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2023 First Semiannual Groundwater/Surface Water Quality Monitoring and Special Groundwater Quality Assessment Report

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

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August 2023, Rev. March 2024 Project 2300298



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1. INTRODUCTION

This report presents a summary of groundwater and surface water quality monitoring results for the 2023 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 report also includes an assessment of groundwater quality at four monitoring well locations requested by the New York State Department of Environmental Conservation (NYSDEC or Department) on February 27, 2023. The purpose of the groundwater assessment is discussed in Section 1.1.

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 2022 PRR was submitted to the NYSDEC on December 13, 2022.

Following receipt of NYSDEC comments, the 2022 PRR was revised and re-submitted on February 2, 2023. The Department reviewed the revised PRR and issued a response letter dated February 27, 2023 disapproving the 2022 PRR and requested a groundwater assessment of previously detected concentrations of volatile organic compounds (VOCs) benzene-toluene-ethylbenzene-xylenes (BTEX) and polycyclic aromatic hydrocarbons (PAHs) at on-Site wells MW-7 and MW-19 and total and free cyanide at wells MW-12 and MW-16 (see **Figure** 2 for well locations). A conference call held between the Department, National Fuel, and GEI on March 9, 2023 and an approach was discussed and agreed upon for the on-site groundwater assessment. GEI transmitted a draft work plan to the Department based on the discussed approach for the On-Site Groundwater Quality Monitoring Assessment, revised the plan per Department comments and transmitted the final to NYSDEC on March 31, 2023. NYSDEC approved the Groundwater Quality Monitoring Assessment (Groundwater Assessment) scope of work on the same day and included a conditional approval of the 2022 PRR pending completion of the groundwater assessment. The groundwater assessment activities are discussed in Section 3.0.

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 stream drains into a 72-inch diameter culvert pipe that connects to the 78-inch diameter storm sewer below Calais Street. This sewer eventually discharges stream flow with stormwater and Combined Sewer Overflows (CSOs) into the Buffalo River. The sewer system discharging to the Buffalo River is part of the City of Buffalo Sewer Authority's system located near the intersection of Mineral Springs Road and Ogden Street.

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 Dense Non-Aqueous Phase Liquid (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. The staff gauge was damaged during the winter of 2022-2023 and the surface water elevation at SW-02 was manually surveyed for the First Semiannual 2023 sampling event. The staff gauge will be reinstalled and surveyed prior to the second semiannual 2023 groundwater sampling event.

Groundwater and surface water samples for the 2023 First Semiannual monitoring event were collected on May 3 and 4, 2023 by a GEI sampling team. Monitoring was consistent with sampling procedures described in the O&M Plan. **Table 1** summarizes sampling location, the established sample analysis for each monitoring well, Quality Control sample analysis, and current reference elevations. A synoptic round of water levels was measured in monitoring wells on May 2, 2023, and water levels were recorded prior to purging and sampling. Groundwater elevations are summarized in **Table 2**. Groundwater elevations were generally between two and three feet higher during the May 2023 sampling event when compared to the 2022 summer sampling event and most groundwater elevations were one to two feet lower this event when compared to the spring event monitored in 2022. The surface water elevation at upstream location SW-02 was 1.97 feet higher (586.14 FASL versus 584.17 FASL) during the first semiannual event. The surface water elevation in the stream at downstream locations SW-01 was 3.15 feet higher this event compared to the First 2022 Semiannual Monitoring event.

Field measured parameters for wells sampled for the 2023 First Semiannual event were periodically recorded 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 June 1, 2023, and subsequently evaluated for data usability. Field sampling logs for the 2023 First Semiannual sampling event are provided in **Appendix A**.

3. 2023 GROUNDWATER ASSESSMENT

3.1 Groundwater Assessment Activities

GEI conducted the Groundwater Assessment between May 1 and May 4, 2023 in accordance with the NYSDEC-approved March 2023 Scope of Work. Specific field activities are described in the following sections.

3.1.1 Monitoring Well Integrity Assessment

The as-built well construction records for each monitoring well of interest were reviewed and compared to field conditions to document appropriate well depth, well casing integrity, and inspection of surface seals. Completed monitoring well condition summary forms are included in **Appendix B** to document monitoring well integrity. The field-measured depths of monitoring wells MW-7, MW-12 and MW-16 were consistent with as-built monitoring well construction logs. However, the depth of well MW-19 was found to be approximately 1.5 feet shallow when compared to the well construction log. The obstruction was determined to be two one-foot disposable bailers that were found stuck at the base of the well screen during well development and was removed prior to redevelopment. Each monitoring well had minimal sediment accumulation at the base of the screen. The protective casings or surface well covers, PVC risers, and surface seals were found to be in acceptable condition during the inspection with the exception of the following:

- The PVC riser and protective casing at location MW-12 was found to be slightly bent apparently struck during mowing of the Eastern Swale HDPE Cap, however the damage does not currently impact the ability of the well to yield representative groundwater samples and is suitable for monitoring purposes. As a measure to improve long-term viability, repairs to both the protective steel casing and PVC are recommended with the addition of surface protection by placing concrete blocks or barriers on the vegetated HDPE cap around the well for added protection.
- A bolt is missing on the flush-mount surface well cover at location MW-7. A new replacement bolt will be installed prior to the next sampling event.

None of the monitoring wells required decommissioning and replacement.

3.1.2 Well Redevelopment

Prior to well redevelopment, the existing down-hole tubing in each monitoring well was removed, placed in plastic garbage bags, and disposed of in the on-site dumpster near

Building 14. A three-foot clear PVC bailer was placed to the well bottom to check for DNAPL presence. No DNAPL was observed in any monitoring well. Each monitoring well of interest was redeveloped consistent with the March 2023 Groundwater Assessment Scope of Work and included well purging using a combination of disposable and stainless-steel bailers and a submersible Whale pump. Water quality parameters were measured during well redevelopment, including pH, specific conductance, temperature, dissolved oxygen, oxidation-reduction potential and turbidity. Monitoring well redevelopment logs are provided as **Appendix C** and summarized in **Tables 4A through 4D**. More than 10 well volumes were removed from each well during redevelopment. The volume purged from each well during redevelopment.

Well ID	Well Volume (gallons)	Approximate Volume Purged (gallons)
MW-7	1.8	34
MW-12	1.5	25
MW-16	2.5	30
MW-19	3.2	55

Purge water was discharged into 5-gallon pails and subsequently transferred to 55-gallon drums for short-term storage prior to characterization and proper disposal as specified in the Groundwater Quality Assessment work plan. A slight petroleum-like odor was noted during the redevelopment of monitoring wells MW-7 and MW-19. No LNAPL or DNAPL was observed in any well during redevelopment.

3.1.3 Well Sampling

As described in the work plan, each of the redeveloped wells was sampled using a 1.5" diameter, clear PVC bailer the day following the completion of redevelopment and a second sample was collected from each redeveloped well on the following day, using low flow (peristaltic) methods. The low-flow sample collected from each redeveloped well during the Groundwater Assessment served as the routine groundwater sample for the 2023 First Semi-Annual Groundwater Sampling event. New downhole tubing was installed in each well and a minimum of one well volume was purged using low flow methods and water quality parameters described in Section 3.1.2 were recorded. The new tubing intake was installed approximately 1-foot from the bottom of each monitoring well based on well screen length and the geologic formation present.

The groundwater samples were collected into the appropriate laboratory-provided sampling containers. Sample collection and well re-development dates and times are included in Tables 3, 4A, and 4B. The sample containers were labeled, placed in a laboratory-supplied cooler, and packed on ice (to maintain a temperature of 4° C). Samples were delivered to Eurofins-Buffalo laboratory for analysis. The laboratory maintains a NYSDOH ELAP certification for the parameters tested for at Mineral Springs. Chain-of-custody procedures were followed using the chain-of-custody form. Monitoring wells were sampled for the following parameters:

Monitoring Well	Testing Parameters
MW 07 and MW 19	BTEX (USEPA SW846 8260C)
W w -07 and W w -17	17 PAHs (USEPA SW846 8270D)
MW-12 and MW-16	Cyanide, Total (USEPA SW846 9012B)
	Cyanide, Free (USEPA SW846 9016)

Groundwater sampling results for both samples collected using a bailer and low-flow sampling methods are discussed in Section 5.

4. LABORATORY METHODS AND QUALITY CONTROL

Laboratory data usability for samples collected for both the Groundwater Assessment and First 2023 Semiannual Monitoring event was conducted and is described below.

4.1 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.

4.2 Laboratory Quality Control

The laboratory data package (Level 2) is included in **Appendix D**. 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 E**. Validation actions were necessary for the non-detect results for naphthalene in samples MW-10 RE, MW-11A RE, SW-01 RE, SW-02 RE and MW-13 RE due to laboratory blank contamination in the original sample. Reanalysis was necessary due to low level instrument blank contamination and samples were reanalyzed outside of hold time. Each sample was subsequently flagged as estimated (UJ). Results for total cyanide in samples MW-17, MW-12 RE and MW-16 RE were flagged as estimated (J) due to low bias following exceedance of holding times. The positive results for total cyanide in several samples were flagged as estimated (J) due to high bias when compared with instrument blanks. Other data appear usable as reported or usable with minor qualification due to sample matrix or laboratory quality control outliers. Laboratory reporting limits (RLs) for some individual analytes were elevated in samples MW-07, MW-19, and MW-17 which required dilutions due to elevated concentrations of analytes or matrix interference. As a result, (RLs) were above their respective groundwater quality standard/guidance values (GWQS/GV) for on-site wells MW-07 and MW-19 and upgradient well MW-17. However, laboratory minimum detection limits (MDLs) were below water

quality comparison criteria and J-qualified values were not reported. Similarly, individual PAH constituent RLs were elevated where dilutions were required due to high analyte concentrations. No deviations from analytic protocol that affected the acceptability of the results were reported by the laboratories.

5. ON-SITE GROUNDWATER ASSESSMENT SAMPLING RESULTS

The groundwater analytical results for wells redeveloped and sampled using a bailer and low flow sampling methods collected during the Groundwater Assessment sampling event are summarized in **Table 5A** with sample results for the First 2023 Semiannual Monitoring Event. Results for the Groundwater Assessment 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 GWQS/GV or groundwater standards or water quality comparison criteria). Sampling results for the four on-site wells included in the Groundwater Assessment are summarized by post-redevelopment sampling method and COCs in the tables below.

Monitoring	BTE	X (ug/L)	PAHs (ug/L)			
Well	Bailer	Low Flow	Bailer	Low Flow		
MW-07	2,746	2,606	3,503	3,130		
MW-19	3,543	4,610	1,327	3,200		

Monitoring	Total (CN (ug/L)	Free CN (ug/L)			
Well	Bailer	Low Flow	Bailer	Low Flow		
MW-12	580	720 J	3.3 J	13.3		
MW-16	2,300 J	3,100	12.5	59.1		

A discussion of post redevelopment groundwater sampling results for each well is provided below.

5.1 MW-7 Sampling Comparison

A time-series concentration plot of historical BTEX and PAH concentrations in MW-7 is provided on **Figure 3**. Following well redevelopment at MW-7, results for BTEX analysis were similar between both the bailer and low flow sampling (2,746 ug/L and 2,606 ug/L,

respectively). Similarly, PAH results were similar between the two sampling methods yielding 3,503 ug/L for the bailer sample and 3,130 ug/L for the low flow sample. BTEX and PAH concentrations from the groundwater assessment sampling were similar to those detected over the past 10-year period. These results suggest that BTEX and PAH presence in groundwater in the vicinity of MW-7 is at a near-steady state. Monitoring well MW-10 which is located downgradient does not exhibit impacts from the elevated concentrations at MW-7 indicating a localized impact in the area of well MW-7. As shown in Table 5A, each individual BTEX constituent was detected above GWQS/GV, while only the PAH compounds acenaphthene and naphthalene were detected above GWQS/GVs.

