.50	U	0.50	0.39	ug/L		04/20/22 14:51	04/21/22 17:10	1
Benzo[a]anthracene	0.50	U	0.50	0.40	ug/L		04/20/22 14:51	04/21/22 17:10	1
Benzo[a]pyrene	0.50	U	0.50	0.33	ug/L		04/20/22 14:51	04/21/22 17:10	1
Benzo[b]fluoranthene	0.50	U	0.50	0.30	ug/L		04/20/22 14:51	04/21/22 17:10	1
Benzo[g,h,i]perylene	0.50	U	0.50	0.37	ug/L		04/20/22 14:51	04/21/22 17:10	1
Benzo[k]fluoranthene	0.50	U	0.50	0.085	ug/L		04/20/22 14:51	04/21/22 17:10	1
Chrysene	0.50	U	0.50	0.32	ug/L		04/20/22 14:51	04/21/22 17:10	1
Dibenz(a,h)anthracene	0.50	U	0.50	0.33	ug/L		04/20/22 14:51	04/21/22 17:10	1
Fluoranthene	0.50	U	0.50	0.36	ug/L		04/20/22 14:51	04/21/22 17:10	1
Fluorene	0.50	U	0.50	0.37	ug/L		04/20/22 14:51	04/21/22 17:10	1
Indeno[1,2,3-cd]pyrene	0.50	U	0.50	0.44	ug/L		04/20/22 14:51	04/21/22 17:10	1
Naphthalene	0.84		0.50	0.42	ug/L		04/20/22 14:51	04/21/22 17:10	1
Phenanthrene	0.50	U	0.50	0.38	ug/L		04/20/22 14:51	04/21/22 17:10	1
Pyrene	0.50	U	0.50	0.36	ug/L		04/20/22 14:51	04/21/22 17:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	90		48 - 120				04/20/22 14:51	04/21/22 17:10	1
Nitrobenzene-d5 (Surr)	76		46 - 120				04/20/22 14:51	04/21/22 17:10	1
p-Terphenyl-d14 (Surr)	81		24 - 136				04/20/22 14:51	04/21/22 17:10	1

General Chemistry Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	6.2	J	10.0	5.0	ug/L		04/26/22 16:30	04/27/22 09:19	1
Cyanide, Free	5.2	В	5.0	2.3	ug/L		04/29/22 11:23	04/29/22 20:00	1
Cyanide, Free	5.0	UH	5.0	2.3	ug/L		05/06/22 13:52	05/06/22 19:55	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	1.6	U	1.6	1.6	mg/L			04/22/22 14:21	1

Client: GEI Consultants, Inc.

Project/Site: GEI, Mineral Springs

Job ID: 480-196931-1

SDG: 480-196931-1

Client Sample ID: MW-12 Lab Sample ID: 480-196931-4

Date Collected: 04/19/22 12:30 Matrix: Ground Water
Date Received: 04/19/22 14:20

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	1060		10.0	5.0	ug/L		04/26/22 16:30	04/27/22 09:21	1
Cyanide, Free	15.3	В	5.0	2.3	ug/L		04/29/22 11:23	04/29/22 20:00	1
Cyanide, Free	8.9	Н	5.0	2.3	ug/L		05/06/22 13:52	05/06/22 19:55	1

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Client: GEI Consultants, Inc.

Project/Site: GEI, Mineral Springs

Job ID: 480-196931-1

SDG: 480-196931-1

Client Sample ID: MW-14 Lab Sample ID: 480-196931-5

Date Collected: 04/19/22 10:15

Date Received: 04/19/22 14:20

Matrix: Ground Water

General Chemistry									
Analyte	Result (Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	568		10.0	5.0	ug/L		04/26/22 16:30	04/27/22 09:22	1
Cyanide, Free	12.5	В	5.0	2.3	ug/L		04/29/22 11:23	04/29/22 20:00	1
Cyanide, Free	8.3	Н	5.0	2.3	ug/L		05/06/22 13:52	05/06/22 20:15	1

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Client: GEI Consultants, Inc.

Project/Site: GEI, Mineral Springs

Job ID: 480-196931-1

SDG: 480-196931-1

Client Sample ID: MW-19

Date Collected: 04/19/22 10:55
Date Received: 04/19/22 14:20

Lab Sample ID: 480-196931-6

Matrix: Ground Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	4100		100	41	ug/L			04/20/22 15:15	100
Ethylbenzene	470		100	74	ug/L			04/20/22 15:15	100
Toluene	100	U	100	51	ug/L			04/20/22 15:15	100
Xylenes, Total	200	U	200	66	ug/L			04/20/22 15:15	100
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 120					04/20/22 15:15	100
4-Bromofluorobenzene (Surr)	98		73 - 120					04/20/22 15:15	100
Dibromofluoromethane (Surr)	109		75 - 123					04/20/22 15:15	100
Toluene-d8 (Surr)	97		80 - 120					04/20/22 15:15	100

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	100	U	100	76	ug/L		04/20/22 14:51	04/21/22 17:38	200
Acenaphthene	100	U	100	60	ug/L		04/20/22 14:51	04/21/22 17:38	200
Acenaphthylene	100	U	100	68	ug/L		04/20/22 14:51	04/21/22 17:38	200
Anthracene	100	U	100	78	ug/L		04/20/22 14:51	04/21/22 17:38	200
Benzo[a]anthracene	100	U	100	80	ug/L		04/20/22 14:51	04/21/22 17:38	200
Benzo[a]pyrene	100	U	100	66	ug/L		04/20/22 14:51	04/21/22 17:38	200
Benzo[b]fluoranthene	100	U	100	60	ug/L		04/20/22 14:51	04/21/22 17:38	200
Benzo[g,h,i]perylene	100	U	100	74	ug/L		04/20/22 14:51	04/21/22 17:38	200
Benzo[k]fluoranthene	100	U	100	17	ug/L		04/20/22 14:51	04/21/22 17:38	200
Chrysene	100	U	100	64	ug/L		04/20/22 14:51	04/21/22 17:38	200
Dibenz(a,h)anthracene	100	U	100	66	ug/L		04/20/22 14:51	04/21/22 17:38	200
Fluoranthene	100	U	100	72	ug/L		04/20/22 14:51	04/21/22 17:38	200
Fluorene	100	U	100	74	ug/L		04/20/22 14:51	04/21/22 17:38	200
Indeno[1,2,3-cd]pyrene	100	U	100	88	ug/L		04/20/22 14:51	04/21/22 17:38	200
Naphthalene	5700		100	84	ug/L		04/20/22 14:51	04/21/22 17:38	200
Phenanthrene	100	U	100	76	ug/L		04/20/22 14:51	04/21/22 17:38	200
Pyrene	100	U	100	72	ug/L		04/20/22 14:51	04/21/22 17:38	200
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	92		48 - 120				04/20/22 14:51	04/21/22 17:38	200
Nitrobenzene-d5 (Surr)	64		46 - 120				04/20/22 14:51	04/21/22 17:38	200
p-Terphenyl-d14 (Surr)	65		24 - 136				04/20/22 14:51	04/21/22 17:38	200

5/13/2022

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Client: GEI Consultants, Inc. Job ID: 480-196931-1 Project/Site: GEI, Mineral Springs SDG: 480-196931-1

Client Sample ID: MW-23

Lab Sample ID: 480-196931-7 Date Collected: 04/19/22 09:50 **Matrix: Ground Water**

Date Received: 04/19/22 14:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.41	ug/L			04/20/22 15:45	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			04/20/22 15:45	1
Toluene	1.0	U	1.0	0.51	ug/L			04/20/22 15:45	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			04/20/22 15:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			77 - 120					04/20/22 15:45	1
4-Bromofluorobenzene (Surr)	101		73 - 120					04/20/22 15:45	1
Dibromofluoromethane (Surr)	112		75 - 123					04/20/22 15:45	1
Toluene-d8 (Surr)	95		80 - 120					04/20/22 15:45	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	0.50	U	0.50	0.38	ug/L		04/20/22 14:51	04/21/22 18:05	1
Acenaphthene	0.50	U	0.50	0.30	ug/L		04/20/22 14:51	04/21/22 18:05	1
Acenaphthylene	0.50	U	0.50	0.34	ug/L		04/20/22 14:51	04/21/22 18:05	1
Anthracene	0.50	U	0.50	0.39	ug/L		04/20/22 14:51	04/21/22 18:05	1
Benzo[a]anthracene	0.50	U	0.50	0.40	ug/L		04/20/22 14:51	04/21/22 18:05	1
Benzo[a]pyrene	0.50	U	0.50	0.33	ug/L		04/20/22 14:51	04/21/22 18:05	1
Benzo[b]fluoranthene	0.31	J	0.50	0.30	ug/L		04/20/22 14:51	04/21/22 18:05	1
Benzo[g,h,i]perylene	0.50	U	0.50	0.37	ug/L		04/20/22 14:51	04/21/22 18:05	1
Benzo[k]fluoranthene	0.50	U	0.50	0.085	ug/L		04/20/22 14:51	04/21/22 18:05	1
Chrysene	0.50	U	0.50	0.32	ug/L		04/20/22 14:51	04/21/22 18:05	1
Dibenz(a,h)anthracene	0.50	U	0.50	0.33	ug/L		04/20/22 14:51	04/21/22 18:05	1
Fluoranthene	0.49	J	0.50	0.36	ug/L		04/20/22 14:51	04/21/22 18:05	1
Fluorene	0.50	U	0.50	0.37	ug/L		04/20/22 14:51	04/21/22 18:05	1
Indeno[1,2,3-cd]pyrene	0.50	U	0.50	0.44	ug/L		04/20/22 14:51	04/21/22 18:05	1
Naphthalene	0.79		0.50	0.42	ug/L		04/20/22 14:51	04/21/22 18:05	1
Phenanthrene	0.50	U	0.50	0.38	ug/L		04/20/22 14:51	04/21/22 18:05	1
Pyrene	0.39	J	0.50	0.36	ug/L		04/20/22 14:51	04/21/22 18:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	95		48 - 120				04/20/22 14:51	04/21/22 18:05	1
Nitrobenzene-d5 (Surr)	81		46 - 120				04/20/22 14:51	04/21/22 18:05	1
p-Terphenyl-d14 (Surr)	79		24 - 136				04/20/22 14:51	04/21/22 18:05	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	174		10.0	5.0	ug/L		04/26/22 16:30	04/27/22 09:24	1

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	174		10.0	5.0	ug/L		04/26/22 16:30	04/27/22 09:24	1
Cyanide, Free	9.0	В	5.0	2.3	ug/L		04/29/22 11:23	04/29/22 20:00	1
Cyanide, Free	6.4	H	5.0	2.3	ug/L		05/06/22 13:52	05/06/22 20:15	1

Eurofins Buffalo

Client: GEI Consultants, Inc. Job ID: 480-196931-1 Project/Site: GEI, Mineral Springs SDG: 480-196931-1

Client Sample ID: Duplicate

Lab Sample ID: 480-196931-8 Date Collected: 04/19/22 09:55 **Matrix: Ground Water**

Date Received: 04/19/22 14:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.41	ug/L			04/20/22 16:08	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			04/20/22 16:08	1
Toluene	1.0	U	1.0	0.51	ug/L			04/20/22 16:08	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			04/20/22 16:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		77 - 120					04/20/22 16:08	1
4-Bromofluorobenzene (Surr)	99		73 - 120					04/20/22 16:08	1
Dibromofluoromethane (Surr)	111		75 - 123					04/20/22 16:08	1
Toluene-d8 (Surr)	95		80 - 120					04/20/22 16:08	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	0.50	U	0.50	0.38	ug/L		04/20/22 14:51	04/21/22 18:33	1
Acenaphthene	0.50	U	0.50	0.30	ug/L		04/20/22 14:51	04/21/22 18:33	1
Acenaphthylene	0.50	U	0.50	0.34	ug/L		04/20/22 14:51	04/21/22 18:33	1
Anthracene	0.50	U	0.50	0.39	ug/L		04/20/22 14:51	04/21/22 18:33	1
Benzo[a]anthracene	0.50	U	0.50	0.40	ug/L		04/20/22 14:51	04/21/22 18:33	1
Benzo[a]pyrene	0.50	U	0.50	0.33	ug/L		04/20/22 14:51	04/21/22 18:33	1
Benzo[b]fluoranthene	0.50		0.50	0.30	ug/L		04/20/22 14:51	04/21/22 18:33	1
Benzo[g,h,i]perylene	0.50	U	0.50	0.37	ug/L		04/20/22 14:51	04/21/22 18:33	1
Benzo[k]fluoranthene	0.50	U	0.50	0.085	ug/L		04/20/22 14:51	04/21/22 18:33	1
Chrysene	0.36	J	0.50	0.32	ug/L		04/20/22 14:51	04/21/22 18:33	1
Dibenz(a,h)anthracene	0.50	U	0.50	0.33	ug/L		04/20/22 14:51	04/21/22 18:33	1
Fluoranthene	0.74		0.50	0.36	ug/L		04/20/22 14:51	04/21/22 18:33	1
Fluorene	0.50	U	0.50	0.37	ug/L		04/20/22 14:51	04/21/22 18:33	1
Indeno[1,2,3-cd]pyrene	0.50	U	0.50	0.44	ug/L		04/20/22 14:51	04/21/22 18:33	1
Naphthalene	0.50	U	0.50	0.42	ug/L		04/20/22 14:51	04/21/22 18:33	1
Phenanthrene	0.38	J	0.50	0.38	ug/L		04/20/22 14:51	04/21/22 18:33	1
Pyrene	0.63		0.50	0.36	ug/L		04/20/22 14:51	04/21/22 18:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	98		48 - 120				04/20/22 14:51	04/21/22 18:33	1
Nitrobenzene-d5 (Surr)	82		46 - 120				04/20/22 14:51	04/21/22 18:33	1
p-Terphenyl-d14 (Surr)	74		24 - 136				04/20/22 14:51	04/21/22 18:33	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cuppide Total	404		10.0	5.0	ua/l		04/26/22 16:20	04/27/22 00:28	- 1

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	191		10.0	5.0	ug/L		04/26/22 16:30	04/27/22 09:28	1
Cyanide, Free	9.0	В	5.0	2.3	ug/L		04/29/22 11:23	04/29/22 20:00	1
Cyanide, Free	6.0	Н	5.0	2.3	ug/L		05/06/22 13:52	05/06/22 20:15	1

Client: GEI Consultants, Inc.

Project/Site: GEI, Mineral Springs

Job ID: 480-196931-1

SDG: 480-196931-1

Client Sample ID: MW-22 Lab Sample ID: 480-196931-9

Date Collected: 04/19/22 12:25

Date Received: 04/19/22 14:20

Matrix: Ground Water

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	614		20.0	10.0	ug/L		04/27/22 10:45	04/27/22 15:07	2
Cyanide, Free	16.4	В	5.0	2.3	ug/L		04/29/22 11:23	04/29/22 20:00	1
Cyanide, Free	15.3	H	5.0	2.3	ug/L		05/06/22 13:52	05/06/22 20:15	1

5/13/2022

Client: GEI Consultants, Inc. Job ID: 480-196931-1 Project/Site: GEI, Mineral Springs SDG: 480-196931-1

Client Sample ID: MW-07

Lab Sample ID: 480-196931-10 Date Collected: 04/19/22 09:15 **Matrix: Ground Water**

Date Received: 04/19/22 14:20

Method: 8260C - Volatile O	rganic Compo	unds by G	C/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	420		40	16	ug/L			04/20/22 16:31	40
Ethylbenzene	910		40	30	ug/L			04/20/22 16:31	40
Toluene	40	U	40	20	ug/L			04/20/22 16:31	40
Xylenes, Total	410		80	26	ug/L			04/20/22 16:31	40
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		77 - 120					04/20/22 16:31	40
4-Bromofluorobenzene (Surr)	100		73 - 120					04/20/22 16:31	40
Dibromofluoromethane (Surr)	109		75 - 123					04/20/22 16:31	40
Toluene-d8 (Surr)	99		80 - 120					04/20/22 16:31	40

-	33		00 - 120					0 11 20 22 10.01	70
Method: 8270D_LL_PAH	- Semivolatile O	rganic Cor	npounds (GC	C/MS) Lo	w level	PAH			
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	190		50	38	ug/L		04/20/22 14:51	04/21/22 19:01	100
Acenaphthene	110		50	30	ug/L		04/20/22 14:51	04/21/22 19:01	100
Acenaphthylene	50	U	50	34	ug/L		04/20/22 14:51	04/21/22 19:01	100
Anthracene	50	U	50	39	ug/L		04/20/22 14:51	04/21/22 19:01	100
Benzo[a]anthracene	50	U	50	40	ug/L		04/20/22 14:51	04/21/22 19:01	100
Benzo[a]pyrene	50	U	50	33	ug/L		04/20/22 14:51	04/21/22 19:01	100
Benzo[b]fluoranthene	50	U	50	30	ug/L		04/20/22 14:51	04/21/22 19:01	100
Benzo[g,h,i]perylene	50	U	50	37	ug/L		04/20/22 14:51	04/21/22 19:01	100
Benzo[k]fluoranthene	50	U	50	8.5	ug/L		04/20/22 14:51	04/21/22 19:01	100
Chrysene	50	U	50	32	ug/L		04/20/22 14:51	04/21/22 19:01	100
Dibenz(a,h)anthracene	50	U	50		ug/L		04/20/22 14:51	04/21/22 19:01	100
Fluoranthene	50	U	50	36	ug/L		04/20/22 14:51	04/21/22 19:01	100
Fluorene	50	Ü	50	37	ug/L		04/20/22 14:51	04/21/22 19:01	100
Indeno[1,2,3-cd]pyrene	50	U	50		ug/L		04/20/22 14:51	04/21/22 19:01	100
Naphthalene	2100		50		ug/L		04/20/22 14:51	04/21/22 19:01	100
Phenanthrene	50	Ü	50		ug/L		04/20/22 14:51	04/21/22 19:01	100
Pyrene	50	U	50		ug/L		04/20/22 14:51	04/21/22 19:01	100
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	107		48 - 120				04/20/22 14:51	04/21/22 19:01	100
Nitrobenzene-d5 (Surr)	65		46 - 120				04/20/22 14:51	04/21/22 19:01	100
p-Terphenyl-d14 (Surr)	53		24 - 136				04/20/22 14:51	04/21/22 19:01	100

Client: GEI Consultants, Inc. Job ID: 480-196931-1 Project/Site: GEI, Mineral Springs SDG: 480-196931-1

Client Sample ID: MW-10

Date Collected: 04/19/22 09:10 Date Received: 04/19/22 14:20

Lab Sample ID: 480-196931-11

Matrix: Ground Water

Method: 8260C - Volatile Org	ganic Compo	unds by G	C/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.41	ug/L			04/20/22 16:55	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			04/20/22 16:55	1
Toluene	1.0	U	1.0	0.51	ug/L			04/20/22 16:55	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			04/20/22 16:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		77 - 120				· ·	04/20/22 16:55	1
4-Bromofluorobenzene (Surr)	101		73 - 120					04/20/22 16:55	1
Dibromofluoromethane (Surr)	113		75 - 123					04/20/22 16:55	1
Toluene-d8 (Surr)	97		80 - 120					04/20/22 16:55	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	0.50	U	0.50	0.38	ug/L		04/20/22 14:51	04/21/22 19:29	1
Acenaphthene	0.50	U	0.50	0.30	ug/L		04/20/22 14:51	04/21/22 19:29	1
Acenaphthylene	0.50	U	0.50	0.34	ug/L		04/20/22 14:51	04/21/22 19:29	1
Anthracene	0.50	U	0.50	0.39	ug/L		04/20/22 14:51	04/21/22 19:29	1
Benzo[a]anthracene	0.50	U	0.50	0.40	ug/L		04/20/22 14:51	04/21/22 19:29	1
Benzo[a]pyrene	0.50	U	0.50	0.33	ug/L		04/20/22 14:51	04/21/22 19:29	1
Benzo[b]fluoranthene	0.50	U	0.50	0.30	ug/L		04/20/22 14:51	04/21/22 19:29	1
Benzo[g,h,i]perylene	0.50	U	0.50	0.37	ug/L		04/20/22 14:51	04/21/22 19:29	1
Benzo[k]fluoranthene	0.50	U	0.50	0.085	ug/L		04/20/22 14:51	04/21/22 19:29	1
Chrysene	0.50	U	0.50	0.32	ug/L		04/20/22 14:51	04/21/22 19:29	1
Dibenz(a,h)anthracene	0.50	U	0.50	0.33	ug/L		04/20/22 14:51	04/21/22 19:29	1
Fluoranthene	0.50	U	0.50	0.36	ug/L		04/20/22 14:51	04/21/22 19:29	1
Fluorene	0.50	U	0.50	0.37	ug/L		04/20/22 14:51	04/21/22 19:29	1
Indeno[1,2,3-cd]pyrene	0.50	U	0.50	0.44	ug/L		04/20/22 14:51	04/21/22 19:29	1
Naphthalene	1.3		0.50	0.42	ug/L		04/20/22 14:51	04/21/22 19:29	1
Phenanthrene	0.50	U	0.50	0.38	ug/L		04/20/22 14:51	04/21/22 19:29	1
Pyrene	0.50	U	0.50	0.36	ug/L		04/20/22 14:51	04/21/22 19:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	104		48 - 120				04/20/22 14:51	04/21/22 19:29	1
Nitrobenzene-d5 (Surr)	86		46 - 120				04/20/22 14:51	04/21/22 19:29	1
p-Terphenyl-d14 (Surr)	84		24 - 136				04/20/22 14:51	04/21/22 19:29	1

Client: GEI Consultants, Inc. Job ID: 480-196931-1 Project/Site: GEI, Mineral Springs SDG: 480-196931-1

Client Sample ID: TRIP BLANK

Date Received: 04/19/22 14:20

Lab Sample ID: 480-196931-12 Date Collected: 04/19/22 00:00

Matrix: Water

Method: 8260C - Volatile O	rganic Compo	unds by G	C/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.41	ug/L			04/20/22 17:18	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			04/20/22 17:18	1
Toluene	1.0	U	1.0	0.51	ug/L			04/20/22 17:18	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			04/20/22 17:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		77 - 120					04/20/22 17:18	1
4-Bromofluorobenzene (Surr)	102		73 - 120					04/20/22 17:18	1
Dibromofluoromethane (Surr)	115		75 - 123					04/20/22 17:18	1
Toluene-d8 (Surr)	98		80 - 120					04/20/22 17:18	1

Client: GEI Consultants, Inc. Job ID: 480-196931-1 Project/Site: GEI, Mineral Springs SDG: 480-196931-1

Client Sample ID: EQUIPMENT BLANK

Date Collected: 04/19/22 10:30 Date Received: 04/19/22 14:20

Lab Sample ID: 480-196931-13 **Matrix: Water**

Method: 8260C - Volatile O	rganic Compo	unds by G	C/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.41	ug/L			04/20/22 17:41	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			04/20/22 17:41	1
Toluene	1.0	U	1.0	0.51	ug/L			04/20/22 17:41	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			04/20/22 17:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		77 - 120					04/20/22 17:41	1
4-Bromofluorobenzene (Surr)	100		73 - 120					04/20/22 17:41	1
Dibromofluoromethane (Surr)	113		75 - 123					04/20/22 17:41	1
Toluene-d8 (Surr)	97		80 - 120					04/20/22 17:41	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	0.50	U	0.50	0.38	ug/L		04/20/22 14:51	04/21/22 19:57	1
Acenaphthene	0.50	U	0.50	0.30	ug/L		04/20/22 14:51	04/21/22 19:57	1
Acenaphthylene	0.50	U	0.50	0.34	ug/L		04/20/22 14:51	04/21/22 19:57	1
Anthracene	0.50	U	0.50	0.39	ug/L		04/20/22 14:51	04/21/22 19:57	1
Benzo[a]anthracene	0.50	U	0.50	0.40	ug/L		04/20/22 14:51	04/21/22 19:57	1
Benzo[a]pyrene	0.50	U	0.50	0.33	ug/L		04/20/22 14:51	04/21/22 19:57	1
Benzo[b]fluoranthene	0.50	U	0.50	0.30	ug/L		04/20/22 14:51	04/21/22 19:57	1
Benzo[g,h,i]perylene	0.50	U	0.50	0.37	ug/L		04/20/22 14:51	04/21/22 19:57	1
Benzo[k]fluoranthene	0.50	U	0.50	0.085	ug/L		04/20/22 14:51	04/21/22 19:57	1
Chrysene	0.50	U	0.50	0.32	ug/L		04/20/22 14:51	04/21/22 19:57	1
Dibenz(a,h)anthracene	0.50	U	0.50	0.33	ug/L		04/20/22 14:51	04/21/22 19:57	1
Fluoranthene	0.50	U	0.50	0.36	ug/L		04/20/22 14:51	04/21/22 19:57	1
Fluorene	0.50	U	0.50	0.37	ug/L		04/20/22 14:51	04/21/22 19:57	1
Indeno[1,2,3-cd]pyrene	0.50	U	0.50	0.44	ug/L		04/20/22 14:51	04/21/22 19:57	1
Naphthalene	0.50	U	0.50	0.42	ug/L		04/20/22 14:51	04/21/22 19:57	1
Phenanthrene	0.50	U	0.50	0.38	ug/L		04/20/22 14:51	04/21/22 19:57	1
Pyrene	0.50	U	0.50	0.36	ug/L		04/20/22 14:51	04/21/22 19:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	101		48 - 120				04/20/22 14:51	04/21/22 19:57	1
Nitrobenzene-d5 (Surr)	85		46 - 120				04/20/22 14:51	04/21/22 19:57	1
p-Terphenyl-d14 (Surr)	100		24 - 136				04/20/22 14:51	04/21/22 19:57	1