5.2 MW-12 Sampling Comparison

A time-series concentration plot of historical total and free cyanide concentrations in MW-12 is provided on **Figure 4**. Following well redevelopment at MW-12, results for total cyanide analysis were similar for both the bailer and low flow sampling (580 ug/L and 720 J ug/L, respectively). These concentrations are above the total cyanide GWQS/GV. While sampling results are similar for both sampling methods, the post redevelopment sample results are lower than results obtained over the past 5 years with the bailer sample closer to lower total cyanide concentrations reported 10 years ago. Free cyanide concentrations at MW-12 were low for both sampling methods, with the bailer sample yielding a concentration of 3.3 J ug/L and the low flow sample yielding a concentration of 13.3 ug/L. A groundwater GWQS/GV does not exist for free cyanide.

5.3 MW-16 Sampling Comparison

The historic time-series concentrations plot of total and free cyanide in well MW-16 is provided on Figure 5. Total cyanide concentrations have exhibited an increasing concentration trend over the past 10-year time period (note the change in trend in 2021 on Figure 5). The rise in concentration correlates with a rising water level condition in the in the adjacent un-named stream that parallels the southern boundary of the Site which began around 2013. A blockage in the stormwater culvert adjacent to the railroad track embankment where the stream flows below ground to the Buffalo River has caused surface water to back up in the stream, causing "losing stream" conditions where surface water is recharging Site groundwater in the vicinity of MW-16. It is believed that the elevated surface water condition is directly influencing the cyanide concentrations detected at well MW-16. Maintenance records indicate that a minor blockage of the culvert was last removed in 2012 which correlates with the beginning of the increasing total cyanide concentration trend. The total cyanide concentration in the sample collected from the bailer was 2,300 ug/L compared to 3,100 ug/L in the low-flow sample. These concentrations are above the total cyanide GWQS/GV. As shown in Figure 5, both post redevelopment samples reflect a significant decrease in total cyanide concentration compared to the last several sampling

events. Similarly, the free cyanide sample collected from the bailer yielded a concentration of 12.5 ug/L versus a concentration of 59.1 ug/L from the low flow sample. A groundwater GWQS/GV does not exist for free cyanide.

During redevelopment, approximately 30 gallons were purged from well MW-16 which may have temporarily influenced the chemistry in the immediate vicinity of the well resulting in a lower total cyanide concentration for both sampling methods. The variability in total cyanide and free cyanide concentrations between the two methods may be representative of backdiffusion of cyanide into groundwater from the capped waste material over the 24-hour time period between sampling events. It is recommended that additional evaluation of the reequilibrium geochemistry is conducted during the next sampling event.

5.4 MW-19 Sampling Comparison

Historical time-series concentration plots for total BTEX and total PAHs in well MW-19 are presented on **Figure 6**. The total BTEX concentration in the bailer-collected sample was 3,543 ug/L, which is the lowest concentration recorded at the well since sampling occurred in the late 1990s. The total BTEX concentration in the low flow sample was slightly higher at 4,610 ug/L but remains at the low end of the range of detected concentrations. Similarly, the total PAH concentration in the bailer sample collected from MW-19 was at the lowest concentration recorded (1,327 ug/L). The total PAH concentration in the low-flow sample was similar to the prior semiannual monitoring event and remains at the low end of the range of concentrations detected over the past 10 years.

Approximately 55 gallons of groundwater were removed from well MW-19 during redevelopment which likely temporarily influenced the groundwater chemistry in the direct vicinity of MW-19. The lower BTEX and PAH concentrations detected in the bailer-collected sample likely reflect the influence from groundwater with lower BTEX/PAH concentrations being drawn toward the well screen due to the induced change in the hydraulic gradient caused by well purging. The low-flow sample that was collected approximately 24-hours after the bailer sample yielded BTEX and PAH concentrations that were more comparable to recent historic results, and likely represents a rebound following back-diffusion of these compounds saturated zone near the well. As shown in Table 5A, benzene, ethylbenzene, and total xylene were detected above GWQS/GV and only the PAH compound naphthalene was detected above GWQS/GVs.

6. EVALUATION OF SEMIANNUAL MONITORING RESULTS

The groundwater analytical results for samples collected during the May 2023 First Semi-Annual Sampling Event are presented in **Tables 5A and 5B**. Surface water sample results are summarized in **Table 6**. 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) which are the GWQS/GVs. Historical time-series total BTEX and total PAH concentration plots for groundwater and surface water sample IDs are provided in **Appendix F**. Historical time series plots for individual BTEX compounds and the PAH, naphthalene will be presented with comparisons to GWQS/GVs in the 2023 Second Semiannual Report and 2023 Periodic Review Report (PRR). Monitoring results are discussed below.

6.1 Groundwater Elevations and Flow

A potentiometric surface map of groundwater elevations for the upper water-bearing zone at the site is provided on **Figure 7**. 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 (586.14 FASL and 584.26 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 (585.95 FASL and 584.13 FASL, respectively) also indicating "losing stream conditions" at this location.

6.2 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. For purposes of evaluating the 2023 First Semiannual groundwater monitoring results, the low flow sampling analytical data obtained during the Groundwater Quality Assessment are used in the assessment of groundwater quality (i.e., results from low flow sampling methods are discussed in the summary below). Groundwater quality in each of these areas is described below. As established in the O&M Plan for the Mineral Springs Facility, the lists of analytes are specific to each well. The list of analytes is presented in Table 1.

On-Site Areas

A summary of groundwater analytical data for "On-Site" areas is provided in **Table 5A**. Monitoring wells MW-07, MW-10, MW-11A, and MW-19 assess on-site groundwater quality of subsurface soils impacted with hydrocarbon MGP residuals. 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. As presented in Section 4, some analyte reporting levels were elevated above their respective groundwater quality GWQS/GV. 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 200 μ g/L which did not exceed the NYS groundwater standard and is within the range of the last ten monitoring events. Free cyanide was detected at a concentration of 2.3 J μ g/L. The TSS concentration in well MW-11A was 39.2 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 fill mixed with MGP purifier box residuals. Groundwater samples from these two wells were sampled using low flow sampling methods and analyzed for total and free cyanide. Total cyanide concentrations were 720 J μ g/L at MW-12 and 3100 J μ g/L at MW-16; each is above water quality comparison criteria. The concentration detected during this event at well MW-12 (720 μ g/L) was lower than historic five-year average, but within the historic range of concentrations detected in the well. The concentration at well MW-16 was lower than the prior six sampling events but the concentration remains elevated when compared with historic levels. The monitoring well is screened in the saturated zone containing MGP residual materials below an engineered clay capped area. Free cyanide concentrations were 13.3 μ g/L at MW-16 (a NYSDEC Groundwater Standard for free cyanide has not been established). 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 2023 Periodic Review Report (PRR).

Site Perimeter

A summary of groundwater analytical data for "Site perimeter" areas is provided in **Table 5B**. 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 and PAHs were not detected at any site perimeter area sampling locations.

Total cyanide was detected at a concentration of 27 J 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 410 μ g/L to 870 J 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 4.9 J μ g/L to 13.5 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 2023 PRR.

6.3 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. 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 and PAH compounds were not detected in surface water samples. Total cyanide was not detected in either surface water sample. Free cyanide was detected at a laboratory qualified (estimated) concentration of 2.3 J μ g/L at downstream location SW-01 and was not detected in the upstream sample. The free cyanide detected concentration at SW-01 is within the range of historic detected concentrations and well below surface water regulatory criteria.

Total Suspended Solids were not detected in either the upstream or downstream sample at a laboratory detection limit of 4.0 mg/L.

6.4 DNAPL Recovery Test Well

On May 2 2023, the Recovery System at RTW-1 was gauged using a threaded steel rod to assess whether DNAPL had accumulated since the August 2022 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 May 2023 monitoring event.

7. SUMMARY AND RECOMMENDATIONS

7.1 First Semiannual Sampling Summary

A summary of May 2023 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 two and three feet higher during the May 2023 sampling event when compared to the 2022 summer sampling event and most groundwater elevations were one to two feet lower this event when compared to the spring event monitored in 2022. Groundwater flow directions remained in a north and northwest direction.

On-Site Areas:

- BTEX compounds continue to be detected above GWQS/GVs at wells MW-07, MW-19, and MW-11A (marginally as benzene was the sole compound detected (2.7 ug/L). BTEX compound detections were within the range of concentrations detected over the past 10 years in each of the wells. Low concentrations of PAHs were detected in wells MW-7 and MW-19 but above water quality comparison criteria. PAH detections were within the range of concentrations detected over the past 10 years. Based on historic and recent monitoring data for wells downgradient from these locations, the groundwater impacts are local to the well.
- Total cyanide concentrations at wells MW-12 and MW-16 were above water quality comparison criteria but detected at concentrations lower than those reported over the past 4 to 5 years. As discussed in Section 5.3, purging during well redevelopment may have influenced the local water quality in those areas. At MW-16, the total cyanide concentration is well below the peak level observed in the spring of 2021. 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 proximity of elevated cyanide concentrations at MW-16 do not appear to be significantly affecting surface water quality in the stream (see Section 6.3).

Perimeter Areas:

- BTEX and PAH compounds were not detected in the four Site perimeter and upgradient groundwater wells tested for those parameters during the May 2023 sampling event.
- Total cyanide was detected at upgradient well MW-17 indicating the constituent is present in background groundwater (27 J μ g/L).
- 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 410 μ g/L to 870 J 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 4.9 J μ g/L to 13.5 μ g/L. The detection at location MW-14 was 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" at both the upstream and downstream measurement locations in May 2023. Accumulated debris at the culvert entry is causing the backup of surface water. National Fuel is working with National Grid to gain Right-of-Entry access to work beneath National Grid's high voltage power lines to clear the debris that is causing the higher than normal water levels.
- Neither BTEX or PAH compounds were detected in Site upstream or downstream surface water samples during the May 2023 sampling event. Total cyanide was not detected in either the upstream or downstream surface water sample.
- Total Suspended Solids were not detected in either the upstream or downstream sample at a laboratory detection limit of 4.0 mg/L.
- Free cyanide was detected at a concentration of 2.3 J μ g/L at downstream location SW-01 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 May 2023 monitoring event.

A discussion of historical concentration trends and overall groundwater and surface water quality will be included in the 2023 PRR. Monitoring results indicate no immediate response actions appear to be warranted.

7.2 Groundwater Assessment Summary

The results of the monitoring well integrity assessment indicate that each of the four monitoring wells reflects the as-installed construction documented in well logs and each well is in acceptable condition to appropriately monitor groundwater at the facility. Minor repairs to the protective casing at well MW-12 and the well cover at well MW-7 are necessary and will be completed later this year. Neither condition affects the quality of groundwater samples collected from the wells. The redevelopment activities completed at each monitoring well indicated adequate groundwater yield and recovery of the monitored formation and no blockage or flow restriction was noted in any well. DNAPL was not present in the any of the tested wells.

The comparison of analytical results for bailer and low flow sample collection methods identified similar concentrations in well MW-7 (BTEX and PAHs) and MW-12 (Total and Free Cyanide) and were consistent with prior testing results, likely indicating stable constituent concentrations in the vicinity of each well. The bailer-collected sample concentrations from well MW-16 (Total and Free Cyanide) and MW-12 (BTEX and PAHs) were comparatively lower than the low flow sample results, suggesting that constituent back diffusion occurs from capped MGP waste residuals which locally affects water quality samples collected from the wells.

7.3 Recommendations

The Groundwater Quality Assessment conducted at wells MW-7, MW-12, MW-16, and MW-19 assisted in understanding the behavior of COCs in the saturated zone. Testing suggests the potential impact from back diffusion and its effect on sample quality as measured by the difference in COC concentrations in bailer-collected samples after purging and those collected by low flow sampling methods. National Fuel feels an additional round of sample collection using purging and bailer sample collection methods (as described in the NYSDEC-approved On-Site Groundwater Quality Assessment Work Plan, (March 2023) in the four wells will provide additional information to understand the effects of back diffusion on sample quality. These samples would be collected after low flow sampling is conducted as described in the O&M Plan during the 2023 Second Semiannual Monitoring event. A

comprehensive assessment of groundwater quality in these four areas will be discussed in the 2023 Periodic Review Report (PRR) and will include additional recommendations regarding on-Site groundwater quality. To further assess the effects from constituent back-diffusion at monitoring well location MW-16, an additional low-flow sample will be collected on the following day after the initial low-flow/bailer samples are collected. This third sampling result is intended to further evaluate the potential rebound in cyanide concentration theorized to occur. A comprehensive assessment of groundwater quality in these four areas will be discussed in the 2023 PRR and will include additional recommendations regarding on-Site groundwater quality.