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	5.6	J	10.0	5.0	ug/L		04/27/22 10:45	04/27/22 13:59	1
Cyanide, Free	5.6	В	5.0	2.3	ug/L		04/29/22 11:23	04/29/22 20:00	1
Cyanide, Free	5.0	UH	5.0	2.3	ug/L		05/06/22 13:52	05/06/22 20:15	1

Client: GEI Consultants, Inc. Job ID: 480-196931-1 Project/Site: GEI, Mineral Springs SDG: 480-196931-1

Client Sample ID: MW-20 Lab Sample ID: 480-196985-1

Date Collected: 04/20/22 09:20 **Matrix: Water** Date Received: 04/20/22 12:45

General Chemistry Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	754		20.0	10.0	ug/L		04/27/22 10:45	04/27/22 15:08	2
Cyanide, Free	9.1	H	5.0	2.3	ug/L		05/11/22 14:49	05/11/22 21:15	1

Client: GEI Consultants, Inc. Job ID: 480-196931-1 Project/Site: GEI, Mineral Springs SDG: 480-196931-1

Client Sample ID: MW-21 Lab Sample ID: 480-196985-2

Matrix: Water

Date Collected: 04/20/22 10:00 Date Received: 04/20/22 12:45

General Chemistry Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	343		10.0	5.0	ug/L		04/27/22 10:45	04/27/22 14:07	1
Cyanide, Free	3.4	JH	5.0	2.3	ug/L		05/11/22 14:49	05/11/22 21:15	1

Client: GEI Consultants, Inc. Job ID: 480-196931-1 Project/Site: GEI, Mineral Springs SDG: 480-196931-1

Client Sample ID: MW-13

Lab Sample ID: 480-196985-3 Date Collected: 04/20/22 10:30 **Matrix: Water** Date Received: 04/20/22 12:45

Method: 8260C - Volatile O	rganic Compo	unds by G	C/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.41	ug/L			04/21/22 19:30	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			04/21/22 19:30	1
Toluene	1.0	U	1.0	0.51	ug/L			04/21/22 19:30	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			04/21/22 19:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		77 - 120					04/21/22 19:30	1
4-Bromofluorobenzene (Surr)	101		73 - 120					04/21/22 19:30	1
Dibromofluoromethane (Surr)	85		75 - 123					04/21/22 19:30	1
Toluene-d8 (Surr)	96		80 - 120					04/21/22 19:30	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	0.50	U	0.50	0.38	ug/L		04/20/22 14:51	04/21/22 20:24	1
Acenaphthene	0.50	U	0.50	0.30	ug/L		04/20/22 14:51	04/21/22 20:24	1
Acenaphthylene	0.50	U	0.50	0.34	ug/L		04/20/22 14:51	04/21/22 20:24	1
Anthracene	0.50	U	0.50	0.39	ug/L		04/20/22 14:51	04/21/22 20:24	1
Benzo[a]anthracene	0.50	U	0.50	0.40	ug/L		04/20/22 14:51	04/21/22 20:24	1
Benzo[a]pyrene	0.50	U	0.50	0.33	ug/L		04/20/22 14:51	04/21/22 20:24	1
Benzo[b]fluoranthene	0.50	U	0.50	0.30	ug/L		04/20/22 14:51	04/21/22 20:24	1
Benzo[g,h,i]perylene	0.50	U	0.50	0.37	ug/L		04/20/22 14:51	04/21/22 20:24	1
Benzo[k]fluoranthene	0.50	U	0.50	0.085	ug/L		04/20/22 14:51	04/21/22 20:24	1
Chrysene	0.50	U	0.50	0.32	ug/L		04/20/22 14:51	04/21/22 20:24	1
Dibenz(a,h)anthracene	0.50	U	0.50	0.33	ug/L		04/20/22 14:51	04/21/22 20:24	1
Fluoranthene	0.50	U	0.50	0.36	ug/L		04/20/22 14:51	04/21/22 20:24	1
Fluorene	0.50	U	0.50	0.37	ug/L		04/20/22 14:51	04/21/22 20:24	1
Indeno[1,2,3-cd]pyrene	0.50	U	0.50	0.44	ug/L		04/20/22 14:51	04/21/22 20:24	1
Naphthalene	0.50	U	0.50	0.42	ug/L		04/20/22 14:51	04/21/22 20:24	1
Phenanthrene	0.50	U	0.50	0.38	ug/L		04/20/22 14:51	04/21/22 20:24	1
Pyrene	0.50	U	0.50	0.36	ug/L		04/20/22 14:51	04/21/22 20:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	65		48 - 120				04/20/22 14:51	04/21/22 20:24	1
Nitrobenzene-d5 (Surr)	56		46 - 120				04/20/22 14:51	04/21/22 20:24	1
p-Terphenyl-d14 (Surr)	73		24 - 136				04/20/22 14:51	04/21/22 20:24	1

General Chemistry Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	10.0	U	10.0	5.0	ug/L		04/27/22 10:45	04/27/22 14:08	1
Cyanide, Free	5.0	UH	5.0	2.3	ug/L		05/11/22 14:49	05/11/22 21:15	1

Client: GEI Consultants, Inc. Job ID: 480-196931-1 Project/Site: GEI, Mineral Springs SDG: 480-196931-1

Client Sample ID: MW-17

Date Collected: 04/20/22 11:15 Date Received: 04/20/22 12:45

Lab Sample ID: 480-196985-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	2.0	U	2.0	0.82	ug/L			04/21/22 19:53	2
Ethylbenzene	2.0	U	2.0	1.5	ug/L			04/21/22 19:53	2
Toluene	2.0	U	2.0	1.0	ug/L			04/21/22 19:53	2
Xylenes, Total	4.0	U	4.0	1.3	ug/L			04/21/22 19:53	2
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 120					04/21/22 19:53	2
4-Bromofluorobenzene (Surr)	95		73 - 120					04/21/22 19:53	2
Dibromofluoromethane (Surr)	92		75 - 123					04/21/22 19:53	2
Toluene-d8 (Surr)	95		80 - 120					04/21/22 19:53	2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	2.5	U	2.5	1.9	ug/L		04/20/22 14:51	04/21/22 20:52	5
Acenaphthene	2.5	U	2.5	1.5	ug/L		04/20/22 14:51	04/21/22 20:52	5
Acenaphthylene	2.5	U	2.5	1.7	ug/L		04/20/22 14:51	04/21/22 20:52	5
Anthracene	2.5	U	2.5	2.0	ug/L		04/20/22 14:51	04/21/22 20:52	5
Benzo[a]anthracene	2.5	U	2.5	2.0	ug/L		04/20/22 14:51	04/21/22 20:52	5
Benzo[a]pyrene	2.5	U	2.5	1.7	ug/L		04/20/22 14:51	04/21/22 20:52	5
Benzo[b]fluoranthene	2.5	U	2.5	1.5	ug/L		04/20/22 14:51	04/21/22 20:52	5
Benzo[g,h,i]perylene	2.5	U	2.5	1.9	ug/L		04/20/22 14:51	04/21/22 20:52	5
Benzo[k]fluoranthene	2.5	U	2.5	0.43	ug/L		04/20/22 14:51	04/21/22 20:52	5
Chrysene	2.5	U	2.5	1.6	ug/L		04/20/22 14:51	04/21/22 20:52	5
Dibenz(a,h)anthracene	2.5	U	2.5	1.7	ug/L		04/20/22 14:51	04/21/22 20:52	5
Fluoranthene	2.5	U	2.5	1.8	ug/L		04/20/22 14:51	04/21/22 20:52	5
Fluorene	2.5	U	2.5	1.9	ug/L		04/20/22 14:51	04/21/22 20:52	5
Indeno[1,2,3-cd]pyrene	2.5	U	2.5	2.2	ug/L		04/20/22 14:51	04/21/22 20:52	5
Naphthalene	2.5	U	2.5	2.1	ug/L		04/20/22 14:51	04/21/22 20:52	5
Phenanthrene	2.5	U	2.5	1.9	ug/L		04/20/22 14:51	04/21/22 20:52	5
Pyrene	2.5	U	2.5	1.8	ug/L		04/20/22 14:51	04/21/22 20:52	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	68		48 - 120				04/20/22 14:51	04/21/22 20:52	5
Nitrobenzene-d5 (Surr)	49		46 - 120				04/20/22 14:51	04/21/22 20:52	5
p-Terphenyl-d14 (Surr)	69		24 - 136				04/20/22 14:51	04/21/22 20:52	5
General Chemistry									
Analyte	Result	Qualifier	RI	MDI	Unit	D	Prepared	Analyzed	Dil Fac

General Chemistry Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	73.9		10.0	5.0	ug/L		04/27/22 10:45	04/27/22 14:09	1
Cyanide, Free	5.0	UH	5.0	2.3	ug/L		05/11/22 14:49	05/11/22 21:15	1

Client: GEI Consultants, Inc. Job ID: 480-196931-1 Project/Site: GEI, Mineral Springs SDG: 480-196931-1

Client Sample ID: MW-16 Lab Sample ID: 480-196985-5

Date Collected: 04/20/22 00:00 **Matrix: Water**

Date Received: 04/20/22 12:45

General Chemistry Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allalyte		Qualifier _			Oilit		Trepared	Allalyzea	Dil i ac
Cyanide, Total	4940		200	100	ug/L		04/27/22 10:45	04/27/22 15:48	20
Cyanide, Free	46.4	H	5.0	2.3	ug/L		05/11/22 14:49	05/11/22 21:15	1

Client: GEI Consultants, Inc. Job ID: 480-196931-1 Project/Site: GEI, Mineral Springs SDG: 480-196931-1

Client Sample ID: TRIP BLANK

Date Received: 04/20/22 12:45

Lab Sample ID: 480-196985-6 Date Collected: 04/20/22 00:00

Matrix: Water

Method: 8260C - Volatile O	rganic Compo	unds by G	C/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.41	ug/L			04/21/22 20:16	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			04/21/22 20:16	1
Toluene	1.0	U	1.0	0.51	ug/L			04/21/22 20:16	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			04/21/22 20:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		77 - 120					04/21/22 20:16	1
4-Bromofluorobenzene (Surr)	98		73 - 120					04/21/22 20:16	1
Dibromofluoromethane (Surr)	90		75 - 123					04/21/22 20:16	1
Toluene-d8 (Surr)	95		80 - 120					04/21/22 20:16	1

Surrogate Summary

Client: GEI Consultants, Inc. Job ID: 480-196931-1 Project/Site: GEI, Mineral Springs SDG: 480-196931-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Ground Water Prep Type: Total/NA

_ 			Pe	ercent Surre	ogate Reco
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(75-123)	(80-120)
480-196931-1	MW-11A	102	102	110	97
480-196931-6	MW-19	102	98	109	97
480-196931-7	MW-23	101	101	112	95
480-196931-8	Duplicate	100	99	111	95
480-196931-10	MW-07	106	100	109	99
480-196931-11	MW-10	107	101	113	97
Surrogate Legend					

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Surface Water Prep Type: Total/NA

			Percent Surrogate Recovery (
		DCA	BFB	DBFM	TOL				
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(75-123)	(80-120)				
480-196931-2	SW-01	106	102	111	99				
480-196931-3	SW-02	104	99	111	96				
480-196931-3		104	99	111	96				

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water Prep Type: Total/NA

			Pe	rcent Surre	ogate Reco
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(75-123)	(80-120)
480-196931-12	TRIP BLANK	106	102	115	98
480-196931-13	EQUIPMENT BLANK	106	100	113	97
480-196985-3	MW-13	100	101	85	96
480-196985-4	MW-17	102	95	92	95
480-196985-6	TRIP BLANK	101	98	90	95
LCS 480-622381/5	Lab Control Sample	103	98	109	100
LCS 480-622584/6	Lab Control Sample	103	98	87	94
LCSD 480-622584/7	Lab Control Sample Dup	107	98	91	95
MB 480-622381/7	Method Blank	104	101	108	98
MB 480-622584/9	Method Blank	102	98	88	100

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

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Client: GEI Consultants, Inc.

Job ID: 480-196931-1 Project/Site: GEI, Mineral Springs SDG: 480-196931-1

Method: 8270D LL PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Matrix: Ground Water Prep Type: Total/NA

			Pe	ercent Surro
		FBP	NBZ	TPHd14
Lab Sample ID	Client Sample ID	(48-120)	(46-120)	(24-136)
480-196931-1	MW-11A	93	79	72
480-196931-6	MW-19	92	64	65
480-196931-7	MW-23	95	81	79
480-196931-8	Duplicate	98	82	74
480-196931-10	MW-07	107	65	53
480-196931-11	MW-10	104	86	84

FBP = 2-Fluorobiphenyl

NBZ = Nitrobenzene-d5 (Surr)

TPHd14 = p-Terphenyl-d14 (Surr)

Method: 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Matrix: Surface Water Prep Type: Total/NA

			Percent Surrogate Recovery (Acceptance Limits)						
		FBP	NBZ	TPHd14					
Lab Sample ID	Client Sample ID	(48-120)	(46-120)	(24-136)					
480-196931-2	SW-01	94	77	80					
480-196931-3	SW-02	90	76	81					

FBP = 2-Fluorobiphenyl

NBZ = Nitrobenzene-d5 (Surr)

TPHd14 = p-Terphenyl-d14 (Surr)

Method: 8270D LL PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Matrix: Water Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)							
		FBP	NBZ	TPHd14					
Lab Sample ID	Client Sample ID	(48-120)	(46-120)	(24-136)					
480-196931-13	EQUIPMENT BLANK	101	85	100					
480-196985-3	MW-13	65	56	73					
480-196985-4	MW-17	68	49	69					
LCS 480-622501/2-A	Lab Control Sample	89	78	83					
LCSD 480-622501/3-A	Lab Control Sample Dup	96	83	90					
MB 480-622501/1-A	Method Blank	87	74	96					

Surrogate Legend

FBP = 2-Fluorobiphenyl

NBZ = Nitrobenzene-d5 (Surr)

TPHd14 = p-Terphenyl-d14 (Surr)

QC Sample Results

Client: GEI Consultants, Inc. Job ID: 480-196931-1 Project/Site: GEI, Mineral Springs SDG: 480-196931-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-622381/7

Matrix: Water

Analysis Batch: 622381

Client Samp	le ID:	Meth	od Blank	
	Prep	Type:	Total/NA	

MB MB Result Qualifier RL **MDL** Unit Dil Fac Analyte D Prepared Analyzed Benzene 1.0 U 1.0 0.41 ug/L 04/20/22 11:10 Ethylbenzene 1.0 U 1.0 0.74 ug/L 04/20/22 11:10 04/20/22 11:10 Toluene 1.0 U 1.0 0.51 ug/L 2.0 U 0.66 ug/L 04/20/22 11:10 Xylenes, Total 2.0

MB MB Dil Fac Surrogate Qualifier Limits Prepared %Recovery Analyzed 1,2-Dichloroethane-d4 (Surr) 104 77 - 120 04/20/22 11:10 101 4-Bromofluorobenzene (Surr) 73 - 120 04/20/22 11:10 Dibromofluoromethane (Surr) 108 75 - 123 04/20/22 11:10 Toluene-d8 (Surr) 98 80 - 120 04/20/22 11:10

Lab Sample ID: LCS 480-622381/5

Matrix: Water

Analysis Batch: 622381

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits Benzene 25.0 22.7 ug/L 91 71 - 124 Ethylbenzene 25.0 23.7 95 77 - 123 ug/L 22.6 90 80 - 122 Toluene 25.0 ug/L 93 50.0 46.5 76 - 122 Xylenes, Total ug/L

LCS LCS Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 103 77 - 120 73 - 120 4-Bromofluorobenzene (Surr) 98 109 75 - 123 Dibromofluoromethane (Surr) 80 - 120 Toluene-d8 (Surr) 100

Lab Sample ID: MB 480-622584/9

Matrix: Water

Analysis Batch: 622584

Client Sample ID: Method Blank

Prep Type: Total/NA

MB MB Dil Fac **Analyte** Result Qualifier RL **MDL** Unit D Prepared Analyzed Benzene 1.0 U 1.0 0.41 ug/L 04/21/22 12:40 Ethylbenzene 1.0 U 1.0 0.74 ug/L 04/21/22 12:40 04/21/22 12:40 Toluene 1.0 U 1.0 0.51 ug/L 2.0 U 2.0 04/21/22 12:40 Xylenes, Total 0.66 ug/L

MB MB %Recovery Surrogate Qualifier Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 102 77 - 120 04/21/22 12:40 4-Bromofluorobenzene (Surr) 98 73 - 120 04/21/22 12:40 Dibromofluoromethane (Surr) 88 75 - 123 04/21/22 12:40 Toluene-d8 (Surr) 80 - 120 04/21/22 12:40 100

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QC Sample Results

Client: GEI Consultants, Inc. Job ID: 480-196931-1 SDG: 480-196931-1 Project/Site: GEI, Mineral Springs

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-622584/6

Matrix: Water

Analysis Batch: 622584

Client Sample ID: Lab Control Sample Prep Type: Total/NA

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	25.0	24.6		ug/L		98	71 - 124	
Ethylbenzene	25.0	26.8		ug/L		107	77 - 123	
Toluene	25.0	25.3		ug/L		101	80 - 122	
Xylenes, Total	50.0	49.0		ug/L		98	76 - 122	

LCS LCS Surrogate %Recovery Qualifier Limits 77 - 120 1,2-Dichloroethane-d4 (Surr) 103 98 73 - 120 4-Bromofluorobenzene (Surr) Dibromofluoromethane (Surr) 87 75 - 123 Toluene-d8 (Surr) 80 - 120

Lab Sample ID: LCSD 480-622584/7 **Client Sample ID: Lab Control Sample Dup Matrix: Water Prep Type: Total/NA**

Analysis Batch: 622584

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	25.0	25.3		ug/L		101	71 - 124	3	13
Ethylbenzene	25.0	26.5		ug/L		106	77 - 123	1	15
Toluene	25.0	24.9		ug/L		100	80 - 122	2	15
Xylenes, Total	50.0	49.4		ug/L		99	76 - 122	1	16

LCSD LCSD Surrogate %Recovery Qualifier Limits 107 1,2-Dichloroethane-d4 (Surr) 77 - 120 4-Bromofluorobenzene (Surr) 98 73 - 120 Dibromofluoromethane (Surr) 91 75 - 123 95 Toluene-d8 (Surr) 80 - 120

Method: 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Lab Sample ID: MB 480-622501/1-A Client Sample ID: Method Blank **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 622654

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	0.50	U	0.50	0.38	ug/L		04/20/22 14:51	04/21/22 14:52	1
Acenaphthene	0.50	U	0.50	0.30	ug/L		04/20/22 14:51	04/21/22 14:52	1
Acenaphthylene	0.50	U	0.50	0.34	ug/L		04/20/22 14:51	04/21/22 14:52	1
Anthracene	0.50	U	0.50	0.39	ug/L		04/20/22 14:51	04/21/22 14:52	1
Benzo[a]anthracene	0.50	U	0.50	0.40	ug/L		04/20/22 14:51	04/21/22 14:52	1
Benzo[a]pyrene	0.50	U	0.50	0.33	ug/L		04/20/22 14:51	04/21/22 14:52	1
Benzo[b]fluoranthene	0.50	U	0.50	0.30	ug/L		04/20/22 14:51	04/21/22 14:52	1
Benzo[g,h,i]perylene	0.50	U	0.50	0.37	ug/L		04/20/22 14:51	04/21/22 14:52	1
Benzo[k]fluoranthene	0.50	U	0.50	0.085	ug/L		04/20/22 14:51	04/21/22 14:52	1
Chrysene	0.50	U	0.50	0.32	ug/L		04/20/22 14:51	04/21/22 14:52	1
Dibenz(a,h)anthracene	0.50	U	0.50	0.33	ug/L		04/20/22 14:51	04/21/22 14:52	1
Fluoranthene	0.50	U	0.50	0.36	ug/L		04/20/22 14:51	04/21/22 14:52	1
Fluorene	0.50	U	0.50	0.37	ug/L		04/20/22 14:51	04/21/22 14:52	1
Indeno[1,2,3-cd]pyrene	0.50	U	0.50	0.44	ug/L		04/20/22 14:51	04/21/22 14:52	1

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Prep Batch: 622501

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Client: GEI Consultants, Inc. Job ID: 480-196931-1 Project/Site: GEI, Mineral Springs SDG: 480-196931-1

Method: 8270D LL PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH (Continued)

Lab Sample ID: MB 480-622501/1-A

Matrix: Water

Analysis Batch: 622654

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 622501

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	0.50	U	0.50	0.42	ug/L		04/20/22 14:51	04/21/22 14:52	1
Phenanthrene	0.50	U	0.50	0.38	ug/L		04/20/22 14:51	04/21/22 14:52	1
Pyrene	0.50	U	0.50	0.36	ug/L		04/20/22 14:51	04/21/22 14:52	1

MB MB

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	87		48 - 120	04/20/22 14:51	04/21/22 14:52	1
Nitrobenzene-d5 (Surr)	74		46 - 120	04/20/22 14:51	04/21/22 14:52	1
p-Terphenyl-d14 (Surr)	96		24 - 136	04/20/22 14:51	04/21/22 14:52	1

Lab Sample ID: LCS 480-622501/2-A

Matrix: Water

Analysis Batch: 622654

Client Sample ID: Lab Control Sample

Prep Type: Total/NA **Prep Batch: 622501**

Analysis Batem 022004	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
2-Methylnaphthalene	32.0	27.7		ug/L		87	48 - 120
Acenaphthene	32.0	29.8		ug/L		93	60 - 120
Acenaphthylene	32.0	29.2		ug/L		91	63 - 120
Anthracene	32.0	32.9		ug/L		103	69 - 131
Benzo[a]anthracene	32.0	30.4		ug/L		95	62 - 142
Benzo[a]pyrene	32.0	24.4		ug/L		76	46 - 156
Benzo[b]fluoranthene	32.0	26.7		ug/L		84	50 - 149
Benzo[g,h,i]perylene	32.0	25.8		ug/L		81	34 - 189
Benzo[k]fluoranthene	32.0	27.1		ug/L		85	47 - 147
Chrysene	32.0	29.0		ug/L		91	69 - 140
Dibenz(a,h)anthracene	32.0	25.7		ug/L		80	35 - 176
Fluoranthene	32.0	33.8		ug/L		106	67 - 133
Fluorene	32.0	31.0		ug/L		97	66 - 129
Indeno[1,2,3-cd]pyrene	32.0	25.8		ug/L		81	57 ₋ 161
Naphthalene	32.0	28.7		ug/L		90	48 - 120
Phenanthrene	32.0	32.3		ug/L		101	67 - 130
Pyrene	32.0	33.0		ug/L		103	58 - 136

LCS LCS

Surrogate	%Recovery Qualifie	r Limits
2-Fluorobiphenyl	89	48 - 120
Nitrobenzene-d5 (Surr)	78	46 - 120
p-Terphenvl-d14 (Surr)	83	24 - 136

Lab Sample ID: LCSD 480-622501/3-A

Matrix: Water

Analysis Batch: 622654

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA **Prep Batch: 622501**

LCSD LCSD RPD Spike %Rec Result Qualifier Unit Added %Rec Limits **RPD** Limit 2-Methylnaphthalene 32.0 29.0 91 48 - 120 21 ug/L Acenaphthene 32.0 32.0 ug/L 100 60 - 120 24 Acenaphthylene 32.0 31.7 ug/L 99 63 - 120 18 Anthracene 32.0 34.1 ug/L 107 69 - 131 15 Benzo[a]anthracene 32.0 31.3 ug/L 98 62 - 142 15 32.0 27.0 84 46 - 156 15 Benzo[a]pyrene ug/L 10

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Client: GEI Consultants, Inc. Job ID: 480-196931-1 SDG: 480-196931-1 Project/Site: GEI, Mineral Springs

Method: 8270D LL PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH (Continued)

Lab Sample ID: LCSD 480-622501/3-A	Client Sample ID: Lab Control Sample Dup
Matrix: Water	Prep Type: Total/NA
Analysis Batch: 622654	Prep Batch: 622501

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzo[b]fluoranthene	32.0	30.5		ug/L		95	50 - 149	13	15
Benzo[g,h,i]perylene	32.0	28.3		ug/L		89	34 - 189	9	15
Benzo[k]fluoranthene	32.0	28.0		ug/L		88	47 - 147	3	22
Chrysene	32.0	30.6		ug/L		96	69 - 140	5	15
Dibenz(a,h)anthracene	32.0	28.1		ug/L		88	35 - 176	9	15
Fluoranthene	32.0	34.7		ug/L		108	67 - 133	2	15
Fluorene	32.0	33.1		ug/L		103	66 - 129	7	15
Indeno[1,2,3-cd]pyrene	32.0	28.0		ug/L		87	57 - 161	8	15
Naphthalene	32.0	30.1		ug/L		94	48 - 120	5	29
Phenanthrene	32.0	33.4		ug/L		105	67 - 130	4	15
Pyrene	32.0	34.3		ug/L		107	58 - 136	4	25

LCSD LCSD %Recovery Qualifier Limits Surrogate 2-Fluorobiphenyl 48 - 120 96 Nitrobenzene-d5 (Surr) 83 46 - 120 p-Terphenyl-d14 (Surr) 90 24 - 136

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 480-623320/1-A **Client Sample ID: Method Blank Matrix: Water** Prep Type: Total/NA Prep Batch: 623320

Analysis Batch: 623390

MB MB Result Qualifier Analyte RL **MDL** Unit Prepared Analyzed Dil Fac

10.0 5.0 ug/L 04/26/22 16:30 04/27/22 08:53 Cyanide, Total 10.0 U

Lab Sample ID: LCS 480-623320/2-A **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA **Analysis Batch: 623390** Prep Batch: 623320

Spike LCS LCS %Rec Added Result Qualifier Limits Analyte D %Rec Unit Cyanide, Total 400 90 - 110 440.0 ug/L 110

Lab Sample ID: LCS 480-623320/3-A **Client Sample ID: Lab Control Sample**

Matrix: Water Prep Type: Total/NA **Analysis Batch: 623390 Prep Batch: 623320**

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Cyanide, Total 250 261.0 ug/L 104 90 - 110

Lab Sample ID: 480-196931-8 MS **Client Sample ID: Duplicate**

Matrix: Ground Water Prep Type: Total/NA Analysis Batch: 623390 Prep Batch: 623320

Allalysis Datell. 020000									i icp D	atcii. 02002	·
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Cyanide, Total	191		100	287.0		ug/L		96	90 - 110		_

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Client: GEI Consultants, Inc. Job ID: 480-196931-1 Project/Site: GEI, Mineral Springs SDG: 480-196931-1

Method: 9012B - Cyanide, Total andor Amenable (Continued)

Lab Sample ID: MB 480-623399/1-A Client Sample ID: Method Blank **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 623466

MB MB Result Qualifier RL **MDL** Unit Analyzed Dil Fac Analyte Prepared 10.0 04/27/22 10:45 04/27/22 13:39 Cyanide, Total 10.0 U 5.0 ug/L

Lab Sample ID: LCS 480-623399/2-A **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA **Prep Batch: 623399 Analysis Batch: 623466** Spike LCS LCS %Rec Added Result Qualifier Unit D %Rec Limits Analyte 250 90 - 110 Cyanide, Total 236.0 ug/L 94

Lab Sample ID: 480-196985-5 MS Client Sample ID: MW-16 **Matrix: Water** Prep Type: Total/NA **Analysis Batch: 623492** Prep Batch: 623399 Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Limits Unit %Rec Cyanide, Total 4940 100 5740 4 800 90 - 110 ug/L

Method: 9016 - Cyanide, Free

Lab Sample ID: MB 460-842013/1-A Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water

Analysis Batch: 842266 Prep Batch: 842013 MB MB

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Cyanide, Free 4.03 J 5.0 2.3 ug/L 04/29/22 11:23 04/29/22 20:00

Lab Sample ID: LCS 460-842013/2-A **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA **Analysis Batch: 842266 Prep Batch: 842013** LCS LCS %Rec Spike Analyte Added Result Qualifier Unit %Rec Limits Cyanide, Free 50.0 52.31 ug/L 105 56 - 120

Lab Sample ID: 480-196931-1 MS Client Sample ID: MW-11A **Matrix: Ground Water** Prep Type: Total/NA Analysis Batch: 842266 Prep Batch: 842013

Spike MS MS %Rec Sample Sample Result Qualifier Added Result Qualifier Analyte Unit %Rec Limits Cyanide, Free 8.6 F1 B 50.0 56 - 120 34.97 F1 ug/L

Lab Sample ID: 480-196931-1 MSD Client Sample ID: MW-11A **Matrix: Ground Water** Prep Type: Total/NA **Analysis Batch: 842266 Prep Batch: 842013** Sample Sample Spike MSD MSD %Rec **RPD**

Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit Cyanide, Free 8.6 F1 B 50.0 39.70 ug/L 62 56 - 120 13

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Prep Batch: 623399

Client: GEI Consultants, Inc. Project/Site: GEI, Mineral Springs Job ID: 480-196931-1 SDG: 480-196931-1

Prep Type: Total/NA

Prep Batch: 843239

Prep Batch: 843239

%Rec

Client Sample ID: Method Blank

Method: 9016 - Cyanide, Free (Continued)

Lab Sample ID: DLCK 460-842266/10 Client Sample ID: Lab Control Sample Prep Type: Total/NA

Matrix: Water

Analysis Batch: 842266

Spike DLCK DLCK %Rec Added Result Qualifier Unit %Rec Limits Analyte D 2.00 Cyanide, Free 5.0 U ug/L 78 36 - 171

Lab Sample ID: MB 460-843239/1-A Client Sample ID: Method Blank

Matrix: Water

Analysis Batch: 843370

MB MB

MDL Unit Result Qualifier RL Prepared Analyzed Dil Fac Analyte 5.0 05/06/22 13:52 05/06/22 19:55 Cyanide, Free 5.0 U 2.3 ug/L

Lab Sample ID: LCS 460-843239/2-A **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 843370

Spike LCS LCS

Added Result Qualifier Limits Analyte Unit %Rec Cyanide, Free 50.0 47.36 95 56 - 120 ug/L

Lab Sample ID: DLCK 460-843370/10 **Client Sample ID: Lab Control Sample Prep Type: Total/NA**

Matrix: Water

Analysis Batch: 843370

Spike DLCK DLCK %Rec Added Analyte Result Qualifier Unit %Rec Limits

2.00 2.83 J 36 - 171 Cyanide, Free ug/L 141

Lab Sample ID: MB 460-843999/1-A

Matrix: Water

Analysis Batch: 844077

мв мв

Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac Cyanide, Free 5.0 U 5.0 2.3 ug/L 05/11/22 14:49 05/11/22 21:15

Lab Sample ID: LCS 460-843999/2-A

Matrix: Water

Analysis Batch: 844077

Spike LCS LCS Added Result Qualifier Limits Analyte Unit D %Rec 50.0 56 - 120 Cyanide, Free 40.35 ug/L 81

Lab Sample ID: 480-196985-1 MS

Matrix: Water

Analysis Batch: 844077

Sample Sample Spike MS MS %Rec Result Qualifier Added Limits Result Qualifier D Analyte Unit %Rec 9.1 H 50.0 Cyanide, Free 43.10 ug/L 68

Lab Sample ID: 480-196985-1 MSD

Matrix: Water

Analysis Batch: 844077

Spike MSD MSD %Rec **RPD** Sample Sample Result Qualifier Added Limits **RPD** Analyte Result Qualifier Unit %Rec Limit 9.1 H Cyanide, Free 50.0 56 - 120 49.13 ug/L 80

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Prep Batch: 843999

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 843999 %Rec

Client Sample ID: MW-20

Prep Type: Total/NA

Prep Batch: 843999

56 - 120

Client Sample ID: MW-20

Prep Type: Total/NA **Prep Batch: 843999**

QC Sample Results

Client: GEI Consultants, Inc. Job ID: 480-196931-1 Project/Site: GEI, Mineral Springs SDG: 480-196931-1

Method: 9016 - Cyanide, Free

Lab Sample ID: DLCK 460-844077/10 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA **Analysis Batch: 844077**

	Spike	DLCK	DLCK				%Rec		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Cyanide, Free	2.00	5.0	U	ug/L		97	36 - 171		_

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 480-622879/1 Client Sample ID: Method Blank **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 622879

Analysis Batch: 622879

MB MB **Result Qualifier** RL **RL Unit** Prepared Analyzed Dil Fac 0.40 U 0.40 0.40 mg/L 04/22/22 14:21 Total Suspended Solids

Lab Sample ID: LCS 480-622879/2 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA **Analysis Batch: 622879** Spike LCS LCS %Rec

Analyte Added Result Qualifier Limits Unit %Rec **Total Suspended Solids** 341 322.8 mg/L 88 - 110

Lab Sample ID: 480-196931-3 DU Client Sample ID: SW-02 **Matrix: Surface Water** Prep Type: Total/NA

DU DU RPD Sample Sample Result Qualifier Result Qualifier RPD Limit Analyte Unit **Total Suspended Solids** 1.6 U 1.6 U mg/L NC

Client: GEI Consultants, Inc.

Project/Site: GEI, Mineral Springs

Job ID: 480-196931-1

SDG: 480-196931-1

GC/MS VOA

Analysis Batch: 622381

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-196931-1	MW-11A	Total/NA	Ground Water	8260C	
480-196931-2	SW-01	Total/NA	Surface Water	8260C	
480-196931-3	SW-02	Total/NA	Surface Water	8260C	
480-196931-6	MW-19	Total/NA	Ground Water	8260C	
480-196931-7	MW-23	Total/NA	Ground Water	8260C	
480-196931-8	Duplicate	Total/NA	Ground Water	8260C	
480-196931-10	MW-07	Total/NA	Ground Water	8260C	
480-196931-11	MW-10	Total/NA	Ground Water	8260C	
480-196931-12	TRIP BLANK	Total/NA	Water	8260C	
480-196931-13	EQUIPMENT BLANK	Total/NA	Water	8260C	
MB 480-622381/7	Method Blank	Total/NA	Water	8260C	
LCS 480-622381/5	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 622584

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-196985-3	MW-13	Total/NA	Water	8260C	_
480-196985-4	MW-17	Total/NA	Water	8260C	
480-196985-6	TRIP BLANK	Total/NA	Water	8260C	
MB 480-622584/9	Method Blank	Total/NA	Water	8260C	
LCS 480-622584/6	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-622584/7	Lab Control Sample Dup	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 622501

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-196931-1	MW-11A	Total/NA	Ground Water	3510C	
180-196931-2	SW-01	Total/NA	Surface Water	3510C	
180-196931-3	SW-02	Total/NA	Surface Water	3510C	
480-196931-6	MW-19	Total/NA	Ground Water	3510C	
480-196931-7	MW-23	Total/NA	Ground Water	3510C	
480-196931-8	Duplicate	Total/NA	Ground Water	3510C	
180-196931-10	MW-07	Total/NA	Ground Water	3510C	
480-196931-11	MW-10	Total/NA	Ground Water	3510C	
480-196931-13	EQUIPMENT BLANK	Total/NA	Water	3510C	
180-196985-3	MW-13	Total/NA	Water	3510C	
480-196985-4	MW-17	Total/NA	Water	3510C	
MB 480-622501/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-622501/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 480-622501/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 622654

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-196931-1	MW-11A	Total/NA	Ground Water	8270D_LL_PAH	622501
480-196931-2	SW-01	Total/NA	Surface Water	8270D_LL_PAH	622501
480-196931-3	SW-02	Total/NA	Surface Water	8270D_LL_PAH	622501
480-196931-6	MW-19	Total/NA	Ground Water	8270D_LL_PAH	622501
480-196931-7	MW-23	Total/NA	Ground Water	8270D_LL_PAH	622501
480-196931-8	Duplicate	Total/NA	Ground Water	8270D_LL_PAH	622501
480-196931-10	MW-07	Total/NA	Ground Water	8270D_LL_PAH	622501
480-196931-11	MW-10	Total/NA	Ground Water	8270D_LL_PAH	622501

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Client: GEI Consultants, Inc. Job ID: 480-196931-1 Project/Site: GEI, Mineral Springs SDG: 480-196931-1

GC/MS Semi VOA (Continued)

Analysis Batch: 622654 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-196931-13	EQUIPMENT BLANK	Total/NA	Water	8270D_LL_PAH	622501
480-196985-3	MW-13	Total/NA	Water	8270D_LL_PAH	622501
480-196985-4	MW-17	Total/NA	Water	8270D_LL_PAH	622501
MB 480-622501/1-A	Method Blank	Total/NA	Water	8270D_LL_PAH	622501
LCS 480-622501/2-A	Lab Control Sample	Total/NA	Water	8270D_LL_PAH	622501
LCSD 480-622501/3-A	Lab Control Sample Dup	Total/NA	Water	8270D_LL_PAH	622501

General Chemistry

Analysis Batch: 622879

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-196931-1	MW-11A	Total/NA	Ground Water	SM 2540D	
480-196931-2	SW-01	Total/NA	Surface Water	SM 2540D	
480-196931-3	SW-02	Total/NA	Surface Water	SM 2540D	
MB 480-622879/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-622879/2	Lab Control Sample	Total/NA	Water	SM 2540D	
480-196931-3 DU	SW-02	Total/NA	Surface Water	SM 2540D	

Prep Batch: 623320

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-196931-1	MW-11A	Total/NA	Ground Water	9012B	
480-196931-2	SW-01	Total/NA	Surface Water	9012B	
480-196931-3	SW-02	Total/NA	Surface Water	9012B	
480-196931-4	MW-12	Total/NA	Ground Water	9012B	
480-196931-5	MW-14	Total/NA	Ground Water	9012B	
480-196931-7	MW-23	Total/NA	Ground Water	9012B	
480-196931-8	Duplicate	Total/NA	Ground Water	9012B	
MB 480-623320/1-A	Method Blank	Total/NA	Water	9012B	
LCS 480-623320/2-A	Lab Control Sample	Total/NA	Water	9012B	
LCS 480-623320/3-A	Lab Control Sample	Total/NA	Water	9012B	
480-196931-8 MS	Duplicate	Total/NA	Ground Water	9012B	

Analysis Batch: 623390

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-196931-1	MW-11A	Total/NA	Ground Water	9012B	623320
480-196931-2	SW-01	Total/NA	Surface Water	9012B	623320
480-196931-3	SW-02	Total/NA	Surface Water	9012B	623320
480-196931-4	MW-12	Total/NA	Ground Water	9012B	623320
480-196931-5	MW-14	Total/NA	Ground Water	9012B	623320
480-196931-7	MW-23	Total/NA	Ground Water	9012B	623320
480-196931-8	Duplicate	Total/NA	Ground Water	9012B	623320
MB 480-623320/1-A	Method Blank	Total/NA	Water	9012B	623320
LCS 480-623320/2-A	Lab Control Sample	Total/NA	Water	9012B	623320
LCS 480-623320/3-A	Lab Control Sample	Total/NA	Water	9012B	623320
480-196931-8 MS	Duplicate	Total/NA	Ground Water	9012B	623320

Prep Batch: 623399

Lab Sample ID 480-196931-9	Client Sample ID MW-22	Prep Type Total/NA	Matrix Ground Water	Method 9012B	Prep Batch
480-196931-13	EQUIPMENT BLANK	Total/NA	Water	9012B	
480-196985-1	MW-20	Total/NA	Water	9012B	

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Client: GEI Consultants, Inc.

Project/Site: GEI, Mineral Springs

Job ID: 480-196931-1

SDG: 480-196931-1

General Chemistry (Continued)

Prep Batch: 623399 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-196985-2	MW-21	Total/NA	Water	9012B	
480-196985-3	MW-13	Total/NA	Water	9012B	
480-196985-4	MW-17	Total/NA	Water	9012B	
480-196985-5	MW-16	Total/NA	Water	9012B	
MB 480-623399/1-A	Method Blank	Total/NA	Water	9012B	
LCS 480-623399/2-A	Lab Control Sample	Total/NA	Water	9012B	
480-196985-5 MS	MW-16	Total/NA	Water	9012B	

Analysis Batch: 623466

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-196931-13	EQUIPMENT BLANK	Total/NA	Water	9012B	623399
480-196985-2	MW-21	Total/NA	Water	9012B	623399
480-196985-3	MW-13	Total/NA	Water	9012B	623399
480-196985-4	MW-17	Total/NA	Water	9012B	623399
MB 480-623399/1-A	Method Blank	Total/NA	Water	9012B	623399
LCS 480-623399/2-A	Lab Control Sample	Total/NA	Water	9012B	623399

Analysis Batch: 623488

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-196931-9	MW-22	Total/NA	Ground Water	9012B	623399
480-196985-1	MW-20	Total/NA	Water	9012B	623399

Analysis Batch: 623492

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-196985-5	MW-16	Total/NA	Water	9012B	623399
480-196985-5 MS	MW-16	Total/NA	Water	9012B	623399

Prep Batch: 842013

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-196931-1	MW-11A	Total/NA	Ground Water	9016	
480-196931-2	SW-01	Total/NA	Surface Water	9016	
480-196931-3	SW-02	Total/NA	Surface Water	9016	
480-196931-4	MW-12	Total/NA	Ground Water	9016	
480-196931-5	MW-14	Total/NA	Ground Water	9016	
480-196931-7	MW-23	Total/NA	Ground Water	9016	
480-196931-8	Duplicate	Total/NA	Ground Water	9016	
480-196931-9	MW-22	Total/NA	Ground Water	9016	
480-196931-13	EQUIPMENT BLANK	Total/NA	Water	9016	
MB 460-842013/1-A	Method Blank	Total/NA	Water	9016	
LCS 460-842013/2-A	Lab Control Sample	Total/NA	Water	9016	
480-196931-1 MS	MW-11A	Total/NA	Ground Water	9016	
480-196931-1 MSD	MW-11A	Total/NA	Ground Water	9016	

Analysis Batch: 842266

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-196931-1	MW-11A	Total/NA	Ground Water	9016	842013
480-196931-2	SW-01	Total/NA	Surface Water	9016	842013
480-196931-3	SW-02	Total/NA	Surface Water	9016	842013
480-196931-4	MW-12	Total/NA	Ground Water	9016	842013
480-196931-5	MW-14	Total/NA	Ground Water	9016	842013
480-196931-7	MW-23	Total/NA	Ground Water	9016	842013

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Client: GEI Consultants, Inc. Job ID: 480-196931-1 Project/Site: GEI, Mineral Springs SDG: 480-196931-1

General Chemistry (Continued)

Analysis Batch: 842266 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-196931-8	Duplicate	Total/NA	Ground Water	9016	842013
480-196931-9	MW-22	Total/NA	Ground Water	9016	842013
480-196931-13	EQUIPMENT BLANK	Total/NA	Water	9016	842013
MB 460-842013/1-A	Method Blank	Total/NA	Water	9016	842013
DLCK 460-842266/10	Lab Control Sample	Total/NA	Water	9016	
LCS 460-842013/2-A	Lab Control Sample	Total/NA	Water	9016	842013
480-196931-1 MS	MW-11A	Total/NA	Ground Water	9016	842013
480-196931-1 MSD	MW-11A	Total/NA	Ground Water	9016	842013

Prep Batch: 843239

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-196931-1	MW-11A	Total/NA	Ground Water	9016	
480-196931-2	SW-01	Total/NA	Surface Water	9016	
480-196931-3	SW-02	Total/NA	Surface Water	9016	
480-196931-4	MW-12	Total/NA	Ground Water	9016	
480-196931-5	MW-14	Total/NA	Ground Water	9016	
480-196931-7	MW-23	Total/NA	Ground Water	9016	
480-196931-8	Duplicate	Total/NA	Ground Water	9016	
480-196931-9	MW-22	Total/NA	Ground Water	9016	
480-196931-13	EQUIPMENT BLANK	Total/NA	Water	9016	
MB 460-843239/1-A	Method Blank	Total/NA	Water	9016	
LCS 460-843239/2-A	Lab Control Sample	Total/NA	Water	9016	

Analysis Batch: 843370

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-196931-1	MW-11A	Total/NA	Ground Water	9016	843239
480-196931-2	SW-01	Total/NA	Surface Water	9016	843239
480-196931-3	SW-02	Total/NA	Surface Water	9016	843239
480-196931-4	MW-12	Total/NA	Ground Water	9016	843239
480-196931-5	MW-14	Total/NA	Ground Water	9016	843239
480-196931-7	MW-23	Total/NA	Ground Water	9016	843239
480-196931-8	Duplicate	Total/NA	Ground Water	9016	843239
480-196931-9	MW-22	Total/NA	Ground Water	9016	843239
480-196931-13	EQUIPMENT BLANK	Total/NA	Water	9016	843239
MB 460-843239/1-A	Method Blank	Total/NA	Water	9016	843239
DLCK 460-843370/10	Lab Control Sample	Total/NA	Water	9016	
LCS 460-843239/2-A	Lab Control Sample	Total/NA	Water	9016	843239

Prep Batch: 843999

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-196985-1	MW-20	Total/NA	Water	9016	
480-196985-2	MW-21	Total/NA	Water	9016	
480-196985-3	MW-13	Total/NA	Water	9016	
480-196985-4	MW-17	Total/NA	Water	9016	
480-196985-5	MW-16	Total/NA	Water	9016	
MB 460-843999/1-A	Method Blank	Total/NA	Water	9016	
LCS 460-843999/2-A	Lab Control Sample	Total/NA	Water	9016	
480-196985-1 MS	MW-20	Total/NA	Water	9016	
480-196985-1 MSD	MW-20	Total/NA	Water	9016	

Client: GEI Consultants, Inc.