As mentioned in Section 5.3, the entrance to the stormwater culvert will be inspected during future groundwater monitoring events and the accumulation of debris with the potential to cause back-up of surface water in the unnamed stream will be removed. National Fuel will work with National Grid on a case-by-case basis to gain Right-of-Entry access to the culvert for debris mitigation efforts. Groundwater monitoring will continue on a semi-annual basis to evaluate the effect of lower surface water elevations on cyanide concentrations at location MW-16.

Tables

Table 1. 2023 First Semiannual Monitoring Water Sampling SummaryMineral Springs Road MGP SiteNational Fuel Gas Distribution CorporationWest Seneca, New York

Location	Cyanide, Total	Cyanide, Free	BTEX	PAHs	TSS	Specific Conductivity	Water Elevatio	Benchmark n Elevation
	USEPA SW846 9014	USEPA SW846 9016	USEPA SW846 8260C	USEPA SW846 8270D	SM2540D	Field 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 Purifie	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	e Water							
SW-01	х	х	x	х	х	x	х	top of headwall = 587.0
SW-02	Х	Х	Х	Х	х	х	x ²	SG-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	icy)						
Trip Blank			Х					(one per shipment)
Field Duplicate	x	x	x	х				(one per event)
Equipment Blank	х	х	х	х				(one per event)
DNAPL Recov	very							
RTW-1				No Sa	ample Collection		acc	(purge well of umulated 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.

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⁾	April 17, 2018 (FIRST SEMIANNUAL 2018)		August (SECOND SEM	August 15, 2018 (SECOND SEMIANNUAL 2018)		April 17, 2019 (FIRST SEMIANNUAL 2019)		20, 2019 IANNUAL 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:

⁽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⁾ Staff Gauge used for surface water elevation damaged during winter 2022-23. Replacement staff gauge will be installed for 2SA 2023 gauging event. May 2023 surface water elevation surveyed by GEI.

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)		August (SECOND SEM	August 9, 2021 (SECOND SEMIANNUAL 2021)		April 19, 2022 (FIRST SEMIANNUAL 2022)		17, 2022 ANNUAL 2022)	May 2, 2023 (FIRST SEMIANNUAL 2023)	
	Elevation	Depth	Elevation	Depth	Elevation	Depth	Elevation	Depth	Elevation	Depth	Elevation
MW-07	587.01	5.96	581.05	5.76	581.25	4.60	582.41	6.99	580.02	3.70	583.31
MW-10	587.61	7.00	580.61	7.05	580.56	5.85	581.76	7.57	580.04	5.00	582.61
MW-11A	589.78	8.36	581.42	8.38	581.40	6.70	583.08	9.18	580.60	5.52	584.26
MW-12	591.40	11.00	580.40	11.03	580.37	9.75	581.65	11.97	579.43	8.57	582.83
MW-13	591.85	12.93	578.92	12.97	578.88	12.02	579.83	13.82	578.03	10.81	581.04
MW-14	589.53	11.49	578.04	11.45	578.08	10.69	578.84	12.11	577.42	10.25	579.28
MW-15	590.93	10.96	579.97	10.75	580.18	9.72	581.21	11.83	579.10	9.11	581.82
MW-16	588.99	7.65	581.34	7.77	581.22	6.41	582.58	8.60	580.39	4.86	584.13
MW-17	587.28	6.00	581.28	6.18	581.10	4.70	582.58	6.82	580.46	2.95	584.33
MW-19	589.83	9.15	580.68	9.15	580.68	7.76	582.07	10.16	579.67	6.99	582.84
MW-20	587.06	9.22	577.84	9.30	577.76	7.52	579.54	10.27	576.79	7.23	579.83
MW-21	587.84	10.63	577.21	10.65	577.19	9.89	577.95	11.20	576.64	9.44	578.40
MW-22	592.50	12.29	580.21	12.31	580.19	11.05	581.45	13.24	579.26	10.24	582.26
MW-23	589.28	11.17	578.11	11.14	578.14	10.33	578.95	11.69	577.59	10.83	578.45
SW-01	587.0 (Top Headwall)	6.20	580.80	na ⁽²⁾	na	4.20	582.80	na ⁽²⁾	na	1.05	585.95
SW-02	See note (3)	0.14	581.81	dry	<581.67'	2.50	584.17	0.90	582.57		na
RTW-1	na	8.30	na	8.64	na	7.75	na	11.02	na	8.59	na

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⁾ Staff Gauge used for surface water elevation damaged during winter 2022-23. Replacement staff gauge will be installed for 2SA 2023 gauging event. May 2023 surface water elevation surveyed by GEI.

na = not available.

Table 3. Field Measured Parameters-First Semiannual 2023 Groundwater Sampling EventMineral Springs Road MGP SiteNational Fuel Gas Distribution CorporationWest Seneca, New York

Well ID	Sampling Date	Sampling Time	рН (standard units)	Specific Conductance (mS/cm)	Temperature (°C)	Turbidity (ntu)	Oxidation Reduction Potential (mV)	Dissolved Oxygen (ppm)	Comments				
Groundwater	Sroundwater Monitoring Wells												
MW-07 ⁽¹⁾	05/04/23	8:15	6.24	1.53	11.1	3.60	18.7	1.74	petroleum-type odor				
MW-10	05/02/23	9:30	6.54	1.89	11.6	3.27	-47.6	0.35					
MW-11A	05/02/23	14:30	6.59	1.11	9.1	3.50	9.6	0.75					
MW-12 ⁽¹⁾	05/04/23	9:30	6.81	4.02	10.4	3.80	68.6	2.36					
MW-13	05/03/23	10:50	9.42	0.51	10.1	0.99	-27.4	0.25					
MW-14	05/02/23	11:10	6.42	2.62	12.2	4.42	-91.4	0.10					
MW-16 ⁽¹⁾	05/04/23	9:20	6.88	2.79	11.1	4.45	43.3	0.63					
MW-17	05/03/23	12:35	6.68	1.58	8.4	1.89	-40.8	2.66					
MW-19 ⁽¹⁾	05/04/23	10:50	6.4	1.23	10.3	4.81	-42.7	0.25					
MW-20	05/02/23	13:45	6.35	2.21	10.2	3.91	-77.7	0.16					
MW-21	05/02/23	15:10	6.39	3.26	10.8	4.43	-62.9	0.10					
MW-22	05/02/23	14:00	6.51	2.06	11.2	3.80	-26.2	0.75					
MW-23	05/02/23	12:25	6.59	6.55	11.9	4.67	94.9	3.76	Field Duplicate				
Surface Wate	Surface Water Sampling Locations*												
SW-01	05/03/23	9:20		1.04					downstream				
SW-02	05/03/23	8:40		1.03					upstream				

Notes:

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

⁽¹⁾ Groundwater parameters were recorded during low-flow sampling following well redevelopment.

Table 4A. Field Measured Parameters of MW-07 RedevelopmentMineral Springs Road MGP SiteNational Fuel Gas Distribution CorporationWest Seneca, New York

Well ID	Date	Time	Method	Total Volume (g)	pH (standard units)	Specific Conductance (mS/cm)	Temperature (°C)	Turbidity (ntu)	Oxidation Reduction Potential (mV)	Dissolved Oxygen (ppm)	Comments		
Groundwater Monitoring Wells													
MW-07	05/01/23	11:18	plastic/ss bailer	20.40	7.10	1.655	11.2	40.60	-109.9	1.41	Slight petroleum odor		
MW-07	05/02/23	9:00	whale pump	34.40	6.35	1.66	10.3	10.70	-124.1	8.27			
MW-07	05/03/23	11:45	plastic/ss bailer	36.40	6.65	1.74	10.7	3.80	-121.6	6.24	Sampled at this time		
MW-07	05/04/23	8:15	peristaltic pump	38.4	6.24	1.53	11.1	3.60	18.7	1.74	Sampled at this time		

Table 4B. Field Measured Parameters of MW-12 RedevelopmentMineral Springs Road MGP SiteNational Fuel Gas Distribution CorporationWest Seneca, New York

Well ID	Date	Time	Method	Total Volume (g)	рН (standard units)	Specific Conductance (mS/cm)	Temperature (°C)	Turbidity (ntu)	Oxidation Reduction Potential (mV)	Dissolved Oxygen (ppm)	Comments
Groundwate	er Monitoring	Wells									
MW-12	05/02/23	12:35	whale pump	25.00	6.15	4.04	10.8	3.27	31.8	6.09	
MW-12	05/03/23	12:15	bailer	27.00	6.17	4.12	10.5	4.86	27.6	5.74	Sample collected at this time
MW-12	05/04/23	9:25	persistaltic pump	28.50	6.81	4.02	10.4	3.80	68.6	2.36	Sample collected at 9:30. Clear

Table 4C. Field Measured Parameters of MW-16 RedevelopmentMineral Springs Road MGP SiteNational Fuel Gas Distribution CorporationWest Seneca, New York

Well ID	Date	Time	Method	Total Volume (g)	pH (standard units)	Specific Conductance (mS/cm)	Temperature (°C)	Turbidity (ntu)	Oxidation Reduction Potential (mV)	Dissolved Oxygen (ppm)	Comments
Groundwa	ter Monitoring	g Wells									
MW-16	05/01/23	13:00	ss bailer	20.00	4.43	3.17	11.2	OR	134.6	5.64	Slight odor, quick recovery
MW-16	05/02/23	12:15	whale pump	30.00	4.78	2.24	11.2	6.58	113.6	6.46	
MW-16	05/03/23	11:15	ss bailer	32.50	4.56	2.19	10.8	4.70	111.7	5.75	Sampled at this time
MW-16	05/04/23	9:15	peristaltic pump	35.5	6.88	2.791	11.1	4.45	43.3	0.63	Sample collected at 9:20

Table 4D. Field Measured Parameters of MW-19 RedevelopmentMineral Springs Road MGP SiteNational Fuel Gas Distribution CorporationWest Seneca, New York

Well ID	Date	Time	Method	Total Volume (g)	рН (standard units)	Specific Conductance (mS/cm)	Temperature (°C)	Turbidity (ntu)	Oxidation Reduction Potential (mV)	Dissolved Oxygen (ppm)	Comments	
Groundwater Monitoring Wells												
MW-19	05/01/23	13:30	ss bailer	15.00	6.57	1.416	11.0	OR	-100.7	2.46	slight petroleum odor, (2) 1 foot plastic bailers found in well	
MW-19	05/02/23	14:00	whale pump	55.00	NA	NA	NA	NA	NA	NA	dark-grey formation sand heavily present during development	
MW-19	05/03/23	12:30	ss bailer	58.50	6.48	1.316	11.2	3.91	-38.6	2.48	Sample taken at this time	
MW-19	05/04/23	10:47	peristaltic pump	60.25	6.4	1.229	10.3	4.81	-42.7	0.25	Sample taken at 1050	

Table 5A. Groundwater Analytical Summary- On-Site AreasMineral Springs Road MGP SiteNational Fuel Gas Distribution CorporationMineral Springs, NY

	Lo	cation Name	MW-07	MW-07	MW-10	MW-11A	MW-12	MW-12	MW-16	MW-16	MW-19	MW-19	
	S	ample Name	MW-07 BAILER	MW-07	MW-10	MW-11A	MW-12 BAILER	MW-12	MW-16 BAILER	MW-16	MW-19 BAILER	MW-19	
		Start Depth	5	5	5	3	5	5	8	8	15	15	
		End Depth	15	15	15	18	15	15	18	18	25	25	
			Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		:	Sample Date	5/3/2023	5/4/2023	5/2/2023	5/2/2023	5/3/2023	5/4/2023	5/3/2023	5/4/2023	5/3/2023	5/4/2023
	Pa	rent Sample											
Analyte	Units	CAS No.	NYS AWQS										
BTEX	ug/L												
Benzene		71-43-2	1	1200	1100	1 U	2.7					3200	4200
Toluene		108-88-3	5	16 J	16 J	1 U	2 U					50 U	100 U
Ethylbenzene		100-41-4	5	1100	1100	1 U	2 U					290	410
Total Xylene		1330-20-7	5	430	390	2 U	4 U					53 J	200 U
Total BTEX (ND=0)		TBTEX_ND0	NE	2746	2606	ND	2.7					3543	4610
PAH17	ug/L												
Acenaphthene		83-32-9	20*	160	140	0.52 U	2.1					0.88	100 U
Acenaphthylene		208-96-8	NE	3.5	52 U	0.52 U	1.3					0.5 U	100 U
Anthracene		120-12-7	50*	6.2 J	52 U	0.52 U	0.5 U					0.5 U	100 U
Benzo(a)anthracene		56-55-3	0.002*	0.5 U	52 U	0.52 U	0.5 U					0.5 U	100 U
Benzo(b)fluoranthene		205-99-2	0.002*	0.5 U	52 U	0.52 U	0.5 U					0.5 U	100 U
Benzo(k)fluoranthene		207-08-9	0.002*	0.5 U	52 U	0.52 U	0.5 U					0.5 U	100 U
Benzo(g,h,i)perylene		191-24-2	NE	0.5 U	52 U	0.52 U	0.5 U					0.5 U	100 U
Benzo(a)pyrene		50-32-8	ND	0.5 U	52 U	0.52 U	0.5 U					0.5 U	100 U
Chrysene		218-01-9	0.002*	0.5 U	52 U	0.52 U	0.5 U					0.5 U	100 U
Dibenz(a,h)anthracene		53-70-3	NE	0.5 U	52 U	0.52 U	0.5 U					0.5 U	100 U
Fluoranthene		206-44-0	50*	0.68 J	52 U	0.52 U	0.5 U					0.5 U	100 U
Fluorene		86-73-7	50*	46	52 U	0.52 U	0.5 U					0.5 U	100 U
Indeno(1,2,3-cd)pyrene		193-39-5	0.002*	0.5 U	52 U	0.52 U	0.5 U					0.5 U	100 U
2-Methylnaphthalene		91-57-6	NE	350	290	0.52 U	0.5 U					26	100 U
Naphthalene		91-20-3	10*	2900	2700	0.5 UJ	0.5 UJ					1300	3200
Phenanthrene		85-01-8	50*	36	52 U	0.52 U	0.5 U					0.5 U	100 U
Pyrene		129-00-0	50*	0.9	52 U	0.52 U	0.5 U					0.5 U	100 U
Total PAH (17) (ND=0)		TPAH17_ND0	NE	3503	3130	ND	3.4					1327	3200
Cyanides	ug/L												
Free Cyanide		FREECN	NE				2.3 J	3.3 J	13.3	12.5	59.1		
Total Cyanide		57-12-5	200				200	580	720 J	2300 J	3100 J		
Other													
Total Suspended Solids	ug/L	TSS	NE				39200						

Table 5B. Groundwater Analytical Summary- Perimeter Areas Mineral Springs Road MGP Site National Fuel Gas Distribution Corporation Mineral Springs, NY

	cation Name	MW-13	MW-14	MW-17	MW-20	MW-21	MW-22	MW-23	MW-23		
	ample Name	MW-13	MW-14	MW-17	MW-20	MW-21	MW-22	MW-23	Duplicate		
	10	10	7	10	10	10	5	5			
	20	20	17	20	20	20	20	20			
			Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft
	5/3/2023	5/2/2023	5/3/2023	5/2/2023	5/2/2023	5/2/2023	5/2/2023	5/2/2023			
								MW-23			
Analyte	Units	CAS No.	NYS AWQS								
BTEX	ug/L										
Benzene		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*	0.52 U		2.7 U				0.54 U	0.52 U
Acenaphthylene		208-96-8	NE	0.52 U		2.7 U				0.54 U	0.52 U
Anthracene		120-12-7	50*	0.52 U		2.7 U				0.54 U	0.52 U
Benzo(a)anthracene		56-55-3	0.002*	0.52 U		2.7 U				0.54 U	0.52 U
Benzo(b)fluoranthene		205-99-2	0.002*	0.52 U		2.7 U				0.54 U	0.52 U
Benzo(k)fluoranthene		207-08-9	0.002*	0.52 U		2.7 U				0.54 U	0.52 U
Benzo(g,h,i)perylene		191-24-2	NE	0.52 U		2.7 U				0.54 U	0.52 U
Benzo(a)pyrene		50-32-8	ND	0.52 U		2.7 U				0.54 U	0.52 U
Chrysene		218-01-9	0.002*	0.52 U		2.7 U				0.54 U	0.52 U
Dibenz(a,h)anthracene		53-70-3	NE	0.52 U		2.7 U				0.54 U	0.52 U
Fluoranthene		206-44-0	50*	0.52 U		2.7 U				0.54 U	0.52 U
Fluorene		86-73-7	50*	0.52 U		2.7 U				0.54 U	0.52 U
Indeno(1,2,3-cd)pyrene		193-39-5	0.002*	0.52 U		2.7 U				0.54 U	0.52 U
2-Methylnaphthalene		91-57-6	NE	0.52 U		2.7 U				0.54 U	0.52 U
Naphthalene		91-20-3	10*	0.5 UJ		2.7 U				0.54 U	0.52 U
Phenanthrene		85-01-8	50*	0.52 U		2.7 U				0.54 U	0.52 U
Pyrene		129-00-0	50*	0.52 U		2.7 U				0.54 U	0.52 U
Total PAH (17) (ND=0)		TPAH17_ND0	NE	ND		ND				ND	ND
Cyanides	ug/L										
Free Cyanide		FREECN	NE	5 U	4.9 J	5 U	5.9	8.9	13.5	6.5	8.5
Total Cyanide		57-12-5	200	10 U	610	27 J	870 J	410	440	150	140

Tables 5A and 5B. Groundwater Analytical Summary- Notes Mineral Springs Road MGP Site National Fuel Gas Distribution Corporation Mineral Springs, NY

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, Benz[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, 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 guidance 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 Blue shading indicates wells that were redeveloped and sampled as part of the Groundwater Assessment

Validation Qualifiers:

J = The result is an estimated value.

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

UJ = The results was not detected at or above the reporting limit shown and the reporting limit is estimated.
Table 6. Surfacewater Analysis ResultsMineral Springs Road MGP SiteNational Fuel Gas Distribution CorporationMineral Springs, NY

			Location Name	SW-01	SW-02
			Sample Name	SW-01	SW-02
			Sample Date	5/3/2023	5/3/2023
			- -		
Analyte	Units	CAS No.	Class D Stream		
BTEX	ug/L				
Benzene		71-43-2	10	1 U	1 U
Toluene		108-88-3	6000	1 U	1 U
Ethylbenzene		100-41-4	150	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	0.53 U
Acenaphthylene		208-96-8	NE	0.5 U	0.53 U
Anthracene		120-12-7	35	0.5 U	0.53 U
Benzo(a)anthracene		56-55-3	0.23	0.5 U	0.53 U
Benzo(b)fluoranthene		205-99-2	NE	0.5 U	0.53 U
Benzo(k)fluoranthene		207-08-9	NE	0.5 U	0.53 U
Benzo(g,h,i)perylene		191-24-2	NE	0.5 U	0.53 U
Benzo(a)pyrene		50-32-8	0.0012	0.5 U	0.53 U
Chrysene		218-01-9	NE	0.5 U	0.53 U
Dibenz(a,h)anthracene		53-70-3	NE	0.5 U	0.53 U
Fluoranthene		206-44-0	NE	0.5 U	0.53 U
Fluorene		86-73-7	4.8	0.5 U	0.53 U
Indeno(1,2,3-cd)pyrene		193-39-5	NE	0.5 U	0.53 U
2-Methylnaphthalene		91-57-6	42	0.5 U	0.53 U
Naphthalene		91-20-3	110	0.5 UJ	0.5 UJ
Phenanthrene		85-01-8	45	0.5 U	0.53 U
Pyrene		129-00-0	42	0.5 U	0.53 U
Total PAH (17) (ND=0)		TPAH17_ND0	NE	ND	ND
Cyanides	ug/L				
Free Cyanide		FREECN	9000	2.3 J	5 U
Total Cyanide		57-12-5	9000	10 U	10 U
Other					
Total Suspended Solids	ug/L	TSS	NE	4000 U	4000 U

Table 6. Surfacewater Analysis ResultsMineral Springs Road MGP SiteNational Fuel Gas Distribution CorporationMineral Springs, NY

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, Benz[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.

UJ = The results was not detected at or above the reporting limit shown and the reporting limit is estimated.

Figures





and the second second			
11- 10-		<u>LEGEND</u>	
CE		EXISTING STRUCTURE	
7		REMEDIAL CONSTRUCTION FORMER STRUCTURE	
7 /		EXISTING EXCAVATION LIMITS	
	₩₩-7 • S₩-01 →	MONITORING WELLS SURFACE WATER SAMPLE LO	DCATION
		(ASTERISK INDICATES HISTC SUPPLEMENTAL UPSTREAM SAMPLING LOCATION)	RIC SUFACE WATER
/	APRE	ADDITIONAL PURIFIER RESID	UALS
	B3EAC B3SAC	BUILDING 3 EAST ASPHALT BUILDING 3 SOUTH ASPHAL	CAP F CAP
	B8WAC B10AC	BUILDING 8 WEST ASPHALT BUILDING 10 ASPHALT CAP	CAP
	CC CM	CLAY CAP CORRECTIVE MEASURE WEST	PROPERTY LINE
	CTBE	CENTRAL TAR BOILS EXCAVA DIESEL PAD EXCAVATION	TION
	EDD	EASTERN DRAINAGE DITCH	
	ESNAC	EASTERN SWALE NORTH AS	PHALT CAP
	ESSAC	EASTERN SWALE SOUTH AST EASTERN TAR BOILS EXCAN	ATION
	NTBE RTW1	NORTHERN TAR BOILS EXC RECOVERY TEST WELL AND	AVATION
	SETLE	SOUTHEASTERN TAR LENSES	
	SPE	SEPARATOR PITS EXCAVATIO	NAVATION
	WTBE	WESTERN TAR BOILS EXCAV	ATION
		CLAY CAP	
		ASPHALT CAP	thulana) CAD
		HDPE (High Density Polye	thylene) CAP
		REMEDIAL EXCAVATION	
4	PREVIOUSLY REMED	NATED AREAS ARE SHADED	RED
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orporation	W	SITE LAYOUT	
aciiity	GEI		
v York	Project 2300298	August 2023	Figure 2



	1/1/1995	6/23/2000	12/14/2005	6/6/2011	11/26/202	16 5/19/2	022 11	1/9/2027
				Date				
Note:								
May 2023	bailer and low-flow	v samples were bo	th collected after we	ll redevelopment.				
			Iational Fuel Ga Minoral Sprin	as Corporation			TIME-SE	ERIES PLOTS
				iyə Facility	(-		MW-7	
			West Seneca,	New York	P	roject 2300298	August 2023	B Figure





Note:

May 2023 bailer and low-flow samples were both collected after well redevelopment.