Project/Site: GEI, Mineral Springs

Job ID: 480-196931-1

SDG: 480-196931-1

General Chemistry

Analysis Batch: 844077

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-196985-1	MW-20	Total/NA	Water	9016	843999
480-196985-2	MW-21	Total/NA	Water	9016	843999
480-196985-3	MW-13	Total/NA	Water	9016	843999
480-196985-4	MW-17	Total/NA	Water	9016	843999
480-196985-5	MW-16	Total/NA	Water	9016	843999
MB 460-843999/1-A	Method Blank	Total/NA	Water	9016	843999
DLCK 460-844077/10	Lab Control Sample	Total/NA	Water	9016	
LCS 460-843999/2-A	Lab Control Sample	Total/NA	Water	9016	843999
480-196985-1 MS	MW-20	Total/NA	Water	9016	843999
480-196985-1 MSD	MW-20	Total/NA	Water	9016	843999

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Lab Chronicle

Client: GEI Consultants, Inc. Job ID: 480-196931-1 Project/Site: GEI, Mineral Springs SDG: 480-196931-1

Client Sample ID: MW-11A

Lab Sample ID: 480-196931-1 Date Collected: 04/19/22 11:15 **Matrix: Ground Water** Date Received: 04/19/22 14:20

Batch Batch Dilution Batch **Prepared** Method or Analyzed **Prep Type** Type Run **Factor** Number Analyst Lab Total/NA 8260C 622381 04/20/22 14:06 CRL Analysis 2 TAL BUF Total/NA Prep 3510C 622501 04/20/22 14:51 CMC TAL BUF Total/NA Analysis 8270D_LL_PAH 1 622654 04/21/22 16:15 PJQ TAL BUF Total/NA Prep 9012B 623320 04/26/22 16:30 RJM TAL BUF Total/NA 9012B 623390 04/27/22 09:17 JGO TAL BUF Analysis 1 9016 Total/NA Prep 842013 04/29/22 11:23 IAA TAL EDI Total/NA 9016 842266 04/29/22 20:00 VBG TAL EDI Analysis 1 Total/NA Prep 9016 843239 05/06/22 13:52 IAA TAL EDI

Client Sample ID: SW-01 Lab Sample ID: 480-196931-2 Date Collected: 04/19/22 13:30 **Matrix: Surface Water**

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1

843370 05/06/22 19:55 VBG

622879 04/22/22 14:21 SAK

TAL EDI

TAL BUF

Date Received: 04/19/22 14:20

Analysis

Analysis

9016

SM 2540D

Total/NA

Total/NA

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C			622381	04/20/22 14:29	CRL	TAL BUF
Total/NA	Prep	3510C			622501	04/20/22 14:51	CMC	TAL BUF
Total/NA	Analysis	8270D_LL_PAH		1	622654	04/21/22 16:43	PJQ	TAL BUF
Total/NA	Prep	9012B			623320	04/26/22 16:30	RJM	TAL BUF
Total/NA	Analysis	9012B		1	623390	04/27/22 09:18	JGO	TAL BUF
Total/NA	Prep	9016			842013	04/29/22 11:23	IAA	TAL EDI
Total/NA	Analysis	9016		1	842266	04/29/22 20:00	VBG	TAL EDI
Total/NA	Prep	9016			843239	05/06/22 13:52	IAA	TAL EDI
Total/NA	Analysis	9016		1	843370	05/06/22 19:55	VBG	TAL EDI
Total/NA	Analysis	SM 2540D		1	622879	04/22/22 14:21	SAK	TAL BUF

Client Sample ID: SW-02 Lab Sample ID: 480-196931-3 Date Collected: 04/19/22 11:00 **Matrix: Surface Water** Date Received: 04/19/22 14:20

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	622381	04/20/22 14:52	CRL	TAL BUF
Total/NA	Prep	3510C			622501	04/20/22 14:51	CMC	TAL BUF
Total/NA	Analysis	8270D_LL_PAH		1	622654	04/21/22 17:10	PJQ	TAL BUF
Total/NA	Prep	9012B			623320	04/26/22 16:30	RJM	TAL BUF
Total/NA	Analysis	9012B		1	623390	04/27/22 09:19	JGO	TAL BUF
Total/NA	Prep	9016			842013	04/29/22 11:23	IAA	TAL EDI
Total/NA	Analysis	9016		1	842266	04/29/22 20:00	VBG	TAL EDI
Total/NA	Prep	9016			843239	05/06/22 13:52	IAA	TAL EDI
Total/NA	Analysis	9016		1	843370	05/06/22 19:55	VBG	TAL EDI
Total/NA	Analysis	SM 2540D		1	622879	04/22/22 14:21	SAK	TAL BUF

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Job ID: 480-196931-1 SDG: 480-196931-1

Client Sample ID: MW-12

Client: GEI Consultants, Inc.

Date Collected: 04/19/22 12:30 Date Received: 04/19/22 14:20

Project/Site: GEI, Mineral Springs

Lab Sample ID: 480-196931-4

TAL EDI

Matrix: Ground Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	9012B			623320	04/26/22 16:30	RJM	TAL BUF
Total/NA	Analysis	9012B		1	623390	04/27/22 09:21	JGO	TAL BUF
Total/NA	Prep	9016			842013	04/29/22 11:23	IAA	TAL EDI
Total/NA	Analysis	9016		1	842266	04/29/22 20:00	VBG	TAL EDI
Total/NA	Prep	9016			843239	05/06/22 13:52	IAA	TAL EDI
Total/NA	Analysis	9016		1	843370	05/06/22 19:55	VBG	TAL EDI

Client Sample ID: MW-14 Lab Sample ID: 480-196931-5

843370 05/06/22 20:15 VBG

Date Collected: 04/19/22 10:15 **Matrix: Ground Water** Date Received: 04/19/22 14:20

Batch Batch Dilution Batch **Prepared** Method **Prep Type** Type Run **Factor** Number or Analyzed Analyst Lab Total/NA Prep 9012B 623320 04/26/22 16:30 RJM TAL BUF 9012B Total/NA Analysis 623390 04/27/22 09:22 JGO TAL BUF 1 Total/NA Prep 9016 842013 04/29/22 11:23 IAA TAL EDI Total/NA Analysis 9016 842266 04/29/22 20:00 VBG TAL EDI 1 Total/NA 9016 05/06/22 13:52 IAA TAL EDI Prep 843239

Lab Sample ID: 480-196931-6 **Client Sample ID: MW-19** Date Collected: 04/19/22 10:55 **Matrix: Ground Water**

1

Date Received: 04/19/22 14:20

Analysis

9016

Total/NA

Batch Batch Dilution Batch **Prepared** Method **Prep Type** Type **Factor** Number or Analyzed Run Analyst Lab Total/NA Analysis 8260C 100 622381 04/20/22 15:15 **TAL BUF** Total/NA 3510C 622501 04/20/22 14:51 CMC Prep TAL BUF Total/NA Analysis 8270D LL PAH 200 622654 04/21/22 17:38 PJQ TAL BUF

Client Sample ID: MW-23 Lab Sample ID: 480-196931-7 Date Collected: 04/19/22 09:50 **Matrix: Ground Water**

Date Received: 04/19/22 14:20

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	622381	04/20/22 15:45	CRL	TAL BUF
Total/NA	Prep	3510C			622501	04/20/22 14:51	CMC	TAL BUF
Total/NA	Analysis	8270D_LL_PAH		1	622654	04/21/22 18:05	PJQ	TAL BUF
Total/NA	Prep	9012B			623320	04/26/22 16:30	RJM	TAL BUF
Total/NA	Analysis	9012B		1	623390	04/27/22 09:24	JGO	TAL BUF
Total/NA	Prep	9016			842013	04/29/22 11:23	IAA	TAL EDI
Total/NA	Analysis	9016		1	842266	04/29/22 20:00	VBG	TAL EDI
Total/NA	Prep	9016			843239	05/06/22 13:52	IAA	TAL EDI
Total/NA	Analysis	9016		1	843370	05/06/22 20:15	VBG	TAL EDI

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Job ID: 480-196931-1 SDG: 480-196931-1

Client Sample ID: Duplicate

Lab Sample ID: 480-196931-8

Matrix: Ground Water

Date Collected: 04/19/22 09:55 Date Received: 04/19/22 14:20

Project/Site: GEI, Mineral Springs

Client: GEI Consultants, Inc.

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C			622381	04/20/22 16:08	CRL	TAL BUF
Total/NA	Prep	3510C			622501	04/20/22 14:51	CMC	TAL BUF
Total/NA	Analysis	8270D_LL_PAH		1	622654	04/21/22 18:33	PJQ	TAL BUF
Total/NA	Prep	9012B			623320	04/26/22 16:30	RJM	TAL BUF
Total/NA	Analysis	9012B		1	623390	04/27/22 09:28	JGO	TAL BUF
Total/NA	Prep	9016			842013	04/29/22 11:23	IAA	TAL EDI
Total/NA	Analysis	9016		1	842266	04/29/22 20:00	VBG	TAL EDI
Total/NA	Prep	9016			843239	05/06/22 13:52	IAA	TAL EDI
Total/NA	Analysis	9016		1	843370	05/06/22 20:15	VBG	TAL EDI

Client Sample ID: MW-22 Lab Sample ID: 480-196931-9

Date Collected: 04/19/22 12:25 **Matrix: Ground Water**

Date Received: 04/19/22 14:20

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	9012B			623399	04/27/22 10:45	RJM	TAL BUF
Total/NA	Analysis	9012B		2	623488	04/27/22 15:07	JGO	TAL BUF
Total/NA	Prep	9016			842013	04/29/22 11:23	IAA	TAL EDI
Total/NA	Analysis	9016		1	842266	04/29/22 20:00	VBG	TAL EDI
Total/NA	Prep	9016			843239	05/06/22 13:52	IAA	TAL EDI
Total/NA	Analysis	9016		1	843370	05/06/22 20:15	VBG	TAL EDI

Client Sample ID: MW-07 Lab Sample ID: 480-196931-10 **Matrix: Ground Water**

Date Collected: 04/19/22 09:15 Date Received: 04/19/22 14:20

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		40	622381	04/20/22 16:31	CRL	TAL BUF
Total/NA	Prep	3510C			622501	04/20/22 14:51	CMC	TAL BUF
Total/NA	Analysis	8270D_LL_PAH		100	622654	04/21/22 19:01	PJQ	TAL BUF

Client Sample ID: MW-10 Lab Sample ID: 480-196931-11

Date Collected: 04/19/22 09:10 Date Received: 04/19/22 14:20

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	622381	04/20/22 16:55	CRL	TAL BUF
Total/NA	Prep	3510C			622501	04/20/22 14:51	CMC	TAL BUF
Total/NA	Analysis	8270D_LL_PAH		1	622654	04/21/22 19:29	PJQ	TAL BUF

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Matrix: Ground Water

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Client: GEI Consultants, Inc. Job ID: 480-196931-1 Project/Site: GEI, Mineral Springs

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-196931-12

Matrix: Water

SDG: 480-196931-1

Date Collected: 04/19/22 00:00 Date Received: 04/19/22 14:20

ı		Batch	Batch		Dilution	Batch	Prepared		
	Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
	Total/NA	Analysis	8260C		1	622381	04/20/22 17:18	CRL	TAL BUF

Client Sample ID: EQUIPMENT BLANK

Lab Sample ID: 480-196931-13

Matrix: Water

Date Collected: 04/19/22 10:30 Date Received: 04/19/22 14:20

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	622381	04/20/22 17:41	CRL	TAL BUF
Total/NA	Prep	3510C			622501	04/20/22 14:51	CMC	TAL BUF
Total/NA	Analysis	8270D_LL_PAH		1	622654	04/21/22 19:57	PJQ	TAL BUF
Total/NA	Prep	9012B			623399	04/27/22 10:45	RJM	TAL BUF
Total/NA	Analysis	9012B		1	623466	04/27/22 13:59	JGO	TAL BUF
Total/NA	Prep	9016			842013	04/29/22 11:23	IAA	TAL EDI
Total/NA	Analysis	9016		1	842266	04/29/22 20:00	VBG	TAL EDI
Total/NA	Prep	9016			843239	05/06/22 13:52	IAA	TAL EDI
Total/NA	Analysis	9016		1	843370	05/06/22 20:15	VBG	TAL EDI

Client Sample ID: MW-20

Lab Sample ID: 480-196985-1

Matrix: Water

Date Collected: 04/20/22 09:20 Date Received: 04/20/22 12:45

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	9012B			623399	04/27/22 10:45	RJM	TAL BUF
Total/NA	Analysis	9012B		2	623488	04/27/22 15:08	JGO	TAL BUF
Total/NA	Prep	9016			843999	05/11/22 14:49	IAA	TAL EDI
Total/NA	Analysis	9016		1	844077	05/11/22 21:15	VBG	TAL EDI

Client Sample ID: MW-21

Lab Sample ID: 480-196985-2

Matrix: Water

Date Collected: 04/20/22 10:00 Date Received: 04/20/22 12:45

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	9012B			623399	04/27/22 10:45	RJM	TAL BUF
Total/NA	Analysis	9012B		1	623466	04/27/22 14:07	JGO	TAL BUF
Total/NA	Prep	9016			843999	05/11/22 14:49	IAA	TAL EDI
Total/NA	Analysis	9016		1	844077	05/11/22 21:15	VBG	TAL EDI

Client Sample ID: MW-13

Lab Sample ID: 480-196985-3

Matrix: Water

Date Collected: 04/20/22 10:30 Date Received: 04/20/22 12:45

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C			622584	04/21/22 19:30	CR	TAL BUF
Total/NA	Prep	3510C			622501	04/20/22 14:51	CMC	TAL BUF
Total/NA	Analysis	8270D_LL_PAH		1	622654	04/21/22 20:24	PJQ	TAL BUF

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Job ID: 480-196931-1 SDG: 480-196931-1

Client Sample ID: MW-13

Project/Site: GEI, Mineral Springs

Client: GEI Consultants, Inc.

Date Collected: 04/20/22 10:30 Date Received: 04/20/22 12:45 Lab Sample ID: 480-196985-3

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	9012B			623399	04/27/22 10:45	RJM	TAL BUF
Total/NA	Analysis	9012B		1	623466	04/27/22 14:08	JGO	TAL BUF
Total/NA	Prep	9016			843999	05/11/22 14:49	IAA	TAL EDI
Total/NA	Analysis	9016		1	844077	05/11/22 21:15	VBG	TAL EDI

Client Sample ID: MW-17 Lab Sample ID: 480-196985-4

Date Collected: 04/20/22 11:15

Date Received: 04/20/22 12:45

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C			622584	04/21/22 19:53	CR	TAL BUF
Total/NA	Prep	3510C			622501	04/20/22 14:51	CMC	TAL BUF
Total/NA	Analysis	8270D_LL_PAH		5	622654	04/21/22 20:52	PJQ	TAL BUF
Total/NA	Prep	9012B			623399	04/27/22 10:45	RJM	TAL BUF
Total/NA	Analysis	9012B		1	623466	04/27/22 14:09	JGO	TAL BUF
Total/NA	Prep	9016			843999	05/11/22 14:49	IAA	TAL EDI
Total/NA	Analysis	9016		1	844077	05/11/22 21:15	VBG	TAL EDI

Client Sample ID: MW-16

Date Collected: 04/20/22 00:00

Lab Sample ID: 480-196985-5

Matrix: Water

Date Received: 04/20/22 12:45

Batch **Batch** Dilution Batch Prepared **Prep Type** Type Method Run **Factor** Number or Analyzed Analyst Lab Total/NA Prep 9012B 623399 04/27/22 10:45 RJM TAL BUF Total/NA Analysis 9012B 20 623492 04/27/22 15:48 JGO TAL BUF Total/NA 9016 TAL EDI Prep 843999 05/11/22 14:49 IAA Total/NA Analysis 9016 844077 05/11/22 21:15 VBG TAL EDI

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-196985-6

Date Collected: 04/20/22 00:00 Date Received: 04/20/22 12:45

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C			622584	04/21/22 20:16	CR	TAL BUF

Laboratory References:

TAL BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600 TAL EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

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Eurofins Buffalo

Matrix: Water

Accreditation/Certification Summary

Client: GEI Consultants, Inc. Job ID: 480-196931-1 Project/Site: GEI, Mineral Springs SDG: 480-196931-1

Laboratory: Eurofins Buffalo

The accreditations/certifications listed below are applicable to this report.

New York NELAP 10026 03-31-23	Authority	Program	Identification Number	Expiration Date
	New York	INLL/	10026	03-31-23

Laboratory: Eurofins Edison

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Connecticut	State	PH-0200	09-30-22
DE Haz. Subst. Cleanup Act (HSCA)	State	N/A	01-01-23
Georgia	State	12028 (NJ)	06-30-22
Massachusetts	State	M-NJ312	06-30-22
New Jersey	NELAP	12028	06-30-22
New York	NELAP	11452	04-01-23
Pennsylvania	NELAP	68-00522	02-28-23
Rhode Island	State	LAO00376	12-31-22
USDA	US Federal Programs	P330-20-00244	11-03-23

Method Summary

Client: GEI Consultants, Inc.
Project/Site: GEI, Mineral Springs

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D_LL_PAH	Semivolatile Organic Compounds (GC/MS) Low level PAH	SW846	TAL BUF
9012B	Cyanide, Total andor Amenable	SW846	TAL BUF
9016	Cyanide, Free	SW846	TAL EDI
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL BUF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF
9012B	Cyanide, Total and/or Amenable, Distillation	SW846	TAL BUF
9016	Cyanide, Preparation	SW846	TAL EDI

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600 TAL EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Job ID: 480-196931-1

SDG: 480-196931-1

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Sample Summary

Client: GEI Consultants, Inc.

Project/Site: GEI, Mineral Springs

Job ID: 480-196931-1

SDG: 480-196931-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-196931-1	MW-11A	Ground Water	04/19/22 11:15	04/19/22 14:20
480-196931-2	SW-01	Surface Water	04/19/22 13:30	04/19/22 14:20
480-196931-3	SW-02	Surface Water	04/19/22 11:00	04/19/22 14:20
480-196931-4	MW-12	Ground Water	04/19/22 12:30	04/19/22 14:20
480-196931-5	MW-14	Ground Water	04/19/22 10:15	04/19/22 14:20
480-196931-6	MW-19	Ground Water	04/19/22 10:55	04/19/22 14:20
480-196931-7	MW-23	Ground Water	04/19/22 09:50	04/19/22 14:20
480-196931-8	Duplicate	Ground Water	04/19/22 09:55	04/19/22 14:20
480-196931-9	MW-22	Ground Water	04/19/22 12:25	04/19/22 14:20
480-196931-10	MW-07	Ground Water	04/19/22 09:15	04/19/22 14:20
480-196931-11	MW-10	Ground Water	04/19/22 09:10	04/19/22 14:20
480-196931-12	TRIP BLANK	Water	04/19/22 00:00	04/19/22 14:20
480-196931-13	EQUIPMENT BLANK	Water	04/19/22 10:30	04/19/22 14:20
480-196985-1	MW-20	Water	04/20/22 09:20	04/20/22 12:45
480-196985-2	MW-21	Water	04/20/22 10:00	04/20/22 12:45
480-196985-3	MW-13	Water	04/20/22 10:30	04/20/22 12:45
480-196985-4	MW-17	Water	04/20/22 11:15	04/20/22 12:45
480-196985-5	MW-16	Water	04/20/22 00:00	04/20/22 12:45
480-196985-6	TRIP BLANK	Water	04/20/22 00:00	04/20/22 12:45