National Fuel Gas Corporation Mineral Springs Facility		TIME-SERIES PLOTS MW-12
	Consultants	
West Seneca, New York	Project 2300298	August 2023 Figure 4



	1/1/1995	6/23/2000	12/14/2005	6/6/2011	11/26/202	16 5/19/20	22 11/9	/2027
				Date				
Note:								
May 2023	bailer and low-flov	v samples were bo	th collected after we	Il redevelopment.				
		1	National Fuel G Mineral Spri	as Corporatior ngs Facility	۱ (TIME-SEI MW-16	RIES PLOTS
			West Seneca	New York		Project 2300298	August 2023	Figure 5







Monitoring Well Sampling Logs



Mineral springs Road Former MGP site Well ID: MW-10											
Date 5/2/2023 Well Depth (ft btoc)											
Field Personnel J. M. 900 Depth to Water (ft btoc) 5:00											
Well Volume (g)											
Time Total Volume (g) Temp () pH Cond (pls/cm) ORP (mV) D.O. (mg/L) Turbidity (NTU) Comments											
0855	0	(1.)	6.64	2.005	24.7	1.55	9.77				
0902	.5	11.4	6.52	2.012	9.6	1.00	8.8				
0907	1.0	11.3	6.51	1.985	-8.1	0.71	6.81				
0916	1.25	11.4	6.52	1.954	-24.3	0.48	4.52				
0921	2.00	11.5	6.54	1.921	-38.2	0.49	3.45				
0927	2.5	11.6	6.54	1.887	-47.6	0.35	3.27				
		Samp	le ta	ten 1	0) 09	30					
		DTW	after	Sampl	ing : :	5.90'					
		3	Jallons	pure	led						
<u></u>											



Site Name: Miner	al Sprdn	95 Roo	J FORM	ner MG	p site	Well ID: MW-	-11A					
Date	5/2/2023 Well Depth (11 DTW) 5.52 (5/3)											
Field Personnel	Tield Personnel											
Method of Purging/ Sampling 10W Flow Sampling Casing type/dla.												
Well Volume (g)												
Time	Total Volume (g)	Temp (F)	рН	Cond (þ ís/cm)	ORP (mV)	D.O. (mg/L)	Turbidity (NTU)	Comments				
1410	initial	9.2	6.57	1.020	18.6	4.82	10.6	Clear				
1415	0.5	9.3	6.58	1.070	23.2	1.88	4.8					
1420	1.0	9.]	6.59	1.100	10.4	0.99	3.7					
1430	1.5	9.1	6.57	1.100	9.6	0.75	3.5					
			san	nple a	collect	ed (a)	1430					
							(1450)					
SW-C	12 - 2.4	0'										
MW-	11A - 2	46'		RTW	1 - 7.6	5 DTW						
SW-0	2 (412	1) - 7.0	5									
SW - p2(5/8) - G.1p'												



Miheral Springs Road Former MEP site Well ID: MW-13												
Date 5/3/2023 Well Depth (ft btoc) Field Personnel J. Prygon Depth to Water (ft btoc) Mathed of Running/Security Depth (ft btoc) 10.81												
Vethod of Purging/ Sampling_IOW_TVW_SWN_TIVY Casing type/dia Well Volume (g)												
Time	Total Volume (g)	Temp (°k) C	рН	Cond (As/cm)	ORP (mV)	D.O. (mg/L)	Turbidity (NTU)	Comments				
1023	0.0	9.7	9.54	0.506	-24.1	1.84	4.7					
1028	0.25	9.9	9.62	0.500	-14.4	0.92	2.8					
1033	0.50	10.2	9.59 (19-0.500	-17.8	0.48	2.5					
1038	0.75	10.2	9.53	0.50	-20.8	0.36	1.4					
1043	1.25	10.2	9.46	0.507	-25.6	0.29	1.38					
1048	1.50	10.1	9.42	0.505	-27.4	0.25	0.99					
		(0	nolo)	6)	050							
		<i></i>	milea		0,5							



Site Name: Mineral springs Road Former MGP site Well ID: MW-14													
Date	$\begin{array}{c} \text{Date} & 5/2/2023 \\ \hline \text{Field Personnel} & \overline{\text{J.Prygon}} \\ \hline loss of Constant o$												
Method of Purging/ Sampling JOW Flow Sampling Casing type/dia. 2 in													
Time	Total Volume (g)	Temp (°衔) (pН	AL Cond (ds/cm)	ORP (mV)	D.O. (mg/L)	Well Volume (g)	Comments					
1020	0	11.1	6.45	2.534	60.4	0.76	87.9	pungent odor					
1025	.25	11.3	6.36	2.610	-70.5	0.43	46.2						
1030	.3	11.5	6.37	2.616	-77.3	0.34	24.0						
1035	.5	11.8	6.41	2.626	-81.6	0.27	17.8						
1040	1.0	11.9	6.41	2.624	-83.9	0.2	13.4						
1045	1.5	12.0	6.47	2.626	-86.6	0.24	11.6						
1050	2.0	11.9	6.43	2.630	-88.3	0.16	13.02						
1055	2.25	12.0	6.43	2.629	-91.2	0.13	7.50						
1100	2.5	12.1	6.42	2.624	-90.7	0.10	7.52						
1105	2.75	12.2	6.42	2.620	-91.4	0.10	4.42						
			<u> </u>			~ 11/~	8						
		SAN	rries	collec	ted (01110							
		DTW	after	sampl	ing ! l	2.57'							



Site Name: Minero	n sprin	95 Roa	d Former	- M6P .	site		1-17			
Date5/	3/20	23					Well Depth (ft btoc)			
Field Personnel	J. prg	900					Depth to Water (ft b	stoc) <u>2.95</u>		
Method of Purging/	Sampling 10 V	Casing type/dia	217							
-28.7 Well Volume (g)										
Time	Total Volume (g)	Temp (🎢) 🖒	рH	Cond (As/cm)	ORP (mV)	D.O. (mg/L)	Turbidity (NTU)	Comments		
1155	.25	7.9	6.83	1.728	-2.84	3.46	3.57	Bubbles entrained		
1200	.75	8.1	6.80	1.710	-34.5	2.72	4.75	in sompling like		
1205	1.25	8.1	6.70	1,680	-38.6	2.55	4.53			
1210	1.75	8.1	6.68	1.643	-40.7	2.52	2.76			
1215	2.25	8.2	6.66	1.616	-41.	2.37	5.56			
1220	2.75	8.3	6.67	1.601	-41.3	2.44	3.39			
1225	3.25	8.4	6.69	1.576	-40.9	2.51	2.88			
1230	4.00	8.4	6.68	1.576	-40.8	2.66	1.89			
		4.0	15 921	lons	remol	red				
		Sov	npled	(a) 1	235					



Site Name: Miner	Mineral springs Road Former mer site MW-20											
Date 5/	Date 5/2/2023 Well Depth (ft btoc)											
Field Personnel	Tield Personnel J. F/J. JUND Depth to Water (ft bloc) / 2 / 2											
Method of Purging/ Sampling OW TWW SOMPTING Casing type/dia.												
Time	Total Volume (g)	Temp (🌮)	рН	Cond (As/cm)	ORP (mV)	D.O. (mg/L)	Turbidity (NTU)	Comments				
1315	0.0	10.2	6.40	2.196	-54.3	1.29	9,9	pungent odor				
1320	0.25	10.2	6.36	2.204	-64.d	0.55	8.97	•				
1325	0.75	10.1	6.35	2.206	-69.2	0.36	6.12					
1330	1.25	10.1	6.35	2.207	-71.8	0.25	6.10					
1335	1.75	10.1	6.35	2.208	-74.7	0.19	3.88					
1340	2.00	10.2	6.35	2.207	-77.7	0.16	3.91					
		Sam	rle t	atten	@ 13'	15						
		DTW	often	r Som	pling	7.26	1					
		~ 2	3 00	11025	Reraed							
			1- 30	-11.0 -0								



Mineral Springs Road Former MGP site Well ID: MW-21													
Date	Date 5/2/2023 Well Depth (ft btoc)												
Field Personnel J. 17901 Depth to Water (ft btoc) 9.941													
Method of Purging/ Sampling UW TIVW SONNFILITY Casing type/dia.													
Time Total Volume (g) Time Total Volume (g)													
	Total volume (g)		рп	Cond (Jis/cm)		D.O. (mg/L)	Turbidity (NTU)	Comments					
1433	0.0	10.9	6.34	3.207	-27.6	0.96	96.6						
1443	1.25	11.0	6.35	3.243	-52.1	0.25	31.7						
1448	2.00	10.9	6.36	3.253	-53.8	0.18	11.1						
1453	2.50	N.0	6.37	3.259	-57.2	0.15	10.99						
1458	3.00	10.8	6.37	3.262	-60.2	0.11	6.52						
1503	3.25	10.8	6.39	3.261	-62.9	0.10	4.43						
		۲ د د	omple	tatie	~ @ 1	510							
) the at	Her	sampli	ng: 9.4	151						
		~	- 4 gal	loos	Loonie	5							
			1 300										



Mineral Springs Road Former MGP site Well 10: MW-22									
Date 5/2/2023 Well Depth (ft btoc) Field Personnel MAC Depth to Water (ft btoc) Method of Purging/ Sampling LOW Flow Samfling Casing type/dia. Well Volume (g) Well Volume (g)									
Time	Total Volume (g)	Temp (°F)	рН	Cond fus/cm)	ORP (mV)	D.O. (mg/L)	Turbidity (NTU)	Comments	
1320	int.	10.5	6.42	1.300	48.4	2.83	9.2	Clear	
1330	0.59	11.2	6.51	2.030	9.7	1.69	6.6		
1340	1.09	11.2	6.52	2.050	-24.7	1.16	4.3		
1345	1.59	11.2	6.52	2.060	-25.7	0.86	4.2		
1350	وەند	11.2	6.51	2.060	-26.2	0.75	3.8		
				Sampl	e Coll	ected			
				(α) 1	100				



Site Name: Mhel	al spris	ngs Ra	oad Fo	mer M	GP site		-23	
Date5 Field Personnel Method of Purging/	ノスノスク J. P Sampling 10 W	23 14901 Flow St	Well Depth (ft btoc) Depth to Water (ft btoc)_ <u>10 . 83 /</u> Casing type/dia Well Volume (g)					
Time	Total Volume (g)	Temp (%)	pН	Cond (s/cm)	ORP (mV)	D.O. (mg/L)	Turbidity (NTU)	Comments
1150	0.0	12.0	6.59	6.66	57.0	3.91	44.3	
1155	0.3	12.2	6.59	6.66	76.8	3.8	15.1	
1200	0.75	12.1	6.59	6.65	85.7	3.70	9.79	
1205	1.00	12.2	6.58	6.66	921	3.62	9.35	
1210	1.5	12.0	6.61	6.65	75.6	4.06	6.41	95I shutoff
1215	2.0	12.1	6.59	6.63	87.2	3.76	4.92	
1220	2.3	11.9	6.59	6.55	94.9	3.76	4.67	
		5	amples	tan	en co	1223	-	
		Į.)TW of	ter so	mpling	:10.86	/	
		~	3 gal	lons (urged			

Appendix B

Monitoring Well Condition Summary Forms



Facility: NFG Mineral Springs	Well/Piezometer Name: <u>MW-7</u>
Evaluator: M. CUMMIN95	Evaluation Date: $5/1/2023$

Is the wall's logation annumitate to the second states of the second sta	Y	N	N/A
Is the well's location appropriately shown on a facility map?	V		
Is the well adequately flagged if hard to find?			V
Is the well elevation information inscribed at or on the well correct?		1/	
Is the well:			1
I flush with surface?	1		
□ above ground?	V		
Is the well free of physical damage?	V		
Is the well labeled on the inside?		1/	
Is the well labeled on the outside?		1/	
Does the well have protective posts, if necessary?		1/	
Do above ground wells have weep holes at the base of the protective casing?		V	1/
Does the area around the well appear clean?			
Is the casing secure (attempt to move along two perpendicular axes)?	V		
Is the surface seal void of differential erosion around and under the base?	V		
Is the surface seal free of cracks that might affect the integrity of the seal?	1/		
Is the surface seal sloped to prevent ponding around the well?	1/		
Is the well free from standing or ponded water?	V		
Is the well locked to prevent unauthorized access?	V		
Is the protective casing cap void of large gaps which would breach security?	V		
Is the locking cap free of rust?	V		
Is there a survey mark on the riser/wellhead assembly cap?		V	
Is the riser cap vented?		V	
Is the annular space free of animal/insect nests?		V	
Is the annular space appropriately filled with filtering material?		V	
If a pump, can it be lifted a few inches? (do not test prior to sampling)		V	
Is the well free of kinks or bends?		V	
comments: Missing a bolt, bolt r	nount	60	oke

Tubing: 11.7'bgs DTW: 3.55'bgs hard bottom 14.8' below top OFPUC



Facility: NFG Mineral Springs	Well/Piezometer Name: MW-12	
Evaluator: M.CUMMIngS	Evaluation Date: 5/1/2023	