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Chain of Custody Record

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-7991

& eurofins Environment Testing America

	Sampler:	Lab PM:	Carrier Tracking No(e)	
Client Information	/ VI. WAMINGS	Schove, John R		
Chen Confact. Brad Walker	Chone: - 572 - 4262	E-Mail: John. Schove@et. eurofinsus.com	State of Origin: Page:	
Company: National Final Gas Sunniv Corporation			Jaga - Or Z Job#:	
Address:		Analysis Requested		
6363 Main Street	Due Date Requested:	±)	Preservation Codes:	::
City: Williamsville	TAT Requested (days):		A-HCL M	M - Hexane N - None
State, Zip:	STS.			O - AsNaO2 P - Na2O4S
NY, 14221-588/	Compliance Project: A Yes - TNo			Q - Na2SO3
57-7247(Tel)	Po #: Purchase Order not required	(R - Na2S2O3 S - H2SO4
Emait: walkerb@natfuel.com		િ		T - TSP Dodecahydrate U - Acetone
Project Name: [GFI Mineral Springs Event Deer Semi Annual Sampling (April) Approach	Project #:	N 10	K - EDTA	V - MCAA W - pH 4-5
Site:	49009324	8 - I		c. otner (specify)
New York	000VV#.	Free - PAH - B260 - B260	of col	
Samule Identification	Sample Type Sample (C=comp,	Matrix (wavaturix Autrix Autrix Bell Filleled Autrix Autri	tal Number o	
Hosponial	Sample Date Time G=grab) BT=fissue, A=A Preservation Code:	87 28 28 28 28 28 28 28 28 28 28 28 28 28		Special Instructions/Note:
MW-11A	4/14/22 11.15 6	>		
SW-01	27	Water	0 0	
SW-02	07/1			
	2.7)	water X X	50	
MW-12	ns 21	Water		
MW-14	5101	Water		
MW-19	5.0)	Water X X		
~~~ Mw-23	056	Water X X		
MANGE DUPLICANE	4 55	Water	480-196931 Chain of Custody	stody
MW-22	5221	Water		
MW-07	919	Water	\$ V1	
MW-10	010	Water	***	
Possible Hazard Identification  Non-Hazard		ee max by	ples are reta	nonth)
V, Other (specify)	COLLED CHIKITOWII KADIOLOGICAL	Special Instructions/OC Requirements	Disposal By Lab Archive For	Months
Empty Kit Balinariishad by:	4	-		
	Date:	Time:	Method of Shipment:	1981
Relinantished by	1450 4/19		Date/Time:	Company
Normagnanca oy	/ (	Company Received by		Company
	Date/Time:	Company Received by:	Date Tiglial 11 1476	Company
Custody Seals Intact: Custody Seal No∴ Δ Yes. Δ No		Cooler Temperature(s) °C and Other P	And TCF	7
			>	Ver: 06/08/2021

# Chain of Custody Record

**Environment Testing** 

: eurofins

Phone: 716-691-2600 Fax: 716-691-7991

Amherst, NY 14228-2298

10 Hazelwood Drive

**Eurofins Buffalo** 

N - None
O - Ashao2
P - Na2O4S
Q - Na2S03
R - Na2S2203
S - H75SO4
T - TSP Dodecahydrate
U - Acetine
V - McCAA
W - pH 4-5 Special Instructions/Note: Ver: 06/08/2021 Z - other (specify) Months Sample Disposal ( A fee maybe assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For Mon Special Instructions/QC Requirements: COC No: 480-172790-32131.2 Preservation Codes 92/1 G - Amchlor H - Ascorbic Acid I - Ice J - Di Water K - EDTA L - EDA Page: Page 2 of 2 Job#: C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH Date (19122 3 Total Number of containers Date/Time: Method of Shipment: State of Origin **Analysis Requested** 9012B - Cyanide, Total E-Mail: John. Schove@et. eurofinsus. com S40D - Total Suspended Solids 1 8260C - BTEX - 8260 ooler Temper Received by eceived by 8270D_LL_PAH - HA9_1J_G0758 Lab PM: Schove, John R 9016 - Cyanide, Free Perform MS/MSD (Yes or No) Time: Field Filtered Sample (Yes or No) (W=water, S=solid, O=waste/oil, Preservation Code: Water Water Water Water Matrix Water Water Water Water Water Company Company Radiological Type (C=comp, G=grab) Sample G M. Cumminge Compliance Project: A Yes A No Purchase Order not required Sample Time 3 Date: Unknown 200 TAT Requested (days): Due Date Requested: 4/19/2 Sample Date Project Name:

GEI, Mineral Springs/ Event Desc: Semi Annual Sampling (April) 48008324
Sile: Date/Time Poison B BLAM Skin Irritant Jeliverable Requested: I, II, III, IV, Other (specify) E O. S. Park Custody Seal No. RIP BLAN National Fuel Gas Supply Corporation Custody Seals Intact:

Δ Yes Δ No Empty Kit Relinquished, Client Information Sample Identification walkerb@natfuel.com 716-857-7247(Tel) State, Zip: NY, 14221-5887 6363 Main Stree Relinquished by linquished by Williamsville elinquished by **Brad Walker** New York 4

# Chain of Custody Record

Eurofins TestAmerica, Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298 Phone: 716-691-2600 Fax: 716-691-7991	Chain of Custody Record	Kecord			Enviro
Client Information (Sub Contract Lab)	Sampler M. (AMM 32.)	THE MAIN SHALL	Carrier Tracking No(s):	COC No:	
Client Contact (C)	Phone	-Mail.	State of Origin:	Page	

Client Information (Sub Contract Lab)  Client Contact  Company  Address  Address  M. M. L. P. Company  Address  Address  M. M. C.	Phone: M MM. 2 ag. Phone: M S72-4367	E-Mail  Accreditations Required (See note):	cking No(s): igin:	COC No: Page: Job # . Preservation Codes:
		Analysis Requested		Š
e	STO	50	A P TOUCH B N MOOH C Zn Acetate D Nimr Acid E NaHSO4 F MOOH	N - Hexane N - Horse N - None N - None Cad D - AsNaC2 O4 Q - Na2C4S O5 Na2C5C3
	WO W		G - Amchlor H - Ascorbic Acid 1 - Ice	Ð
SPRINGS	Project #:		J- DI Water K- EDTA L- EDA	er V - MCAA W - pH 4-5 Z - other (specify)
	SSOW#:		Joon 1	
Sample identification - Client ID (Lab ID)	Sample (* Cacomp.)	Matrix Matrix Jesset Jesset Markin Ma	to sedmul late	
	Preserva	×		Special Instructions/Note:
	9	3		
	1 0001	***	1 1	
	050)	X X X X		
	(16	N X X X X		
Anh.		**************************************	480-196985 Chair	
À		<	Custody	
	9	2		
change, Eurofins TestAmeri bove for analysis/tests/matri accreditations are current to	ica places the ownership of method, analyte & accreditation x being analyzed, the samples must be shipped back to the o date, return the signed Chain of Custody attesting to said	Note: Since aboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin isted above for analysis/hasts/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica.	is forwarded under chain-of-custody. If	the laboratory does not currently ould be brought to Eurofins
		Sample Disposal ( A fee may be assessed	if samples are retained longer	than 1 month)
Deliverable Requested: I, II, III, IV, Other (specify)	Primary Deliverable Rank: 2	Special Instructions/QC Requirements: Mon	3y Lab Archive For	Months
	Date		Method of Shioment:	
4	Date/Time: 4//>/ >> Company	Received by:	Date/Time	Company
<b>S</b>	Date/Time: Company	Sany Received by:	Datertime:	Company
	Date/Time: Company	Received by:	Date/Time   75.17.	
Custody Seal No.:		Cooler Temperature(s) °C and Gofer Rentaries	7 3	2
			2 11 2:1	2.2

Ver: 06/08/2021

Environment Testing America

seurofins seurofins

# Chain of Custody Record

Amherst, NY 14228-2298

10 Hazelwood Drive

**Eurofins Buffalo** 

Phone: 716-691-2600 Fax: 716-691-7991			) ; )			3					America
Client Information (Sub Contract Lab)	Sampler:			Lab PM Schov	Lab PM: Schove John R	a		Carrier Tracking No(s)	(s)o	COC No:	
Client Contact:	Phone:			E-Mail:	5			State of Origin:		Page:	
Company				John	Schove(	John. Schove@et.eurofinsus.com		New York		Page 1 of 1	
Company. Eurofins Environment Testing Northeast,					Accreditati	Accreditations Required (See note):				# dol	
Address:	Due Date Requested:	٠								480-196931-1	-
777 New Durham Road,	5/2/2022					Analy	Analysis Requested	uested		Preservation Codes:	Codes:
City: Edison	TAT Requested (days):	:(s):			504				F	A - HCL B - NaOH	
State, Zip. NJ, 08817					100					C - Zn Acetate D - Nitric Acid	
Phone: 732-549-3900(Tel) 732-549-3679(Fax)	#Od#									F - MeOH G - Amchlor	R - Na2S2O3 S - H2SO4
Email:	# OM				(0					H - Ascorbic Acid	
Project Name: GEI, Mineral Springs	Project #: 48008324				N 10 8	9911 (9)					v - MCAA W - pH 4-5 Z - other (specify)
Site: AECOM, Mineral Springs	SSOW#				SD (Ye	Cyanid				f cont	
			Sample	Matrix	W/SW	dəid				o Jedi	
Sample Identification - Client ID (Lab ID)	Sample Date	Sample	Type (C=comp,	(W=water, S=solid, O=waste/oil,	ield Filta erform l	9106/910				muM lado	
		X	Preserval	Preservation Code:	a ×	16	TOTAL PROPERTY.				Special Instructions/Note:
MW-11A (480-196931-1)	4/19/22	11:15 Factorn		Water	+	×				-	
SW-01 (480-196931-2)	4/19/22	13:30 Fastern		Water		×				-	
SW-02 (480-196931-3)	4/19/22	11:00 Fastern		Water	1	×				-	
MW-12 (480-196931-4)	4/19/22	12:30 Eastern		Water		×			+	-	
MW-14 (480-196931-5)	4/19/22	10:15 Fastern		Water		×				-	
MW-23 (480-196931-7)	4/19/22	09:50 Eastern		Water		×				-	
Duplicate (480-196931-8)	4/19/22	09:55 Fastern		Water		×				-	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/lests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC altention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing Northeast, LLC.

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Water Water Water

> Eastern 12:25 Eastern 10:30 Eastern

> > MW-22 (480-196931-9) EB (480-196931-13)

4/19/22 4/19/22 4/19/22

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Possible Hazard Identification					
		Sa	Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)	amples are retained longer than	month)
Unconirmed			Return To Client Disposal By Lab	ab Archive For	Months
Deliverable Requested: I, II, III, IV, Other (specify)	Primary Deliverable Rank: 2	Sp	Requi		MOUILIS
Empty Kit Relinguished by:	Date:	Time:		Method of Shipment:	
Relinquished by:	Date/TUE 70177 18	Company	Received by	Date/Plate:	Company
Relinquished by:	Date/Time			1/4/2 /1015	FT
		Company	veodived by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Custode Seals Intact   Custody Seal No :	0,1				
A Ves A No	e de		Cooler Temperature(s) "C and Other Remarks: TO 100 100 100 100 100 100 100 100 100 10	81-51-670	
)					

Ver: 06/08/2021

Sooler Temperature(s) °C and Other Remark

Received by:

Date/Time: 60

Euroliiis Dullaio												
10 Hazelwood Drive	ر	hain	ال الدور	9.70	Pi 00					🔅 eurofins		
Amherst, NY 14228-2298 Phone: 716-691-2600 Fax: 716-691-7991	)		ilaili ol Custody Record	Juy Re	DIOS:						Environment Testing America	
Client Information (Sub Contract 1 at)	Sampler:			Lab PM			Carri	Carrier Tracking No(s):		COC No:		
	Phone			Scho	Schove, John R					480-71405.1		
Shipping/Receiving				E-Mail: John.	Schove@	E-Mait: John, Schove@et eurofinsus com	State	State of Origin:		Page:		_
Company: Eurofins Environment Testing Northeast.				4	ccreditation	Accreditations Required (See note)		40		Job #:		_
Address:	0 25-0				NELAP - New York	ew York				480-196985-1		_
777 New Durham Road,	5/3/2022					Anal	Analysis Reguested	tod		Preservation Codes:	odes:	_
City: Edison	TAT Requested (days):	:(s)			36				2000	A - HCL B - NaOH	M - Hexane	
State, Zip:										C - Zn Acetate	O - AsNaO2	
NJ, 08817										D - Nitric Acid E - NaHSO4	P - Na204S 0 - Na2S03	
Phone: 732-549-3900(Tel) 732-549-3679(Fax)	#Od									F - MeOH G - Amchlor		
Email:	# OM									H - Ascorbic Acid		
Project Name: GEI, Mineral Springs	Project #:			T	M 10 i				sieni	J - UI Water K - EDTA I - FDA	V - MCAA W - pH 4-5	
Site: AECOM, Mineral Springs	#MOSS				30 (Yes				atno	Other:	(specify)	
				1	SV		_		10			
Sample Identification . Cliant ID // sh.ID)	-	Sample		Matrix (W=water, S=solid, O=waste/oil,	A/SM mother 1/SM mother 1919_816181				nedmuN ist			
	Sample Date		Preservation Code:	নু 🏻	a)			1000	01	Special	Special Instructions/Note:	- 1
MW-20 (480-196985-1)	4/20/22	09:20		Water	×				X •			
MW-21 (480-196985-2)	4/20/22	10:00		Water	×							-
MW-13 (480-196985-3)	4/20/22	10:30		Water	>							_
MW-17 (480-196985-4)	-	Eastern 11:15		Water	<   >				-			Т
MW-16 (480-196985-5)	4/20/22	Eastern		Water	<   >				-			-
					<				<b>-</b>			
									29.1			_
												1 1
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory states should be prought to Eurofin Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation	T Testing Northeast, LL(allysis/lests/matrix being	C places the o	wnership of meth	od, analyte & e shipped bac	accreditation k to the Euro	compliance upon out	subcontract labora	tories. This sampl	le shipment is for	orwarded under cha	in-of-custody. If the laborato	
Possible Hazard Identification	an inconstant in an inc	drested accre	oliations are curre	ent to date, ret	urn the sign	ed Chain of Custody a	testing to said com	plicance to Eurofin	s Environment	Testing Northeast,	LLC.	
Unconfirmed					Sample	Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)	may be asses	assessed if sample	s are retaine	ed longer than	1 month)	
Deliverable Requested: I, II, III, IV, Other (specify)	Primary Deliverabl	ole Rank: 2			Special	Special Instructions/QC Requirements:	equirements:	sai Dy Lab	AICH	Alcillye FOR	Months	_
Empty Kit Relinquished by:		Date:			Time:			Method of Shipment:	ent	,		_

**Eurofins Buffalo** 

Selinquished by: < elinquished by: Custody Seal No.

Custody Seals Intact:

Client: GEI Consultants, Inc.

Job Number: 480-196931-1

SDG Number: 480-196931-1

List Source: Eurofins Buffalo

Login Number: 196931 List Number: 1

Creator: Yeager, Brian A

Creator: Yeager, Brian A		
Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	NATIONAL FUEL GAS SUPPLY
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

**Eurofins Buffalo** 

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Client: GEI Consultants, Inc.

Job Number: 480-196931-1

SDG Number: 480-196931-1

Login Number: 196931 List Source: Eurofins Edison
List Number: 2 List Creation: 04/21/22 11:42 AM

Creator: Armbruster. Chris

Creator: Armbruster, Chris		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	1784669
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.8°C IR9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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Client: GEI Consultants, Inc.

Job Number: 480-196931-1

SDG Number: 480-196931-1

List Source: Eurofins Buffalo

Login Number: 196985 List Number: 1

Creator: Stopa, Erik S

Greator. Stopa, Erik S		
Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
ls the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	NFG
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

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Client: GEI Consultants, Inc.

Job Number: 480-196931-1

SDG Number: 480-196931-1

Login Number: 196985
List Source: Eurofins Edison
List Number: 2
List Creation: 04/21/22 11:42 AM

Creator: Armbruster. Chris

Creator: Armbruster, Chris		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	1784669
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.8°C IR9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

**Eurofins Buffalo** 

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2022 First Semiannual Groundwater/Surface Water Quality Monitoring Report Mineral Springs Road Former MGP Site (NYSDEC #V00195) West Seneca, New York August 2022 (Revised September 2022)

# **Appendix B**

**Data Usability Review** 



Site: Mineral Springs MGP
Laboratory: Eurofins, Amherst, NY
Report Numbers: 480-196931 and 480-196985

**Reviewer:** Lorie MacKinnon/GEI Consultants

**Date:** May 31, 2022

#### **Samples Reviewed and Evaluation Summary**

FIELD ID         LAB ID         FRACTIONS VALIDATED           MW-11A         480-196931-01         BTEX, PAH, Total/Free Cyani           SW-01         480-196931-02         BTEX, PAH, Total/Free Cyani           SW-02         480-196931-03         BTEX, PAH, Total/Free Cyanide           MW-12         480-196931-04         Total/Free Cyanide           MW-14         480-196931-05         Total/Free Cyanide           MW-19         480-196931-06         BTEX, PAH           MW-23         480-196931-07         BTEX, PAH, Total/Free Cyanid           Duplicate         480-196931-08         BTEX, PAH, Total/Free Cyanide           MW-22         480-196931-10         BTEX, PAH           MW-07         480-196931-11         BTEX, PAH           MW-10         480-196931-12         BTEX           EQUIPMENT BLANK         480-196931-13         BTEX, PAH, Total/Free Cyanide           MW-20         480-196985-01         Total/Free Cyanide           MW-21         480-196985-02         Total/Free Cyanide           MW-13         480-196985-03         BTEX, PAH, Total/Free Cyanide		
SW-01       480-196931-02       BTEX, PAH, Total/Free Cyani         SW-02       480-196931-03       BTEX, PAH, Total/Free Cyani         MW-12       480-196931-04       Total/Free Cyanide         MW-14       480-196931-05       Total/Free Cyanide         MW-19       480-196931-06       BTEX, PAH         MW-23       480-196931-07       BTEX, PAH, Total/Free Cyani         Duplicate       480-196931-08       BTEX, PAH, Total/Free Cyani         MW-22       480-196931-09       Total/Free Cyanide         MW-07       480-196931-10       BTEX, PAH         MW-10       480-196931-11       BTEX, PAH         TRIP BLANK       480-196931-12       BTEX         EQUIPMENT BLANK       480-196931-13       BTEX, PAH, Total/Free Cyanide         MW-20       480-196985-01       Total/Free Cyanide         MW-21       480-196985-02       Total/Free Cyanide	FIELD ID	ONS VALIDATED
MW-22       480-196931-09       Total/Free Cyanide         MW-07       480-196931-10       BTEX, PAH         MW-10       480-196931-11       BTEX, PAH         TRIP BLANK       480-196931-12       BTEX         EQUIPMENT BLANK       480-196931-13       BTEX, PAH, Total/Free Cyanide         MW-20       480-196985-01       Total/Free Cyanide         MW-21       480-196985-02       Total/Free Cyanide	SW-01 SW-02 MW-12 MW-14 MW-19 MW-23	PAH, Total/Free Cyanide, TSS PAH, Total/Free Cyanide, TSS ee Cyanide ee Cyanide PAH PAH, Total/Free Cyanide
MW-20 480-196985-01 Total/Free Cyanide MW-21 480-196985-02 Total/Free Cyanide	MW-22 MW-07 MW-10 TRIP BLANK	ee Cyanide PAH PAH
MW-17       480-196985-04       BTEX, PAH, Total/Free Cyani         MW-16       480-196985-05       Total/Free Cyanide         TRIP BLANK       480-196985-06       BTEX	MW-20 MW-21 MW-13 MW-17 MW-16	ee Cyanide ee Cyanide PAH, Total/Free Cyanide PAH, Total/Free Cyanide

Associated QC Samples:

Equipment blank/Trip blanks: EQUIPMENT BLANK, TRIP BLANK (4/19), TRIP

BLANK (4/20)

Field duplicate pair: MW-23/Duplicate

The above-listed aqueous samples, equipment blank, and trip blank samples were collected on April 19 and 20, 2022 and were analyzed for BTEX volatile organic compounds (VOCs) by SW-846 method 8260C, polynuclear aromatic hydrocarbon (PAH) semivolatile organic compounds (SVOCs) by SW-846 method 8270D, total cyanide by SW-846 method 9012B, free cyanide by SW-846 method 9016, and total suspended solids (TSS) by Standard Methods SM2540D. The data validation was performed based on the following USEPA Region 2 Documents: Standard Operating Procedure (SOP) HW-35A (Revision 1) *Semivolatile Data Validation* (September 2016), SOP HW-33A (Revision 1) *Low/Medium Volatile Data Validation* (September 2016), and SOP 3c (Revision 1), *SOP for the Evaluation of Cyanide for the Contract Laboratory Program* (September 2016), as well as by the methods referenced by the data package and professional and technical judgment.

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Date: May 31, 2022

The data were evaluated based on the following parameters:

- Data Completeness
- Holding Times and Sample Preservation
- Initial and Continuing Calibrations
- Blanks
- Surrogate Recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results
- Laboratory Duplicate Results
- Internal Standard Results
- Laboratory Control Sample (LCS) Results
- Field Duplicate Results
- Quantitation Limits
- Sample Quantitation and Compound Identification

The following issue was noted which may have a significant impact on the data usability:

• The nondetect results for free cyanide in samples MW-13 and MW-17 were rejected (R) due to hold time exceedances. These results should not be used for decision-making purposes.