Г

Is the well adequately flagged if hard to find? Is the well adequately flagged if hard to find? Is the well elevation information inscribed at or on the well correct? Is the well: Is the well: Is the well: Is the well flush with surface? Is the well free of physical damage? Is the well free of physical damage?			
Is the well adequately flagged if hard to find? Is the well elevation information inscribed at or on the well correct? Is the well:			
Is the well elevation information inscribed at or on the well correct? Is the well: Is the well: above ground? Is the well free of physical damage?		V	
Is the well: Is the well: Is the well free of physical damage? Is the well free of physical damage?			
 flush with surface? above ground? Is the well free of physical damage? 			
above ground? Is the well free of physical damage?			
Is the well free of physical damage?		11/	1
			1
is the well labeled on the inside?	1	V	1
Is the well labeled on the outside?		1/	+
Does the well have protective posts, if necessary?		V	1
Do above ground wells have weep holes at the base of the protective casing?		1	
Does the area around the well appear clean?	V		+
s the casing secure (attempt to move along two perpendicular axes)?			+
s the surface seal void of differential erosion around and under the base?		1	V
s the surface seal free of cracks that might affect the integrity of the seal?		1	V
s the surface seal sloped to prevent ponding around the well?		1	V
s the well free from standing or ponded water?	V		
s the well locked to prevent unauthorized access?	V		
s the protective casing cap void of large gaps which would breach security?	ÍV	1	
s the locking cap free of rust?		1/	1
s there a survey mark on the riser/wellhead assembly cap?		V	
s the riser cap vented?		V	
s the annular space free of animal/insect nests?			
s the annular space appropriately filled with filtering material?		V	
f a pump, can it be lifted a few inches? (do not test prior to sampling)			V
s the well free of kinks or bends?		V	
DMMENTS: <u><i>liser bent and protective</i></u> bent	e ca	sing)

PUMP intoke : 14' BTOC DTW: 8.75' BTOC Han bottom: 18.3' Stickup height: 1.65' BTOC BTOC BTOC



Facility: NFG Mineral Springs	Well/Piezometer Name: MW -16
Evaluator: M. (UMMings	Evaluation Date: $5/1/2023$

			-
	Y	N	N/A
Is the well's location appropriately shown on a facility map?	V		
Is the well adequately flagged if hard to find?	V		1
Is the well elevation information inscribed at or on the well correct?		1/	1
Is the well:			
□ flush with surface?			
☑ above ground?			
Is the well free of physical damage?	V		+
Is the well labeled on the inside?		V	
Is the well labeled on the outside?		V	1
Does the well have protective posts, if necessary?		V	V
Do above ground wells have weep holes at the base of the protective casing?			1
Does the area around the well appear clean?	V		
Is the casing secure (attempt to move along two perpendicular axes)?	V		<u> </u>
Is the surface seal void of differential erosion around and under the base?			V
Is the surface seal free of cracks that might affect the integrity of the seal?			V
Is the surface seal sloped to prevent ponding around the well?			V
Is the well free from standing or ponded water?	V		
Is the well locked to prevent unauthorized access?	V		
Is the protective casing cap void of large gaps which would breach security?		V	
Is the locking cap free of rust?		V	
Is there a survey mark on the riser/wellhead assembly cap?		1/	
Is the riser cap vented?		V	
Is the annular space free of animal/insect nests?	V		
Is the annular space appropriately filled with filtering material?		V	
If a pump, can it be lifted a few inches? (do not test prior to sampling)			1/
Is the well free of kinks or bends?	V		V
Tilling into the 19 F' BTN(]
He C) Letter DTRL C DIUC	attanti attant	- Site (all a second	
TULA DOTTUM NID: 20.05 BIOL			
STICKUP: U.S			



Facility: NFG Mineral SI	MM95 Well/Piezometer Name:	MW-19
Evaluator: M. CUMMINg.	S Evaluation Date: $5//$	12023

	Y	N	N/A
Is the well's location appropriately shown on a facility map?	V		
Is the well adequately flagged if hard to find?		V	
Is the well elevation information inscribed at or on the well correct?			
Is the well:			
□ flush with surface?			
above ground?			
Is the well free of physical damage?	V		
Is the well labeled on the inside?		V	
Is the well labeled on the outside?		1	
Does the well have protective posts, if necessary?		-v	V
Do above ground wells have weep holes at the base of the protective casing?		V	
Does the area around the well appear clean?	V		
Is the casing secure (attempt to move along two perpendicular axes)?	V		
Is the surface seal void of differential erosion around and under the base?	1/		
Is the surface seal free of cracks that might affect the integrity of the seal?	V		
Is the surface seal sloped to prevent ponding around the well?		V	
Is the well free from standing or ponded water?	V		
Is the well locked to prevent unauthorized access?	V	·	
Is the protective casing cap void of large gaps which would breach security?	V		
Is the locking cap free of rust?	V	2	
Is there a survey mark on the riser/wellhead assembly cap?		V	
Is the riser cap vented?	V		
Is the annular space free of animal/insect nests?	V		
Is the annular space appropriately filled with filtering material?		V	
If a pump, can it be lifted a few inches? (do not test prior to sampling)			V
Is the well free of kinks or bends?	V		
1 1 1 1 1 0 0 1			

COMMENTS: Measured depth 123' Two one-Foot disposable bailers were removed during development

Appendix C

Monitoring Well Redevelopment Logs



×.



Site Name: Minero	N Sprin	95 Roo	J Forme	r MGP	site	Well ID:	16-7		Ĭ
Date 5/	14/202	3					Well Depth (ft btoc)	
Field Personnel	MAC						Depth to Water (ft I	otoc) <u>3.70</u>	
Method of Purging	Sampling0	N-FIOW	sampling	9			Casing type/dia	<u></u>	
				44			Well Volume (g)		
Time	Total Volume (g)	Temp (°))	рH	Cond (Ns/cm)	ORP (mV)	D.O. (mg/L)	Turbidity (NTU)	Commenta	
745	initial	11.0	6.04	1.74	134.7	4.13	4.5	Clear	
755	0.5	11.1	6.14	1.66	81.71	2.45	3.7	light petroleum*	
805	1.0	11.1	6.19	1.59	49.4	1.87	3.9	7060	
810	1.5	11.1	6.24	1.51	21.9	1.43	4.1		
815	2.0	11.1	6.24	1.53	18.7	1.74	3.6	(* weathered Gos I diesel)	E
						_			
				Sample	e colla	ected (0)		
				815	-				



۰.

Site Name: Miner	al sprin	gs Road	Former	MEP	site		-12	
Date	5/2/2 MA	023					Well Depth (ft btoc)	$\frac{18.3}{100}$ 8.57
Method of Purgin	g/Sampling POST	redevelo	pment .	sompling		2	Casing type/dia	2" PVC
Time	Total Volume (g)	Temp (°)	рH	Cond (tje/cm)	ORP (mV)	D.O. (mg/L)	Turbidity (NTU)	Comments
1210	59	10.2	5.83	4.68	117.3	8.79	36.9	little iron
1214	109	10.5	6.16	4.38	33.2	5,33	5.21	staining, slight o
1218	159	10.6	6.21	4.17	18.5	5.07	3.07	
1230	209	10.7	6.10	4.10	24.9	7,33	4.64	
1235	259	10.8	6.15	4.04	31.8	6.09	3.27	
1215	2.09	10.5	6.17	4.12	27.6	5.74	4.86	collected at 1215
								97
	2							
							÷	



Mineral Springs Road Former MGP SITE MW-12													
Date	Vate 5/4/2023 Well Depth (ft bloc)												
Field Personnel	eld Personnel MAC Depth to Water (ft btoc) 8:85												
Method of Purging	ethod of Purging/ Sampling 10V flow Sampling Casing type/dia. 2" PVC												
				Well Volume (g)									
Time	Total Volume (g)	Temp (NC	D.O. (mg/L)	Turbidity (NTU)	Comments								
910	0.09	10.3	6.74	4.12	153.8	3.86	5.1	clear					
915	0.59	10.3	6.77	4.11	105.0	3.94	3.8						
920	1.09	10.4	6.79	4.07	76.3	2.49	4.2						
925	1.59	10.4	6.81	4.02	68.6	2.36	3.8						
			Sam	ple (ollecte	ed (a)	930						
						Ŭ							
						li -							



Site Name: Mine(al spri	ngs Ro	ad For	mer MG	rp site	Well ID:	1-16		
Date	5/1/20 MAC	23			SW-01	DTW: 1.05 3/2023	Well Depth (ft bloc) Depth to Water (ft b	20.15 http://www.solution.com/	8
Method of Purging	Sampling POSt	redele	Poment	somplin	9		Casing type/dia	2" PVC 20.15-4.80) #.16 =	-2
Time	Total Volume (g)	Temp (°F)	рН	M Cond (As/cm)	ORP (mV)	D.O. (mg/L)	Turbidity (NTU)	Comments	ĺ
1015	initial	10.3	3.97	3.55	245.7	4.57	10.75		
1019	2.5	0.6	4.15	3.55	112.9	2.92	OR	slight odor	
1027	5.0	11.2	4.34	3.38	121.7	4.19	OR	, , , , , , , , , , , , , , , , , , ,	
1100	7.5	11.	4.25	3.14	121.6	5.26	80.6	quick recovery	
1130	10.0	11.1	4.34	3.11	152.6	6.14	43.6		
1150	12.5	11.2	4.41	3.13	158.6	6.17	51.5	to A to a still	
1230	15.0	11.2	4.44	3.14	147.6	5.24	OR	coniling from bottom	
1245	17.5	11.3	4.35	3.21	125.7	4.15	OR		
1300	20.0	11.2	4.43	3.17	134.6	5.64	OR		
1000	30.0	11.2	4.78	2.24	113.6	6.46	6.58	whole pump (+109)	Į.
1115	2.59	10.8	4.56	2.19	111.7	5.75	4.7	clear, collected	
		-						@ 1115	



Mineral springs Road Former MGP site MW-16												
Date 5/4/2023 Well Depth (ft btoc)												
Field Personnel	ield Personnel J. Prygon Depth to Water (ft btoc) 4.86											
Method of Purging	Sampling	Flow Son	mpling	Casing type/dla, 2. 1								
			Well Volume (g)									
Time	Total Volume (g)	Temp (*)	рН	Cond (ds/cm)	ORP (mV)	D.O. (mg/L)	Turbidity (NTU)	Comments				
0830	0.1	10.8	6.23	3.055	89.5	2.27	11.0	pungent odor				
0835	0.25	11.0	6.57	3.066	76.0	1.13	8.98	slight sheen				
0840	0.5	11.0	6.62	3.003	83.6	1.08	8.76					
0845	1.0	11.0	6.68	2.943	78.1	0.79	7.92					
0850	1.5	11.0	6.74	2.910	74.0	0.81	7.61					
0855	1.75	11.1	6.78	2.871	69.7	0.66	7.12					
0900	2.00	11.0	6.82	2.848	64.3	0.71	6.38					
0905	2.50	11.0	6.83	2.813	57.7	0.63	5.73					
0910	2.75	11.1	6.84	2.800	51.0	0.66	5.36					
0915	3.00	11.1	6.88	2.791	43.3	0.63	4.45					
			Samp	ed (0)	P () (20	PTN: 5	,44 /				
			3.0 3	allons	remo	ved						



old Personnel	J. Pro	1900	No Pro an	t cono P			Depth to Water (ft I	btoc) 7.23
ethod of Purging	a/ Sampling <u></u> ^C OJ-	FICAEVE	40171101	1 20001	inty		Casing type/dia Well Volume (g)	3.24
Time	Total Volume (g)	Temp (° f) C	рН	Cond (Js/cm)	ORP (mV)	D.O. (mg/L)	Turbidity (NTU)	Comments
1254	0.0	11.2	6.62	1.215	-95.4	1.34	27.5	slight petroleum or
1330	159	11.0	6.57	1.416	-100.7	2.46	OR	1 Foot Mastic (
1400	559	remove	409	W/W	ale pui	np. very	silty	bailer Found in
		W/ For	nation	sand e	tering	well so	reen	well 6 well
1230	+3.5	11.2	6.48	1.316	-38.6	2.48	3.91	Volumes removed.
								park -grey
								formation sand
								heavily present
								Luring developm
								High turbility.