In general, all other data appear usable as reported or usable with minor qualification due to sample matrix or laboratory quality control outliers. Select results were qualified due to hold time exceedances, low level laboratory and field blank contamination, matrix spike recovery outliers, and low level uncertainty for levels below the reporting limit. These results were considered valid; even though some were qualified as discussed below.

The validation findings were based on the following information.

#### **Data Completeness**

The data package was complete as received by the laboratory.

#### **Holding Times and Sample Preservation**

All preservative criteria were met. All hold time criteria were met except where noted below.

Sample	Analysis	Hold Time Exceedance (Days)	Criteria (Days)	Validation Actions
MW-20	Free cyanide	7	14	Estimate (J) the positive results for free cyanide in samples MW-20 and MW-21;
MW-21	Free cyanide	7	14	Low bias.

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Sample	Analysis	Hold Time Exceedance (Days)	Criteria (Days)	Validation Actions
MW-13	Free cyanide	7	14	Reject (R) the nondetect result for free cyanide in sample MW-13.
MW-17	Free cyanide	7	14	Reject (R) the nondetect result for free cyanide in sample MW-17.
MW-16	Free cyanide	7	14	Estimate (J) the positive result for free cyanide in sample MW-16; Low bias.
MW-11A	Free Cyanide	3	14	Estimate (J/UJ) the positive and nondetect results for free cyanide in these samples;
SW-01		3	14	Low bias. Validation action was taken to estimate (UJ), rather than reject (R),
SW-02		3	14	nondetect results as the laboratory had initial
MW-12		3	14	results (associated with low level method blank contamination) which confirmed these
MW-14		3	14	out of hold time results.
MW-23		3	14	
Duplicate		3	14	
MW-22		3	14	
EQUIPMENT BLANK		3	14	

### **Initial and Continuing Calibrations**

All initial and continuing calibration criteria were met.

#### **Blanks**

Contamination was not detected in the associated method and instrument blank samples and equipment and trip blank samples except where noted below. Action levels were elevated for sample specific dilution factors.

Analyte	Blank ID	Maximum Concentration	2X Action Level	10X Action Level	Validation Actions
Free Cyanide	Method MB 460-842013	4.0 ug/L	8.0 ug/L	40 ug/L	These samples were re-prepped and analyzed and results from the reanalysis were used for reporting purposes. The validation action on the original results was as follows: Qualify the results for free cyanide as nondetect (U) in samples SW-01, SW-02, and EQUIPMENT BLANK. Estimate (J) the positive result for free cyanide in samples MW-11A, MW-12, MW-14, MW-23, Duplicate, and MW-22 as estimated (J); High bias.

Associated samples: Initial preparation/analysis of samples MW-11A, SW-01, SW-02, MW-12, MW-14, MW-23, Duplicate, MW-22, EQUIPMENT BLANK

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17, MW-16

Analyte	Blank ID	Maximum Concentration	2X Action Level	10X Action Level	Validation Actions
,	Equipment blank	5.6 ug/L	11.2 ug/L		Qualify the result for total cyanide as nondetect (U) in sample SW-02. Estimate (J) the positive result for total cyanide in sample SW-01 as estimated (J); High bias.

Blank Actions: If the sample result is < RL; report the result as nondetect (U) at the reporting limit (RL).

If the sample result is > RL and 2x Blank contamination; professional judgement was taken to report the result as nondetect (U) at the reported value.

If the sample result is  $\geq$  RL and < 10x Action Level; professional judgment was taken to report the sample result as estimated (J); biased high.

If the sample result is nondetect or > 10x Action Level; validation action is not required.

#### **Surrogate Recoveries**

All surrogate recovery criteria were met for samples analyzed at dilutions less than 10.

#### MS/MSD Results

MS/MSD analyses were performed on samples Duplicate and MW-16 for total cyanide and samples MW-11A and MW-16 for free cyanide. All criteria were met except where noted below.

MS Sample MW-11A						
Analyte	MS %R (%)	MSD %R (%)	RPD (%)	QC Limits	Validation Actions	
Free Cyanide 53 Criteria met S6-120 Estimate (J/UJ) the positive nondetect results for free cyanide in the associated samples; Low bias.						
Associated sar	Associated samples: MW-11A, SW-01, SW-02, MW-12, MW-14, MW-23, Duplicate, MW-22					

#### **Laboratory Duplicate Results**

Laboratory duplicate analyses were performed on sample SW-02 for total suspended solids. Criteria were met.

#### **Internal Standard Results**

All criteria were met.

#### **LCS/LCSD Results**

All recovery and precision criteria were met.

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#### **Field Duplicate Results**

Samples MW-23 and Duplicate were submitted as the field duplicate pair with this sample set. The following table summarizes the RPDs of the detected analytes in the field duplicate pair, which were within the acceptance criteria.

Analyte	MW-23 (ug/L)	Duplicate (ug/L)	RPD (%)
Benzo(k)fluoranthene	0.31 J	0.50	46.9, Within 2xRL
Chrysene	0.50 U	0.36 J	NC, Within 2xRL
Fluoranthene	0.49 J	0.74	40.7, Within 2xRL
Naphthalene	0.79	0.50 U	NC, Within 2xRL
Phenanthrene	0.50 U	0.38 J	NC, Within 2xRL
Pyrene	0.39 J	0.63	47.1, Within 2xRL
Total Cyanide	174	191	9.3
Free Cyanide	6.4	6.0	6.5

NC – Not calculable

Criteria: When both results are  $\geq 5x$  the RL, RPDs must be  $\leq 30\%$ .

When results are < 5x the RL, professional judgement was taken to estimate results if the absolute difference between the original and field duplicate > 2xRL.

#### **Quantitation Limits**

Results were reported which were below the reporting limit (RL) and above the method detection limit (MDL). These results were qualified as estimated (J) by the laboratory.

The following table lists the sample dilutions and analyses which were performed and reported.

Sample	VOC Analysis Reported	SVOC Analysis Reported	Cyanide Analysis Reported
MW-11A, SW-01, SW-02, MW-12, MW-14, MW-23, Duplicate, MW-22, EQUIPMENT BLANK	-	-	Due to method blank contamination in the initial analysis, samples were re-prepped. Re- analysis results were chosen for reporting purposes.
MW-11A	A 2-fold dilution was performed due to sample foaming when purged.	NR	NR
MW-19	A 100-fold dilution was performed due to high sample levels. RLs are elevated in this sample.	A 200-fold dilution was performed due to sample matrix. RLs are elevated in this sample.	NR
MW-07	A 40-fold dilution was performed due to non-target compound levels. RLs are elevated in this sample.	A 100-fold dilution was performed due to high sample levels. RLs are elevated in this sample.	NR

Report Numbers: 480-196931 and 480-196985

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Sample	VOC Analysis Reported	SVOC Analysis Reported	Cyanide Analysis Reported
MW-17	A 2-fold dilution was performed due to sample foaming when purged.	A 5-fold dilution was performed due to non-target compound levels. RLs are elevated in this sample.	NR
MW-22	NR	NR	A 2-fold dilution was performed for total cyanide.
MW-20	NR	NR	A 2-fold dilution was performed for total cyanide.
MW-16	NR	NR	A 20-fold dilution was performed for total cyanide.
NR – Dilution was	not required.		

## Sample Quantitation and Compound Identification

Calculations were spot-checked; no discrepancies were noted. A comparison of total and free cyanide results was performed. All sample total cyanide results exceeded those of the free cyanide.

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Date: May 31, 2022

#### DATA VALIDATION QUALIFIERS

- U The analyte was analyzed for, but due to blank contamination was flagged as nondetect (U). The result is usable as a nondetect.
- J Data are flagged (J) when a QC analysis fails outside the primary acceptance limits. The qualified "J" data are not excluded from further review or consideration. However, only one flag (J) is applied to a sample result, even though several associated QC analyses may fail. The 'J' data may be biased high or low or the direction of the bias may be indeterminable.
- UJ The analyte was not detected above the reported sample quantitation limit. Data are flagged (UJ) when a QC analysis fails outside the primary acceptance limits. The qualified "UJ" data are not excluded from further review or consideration. However, only one flag is applied to a sample result, even though several associated QC analyses may fail. The 'UJ' data may be biased low.
- NJ The analysis indicates the presence of a compound that has been "tentatively identified" (N) and the associated numerical value represents its approximate (J) concentration.
- R Data rejected (R) on the basis of an unacceptable QC analysis should be excluded from further review or consideration. Data are rejected when associated QC analysis results exceed the expanded control limits of the QC criteria. The rejected data are known to contain significant errors based on documented information. The data user must not use the rejected data to make environmental decisions. The presence or absence of the analyte cannot be verified.

Client: GEI Consultants, Inc. Project/Site: GEI, Mineral Springs Job ID: 480-196931-1 SDG: 480-196931-1

Lab Sample ID: 480-196931-1

Matrix: Ground Water

Client Samp	le ID:	MW-11A
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Date Collected: 04/19/22 11:15 Date Received: 04/19/22 14:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
Benzene	4.9		2.0	0.82	ug/L			04/20/22 14:06	2
Ethylbenzene	2.0	U	2.0	1.5	ug/L			04/20/22 14:06	2
Toluene	2.0	U	2.0	1.0	ug/L			04/20/22 14:06	2
Xylenes, Total	4.0	U	4.0	1.3	ug/L			04/20/22 14:06	2
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 120					04/20/22 14:06	2
4-Bromofluorobenzene (Surr)	102		73 - 120					04/20/22 14:06	2
Dibromofluoromethane (Surr)	110		75 - 123					04/20/22 14:06	2
Toluene-d8 (Surr)	97		80 - 120					04/20/22 14:06	2

Method: 8270D_LL_PAH	- Semivolatile O	rganic Co	mpounds (GC	C/MS) Lo	w level	PAH			
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	0.50	U	0.50	0.38	ug/L	-	04/20/22 14:51	04/21/22 16:15	1
Acenaphthene	1.4		0.50	0.30	ug/L		04/20/22 14:51	04/21/22 16:15	1
Acenaphthylene	0.87		0.50	0.34	ug/L		04/20/22 14:51	04/21/22 16:15	1
Anthracene	0.50	U	0.50	0.39	ug/L		04/20/22 14:51	04/21/22 16:15	1
Benzo[a]anthracene	0.50	u	0.50	0.40	ug/L		04/20/22 14:51	04/21/22 16:15	1
Benzo[a]pyrene	0,50	U	0.50	0.33	ug/L		04/20/22 14:51	04/21/22 16:15	1
Benzo[b]fluoranthene	0.50	U	0.50	0.30	ug/L		04/20/22 14:51	04/21/22 16:15	1
Benzo[g,h,i]perylene	0.50	U	0.50	0.37	ug/L		04/20/22 14:51	04/21/22 16:15	1
Benzo[k]fluoranthene	0.50	U	0.50	0.085	ug/L		04/20/22 14:51	04/21/22 16:15	1
Chrysene	0.50	U	0.50	0.32	ug/L		04/20/22 14:51	04/21/22 16:15	1
Dibenz(a,h)anthracene	0.50	U	0.50	0.33	ug/L		04/20/22 14:51	04/21/22 16:15	1
Fluoranthene	0.50	U	0.50	0.36	ug/L		04/20/22 14:51	04/21/22 16:15	1
Fluorene	0.50	U	0.50	0.37	ug/L		04/20/22 14:51	04/21/22 16:15	1
Indeno[1,2,3-od]pyrene	0.50	U	0.50	0.44	ug/L		04/20/22 14:51	04/21/22 16:15	- 1
Naphthalene	0,50	U	0.50	0.42	ug/L		04/20/22 14:51	04/21/22 16:15	- 1
Phenanthrene	0.50	U	0.50	0.38	ug/L		04/20/22 14:51	04/21/22 16:15	1
Pyrene	0.50	U	0.50	0.36	ug/L		04/20/22 14:51	04/21/22 16:15	31
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	93		48 - 120				04/20/22 14:51	04/21/22 16:15	1
Nitrobenzene-d5 (Surr)	79		46 - 120				04/20/22 14:51	04/21/22 16:15	7
p-Terphenyl-d14 (Surr)	72		24-136				04/20/22 14:51	04/21/22 16:15	1

	Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
J	Cyanide, Total	228	10.0	5.0	ug/L		04/26/22 16:30	04/27/22 09:17	1.
ck	Cyanide, Free	8.6 F1B J	5.0	2.3	ug/L		04/29/22 11:23	04/29/22 20:00	1
	Cyanide, Free	6.0 H J	5.0	2.3	ug/L		05/06/22 13:52	05/06/22 19:55	1
	Analyte	Result Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Total Suspended Solids	26.4	1.6	1,6	mg/L			04/22/22 14:21	1



Eurofins Buffalo

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.41	ug/L		100000000000000000000000000000000000000	04/20/22 14:29	
Ethylbenzene	1,0	U	1.0	0.74	ug/L			04/20/22 14:29	100
Toluene	1.0	U	1.0	0.51	ug/L			04/20/22 14:29	125
Xylenes, Total	2,0	u	2.0	0,66	ug/L			04/20/22 14:29	3
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		77 - 120				DECEMBER AS AREA	04/20/22 14:29	
4-Bromofluorobenzene (Surr)	102		73 - 120					04/20/22 14:29	159
Dibromofluoramethane (Surr)	111		75 - 123					04/20/22 14:29	159
Toluene-d8 (Surr)	99		80 - 120					04/20/22 14:29	55
Method: 8270D_LL_PAH - S	Semivolatile O	rganic Cor	npounds (G	C/MS) Lo	ow level	PAH			
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	0.50	U	0.50	0.38	ug/L		04/20/22 14:51	04/21/22 16:43	-
Acenaphthene	0.50	U	0.50	0.30	ug/L		04/20/22 14:51	04/21/22 16:43	- 15
Acenaphthylene	0.50	U	0.50	0.34	ug/L		04/20/22 14:51	04/21/22 16:43	55
Anthracene	0.50	U	0.50	0.39	ug/L		04/20/22 14:51	04/21/22 16:43	84
Benzo[a]anthracene	0.50	U	0.50	0.40	ug/L		04/20/22 14:51	04/21/22 16:43	24
Benzo[a]pyrene	0.50	U	0.50	0.33	ug/L		04/20/22 14:51	04/21/22 16:43	19
Benzo[b]fluoranthene	0.50	U	0.50	0.30	ug/L		04/20/22 14:51	04/21/22 16:43	39
Benzo[g,h,i]perylene	0.50	U	0.50	0.37	ug/L		04/20/22 14:51	04/21/22 16:43	1.4
Benzo[k]fluoranthene	0.50	U	0.50	0.085	ug/L		04/20/22 14:51	04/21/22 16:43	29
Chrysene	0.50	U	0.50	0.32	ug/L		04/20/22 14:51	04/21/22 16:43	25
Dibenz(a,h)anthracene	0.50	U	0.50	0.33	ug/L		04/20/22 14:51	04/21/22 16:43	58
Fluoranthene	0.50	U	0.50	0.36	ug/L		04/20/22 14:51	04/21/22 16:43	51
Fluorene	0.50	U	0.50	0.37	ug/L		04/20/22 14:51	04/21/22 16:43	- 3
Indeno[1,2,3-cd]pyrene	0.50	U	0.50	0.44	ug/L		04/20/22 14:51	04/21/22 16:43	- 3
Naphthalene	0.50	U	0.50	0.42	ug/L		04/20/22 14:51	04/21/22 16:43	51
Phenanthrene	0.50	U	0.50	0.38	ug/L		04/20/22 14:51	04/21/22 16:43	id.
Pyrane	0.50	u	0.50	0.36	ug/L		04/20/22 14:51	04/21/22 16:43	3
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	94		48 - 120				04/20/22 14:51	04/21/22 16:43	1
Nitrobenzene-d5 (Surr)	77		46 - 120				04/20/22 14:51	04/21/22 16:43	9
o-Terphenyl-d14 (Surr)	80		24 - 136				04/20/22 14:51	04/21/22 16:43	1
General Chemistry									
A TOTAL PRODUCTION OF THE PROPERTY	196000000000000000000000000000000000000	15-60 (100 pt 6-60 pt )	1960	12/20/2007	4425000	11166	V.520000110900900004		

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	29.1	J.	10.0	5.0	ug/L		04/26/22 16:30	04/27/22 09:18	1,
Cyanide, Free	5.6	B-U	5.0	2.3	ug/L		04/29/22 11:23	04/29/22 20:00	1)
Cyanide, Free	3.0	7 H .	5.0	2.3	ug/L		05/06/22 13:52	05/06/22 19:55	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	1,6	U	1.6	1.6	mg/L			04/22/22 14:21	1

Eurofins Buffalo

Client: GEI Consultants, Inc. Project/Site: GEI, Mineral Springs Job ID: 480-196931-1 SDG: 480-196931-1

Client Sample ID: SW-02
Date Collected: 04/19/22 11:00
Date Received: 04/19/22 14:20

Lab Sample ID: 480-196931-3

Matrix: Surface Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1,0	0.41	ug/L			04/20/22 14:52	.1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			04/20/22 14:52	17
Toluene	1.0	U	1.0	0.51	ug/L			04/20/22 14:52	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			04/20/22 14:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104	-	77 - 120				TO SECURE OF SECURITY.	04/20/22 14:52	1
4-Bromofluorobenzene (Surr)	99		73 - 120					04/20/22 14:52	1
Dibromofluoromethane (Surr)	111		75 - 123					04/20/22 14:52	1
Toluene-d8 (Surr)	96		80 - 120					04/20/22 14:52	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	0.50	U	0.50	0.38	ug/L		04/20/22 14:51	04/21/22 17:10	1
Acenaphthene	0.50	U	0.50	0.30	ug/L		04/20/22 14:51	04/21/22 17:10	1
Acenaphthylene	0.50	U	0.50	0.34	ug/L		04/20/22 14:51	04/21/22 17:10	1
Anthracene	0,50	U	0.50	0.39	ug/L		04/20/22 14:51	04/21/22 17:10	1
Benzo[a]anthracene	0.50	U	0.50	0.40	ug/L		04/20/22 14:51	04/21/22 17:10	1
Benzo[a]pyrene	0.50	U	0.50	0.33	ug/L		04/20/22 14:51	04/21/22 17:10	1
Benzo[b]fluoranthene	0,50	U	0.50	0.30	ug/L		04/20/22 14:51	04/21/22 17:10	1
Benzo[g,h,i]perylene	0.50	U	0.50	0.37	ug/L		04/20/22 14:51	04/21/22 17:10	11
Benzo[k]fluoranthene	0.50	U	0.50	0.085	ug/L		04/20/22 14:51	04/21/22 17:10	- 1
Chrysene	0.50	U	0.50	0.32	ug/L		04/20/22 14:51	04/21/22 17:10	
Dibenz(a,h)anthracene	0.50	U	0.50	0.33	ug/L		04/20/22 14:51	.04/21/22 17:10	1
Fluoranthene	0.50	U	0.50	0.36	ug/L		04/20/22 14:51	04/21/22 17:10	
Fluorene	0.50	U	0.50	0.37	ug/L		04/20/22 14:51	04/21/22 17:10	11
Indeno[1,2,3-cd]pyrene	0,50	U	0.50	0.44	ug/L		04/20/22 14:51	04/21/22 17:10	.1
Naphthalene	0.84		0.50	0.42	ug/L		04/20/22 14:51	04/21/22 17:10	1
Phenanthrene	0.50	U	0.50	0.38	ug/L		04/20/22 14:51	04/21/22 17:10	1
Pyrene	0.50	U	0.50	0.36	ug/L		04/20/22 14:51	04/21/22 17:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	90		48 - 120				04/20/22 14:51	04/21/22 17:10	
Nitrobenzene-d5 (Surr)	76		46 - 120				04/20/22 14:51	04/21/22 17:10	1
a-Terphenyl-d14 (Surr)	81		24 - 136				04/20/22 14:51	04/21/22 17:10	1
General Chemistry									

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L	u	rt	PO	-	٢

	General Chemistry  Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Cyanide, Total	-6.2 J 10U	10.0	5.0	ug/L		04/26/22 16:30	04/27/22 09:19	1.
-	Cyanide, Free	5.2 B U	5.0	2.3	ug/L		04/29/22 11:23	04/29/22 20:00	1
	Cyanide, Free	5.0 UH UJ.	5.0	2.3	ug/L		05/06/22 13:52	05/06/22 19:55	1
	Analyte	Result Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Total Suspended Solids	1.6 U	1.6	1.6	mg/L			04/22/22 14:21	1

Eurofins Buffalo

Client: GEI Consultants, Inc. Project/Site: GEI, Mineral Springs

Job ID: 480-196931-1

SDG: 480-196931-1

Client Sample ID: MW-12 Date Collected: 04/19/22 12:30 Date Received: 04/19/22 14:20

Lab Sample ID: 480-196931-4

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MA	to false	1
40	UOT	1€
	CLDO -	100
	-	C

	General Chemistry Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Cyanide, Total	1060	10.0	5.0	ug/L		04/26/22 16:30	04/27/22 09:21	11
	Cyanide, Free	15.3 B J	5.0	2.3	ug/L		04/29/22 11:23	04/29/22 20:00	1
١	Cyanide, Free	8.9 H J.	5.0	2.3	ug/L		05/06/22 13:52	05/06/22 19:55	1

Client: GEI Consultants, Inc. Project/Site: GEI, Mineral Springs

Job ID: 480-196931-1 SDG: 480-196931-1

Client Sample ID: MW-14 Date Collected: 04/19/22 10:15 Date Received: 04/19/22 14:20

Lab Sample ID: 480-196931-5

	General Chemistry Analyte	Result Qua	alifier	RL	MDL	Unit	D	Prepared	Analyzed	Dilf
	Cyanide, Total	568		10.0		ug/L	- 659	11 × 11 × 10 × 10 × 10 × 10 × 10 × 10 ×	The second secon	Dil Fac
1	Cyanide, Free	12,5 B	T			1158W			04/27/22 09:22	1)
-	Cyanide, Free	1942 N 1901	-	5.0	2.3	ug/L		04/29/22 11:23	04/29/22 20:00	1 ]
	Cyamac, 1166	8.3 H	1.	5.0	2.3	ug/L		05/06/22 13:52	05/06/22 20:15	1

Client: GEI Consultants, Inc. Project/Site: GEI, Mineral Springs

Job ID: 480-196931-1 SDG: 480-196931-1

Client Sample ID: MW-19 Date Collected: 04/19/22 10:55 Date Received: 04/19/22 14:20

Lab Sample ID: 480-196931-6

0.070	Qualifier	RL	MDL	Unit	D	Charles and the	92 10 10	
4100		11/4011			U	Prepared	Analyzed	Dil Fac
470		800					04/20/22 15:15	100
0.60%	lares .	342					04/20/22 15:15	100
10,000	0.00	11 (3.54)		1			04/20/22 15:15	100
200	U	200	66	ug/L			04/20/22 15:15	100
%Recovery	Qualifier	l imite				8	CONTRACTOR AND STREET	10,000
					100	Prepared	Analyzed	Dil Fac
							04/20/22 15:15	100
27.F							04/20/22 15:15	100
9500							04/20/22 15:15	100
							04/20/22 15:15	100
	470 100 200 %Recovery 102 98 109 97	470 100 U 200 U %Recovery Qualifier 102 98 109 97	### 100	4100 100 41 470 100 74 100 U 100 51 200 U 200 66   **Recovery Qualifier Limits 102 77 - 120 98 73 - 120 109 75 - 123 97 80 - 120	### ##################################	4100 100 41 ug/L 470 100 74 ug/L 100 U 100 51 ug/L 200 U 200 66 ug/L  %Recovery Qualifier Limits 102 77 - 120 98 73 - 120 109 75 - 123	### ### ##############################	4100 100 41 ug/L 04/20/22 15:15 470 100 74 ug/L 04/20/22 15:15 100 U 100 51 ug/L 04/20/22 15:15 200 U 200 66 ug/L 04/20/22 15:15  %Recovery Qualifier Limits Prepared Analyzed 102 77 - 120 04/20/22 15:15 109 75 - 123 04/20/22 15:15 97 80 - 120 04/20/22 15:15

Method: 8270D_LL_PAI	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	no es
2-Methylnaphthalene	100	U	100	76	TO SECURITY OF STREET	_	04/20/22 14:51	the contract of the contract o	Dil Fac
Acenaphthene	100	U	100	60					200
Acenaphthylene	100	U	100	68			04/20/22 14:51	04/21/22 17:38	200
Anthracene	100		100		ug/L		04/20/22 14:51	04/21/22 17:38	200
Benzo[a]anthracene	100			78	ug/L		04/20/22 14:51	04/21/22 17:38	200
Benzo[a]pyrene		3 (1,774)	100	80	ug/L		04/20/22 14:51	04/21/22 17:38	200
Benzo[b]fluoranthene	100	27,00	100	66	ug/L		04/20/22 14:51	04/21/22 17:38	200
Benzo[g,h,i]perylene	100		100	60	ug/L		04/20/22 14:51	04/21/22 17:38	200
22 D. A. A. M.	100		100	74	ug/L		04/20/22 14:51	04/21/22 17:38	200
Benzo[k]fluoranthene	100		100	17	ug/L		04/20/22 14:51	04/21/22 17:38	
Chrysene	100	u	100	64	ug/L		04/20/22 14:51	1 (2) [2] [2] [2] [3] [3] [4] [4] [4] [4] [4]	200
Dibenz(a,h)anthracene	100	u	100	66	ug/L		04/20/22 14:51	04/21/22 17:38	200
Fluoranthene	100	U	100	72	ug/L			04/21/22 17:38	200
Fluorene	100	U	100	74			04/20/22 14:51	04/21/22 17;38	200
Indeno[1,2,3-cd]pyrene	100	U	100	100	ug/L		04/20/22 14:51	04/21/22 17:38	200
Naphthalene	5700	250		30,000	ug/L		04/20/22 14:51	04/21/22 17:38	200
Phenanthrene	100	ores:	100		ug/L		04/20/22 14:51	04/21/22 17:38	200
Pyrene	0.000		100	76	ug/L		04/20/22 14:51	04/21/22 17:38	200
#.000 ps.7001	100	U	100	72	ug/L			04/21/22 17:38	200
Surrogate	%Recovery	Qualifier	Limits				\$2000 WY2575		
	The second of th	THE STREET STREET	4.11111123				Character and the second	21 12 13	

Surrogate	%Recovery	Qualifier	Limits	8200000000000		
2-Fluorobiphenyl	92	3333333	48 - 120	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	64			04/20/22 14:51	04/21/22 17:38	200
p-Terphenyl-d14 (Sum)	592		46 - 120	04/20/22 14:51	04/21/22 17:38	200
The state of the s	65		24 - 136	04/20/22 14:51	04/21/22 17:38	

Client: GEI Consultants, Inc. Project/Site: GEI, Mineral Springs

Job ID: 480-196931-1 SDG: 480-196931-1

Client Sample ID: MW-23 Date Collected: 04/19/22 09:50 Date Received: 04/19/22 14:20

Lab Sample ID: 480-196931-7

Matrix: Ground Water

Analyte	Result	Qualifier	RL	MDL	Unit	D			
Benzene	1.0	Ü	1.0	4103		D	Prepared	Analyzed	Dil Fac
Ethylbenzene	1.0	Ü		0.41	ug/L			04/20/22 15:45	
Toluene		377	1.0	0.74	ng/L			04/20/22 15:45	1
Xylenes, Total	1.0	U	1.0	0.51	ug/L			04/20/22 15:45	
Ayleries, Ibusi	2.0	u	2.0	0,66	ug/L			04/20/22 15:45	
Surrogate	%Recovery	Qualifier	Limits						
t_2-Dichloroethane-d4 (Surr)	101		77 - 120				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101							04/20/22 15:45	1
Dibromofluoromethane (Surr)			73 - 120					04/20/22 15:45	7
	112		75 - 123					04/20/22 15:45	4
Toluene-d8 (Surr)	95		80 - 120					04/20/22 15:45	4

M. W. J. COTOR 11							V#20/22 10.40	. 1
Method: 8270D_LL_PAH Analyte	- Semivolatile C	Organic Co	mpounds (G		A to the second			
2-Methylnaphthalene	0.50	27 102 10 20 10 10 10 10 10 10 10 10 10 10 10 10 10	0.50	0.38		repared	Analyzed	Dil Fac
Acenaphthene	0.50	0.00	0.50	47433		04/20/22 14:51		8 50
Acenaphthylene	0.50	N 19 7-2	0.50	0.30		04/20/22 14:51		1
Anthracene	0.50	11 12 13 15 15	D.50	0.34		04/20/22 14:51	100	0 10
Benzo[a]anthracene	0.50	10711	116767611	0.39		04/20/22 14:51	04/21/22 18:05	1
Benzo[a]pyrene	0.50		0.50	0.40	27.0	04/20/22 14:51	The state of the s	1
Benzo[b]fluoranthene	0.31		0.50	0.33	37.00	04/20/22 14:51		1
Benzo[g,h,i]perylene	0.50		0.50	0.30		04/20/22 14:51		8 8
Benzo[k]fluoranthene	0.50		0.50	0.37	\$13850 X	04/20/22 14:51	04/21/22 18:05	1
Chrysene	0.50	ANE.	0.50	0.085		04/20/22 14:51	04/21/22 18:05	
Dibenz(a,h)anthracene	0.50	X31723	0.50	0.32	40	04/20/22 14:51	04/21/22 18:05	
Fluoranthene		37	0.50		ug/L	04/20/22 14:51	04/21/22 18:05	- 1
Fluorene	0.49	100	0.50	0.36		04/20/22 14:51	04/21/22 18:05	15
Indeno[1,2,3-cd]pyrene	55034	0,77	0.50	0.37	100	04/20/22 14:51	04/21/22 18:05	35
Naphthalene	0,50	U	0.50		ug/L	04/20/22 14:51	04/21/22 18:05	15
Phenanthrene	0.79	99	0.50		ug/L	04/20/22 14:51	04/21/22 18:05	- 1
Pyrene	0.50	U	0.50	0.38		04/20/22 14:51	04/21/22 18:05	1
rytene	0.39	J	0.50	0.36	ug/L	04/20/22 14:51	04/21/22 18:05	1
Surrogate	%Recovery	Qualifier	Limits			25 33		
2-Fluorobiphenyl	95	22000	48 - 120			Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	81		46 - 120			04/20/22 14:51	04/21/22 18:05	1
o-Terphenyl-d14 (Surr)	79		24 - 136			04/20/22 14:51	04/21/22 18:05	1
FACTORION DE DESTAN	06.50		24-130			04/20/22 14:51	04/21/22 18:05	1
General Chemistry								
Analyte	Result	Qualifier	RL	MDL	Unit D	- Barrows to the same	Carlo Car	
Cyanide, Total	174	STATE OF THE PARTY	10.0	111000000000000000000000000000000000000	Unit D	Prepared	Analyzed	Dil Fac
Consider Cons	(525.7)		7,000	0.0	Wy'L	04/26/22 16:30	04/27/22 09-24	

5.0

5.0

2.3 ug/L

2.3 ug/L

Cyanide, Free

Cyanide, Free

Eurofins Buffalo

04/26/22 16:30 04/27/22 09:24

04/29/22 11:23 04/29/22 20:00

05/06/22 13:52 05/06/22 20:15

9.0 B J

6.4 H J.

Client: GEI Consultants, Inc. Project/Site: GEI, Mineral Springs

Job ID: 480-196931-1 SDG: 480-196931-1

Lab Sample ID: 480-196931-8 Matrix: Ground Water

Client Sample ID: Duplicate Date Collected: 04/19/22 09:55

Date Received: 04/19/22 14:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	20 20 0	
Benzene	1.0	U	1.0	1000	ug/L	-	rrepared	Analyzed	Dil Fac
thylbenzene	1.0	U	1.0		11/10/11/11			04/20/22 16:08	
oluene	1.0		2222		ug/L			04/20/22 16:08	
ylenes. Total	9/5/9	100	1.0	0.51	ug/L			04/20/22 16:08	1
tyrenes, rotal	2.0	U	2:0	0.66	ug/L			04/20/22 16:08	1
urrogate	%Recovery	Qualifier	Limits				2		
.2-Dichloroethane-d4 (Surr)	100	7	77 - 120				Prepared	Analyzed	Dil Fac
-Bromofluorobenzene (Surr)	99							04/20/22 16:08	1
ibromofluoromethane (Surr)			73 - 120					04/20/22 16:08	1
(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	111		75-123					04/20/22 16:08	4
oluene-d8 (Surr)	95		80 - 120					04/20/22 16:08	1
Method: 8270D_LL_PAH - S	emivolatile Or	ganic Con	nnounde (CC	MELL					
nalyte	Popult	Qualifier	RL RL	MDL		PAH			

Analyte	Result	Qualifier	RL	the second second	Unit	D	Prepared	Analyzed	DU C
2-Methylnaphthalene	0.50	U	0.50	0.38	ug/L		04/20/22 14:51		Dil Fac
Acenaphthene	0.50	Ų	0.50		ug/L		04/20/22 14:51		
Acenaphthylene	0.50	u	0.50	0.34			04/20/22 14:51	04/21/22 18:33	1
Anthracene	0.50	u	0.50	0.39	100			04/21/22 18:33	1
Benzo[a]anthracene	0.50	U	0,50	0.40	0.50000 1.51		04/20/22 14:51	04/21/22 18:33	1
Benzo[a]pyrene	0.50	u	0.50	0.33			04/20/22 14:51	04/21/22 18:33	1
Benzo[b]fluoranthene	0.50		0.50	0.30	1000000		04/20/22 14:51	04/21/22 18:33	1
Benzo(g,h,i)perylene	0.50	П	0.50	0.37	ug/L		04/20/22 14:51	04/21/22 18:33	1
Benzo(k)fluoranthene	0.50		0.50		ug/L		04/20/22 14:51	04/21/22 18:33	
Chrysene	0.36		0.50	0.085	ug/L		04/20/22 14:51	04/21/22 18:33	- 1
Dibenz(a,h)anthracene	0.50	(1) T (1)		0.32	ug/L		04/20/22 14:51	04/21/22 18:33	31
Fluoranthene	0.74		0.50	0.33	ug/L		04/20/22 14:51	04/21/22 18:33	11
Fluorene			0.50	0.36	ug/L		04/20/22 14:51	04/21/22 18:33	
Indeno[1,2,3-cd]pyrene	0.50		0.50		ug/L		04/20/22 14:51	04/21/22 18:33	11
Naphthalene	0.50	3000	0.50		ug/L		04/20/22 14:51	04/21/22 18:33	1
Phenanthrene	0.50	0.00	0.50	0.42	ug/L		04/20/22 14:51	04/21/22 18:33	9
	0.38	J	0.50	0.38	ug/L		04/20/22 14:51	04/21/22 18:33	3
Pyrene	0.63		0.50	0.36	ug/L		04/20/22 14:51	04/21/22 18:33	1
Surrogate	%Recovery	Qualifier	Limits				Interior N	12 12	1100
2. Et jorohinham d							Prepared	Analyzed	Dil Fac

Dil Fac
200
33 1
33 1
200
33 1
or carrierances
28 1
00 1)
and the second s
8: 8:

5.0

2.3 ug/L

6.0 H J



05/06/22 13:52 05/06/22 20:15

Client: GEI Consultants, Inc. Project/Site: GEI, Mineral Springs

Job ID: 480-196931-1 SDG: 480-196931-1

Client Sample ID: MW-22 Date Collected: 04/19/22 12:25 Date Received: 04/19/22 14:20

Lab Sample ID: 480-196931-9

	General Chemistry  Analyte	Result	Qualifier	RL	MDI	Unit	727	RENSET SHOO		
	Cyanide, Total	614	55072 500 (FRE)		-	200	D	Prepared	Analyzed	Dil Fac
-	Cyanide, Free	70.00		20.0	10.0	ug/L		04/27/22 10:45	04/27/22 15:07	2
40		16,4	8 J	5.0	2.3	ug/L			04/29/22 20:00	
1	Cyanide, Free	15.3	H- T.	5.0	23	ug/L				
					2.0	og L		00/00/22 13:52	05/06/22 20:15	12

Client: GEI Consultants, Inc. Project/Site: GEI, Mineral Springs

Job ID: 480-196931-1 SDG: 480-196931-1

Lab Sample ID: 480-196931-10

04/20/22 14:51 04/21/22 19:01

04/20/22 14:51 04/21/22 19:01

Matrix: Ground Water

Client Sample ID: M	W-07
Date Collected: 04/40/22	

Date Received: 04/19/22 14:20

p-Terphenyl-d14 (Surr)

Method: 8260C - Volatile	)	2 2 5 6	2012 GW2H9						
Method: 8260C - Volatile C Analyte	Jrganic Comp Resu	ounds by ( It Qualifier	GC/MS RL	Mod	· Market	1.60	S PANCONCRIPENCE		
Benzene	42		40	MDL	-	D	Prepared	Analyzed	Dil Fa
Ethylbenzene	91	(5)	40	16	110000			04/20/22 16:31	- 4
Toluene	4	Albinaryor .	40	30	7.0			04/20/22 16:31	40
Xylenes, Total	411	1000		20	1.0			04/20/22 16:31	340
	3.0	× 1	80	26	ug/L			04/20/22 16:31	40
Surrogate	%Recover	Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	100	The state of the s	77 - 120				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100	)	73 - 120					04/20/22 16:31	44
Dibromofiuoromethane (Surr)	109		75-123					04/20/22 16:31	40
Toluene-d8 (Surr)	99	,	80 - 120					04/20/22 16:31	40
								04/20/22 16:31	40
Method: 8270D_LL_PAH -	Semivolatile C	rganic Co	mpounds (GC	MS) L	ow level	PAH			
Disposition in the second second	Result	Qualifier	RL	MDL	Unit	D	Prepared	0.0000000000000000000000000000000000000	
2-Methylnaphthalene	190		50	38		_	04/20/22 14.51	Analyzed	Dil Fac
Acenaphthene	110		50	30	ug/L		04/20/22 14:51	O HE HEE TOUT	100
Acenaphthylene	50	U	50	34	ug/L		04/20/22 14:51		100
Anthracene	50	U	50	39	ug/L		04/20/22 14:51		100
Benzo[a]anthracene	50	U	50	40	ug/L		04/20/22 14:51	- 12.01	100
Benzo[a]pyrene	50	U	50	33	ug/L				100
Benzo[b]fluoranthene	50	u	50	30	ug/L		04/20/22 14:51	The feet and the second	100
Benzo[g,h,i]perylene	50	U	50	37	ug/L		04/20/22 14:51	04/21/22 19:01	100
Benzo(k)fluoranthene	50	U	50	8.5	ug/L		04/20/22 14:51	04/21/22 19:01	100
Chrysene	50	u	50	32	ug/L		04/20/22 14:51	04/21/22 19:01	100
Dibenz(a,h)anthracene	50	U	50	33	0.000		04/20/22 14:51	CONTRACTOR OF THE PROPERTY OF	100
luoranthene	50	U	50		ug/L		04/20/22 14:51		100
luorene	50	U	50	36	ug/L		04/20/22 14:51		100
ndeno[1,2,3-cd]pyrene	50	1678	50	37	ug/L		04/20/22 14:51	04/21/22 19:01	100
laphthalene	2100	(M)	50		ug/L		04/20/22 14:51	04/21/22 19:01	100
henanthrene	50	U	50		ug/L		04/20/22 14:51	04/21/22 19:01	100
yrene	50	1770	50		ug/L		04/20/22 14:51	04/21/22 19:01	100
EURAPUGISTANCIE:			. DV	36	ug/L		04/20/22 14:51	04/21/22 19:01	100
urrogate	%Recovery	Qualifier	Limits				Prepared	W-15	
-Fluorobiphenyl	107		48 - 120			9	04/20/22 14:51	Analyzed 04/21/22 19:01	Dil Fac
litrobenzene-d5 (Surr)	65		46 - 120				04/20/22 14:51		100
Township and the a second						534	W TO R A DE REAL PROPERTY AND A SECOND SECON	CHREST STATE SERVING	45.00

24 - 136

53

100

Client: GEI Consultants, Inc. Project/Site: GEI, Mineral Springs

Job ID: 480-196931-1 SDG: 480-196931-1

Client Sample ID: MW-10 Date Collected: 04/19/22 09:10 Date Received: 04/19/22 14:20

Lab Sample ID: 480-196931-11

Analyte	Result	Qualifier	RL	MDL	Linit	D	200000000000000000000000000000000000000	27 27 19	
Benzene	1.0	U	1.0		San State		Prepared	Analyzed	Dil Fac
Ethylbenzene	1,0	777		0.41				04/20/22 16:55	- 3
Toluene			1.0	0,74	ug/L			04/20/22 16:55	1
	1.0	U	1.0	0.51	ug/L			04/20/22 16:55	
Xylenes, Total	2.0	U	2.0	0.66	And the second second			04/20/22 16:55	5
Surrogate	%Recovery	Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	107	200000	77 - 120				Prepared	Analyzed	Dil Fac
-Bromofluorobenzene (Surr)	101		M. G. Control					04/20/22 16:55	1
Dibromofluoromethane (Surr)			73 - 120					04/20/22 16:55	1
200 P. H. C.	113		75 - 123					04/20/22 16:55	4
Taluene-dB (Surr)	97		80 - 120					04/20/22 16:55	- 1

			00 - 120				04/20/22 16:55	
Method: 8270D_LL_PAH Analyte	H - Semivolatile C	rganic Co	mpounds (G					
2-Methylnaphthalene	0.50	The state of the s	RL	MDL	T08577	Prepared	Analyzed	Dil Fac
Acenaphthene	0.50		0.50	0.38	270	04/20/22 14:51	04/21/22 19:29	1
Acenaphthylene	1000	32-7-8	0.50	0.30		04/20/22 14:51	04/21/22 19:29	1
Anthracene	0.50		0.50	0.34	ug/L	04/20/22 14:51	04/21/22 19:29	- 1
Benzo[a]anthracene	0.50		0.50	0.39	ug/L	04/20/22 14:51	04/21/22 19:29	
	0.50		0.50	0.40	ug/L	04/20/22 14:51	04/21/22 19:29	
Benzo[a]pyrene	0.50		0,50	0.33	ug/L	04/20/22 14:51	04/21/22 19:29	4
Benzo[b]fluoranthene	0.50		0.50	0.30	ug/L	04/20/22 14:51		4
Benzo[g,h,i]perylene	0.50	U	0.50	0.37	ug/L	04/20/22 14:51	04/21/22 19:29	
Benzo[k]fluoranthene	0.50	U	0.50	0.085	ug/L	04/20/22 14:51	04/21/22 19:29	
Chrysene	0.50	U	0.50	0.32	(L1707)	04/20/22 14:51	04/21/22 19:29	- 13
Dibenz(a,h)anthracene	0.50	U	0.50	0.33	- C	04/20/22 14:51		3.
Fluoranthene	0.50	U	0.50	0.36		04/20/22 14:51	04/21/22 19:29	.1
Fluorene	0.50	U	0.50	0.37			04/21/22 19:29	- 1
Indeno[1,2,3-cd]pyrene	0.50	ü	0.50	0.44		04/20/22 14:51	04/21/22 19:29	1
Naphthalene	1,3		0.50			04/20/22 14:51	04/21/22 19:29	1
Phenanthrene	0.50	Ü	0.50	0.42		04/20/22 14:51	04/21/22 19:29	1
Pyrene	0.50	u		0.38		04/20/22 14:51	04/21/22 19:29	1
13	0.50	S.	0.50	0.36	ug/L	04/20/22 14:51	04/21/22 19:29	1
Surrogate	%Recovery	Qualifier	Limits			VIEW ROSE CON		
?-Fluorabiphenyl	104		48 - 120			Prepared	Analyzed	Dil Fac
Vitrobenzene-d5 (Surr)	86		46 - 120			04/20/22 14:51	04/21/22 19:29	1
-Terphenyl-d14 (Surr)	84					04/20/22 14:51	04/21/22 19:29	7
	94		24 - 136			04/20/22 14:51	04/21/22 19:29	7

Client: GEI Consultants, Inc. Project/Site: GEI, Mineral Springs

Job ID: 480-196931-1

SDG: 480-196931-1

Client Sample ID: TRIP BLANK

Date Collected: 04/19/22 00:00 Date Received: 04/19/22 14:20

Lab Sample ID: 480-196931-12

Matrix: Water

Method: 8260C - Volatile C Analyte Benzene	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	B11 B
	1.0	U	1.0	0.41	ug/L		- inchaired		Dil Fac
Ethylbenzene	1.0	U	1.0	0.74	ug/L			04/20/22 17:18	
Toluene Xylenes, Total	1.0	U	1.0		6870			04/20/22 17:18	11
	2.0	27.75		0.51	ug/L			04/20/22 17:18	- 1
	ALC: N	0	2.0	0.66	ug/L			04/20/22 17:18	
Surrogate	%Recovery	Qualifier	Limits					100	- 2
1,2-Dichloroethane-d4 (Surr)	106		77 - 120				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102							04/20/22 17:18	- 1
Dibromofluoromethane (Surr)	115		73 - 120					04/20/22 17:18	
Toluene-d8 (Surr)			75 - 123					04/20/22 17:18	
10 10	98		80 - 120					04/20/22 17:18	10

Client: GEI Consultants, Inc. Project/Site: GEI, Mineral Springs

Job ID: 480-196931-1

SDG: 480-196931-1

Client Sample ID: EQUIPMENT BLANK

Date Collected: 04/19/22 10:30 Date Received: 04/19/22 14:20

Lab Sample ID: 480-196931-13

Matrix: Water

Method: 8260C - Volatile Org	Resul	t Qualifier	RL	MDI	L Unit	1	Prepared	Analysis	Light of the con-
Benzene	1.0	U	1.0	0.4	and the state of t		repared	Analyzed	Dil Fa
Ethylbenzene	1.0	U	1.0	0.74	Section Control of the Control of th			04/20/22 17:41	
Toluene	1.0	U	1.0	0.51	10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			04/20/22 17:41	
Xylenes, Total	2.0	U	2.0		ug/L			04/20/22 17:41	
Surrogate	%Recovery	Qualifier	Limits					STOCKED AND A ST	
1,2-Dichloroethane-d4 (Surr)	106	Approximately at 15 cm.	77 - 120				Prepared	Analyzed	Dil Fac
4-Bromofluarobenzene (Surr)	100	,	73 - 120					04/20/22 17:41	
Dibramafluoromethane (Surr)	113	i	75 - 123					04/20/22 17:41	
Toluene-d8 (Surr)	97		80 - 120					04/20/22 17:41	
	AC 13							04/20/22 17:41	7
Method: 8270D_LL_PAH - Se Analyte	mivolatile O	rganic Co	mpounds (G	C/MS) L	ow level	PAH			
2-Methylnaphthalene	Kesuit	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dif Fac
Acenaphthene	0.50	(102 <u>m</u> .6)	0.50	0.38	ug/L		04/20/22 14:51	Committee of the Control of the Cont	1
Acenaphthylene	0.50		0.50	0.30	ug/L		04/20/22 14:51		
Anthracene	0.50	100	0.50	0.34	ug/L		04/20/22 14:51		19
Benzo(a)anthracene	0.50		0.50	0.39	ug/L		04/20/22 14:51	04/21/22 19:57	
Benzo(a)pyrene	0.50		0.50	0.40	ug/L			04/21/22 19:57	
Benzo[b]fluoranthene	0.50		0.50	0.33	ug/L			04/21/22 19:57	
[1] [1] [1] [1] [2] [3] [4] [4] [4] [4] [4] [4] [5] [5] [6] [6]	0,50		0.50	0.30	ug/L		04/20/22 14:51		
Benzo(g.h.i)perylene	0.50	U	0.50	0.37	ug/L		04/20/22 14:51	The second second	- E
Benzo[k]fluoranthene	0.50	U	0.50	0.085	ug/L		04/20/22 14:51	THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.	- 1
Chrysene	0,50	U	0.50	0.32	ug/L		04/20/22 14:51	04/21/22 19:57	
Dibenz(a,h)anthracene	0.50	U	0.50	0.33	ug/L		04/20/22 14:51	04/21/22 19:57	- 3
Fluoranthene	0,50	U	0.50	0.36	ug/L		04/20/22 14:51		- 1
Fluorene	0.50	U	0.50	0.37	ug/L		04/20/22 14:51	04/21/22 19:57	1
ndeno[1,2,3-cd]pyrene	0.50	u	0.50	200	ug/L			04/21/22 19:57	3
Naphthalene	0.50	u	0.50	0.42	The second secon		04/20/22 14:51	04/21/22 19:57	1
Phenanthrene	0.50	U	0.50		ug/L		04/20/22 14:51	04/21/22 19:57	1
Pyrene.	0.50	u	0.50	0.36			04/20/22 14:51 04/20/22 14:51	04/21/22 19:57 04/21/22 19:57	1
Surrogate	%Recovery	Qualifier	Limits		8			VILLIE 10:01	3.
2-Fluorobiphenyl	101	wominer	48 - 120				Prepared	Analyzed	Dil Fac
litrobenzene-d5 (Surr)	85		46 - 120				04/20/22 14:51	04/21/22 19:57	1
-Torphenyl-d14 (Surr)	100		24 - 136				04/20/22 14:51	04/21/22 19:57	1
`I Ok : .			and the same of th				04/20/22 14:51	04/21/22 19:57	1
General Chemistry	10.000		14.14						
7.4.7.4	Result	Qualifier	RL.	MDL	11-14	D	Prepared	Analyzed	

5.0 ug/L

2.3 ug/L

2.3 ug/L

04/27/22 10:45 04/27/22 13:59

04/29/22 11:23 04/29/22 20:00

05/06/22 13:52 05/06/22 20:15

Cyanide, Total

Cyanide, Free

Cyanide, Free

Eurofins Buffalo

10.0

5.0

5.0

5.6 J ·

5.6-B- U

5.0 UH UJ.

Client; GEI Consultants, Inc. Project/Site: GEI, Mineral Springs

Job ID: 480-196931-1 SDG: 480-196931-1

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SDG: 480-196931-

Client Sample ID: MW-20 Date Collected: 04/20/22 09:20 Date Received: 04/20/22 12:45

Lab Sample ID: 480-196985-1 Matrix: Water

General Chemistry Analyte	Result Qualifier		55200	UWAGER				
Cyanide, Total		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Free	754 9.1 H- J	20.0	10.0	ug/L		04/27/22 10:45	04/27/22 15:08	
Cyanide, Free		5.0	2.3	ug/L				
			27775	- Bir		US/11/22 14:49	05/11/22 21:15	1

Client: GEI Consultants, Inc. Project/Site: GEI, Mineral Springs

Job ID: 480-196931-1

SDG: 480-196931-1

Client Sample ID: MW-21 Date Collected: 04/20/22 10:00 Date Received: 04/20/22 12:45

Lab Sample ID: 480-196985-2

General Chemistry Analyte	Result	Qualifier	RL	MDL	Unit	D	D		
Cyanide, Total	343			The state of the s	00,000,000	1170	Prepared	Analyzed	Dil Fac
Cyanide, Free	10000	www.d	10.0	5.0	ug/L		04/27/22 10:45	04/27/22 14:07	4
Cyanide, Free	3.4	JH -	5.0	2.3	ug/L			05/11/22 21:15	
		1.7			3715		00111122 14,45	03/11/22 21:15	1

Client: GEI Consultants, Inc. Project/Site: GEI, Mineral Springs

Job ID: 480-196931-1 SDG: 480-196931-1

Client Sample ID: MW-13 Date Collected: 04/20/22 10:30 Date Received: 04/20/22 12:45

Lab Sample ID: 480-196985-3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	00400042000991	12272
Benzene	1.0	U	1.0	0.41	ug/L	-	rrepared	Analyzed	Dil Fac
Ethylbenzene	1.0	ET.		330781				04/21/22 19:30	1
Toluene	1.0		1.0	0.74	- In the Control of t			04/21/22 19:30	1
Xylenes, Total	2371		1.0	0.51	ug/L			04/21/22 19:30	1
Ayidiles, Iotal	2.0	U	2.0	0.66	ug/L			04/21/22 19:30	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	09444400044	S VEZNOSES ES
1.2-Dichlaroethane-d4 (Surr)	100	and the second second	77 - 120				rrepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		73 - 120					04/21/22 19:30	1