Mineral Springs Road Former MGP site Well ID: MW-19												
Date 5/4/2023 Well Depth (ft bloc)												
Field Personnel J. MY900 Depth to Water (ft btoc) 6.99												
Method of Purging/ Sampling 10W FLOW SAMP/1N9 Casing type/dia. 2 in												
Well Volume (g)												
Time Total Volume (g) Temp (%) pH Cond (ps/cm) ORP (mV) D.O. (mg/L) Turbidity (NTU) Commenter												
1017	0.0	10.9	5.93	1.237	-3.0	6.42	49.0	bubbles	in			
1022	0.1	10.5	6.29	1.234	-31.4	1.11	38.8	tusing.	Poblem			
1027	0.25	10.5	6.35	1.232	-38.3	0.53	41.8	fixed				
1032	0.50	10.5	6.38	1.234	-41.6	0.34	15.4					
1037	1.0	10.5	6.41	1.231	-43.3	0.25	16.9					
1042	1.5	10.4	6.40	1.229	-43.7	0.21	17.9					
1044	1.75	10.3	6.40	1.229	-42.7	0.25	4.81	· · · · · · · · · · · · · · · · · · ·				
	2	(GINE		Ralls	201					
		20	mpled	0 103	9	y young	1					
					/	enore	4					
				-								
The lot of		all all and a second		Law you want to be a second to be a	a second second second				and the second second			

Appendix D

Laboratory Data Package (Level 2)



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Richard Frappa GEI Consultants, Inc. 100 Sylvan Parkway Suite 400 Amherst, New York 14228 Generated 5/18/2023 1:48:11 PM

JOB DESCRIPTION

GEI, Mineral Springs

JOB NUMBER

480-208518-1

Eurofins Buffalo 10 Hazelwood Drive Amherst NY 14228-2298




Eurofins Buffalo

Job Notes

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The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization

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Authorized for release by Rebecca Jones, Project Management Assistant I <u>Rebecca.Jones@et.eurofinsus.com</u> Designee for John Schove, Project Manager II <u>John.Schove@et.eurofinsus.com</u> (716)504-9838

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Qualifiers

Qualifiers		3
GC/MS VOA		
Qualifier	Qualifier Description	4
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.	5
GC/MS Sem	i VOA	
Qualifier	Qualifier Description	
*1	LCS/LCSD RPD exceeds control limits.	
В	Compound was found in the blank and sample.	
E	Result exceeded calibration range.	
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	8
S1-	Surrogate recovery exceeds control limits, low biased.	U
U	Indicates the analyte was analyzed for but not detected.	g
General Che	emistry	0
Qualifier	Qualifier Description	
^2	Calibration Blank (ICB and/or CCB) is outside acceptance limits.	
В	Compound was found in the blank and sample.	
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.	
Glossary		
Abbreviation	These commonly used abbreviations may or may not be present in this report.	13
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	
%R	Percent Recovery	

¤	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)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Definitions/Glossary

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

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TNTC	Too Numerous To Count

Job ID: 480-208518-1

Laboratory: Eurofins Buffalo

Narrative

Job Narrative 480-208518-1

Case Narrative

Comments

No additional comments.

Receipt

The samples were received on 5/3/2023 1:40 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 12.7° C.

GC/MS VOA

Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-07 BAILER (480-208518-1) and MW-19 BAILER (480-208518-2). 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 RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 480-668289 and analytical batch 480-668859 recovered outside control limits for the following analytes: Anthracene, Chrysene and Fluoranthene; MW-07 BAILER (480-208518-1) and MW-19 BAILER (480-208518-2).

Method 8270D_LL_PAH: The method blank for preparation batch 480-668289 and analytical batch 480-668859 contained Naphthalene above the reporting limit (RL). Associated samples were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank: MW-07 BAILER (480-208518-1) and MW-19 BAILER (480-208518-2).

Method 8270D_LL_PAH: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-07 BAILER (480-208518-1) and MW-19 BAILER (480-208518-2). Elevated reporting limits (RLs) are provided: MW-07 BAILER (480-208518-1) and MW-19 BAILER (480-208518-2).

Method 8270D_LL_PAH: The method blank for preparation batch 480-668289 and analytical batch 480-669100 contained Naphthalene above the reporting limit (RL). Associated samples were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank: MW-07 BAILER (480-208518-1) and MW-19 BAILER (480-208518-2).

Method 8270D_LL_PAH: The following samples required a dilution due to the abundance of target analytes: MW-07 BAILER (480-208518-1) and MW-19 BAILER (480-208518-2). 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 RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 480-668289 and analytical batch 480-669100 recovered outside control limits for the following analytes: Anthracene, Chrysene and Fluoranthene; MW-07 BAILER (480-208518-1) and MW-19 BAILER (480-208518-2)

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

General Chemistry

Methods 335.4, 9012B: The method blank (MB) and/or continuing calibration blank (CCB) for analytical batch 480-669722 contained Cyanide, Total above the reporting limit (RL). All reported samples associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed.MW-12 BAILER (480-208518-3) and MW-16 BAILER (480-208518-4)

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

Organic Prep

Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 480-668289.

Job ID: 480-208518-1 (Continued)

Laboratory: Eurofins Buffalo (Continued)

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

Client Sample ID: MW-07 BAILER

5

Lab Sample ID: 480-208518-1

Lab Sample ID: 480-208518-2

Lab Sample ID: 480-208518-3

Lab Sample ID: 480-208518-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1200		20	8.2	ug/L	20	_	8260C	Total/NA
Ethylbenzene	1100		20	15	ug/L	20		8260C	Total/NA
Toluene	16	J	20	10	ug/L	20		8260C	Total/NA
Xylenes, Total	430		40	13	ug/L	20		8260C	Total/NA
2-Methylnaphthalene	230	E	0.50	0.38	ug/L	1		8270D_LL_PAH	Total/NA
Acenaphthene	120	E	0.50	0.30	ug/L	1		8270D_LL_PAH	Total/NA
Acenaphthylene	3.5		0.50	0.34	ug/L	1		8270D_LL_PAH	Total/NA
Anthracene	6.2	*1	0.50	0.39	ug/L	1		8270D_LL_PAH	Total/NA
Fluoranthene	0.68	*1	0.50	0.36	ug/L	1		8270D_LL_PAH	Total/NA
Fluorene	46		0.50	0.37	ug/L	1		8270D_LL_PAH	Total/NA
Naphthalene	400	ΕB	0.50	0.42	ug/L	1		8270D_LL_PAH	Total/NA
Phenanthrene	36		0.50	0.38	ug/L	1		8270D_LL_PAH	Total/NA
Pyrene	0.90		0.50	0.36	ug/L	1		8270D_LL_PAH	Total/NA
2-Methylnaphthalene - DL	350		25	19	ug/L	50		8270D_LL_PAH	Total/NA
Acenaphthene - DL	160		25	15	ug/L	50		8270D_LL_PAH	Total/NA
Fluorene - DL	44		25	19	ug/L	50		8270D_LL_PAH	Total/NA
Naphthalene - DL	2900	В	25	21	ug/L	50		8270D_LL_PAH	Total/NA
Phenanthrene - DL	24	J	25	19	ug/L	50		8270D_LL_PAH	Total/NA

Client Sample ID: MW-19 BAILER

Dil Fac D Method Analyte **Result Qualifier** RL MDL Unit Prep Type 3200 8260C Benzene 50 21 ug/L 50 Total/NA Ethylbenzene 290 50 37 ug/L 50 8260C Total/NA Xylenes, Total 53 J 100 33 ug/L 50 8260C Total/NA 2-Methylnaphthalene 26 0.50 0.38 ug/L 1 8270D LL PAH Total/NA Acenaphthene 0.88 0.50 0.30 ug/L 1 8270D_LL_PAH Total/NA Naphthalene 260 E B 0.50 0.42 ug/L 8270D LL PAH Total/NA 1 2-Methylnaphthalene - DL 27 25 19 ug/L 50 8270D_LL_PAH Total/NA Naphthalene - DL 8270D LL PAH Total/NA 1300 B 25 21 ug/L 50

Client Sample ID: MW-12 BAILER

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyanide, Total	0.58	B ^2	0.020	0.0082	mg/L	2	_	9012B	Total/NA
Cyanide, Free	3.3	J	5.0	2.3	ug/L	1		9016	Total/NA

Client Sample ID: MW-16 BAILER

_									
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyanide, Total	2.3	B ^2	0.25	0.10	mg/L	25	_	9012B	Total/NA
Cyanide, Free	12.5		5.0	2.3	ug/L	1		9016	Total/NA

This Detection Summary does not include radiochemical test results.

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Client Sample ID: MW-07 BAILER Date Collected: 05/03/23 11:45 Date Received: 05/03/23 13:40

Lab Sample ID: 480-208518-1 Matrix: Water

5 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1200		20	8.2	ug/L			05/05/23 17:32	20
Ethylbenzene	1100		20	15	ug/L			05/05/23 17:32	20
Toluene	16	J	20	10	ug/L			05/05/23 17:32	20
Xylenes, Total	430		40	13	ug/L			05/05/23 17:32	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		77 - 120					05/05/23 17:32	20
4-Bromofluorobenzene (Surr)	100		73 - 120					05/05/23 17:32	20
Dibromofluoromethane (Surr)	105		75 - 123					05/05/23 17:32	20
Toluene-d8 (Surr)	103		80 - 120					05/05/23 17:32	20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	230	E	0.50	0.38	ug/L		05/05/23 07:32	05/11/23 01:52	1
Acenaphthene	120	E	0.50	0.30	ug/L		05/05/23 07:32	05/11/23 01:52	1
Acenaphthylene	3.5		0.50	0.34	ug/L		05/05/23 07:32	05/11/23 01:52	1
Anthracene	6.2	*1	0.50	0.39	ug/L		05/05/23 07:32	05/11/23 01:52	1
Benzo[a]anthracene	0.50	U	0.50	0.40	ug/L		05/05/23 07:32	05/11/23 01:52	1
Benzo[a]pyrene	0.50	U	0.50	0.33	ug/L		05/05/23 07:32	05/11/23 01:52	1
Benzo[b]fluoranthene	0.50	U	0.50	0.30	ug/L		05/05/23 07:32	05/11/23 01:52	1
Benzo[g,h,i]perylene	0.50	U	0.50	0.37	ug/L		05/05/23 07:32	05/11/23 01:52	1
Benzo[k]fluoranthene	0.50	U	0.50	0.085	ug/L		05/05/23 07:32	05/11/23 01:52	1
Chrysene	0.50	U *1	0.50	0.32	ug/L		05/05/23 07:32	05/11/23 01:52	1
Dibenz(a,h)anthracene	0.50	U	0.50	0.33	ug/L		05/05/23 07:32	05/11/23 01:52	1
Fluoranthene	0.68	*1	0.50	0.36	ug/L		05/05/23 07:32	05/11/23 01:52	1
Fluorene	46		0.50	0.37	ug/L		05/05/23 07:32	05/11/23 01:52	1
Indeno[1,2,3-cd]pyrene	0.50	U	0.50	0.44	ug/L		05/05/23 07:32	05/11/23 01:52	1
Naphthalene	400	EB	0.50	0.42	ug/L		05/05/23 07:32	05/11/23 01:52	1
Phenanthrene	36		0.50	0.38	ug/L		05/05/23 07:32	05/11/23 01:52	1
Pyrene	0.90		0.50	0.36	ug/L		05/05/23 07:32	05/11/23 01:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	86		48 - 120				05/05/23 07:32	05/11/23 01:52	1
Nitrobenzene-d5 (Surr)	75		46 - 120				05/05/23 07:32	05/11/23 01:52	1
p-Terphenyl-d14 (Surr)	42		24 - 136				05/05/23 07:32	05/11/23 01:52	1

Method: SW846 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	350		25	19	ug/L		05/05/23 07:32	05/11/23 14:35	50
Acenaphthene	160		25	15	ug/L		05/05/23 07:32	05/11/23 14:35	50
Acenaphthylene	25	U	25	17	ug/L		05/05/23 07:32	05/11/23 14:35	50
Anthracene	25	U *1	25	20	ug/L		05/05/23 07:32	05/11/23 14:35	50
Benzo[a]anthracene	25	U	25	20	ug/L		05/05/23 07:32	05/11/23 14:35	50
Benzo[a]pyrene	25	U	25	17	ug/L		05/05/23 07:32	05/11/23 14:35	50
Benzo[b]fluoranthene	25	U	25	15	ug/L		05/05/23 07:32	05/11/23 14:35	50
Benzo[g,h,i]perylene	25	U	25	19	ug/L		05/05/23 07:32	05/11/23 14:35	50
Benzo[k]fluoranthene	25	U	25	4.3	ug/L		05/05/23 07:32	05/11/23 14:35	50
Chrysene	25	U *1	25	16	ug/L		05/05/23 07:32	05/11/23 14:35	50
Dibenz(a,h)anthracene	25	U	25	17	ug/L		05/05/23 07:32	05/11/23 14:35	50
Fluoranthene	25	U *1	25	18	ug/L		05/05/23 07:32	05/11/23 14:35	50