Dibromofluoromethane (Surr)	85							04/21/22 19:30	7
Toluene-d8 (Surr)			75.123					04/21/22 19:30	1
isiasia da lanu)	96		80 - 120					04/21/22 19:30	- 1

TWISE AT THE			2525772255					04/21/22 19:30	1
Method: 8270D_LL_PAH Analyte	I - Semivolatile C	Organic Co		C/MS) L	ow level				
2-Methylnaphthalene	0.50	DAY COURSESSED STORY	RL		Unit	D	· · · · · · · · · · · · · · · · · · ·	Analyzed	Dil Fac
Acenaphthene	0.50	9.14570F	0.50	0.38			04/20/22 14:5	04/21/22 20:24	1
Acenaphthylene	0.50		0.50	0.30			04/20/22 14:51	04/21/22 20:24	1
Anthracene	0.50		0.50	0,34			04/20/22 14:51	04/21/22 20:24	- 1
Benzo[a]anthracene		53176	0,50	0.39			04/20/22 14:51	04/21/22 20:24	9
Benzo[a]pyrene	0.50		0.50	0.40			04/20/22 14:51	04/21/22 20:24	4
Benzo[b]fluoranthene	0.50		0.50	0.33	ug/L		04/20/22 14:51	04/21/22 20:24	4
Benzo[g,h,i]perylene	0.50	5.7	0.50	0.30	ug/L		04/20/22 14:51	04/21/22 20:24	1
	0.50	25	0.50	0.37	ug/L		04/20/22 14:51	04/21/22 20:24	. 4
Benzo(k)fluoranthene	0.50	-	0.50	0.085	ug/L		04/20/22 14:51		
Chrysene	0.50		0.50	0.32	ug/L		04/20/22 14:51		
Dibenz(a,h)anthracene	0.50		0.50	0.33	ug/L		04/20/22 14:51	The second secon	- 4
Fluoranthene	0.50	U	0.50	0.36	ug/L		04/20/22 14:51	04/21/22 20:24	
Fluorena	0.50	U	0.50		ug/L		04/20/22 14:51	04/21/22 20:24	3
Indeno[1,2,3-cd]pyrene	0.50	U	0.50		ug/L		04/20/22 14:51	04/21/22 20:24	- 3
Naphthalene	0.50	U	0.50		ug/L		04/20/22 14:51	04/21/22 20:24	4
Phenanthrene	0.50	U	0.50		ug/L		04/20/22 14:51	04/21/22 20:24	
Pyrene	0.50	u	0.50		ug/L		04/20/22 14:51	04/21/22 20:24	1
Surrogate	%Recovery	Qualifier	Limits						
2-Fluorobiphenyl	65	200000	48 - 120				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	56		46 - 120				04/20/22 14:51	04/21/22 20:24	1
p-Terphenyl-d14 (Surr)	73		24 - 136				04/20/22 14:51	04/21/22 20:24	1
AND SOMEONE WAS A PROPERTY OF THE SOUTH OF T			24-130				04/20/22 14:51	04/21/22 20:24	7
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analysis	6W-6
Cyanide, Total	10.0	U	10.0	20000000	ug/L		04/27/22 10:45	Analyzed	Dil Fac
Cyanide, Free	5.0	UH R	5.0		ug/L		05/11/22 14:49	04/27/22 14:08 05/11/22 21:15	1
							ALL PROPERTY OF THE PARTY OF TH	- TILE E 1. 13	

Client: GEI Consultants, Inc. Project/Site: GEI, Mineral Springs

Job ID: 480-196931-1 SDG: 480-196931-1

Client Sample ID: MW-17 Date Collected: 04/20/22 11:15 Date Received: 04/20/22 12:45

Lab Sample ID: 480-196985-4

Matrix: Water

Method: 8260C - Volatile ( Analyte	Resu	It Qualifier	RL	ME	L Unit		D Prepared		
Benzene	2.	ου	2.0	0.8	total Control of the		D Prepared	Analyzed	Dil Fa
Ethylbenzene	2.	o u	2.0		.5 ug/L			04/21/22 19:53	
Toluene	2.	0 U	2.0		.0 ug/L			04/21/22 19:53	
Xylenes, Total	4,	o u	4.0		3 ug/L			04/21/22 19:53	- 6
Surrogate	%Recover	y Qualifier	Limits					04/2/12/2 19:03	,
1,2-Dichloroethane-d4 (Surr)	10.		77 - 120				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	9		73 - 120					04/21/22 19:53	
Dibromofluoromethane (Surr)	9:	8						04/21/22 19:53	
Toluene-d8 (Surr)	9:		75 - 123 80 - 120					04/21/22 19:53	
Method: 8270D LL BALL	Same Latter							04/21/22 19:53	
Method: 8270D_LL_PAH - Analyte	Semivolatile C	rganic Co Qualifier	mpounds (G	C/MS) L	ow leve				
2-Methylnaphthalene		U	2.5		Unit		D Prepared	Analyzed	Dil Fac
Acenaphthene		U		1.5				1 04/21/22 20:52	
Acenaphthylene		U	2.5	1.5	Service Control of the Control			04/21/22 20:52	
Anthracene	1	U	2.5	1.7	2 000133-00			04/21/22 20:52	5
Benzo[a]anthracene		U	2.5	2.0	18 37 41			04/21/22 20:52	5
Benzo[a]pyrene	25767	U	2.5	2.0	0.000		04/20/22 14:51	04/21/22 20:52	5
Benzo[b]fluoranthene	2.5	2000000	2.5	1.7	2.576		04/20/22 14:51	04/21/22 20:52	5
Benzo(g,h,i)perylene	90045	Shirin	2.5	1.5	ug/L			04/21/22 20:52	5
Benzo[k]fluoranthene	2.5	GTTT CO	2.5	1.9	ug/L		04/20/22 14:51		5
Chrysene	2.5	SATTO	2.5	0.43	ug/L		04/20/22 14:51		5
Dibenz(a,h)anthracene	2.5	3.77.) }	2.5	1.6	ug/L		04/20/22 14:51		5
lugranthene	2.5	100 m	2.5	1.7	ug/L		04/20/22 14:51	A CONTROL OF THE PARTY OF THE P	5
luorene	2,5	18	2.5	1.8	ug/L		04/20/22 14:51	The contract of the contract o	5
ndeno[1,2,3-cd]pyrene	2.5	U	2.5	1.9	ug/L		04/20/22 14:51		5
Naphthalene	2,5	U	2.5	2.2	ug/L		04/20/22 14:51		5
henanthrene	2.5	U	2.5	2.1	ug/L		04/20/22 14:51		5
yrene	2.5	U	2.5	1.9	ug/L		04/20/22 14:51	04/21/22 20:52	5
yiene	2.5	u	2.5	1.8	ug/L		04/20/22 14:51		5 5
urrogate	%Recovery	Qualifier	Limits				Prepared		20.0
-Fluorobiphenyl	68		48 - 120				04/20/22 14:51	Analyzed	Dil Fac
litrobenzene-d5 (Surr)	49		46 - 120					04/21/22 20:52	5
-Terphenyl-d14 (Surr)	69		24 - 136				04/20/22 14:51 04/20/22 14:51	04/21/22 20:52 04/21/22 20:52	5
ieneral Chemistry	120						sessions out on the d	Y WE WELL EU. DE	5
The state of the s		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
yanide, Total	73.9	LOPE WE	10.0	5.0	ug/L			04/27/22 14:09	Dii Fac
yanide, Free	-5.0	UH-R .	5.0	2.3	- 10 TH 10 TH		05/11/22 14:40		-7

05/11/22 14:49 05/11/22 21:15

5.0

2.3 ug/L

Client: GEI Consultants, Inc. Project/Site: GEI, Mineral Springs

Job ID: 480-196931-1 SDG: 480-196931-1

Client Sample ID: MW-16 Date Collected: 04/20/22 00:00 Date Received: 04/20/22 12:45

Lab Sample ID: 480-196985-5

General Chemistry Analyte	Result Qualifier	RL	1000	197092	#EIV	20 X D1 W 1/0		
Cyanide, Total			MDL	Unit	D	Prepared	Analyzed	Dil Fac
	4940	200	100	ug/L		04/27/22 10:45	04/27/22 15:48	
Cyanide, Free	46.4 H J .	5.0	2.3	ug/L			05/11/22 21:15	
	7			100000		99111122 14.48	US/11/22 21:15	3:

Client: GEI Consultants, Inc. Project/Site: GEI, Mineral Springs

Job ID: 480-196931-1

SDG: 480-196931-1

Client Sample ID: TRIP BLANK

Date Collected: 04/20/22 00:00 Date Received: 04/20/22 12:45

Lab Sample ID: 480-196985-6

Method: 8260C - Volatile O Analyte	Result	Qualifier	RL	MDL	Unit	D	Dranasad		TO Be A STREET OF
Benzene	1.0	U	1.0		ug/L		Prepared	Analyzed	Dil Fac
Ethylbenzene	1.0	1.1						04/21/22 20:16	1
Toluene			1.0		ug/L			04/21/22 20:16	1
Xylenes, Total	1.0		1.0	0.51	ug/L			04/21/22 20:16	27
Tylenes, total	2.0	U	2.0	0.66	ug/L			04/21/22 20:16	1
Surrogate	%Recovery	Qualifier	Limits				2		
1,2-Dichloroethane-d4 (Surr)	101	777	77 - 120				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98							04/21/22.20.16	1
Dibromofluoromethane (Surr)			73 - 120					04/21/22 20:16	7
1831   U.S. 1843   1854   1854   1854   1854   1854   1854   1854   1854   1854   1854   1854   1854   1854	90		75 - 123					04/21/22 20:16	
Toluene-d8 (Surr)	95		80 - 120					04/21/22 20:16	

Ver: 06/08/2021

P - Na2OuS 0 - Na2OuS 1 - 18P Dodecahydrale U - Acerone V - McAA W - PH 4.5 2 - offer (specify) Special Instructions/Note COC No. 480-172790-32131.1 are retained longer than 1 month) 480-196931 Chain of Custody A - HOL.
B - NaCH
C - ZI Acetane
C - ZI Acetane
E - NaHSGA
F - NaHSGA
G - Anchioc 9241 Page 1 of 2 Job # 1 - Ese J - Di Water Archive For Total Number of containers Talbilly 16 V 169 James Tracking No(s) ethod of Shipment Sample Disposal ( A fee may by assessed if samples.

Return To Cirent

Disposal By Leo State of Drigor Analysis Requested Special Instructions/QC Requirements Las PM Schove, John R E-Mar John Schove@et eurolinsus com ceived by cerved by tom to self) DEMISM another ST-Tissue, Andel Matrix Preservation Code Water Radiological Type (C=comp, G=grab) Sample M Commines JU - 572 - UL 0 Purchase Order not required 5.01 950 25 Sample 0 5,01 010 1235 915 Опкломп 50 TAT Requested (days). Due Date Requested 4/14/22 Sample Date GEI, Mineral Springs / Event Desc. Semi Annual Sampling (April) 48008324 SOWe Poison B Skin finlant erable Requested 1, 11, 111, IV, Other (specify) Custody Seat No National Fuel Gas Supply Corporation DUPLICAN Flammable Possible Hazard Identification MW-23 MW-19 mpty Kit Relinquished by Client Information Sample Identification walkerb@natfuel.com Custody Seals Intact 716-857-7247(Tel) A Yes A No 5363 Main Street VY. 14221-5887 Non-Hazard Brad Walker Williamsville riguathed by New York MW-11A MW-12 d SW-01 SW-02 MW-14 MW-22 MW-07 MW-10

Enskalded String

Chain of Custody Record

Phone 716-691-2600 Fax 716-691-7991

Amherst, NY 14228-2298

10 Hazelwood Drive

Eurofins Buffalo

Environment Texting America P-Na20as 0-Na2503 R-Na25203 5-H250a T-TSP 0odecatydraie Special Instructions/Note: Sample Disposal ( A fee may assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For Mon COC No 480-172790-32131.2 eservation Codes 9241 Page 2 of 2 Job # NaOH
Zn Acetate
Hittie Acet
NatiSO4 DI Waler EDTA EDA 2216117 Total Number of containers Method of Shipment Carner Tracking Nots) State of Ovgen Analysis Requested Return To Chent Special Instructions/DC Requirements Lab PM. Schove, John R. E-Mar. John Schove@et eurofinsus com 90128 - Cyanida, Total sbilod behneqsu2 latoT - 00a2 1260C - BTEX - 8260 ecewaid by 0158 - HA4 - HA4 JJ 00758 9016 - Cyanide, Free (ON 10 BEAT DEMISM Field Filtered Sample (Yes or No) Matrix Preservation Code. Water Water Water Water Water Water Water Water Water ompany Radiological Type (C=comp, G=grab) Sample 211-572 43/2 9 Sample M. Culmaing 9 STS Purchase Order not required Sample 1 (AT Requested (days): 1900 Unknown Ove Date Requested: 41192 Sample Date Project # 48006324 SSOW# B Posson B GEI, Mineral Springs/ Event Desc. Semi Annual Sampling (April) BLAM Skin trritant esverable Requested 1, II, III, IV, Other (specify) EBAPAEAT RIP BLANK Custody Seal No. National Fuel Gas Supply Corporation Flammable os fible Hazard Identification Client Information Sample Identification mpty Kit Relinguished Custody Sears Intact walkerb@naffuel.com 716-857-7247(Tel) State, 2p NY, 14221-5867 5363 Main Street A Yes A No Non-Hazard Brad Walker Williamsville yd seveno New York

Seurofins.

Chain of Custody Record

Phone 716-691-2600 Fax 716-691-7991

Amherst, NY 14228-2298

10 Hazelwood Drive

**Eurofins Buffalo** 

G - N42503 R - N42503 S - H2504 T - TSP Dodecarystrate Total Since allocations are subject to change. Euroffee TestAmence places the cementary of method smalles a eccentration and subjects as a subject state of Change and Change an Special Instructions/Note N - None O - AsNeO2 P. Ne2Des Environment Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)

| Return To Client | Clie Seurofins A + HCL 8 - NaOH C - CA Acqueste C - CA Acqueste C - NaHSOH F - MeCh F - MeCh F - Anschlor F - Anschlor F - Anschlor G - Amchlor F - Anschlor G - Amchlor G - Amchlor G - CA Acqueste G - CA Acqueste G - Amchlor G - Amchlor G - CA Acqueste G - CA Acqueste G - Amchlor G - Amchlor G - Amchlor G - CA Acqueste G - CA Acqueste G - CA Acqueste G - CA Acqueste G - Amchlor G - CA Acqueste 1745 480 196985 Chain of Custody 77/02/120/27 1 Total Number of containers Ni Jate/Time erner Treating Na(s) ethod of Shipment He of Origin Analysis Requested Cooler Temperature(s) *C and Gefor Red 2 KONE ons Required (See note) 1 7 NHO MY ONT To personal Received by Chain of Custody Record Preservation Code: Matrix 3 W. Warming (degrab) (C*comp, Sample Type 716-572-4361 080/ 200 Primary Deliverable Rank, 2 Sample 000 3 TAT Requested (days) Due Date Requested 2/23/2 Sample Date Date/Tyme. Date/Time SPRINGS 57 T (Sub Contract Lab) Usha 045 Deliverable Requested 1, II, III, IV, Other (specify) BLANK Eurofins TestAmerica, Buffalo horaville Phone 716-691-2600 Fax. 716-691-7991 Sample Identification - Client ID (Lab ID) Custody Seal No DEL-MMERK TRUP BY My ICA NW- 2 12-M 7 33 Possible Hazard Identification Amherst, NY 14228-2298 Empty Kit Relinquished by Client Information 3 Custody Seals Intact 10 Hazelwood Drive XX Happed by Sale, Ze

2022 First Semiannual Groundwater/Surface Water Quality Monitoring Report Mineral Springs Road Former MGP Site (NYSDEC #V00195) West Seneca, New York August 2022 (Revised September 2022)

## **Appendix C**

**Groundwater Monitoring Logs** 



Site Name:	V. NELAL	Sprinus				Well ID:	14-7	
DateField Personnel Method of Purging	4/19/27 W	Low FU		Pup.			Well Depth (ft btoc) Depth to Water (ft btoc) Casing type/dia Well Volume (g)	412
Time	Total Volume (g)	Temp (%)	pН	Cond (us/cm)	ORP (mV)	D.O. (mg/L)	Turbidity (NTU)	Comments
8:30	i'uita/	27	6.43	3.99	170.94	085	15,7	clear
840	0.5	9.9	6.55	3.47	130.7	0.34	8.6	of light streen
8:50	[.0	10.0	6.63	2.66	102.2	0.23	5.4	4 6
9:00	1.5	10.0	6.63	2-62	101.6	0.19	5.2	et 16
9:10	20	10.1	6.64	2.58	97.8	0.18	4.7	ce ti
		,		/		Flets		1
1								
T .			saup	c collect	ed 0 (9	5)		
		*						
4.00				* (1)				
1						ļ.		



Site Name:	Mineral	Spring	P	1/2		Well ID:	-10		
Pield Personnel A. Mulshank  Method of Purging/ Sampling PUSA HC					<i>I</i>	Depth (ft btoc)  Depth to Water (ft btoc)  Casing type/dia.  Well Volume (g)			
Time	Total Volume (g)	Temp (°F)	рН	Cond (us/cm)	ORP (mV)	D.O. (mg/L)	Turbidity (NTU)	Comments	
0840		Sta	NA DUN	ND.					
09 40	3	50.4	6,71	1435	192.6	3.99	3.94	DTW 6.70	
0849		50.5	6.71	1470	193.0	4.25	4.95	6.73	
0890		50.13	6.69	1451	92.1	3.0 =	370.07	6,71	
0855		50.6	6.68	14 15	22.1	2.03	2.53	6.75	
0900		50.7	6.68	1407	23.7	1.88	1.45		
0905	-1.5	50.8	6.67	1398	22.9	1:79	1.23		
	Sample	0 0910	W 42		1.19-				
	•		н			1 4 7 7			
								N	
		~		(Contract)		- F			



Site Name:	Miner	SPREN6	5	W W	4	Well ID:	H(A	3
Date	4/9/22	)	· ·				Well Depth (ft btoc	6.70'
Field Personnel		me suc					Depth to Water (ft I	
Method of Purging	/ Sampling (0	w flow p	Devi- Jay				Casing type/dia	Suffer
		J.					Well Volume (g)	
Time	Total Volume (g)	Temp (°FZ_	рН	Cond (Jug/cm)	ORP (mV)	D.O. (mg/L)	Turbidity (NTU)	Comments
10:40	initial	7.9	6.96	15.1	-11.1	1.16	60.2	little thou troc.
10:45	0.5	8.6	6.82	1.15	1.3	0.35	13.1	cheap
10:50	1.0	8.7	6.77	1.17	-1.0	0.26	7.4	clear
11:00	65	8.7	6.75	1.05	-1.2	0.15	5.7	cc .
11:15	2.0	8.7	6.76	(.09	-0.8	0.18	4.8	+1
						c		SW ELEVATION
			sayole	collected (	9 1115			0 SW-02:
gw exevi	AYIN				A			
05w	105.4:10						L. Luci	SP COULS: 1,730
		) II	*					
SP COUL	\$ 1760			Dyne	MW-15	:9,72		sur oz collidal
and the second s								0 1100



Site Name:	Mon	iente s	PRIAIS			Well ID:	MW-t>	
Date Field Personnel Method of Purging		laliz nue lave low Fa	w preside	The			Well Depth (ft btoc)	- 9.751 .2" lue
Time	Total Volume (g)	Temp (°F)	рН	Cond (us/cm)	ORP (mV)	D.O. (mg/L)	Turbidity (NTU)	Comments
12500	intial	8.4	5.94	4.52	50.5	2.80	287	drae
12:10	0.5	<b>6.</b> 7	592	4.52	47.8	2.68	15.7	
12:20	1.0	27	5,02	4.54	48.2	2.54	8,6	
(३:५)	1.5	8.7	5.93	454	43./	226	4.2	Q
		10.5	a .	5 11 14	1.0			
			i i	, ,	1			
	/		Say	e collo	tal at	15 30	201	
				- '				
		à						



Site Name:	Miner	al Conit	as2		Well ID: MW - 13					
Date	A C	In Vinksha Denstath				Depth (ft btoc)  Depth to Water (ft btoc)  Casing type/dia.  Well Volume (g)				
Time	Total Volume (g)	Temp (°F)	рН	Cond (us/cm)	ORP (mV)	D.O. (mg/L)	Turbidity (NTU)	Comments		
1009		49.5	6.70	598.9	-6.6	0.88	12.4			
1010		49.6	4.63	566.3	#3.3	0.55	6.32			
1015		50.4	664	539.2	13.0	0.41	2,27			
1020		50.8	6.60	538.4	18.0	0.31	1.89			
1029	~1.5	50.4	4.60	535,3	22.4	0.26	1.40			
		Sample	@ 1030							
					7	Bar of				
	r(F)			18.4		Late Car				
			11.05			7.				
Ľ.					.3					
				*	4					



Site Name:	MINER	N. SPR	1265			Well ID:	MW-	14
Date	9	1/9/22		11	Œ.		Well Depth (ft btoc)	10.69'
Field Personnel Method of Purging	MAL Sampling	estallie	July				Depth to Water (ft b	otoc)
Time	Total Volume (g)	Temp (°)	рН	Cond (us/cm)	ORP (mV)	D.O. (mg/L)	Turbidity (NTU)	Comments
9130	0.50	10.4	6.59	2,65	16.5	0.41	OR	PED FLOC.
9:40	1.05	16.	6.58	2.64	-3.4	0.19	158	56.44 105.0
9:45	15	11.4	6.58	265	46-5	0.11	58.6	clege
9:55	200	11.8	6.58	2.64	-20.2	0.11	18.7 3.6	clear
10105	25	11,9	6.58	206	-31.4	0.09	3.6	((
						أثلبم		
				y *-		19/		
				Squple	collected	at (10	(S)	
9		a a second						
	,		G					
						And the second second		

EQUIP. DIANE COLLEGED @ 10:30



Site Name:	lineral	Springe	2			Well ID:	16	B
Date Field Personnel Method of Purging		ikshahl Penstal		_			Well Depth (ft btoc)  Depth to Water (ft btoc)  Casing type/dia  Well Volume (g)	
Time	Total Volume (g)	Temp (°F)	рН	Cond (us/cm)	ORP (mV)	D.O. (mg/L)	Turbidity (NTU)	Comments
1179		920	4.27	3633	Dn. 6	2.47		air in sampling
1170		52.7	4.25	3612	84.4	2,32	29.2	line -
1179		52.1	4.26	2001	70.2	0.93	56.4	ĺ
1140		52.2	4.29	3617	65.8	0-99	12.1	
1145	~1.5	523	4,31	3625	621	0.89	@\3.2	1
2 30.0		Samp	u @1	50			@x3.3	
		<b>\</b>						
						les		
			F. C	4 4 1 4 4	=			
			II Est	30		3	N	1
		e c		п п ж				
li li								7
							27	4



Site Name:	MM	eval S	DNH9S			Well ID:	Mw-	17		
Date Field Personnel Method of Purging	Α'.	ropri Chulcsl Penst	nante			Depth (ft btoc)  Depth to Water (ft btoc) 4. 70  Casing type/dia. 21  Well Volume (g)				
Time	Total Volume (g)	Temp (°F)	рН	Cond (us/cm)	ORP (mV)	D.O. (mg/L)	Turbidity (NTU)	Comments		
1050		46.8	6.64	2133	39.2	1.15	3.01	4		
1059		45.4	6.66	2144	31.8	0.61	1.76	1 2		
1100		45.8	6.65	2125	25.8	0.43	1.38	<del>-</del>		
1105		46.6	4.65	2065	15.0	0.26	0.67			
1110	~1.5	45.9	6.66	2001	14.8	0.22	0,43			
		Sampl	1 @ 1119							
		1		*			4			
		i.								
			9					1		
				N 7				an China		
×		8		13.58						
			F.:	4-1						



ersonnel	7	kshanl	1 <u> </u>	1			Depth to Water (ft bto	2 · Y
Time	Total Volume (g)	Temp (°F)	рН	Cond (us/cm)	ORP (mV)	D.O. (mg/L)	Turbidity (NTU)	Comments
070		Stav	_					
570		40.6	6.79	911	-59.2	50.0	4.11	DW 7.76
10715		48.8	6.72	893	-64.4	1.08	1,79	7.7%
1040		49.0	6,70	892	- 70.1	0.60	0-90	マース
1046	1	49.0	6.70	897	- 68.3	0.58	0.76	
1056	-1.5	48.9	4.70	895	-64.1	0.55	0.77	
10.70		mple	0 1066					
	Land Street					-		Y
							-	
7				- All				



				-				
Site Name:	Mi	neral co	mira2	Well ID: MW-20				
Date Field Personnel Method of Purging/	4 20 12 Sampling	muks	hanh			52 (IE)	Well Depth (ft btoc)  Depth to Water (ft btoc) 7.52'  Casing type/dia. 2'D  Well Volume (g)	
Time	Total Volume (g)	Temp (°F)	рН	Cond (us/cm)	ORP (mV)	D.O. (mg/L)	Turbidity (NTU)	Comments
0855		47.3	6.57	1960	-31.1	1.83	30.1	1
0900		47.4	6.63	2075	-48.5	1.27	73.8	
0905		48.1	6.53	1970	191.0	0.31	428	
0910		48.3	6.51	1990	-53.8	0.26	20.5	
0915	~2	48.1	6.00	1990	-56,3	0.24	4.7	
	0920	sam	Dle					
						× .		
								*
								7
				8			, etc.	
								× ×





Site Name:	Minera	1 Smr	912			Well ID:	MW-	21		
Date Field Personnel Method of Purging/	4 20 2 A 1	bruksh peristal	the state of the s		Well Depth (ft btoc)					
Time	Total Volume (g)	Temp (°F)	рН	Cond (us/cm)	ORP (mV)	D.O. (mg/L)	Turbidity (NTU)	Comments		
0935		50.8	6.47	3254	-21.1	1.81	_	Iron floc		
0940		50.9	6.46	3282	-36.6	0.46	96.8	2		
0949		50.3	6.48	3287	-34.9	0.56	1000			
0990		50.9	6.49	3277	0 4	0.22	13.6			
0955	~2	50.7	6.41	3285	- 40.2	0.18	4.97			
1000		Sample	-							
		-	127							
			1				e:	Ø 20		
AT .	*									
				*						



Site Name: Well ID: MW-22 Mineral Well Depth (ft btoc) Date Cruikshank Depth to Water (ft btoc) Field Personnel Devistaltic Method of Purging/ Sampling Casing type/dia. Well Volume (g) ORP (mV) D.O. (mg/L) Turbidity (NTU) Comments Time Total Volume (g) pH Cond (us/cm) Temp (°F) Strul 1155 DTW 11.15 1290 39.0 1.77 15.6 1166 50.6 2099 11.15 6.63 1200 17.0 50.9 -58.3 4.92 2158 11.15 6.63 1205 2,45 50.8 1210 2171 3.48 -58.8 50.9 6.68 1219 207 2178 ~2 1220 -61.4 6.63 @ 1225 sample



Site Name:	Minera	1 Sprin	ar_			Well ID:	MW-23	Dupicate
Date Field Personnel Method of Purging	4   19   22 A. Ch	ukshav Penstat	nk tic			<i>y</i>	Well Depth (ft btoc Depth to Water (ft Casing type/dia Well Volume (g)	10.33 ¹ 2.4 Ø
Time	Total Volume (g)	Temp (°F)	рН	Cond (us/cm)	ORP (mV)	D.O. (mg/L)	Turbidity (NTU)	Comments
ogres		Stan	-					
0925		49.0	6.63	4200	49.3	3.90	77.6	DW 10.75
0930		51.1	6.61	4916	57.8	3.41	63.8	DTW 10.33
0975		51.5	6.56	5110	66.5	3.33	35.4	DTW 10.33
0940		51.4	6.63	5001	70.8	3.20	17.1	10.33
0949	~1.5	51-4	6.60	4956	77.9	3.06	4.93	10.33
	N	1W-27 (	a 0990					
	Du	phicat	e @ 09	95	35			
1915								
							als,	
9								
		G	if			- 5		14.0