Client Sample ID: MW-07 BAILER Date Collected: 05/03/23 11:45 Date Received: 05/03/23 13:40

Lab Sample ID: 480-208518-1

Matrix: Water

Job ID: 480-208518-1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	44		25	19	ug/L		05/05/23 07:32	05/11/23 14:35	50
Indeno[1,2,3-cd]pyrene	25	U	25	22	ug/L		05/05/23 07:32	05/11/23 14:35	50
Naphthalene	2900	В	25	21	ug/L		05/05/23 07:32	05/11/23 14:35	50
Phenanthrene	24	J	25	19	ug/L		05/05/23 07:32	05/11/23 14:35	50
Pyrene	25	U	25	18	ug/L		05/05/23 07:32	05/11/23 14:35	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	37	S1-	48 - 120				05/05/23 07:32	05/11/23 14:35	50
Nitrobenzene-d5 (Surr)	67		46 - 120				05/05/23 07:32	05/11/23 14:35	50
— · · · · · · · ·	07		24 126				05/05/02 07:20	05/11/02 11:25	50

RL

50

50

50

100

Limits

77 - 120

73 - 120

75 - 123

80 - 120

RL

0.50

0.50

0.50

0.50

0.50

0.50

0.50

0.50

0.50

0.50

0.50

0.50

0.50

0.50

0.50

0.50

0.50

MDL Unit

37 ug/L

26 ug/L

33 ug/L

MDL Unit

0.34 ug/L

0.39 ug/L

0.40 ug/L

0.33 ug/L

0.30 ug/L

0.37 ug/L

0.085 ug/L

0.32 ug/L

0.33 ug/L

0.36 ug/L

0.37 ug/L

0.44 ug/L

0.42 ug/L

0.38 ug/L

0.36 ug/L

0.38 ug/L

0.30 ug/L

21 ug/L D

D

Prepared

Prepared

Prepared

05/05/23 07:32

05/05/23 07:32

05/05/23 07

05/05/23 07

05/05/23 07

05/05/23 07

05/05/23 07

05/05/23 07

05/05/23 07 05/05/23 07

05/05/23 07

05/05/23 07

05/05/23 07

05/05/23 07

05/05/23 07

05/05/23 07:32 05/11/23 02:20

05/05/23 07:32 05/11/23 02:20

Analyte

Toluene

Surrogate

Analyte

Benzene

Ethylbenzene

Xylenes, Total

Toluene-d8 (Surr)

Acenaphthene

Acenaphthylene

Benzo[a]pyrene

Benzo[a]anthracene

Benzo[b]fluoranthene

Benzo[g,h,i]perylene

Benzo[k]fluoranthene

Dibenz(a,h)anthracene

Indeno[1,2,3-cd]pyrene

Anthracene

Chrysene

Fluorene

Pyrene

Fluoranthene

Naphthalene

Phenanthrene

2-Methylnaphthalene

1,2-Dichloroethane-d4 (Surr)

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

Client Sample ID: MW-19 BAILER Date Collected: 05/03/23 12:30 Date Received: 05/03/23 13:40

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Result Qualifier

3200

290

50 U

53 J

%Recovery Qualifier

99

98

98

100

26

0.50 U

260 E B

0.50 U*1

0.50 U*1

0.50 U*1

0.88

Method: SW846 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Result Qualifier

Lab Sample ID: 480-208518-2 Matrix: Water

Analyzed

05/05/23 17:55

05/05/23 17:55

05/05/23 17:55

05/05/23 17:55

Analyzed

05/05/23 17:55

05/05/23 17:55

05/05/23 17:55

05/05/23 17:55

Analyzed

05/11/23 02:20

05/11/23 02:20

6

Dil Fac

50

50

50

50

50

50

50

50

1

1

1

Dil Fac

Dil Fac

1	05/11/23 02:20	32
1	05/11/23 02:20	32
1	05/11/23 02:20	32
1	05/11/23 02:20	32
1	05/11/23 02:20	32
1	05/11/23 02:20	32
1	05/11/23 02:20	32
1	05/11/23 02:20	32
1	05/11/23 02:20	32
1	05/11/23 02:20	32
1	05/11/23 02:20	32
1	05/11/23 02:20	32
1	05/11/23 02.20	32

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	85		48 - 120	05/05/23 07:32	05/11/23 02:20	1
Nitrobenzene-d5 (Surr)	65		46 - 120	05/05/23 07:32	05/11/23 02:20	1
p-Terphenyl-d14 (Surr)	45		24 - 136	05/05/23 07:32	05/11/23 02:20	1

Method: SW846 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	27		25	19	ug/L		05/05/23 07:32	05/11/23 21:30	50
Acenaphthene	25	U	25	15	ug/L		05/05/23 07:32	05/11/23 21:30	50
Acenaphthylene	25	U	25	17	ug/L		05/05/23 07:32	05/11/23 21:30	50
Anthracene	25	U *1	25	20	ug/L		05/05/23 07:32	05/11/23 21:30	50
Benzo[a]anthracene	25	U	25	20	ug/L		05/05/23 07:32	05/11/23 21:30	50
Benzo[a]pyrene	25	U	25	17	ug/L		05/05/23 07:32	05/11/23 21:30	50
Benzo[b]fluoranthene	25	U	25	15	ug/L		05/05/23 07:32	05/11/23 21:30	50
Benzo[g,h,i]perylene	25	U	25	19	ug/L		05/05/23 07:32	05/11/23 21:30	50
Benzo[k]fluoranthene	25	U	25	4.3	ug/L		05/05/23 07:32	05/11/23 21:30	50
Chrysene	25	U *1	25	16	ug/L		05/05/23 07:32	05/11/23 21:30	50
Dibenz(a,h)anthracene	25	U	25	17	ug/L		05/05/23 07:32	05/11/23 21:30	50
Fluoranthene	25	U *1	25	18	ug/L		05/05/23 07:32	05/11/23 21:30	50

Client Sample ID: MW-19 BAILER Date Collected: 05/03/23 12:30 Date Received: 05/03/23 13:40

Lab Sample ID: 480-208518-2

Matrix: Water

Job ID: 480-208518-1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	25	U	25	19	ug/L		05/05/23 07:32	05/11/23 21:30	50
Indeno[1,2,3-cd]pyrene	25	U	25	22	ug/L		05/05/23 07:32	05/11/23 21:30	50
Naphthalene	1300	В	25	21	ug/L		05/05/23 07:32	05/11/23 21:30	50
Phenanthrene	25	U	25	19	ug/L		05/05/23 07:32	05/11/23 21:30	50
Pyrene	25	U	25	18	ug/L		05/05/23 07:32	05/11/23 21:30	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	35	S1-	48 - 120				05/05/23 07:32	05/11/23 21:30	50
Nitrobenzene-d5 (Surr)	60		46 - 120				05/05/23 07:32	05/11/23 21:30	50
p-Terphenyl-d14 (Surr)	45		24 - 136				05/05/23 07:32	05/11/23 21:30	50

Client Sample Results

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

Client Sample ID: MW-12 BAILER

Job ID: 480-208518-1

2

1

6

Lab Sample ID: 480-208518-3

Date Collected: 05/03/23 12:15 Matrix: Water Date Received: 05/03/23 13:40 **General Chemistry** Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Cyanide, Total (SW846 9012B) 0.58 B ^2 0.020 0.0082 mg/L 05/16/23 09:45 Cyanide, Free (SW846 9016) 5.0 2.3 ug/L 05/10/23 13:41 05/10/23 20:05 3.3 J

Client Sample Results

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

Date Collected: 05/03/23 11:15

Date Received: 05/03/23 13:40

Client Sample ID: MW-16 BAILER

Job ID: 480-208518-1

Lab Sample ID: 480-208518-4

Matrix: Water

General Chemistry										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	5
Cyanide, Total (SW846 9012B)	2.3	B ^2	0.25	0.10	mg/L			05/16/23 09:47	25	
Cyanide, Free (SW846 9016)	12.5		5.0	2.3	ug/L		05/10/23 13:41	05/10/23 20:05	1	6

Surrogate Summary

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

Prep Type: Total/NA	

			Pe	ercent Surro	ogate Recovery	(Acceptance)
		DCA	BFB	DBFM	TOL	
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(75-123)	(80-120)	
480-208518-1	MW-07 BAILER	104	100	105	103	
180-208518-2	MW-19 BAILER	99	98	98	100	
LCS 480-668363/6	Lab Control Sample	100	97	98	99	
MB 480-668363/9	Method Blank	100	100	98	100	
Surrogate Legend						
DCA = 1,2-Dichloroetha	ane-d4 (Surr)					
BFB = 4-Bromofluorobe	enzene (Surr)					
DBFM = Dibromofluoro	methane (Surr)					
TOL = Toluene-d8 (Sur	r)					

Matrix: Water

Matrix: Water					Prep Type: Total/NA	
			Pe	ercent Surrogate Recov	ery (Acceptance Limits)	
		FBP	NBZ	TPHd14		
Lab Sample ID	Client Sample ID	(48-120)	(46-120)	(24-136)		
480-208518-1	MW-07 BAILER	86	75	42		
480-208518-1 - DL	MW-07 BAILER	37 S1-	67	37		
480-208518-2	MW-19 BAILER	85	65	45		
480-208518-2 - DL	MW-19 BAILER	35 S1-	60	45		
LCS 480-668289/2-A	Lab Control Sample	101	90	88		
LCSD 480-668289/3-A	Lab Control Sample Dup	87	81	73		
MB 480-668289/1-A	Method Blank	85	70	69		

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)

NBZ = Nitrobenzene-d5 (Surr)

TPHd14 = p-Terphenyl-d14 (Surr)

Prep Type: Total/NA

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

Lab Sample ID: MB 480-668363/9 **Matrix: Water**

Analysis Batch: 668363

	MB	MB					
Analyte	Result	Qualifier	RL	MDL Unit	D Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.41 ug/L		05/05/23 15:22	1
Ethylbenzene	1.0	U	1.0	0.74 ug/L		05/05/23 15:22	1
Toluene	1.0	U	1.0	0.51 ug/L		05/05/23 15:22	1
Xylenes, Total	2.0	U	2.0	0.66 ug/L		05/05/23 15:22	1

	MB	МВ				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			77 - 120		05/05/23 15:22	
4-Bromofluorobenzene (Surr)	100		73 - 120		05/05/23 15:22	1
Dibromofluoromethane (Surr)	98		75 - 123		05/05/23 15:22	1
Toluene-d8 (Surr)	100		80 - 120		05/05/23 15:22	1

Lab Sample ID: LCS 480-668363/6 Matrix: Water

Analysis Batch: 668363

	Spike	Spike LCS LC			LCS			
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene		26.1		ug/L		104	71 - 124	
Ethylbenzene	25.0	26.6		ug/L		106	77 - 123	
Toluene	25.0	26.4		ug/L		106	80 - 122	
Xvlenes Total	50.0	52.2		ua/l		104	76 - 122	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		77 - 120
4-Bromofluorobenzene (Surr)	97		73 - 120
Dibromofluoromethane (Surr)	98		75 - 123
Toluene-d8 (Surr)	99		80 - 120

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

Lab Sample ID: MB 480-668289/1-A Matrix: Water Analysis Batch: 668859

MB	MB							
Analyte Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene 0.50	U	0.50	0.38	ug/L		05/05/23 07:32	05/10/23 22:11	1
Acenaphthene 0.50	U	0.50	0.30	ug/L		05/05/23 07:32	05/10/23 22:11	1
Acenaphthylene 0.50	U	0.50	0.34	ug/L		05/05/23 07:32	05/10/23 22:11	1
Anthracene 0.50	U	0.50	0.39	ug/L		05/05/23 07:32	05/10/23 22:11	1
Benzo[a]anthracene 0.50	U	0.50	0.40	ug/L		05/05/23 07:32	05/10/23 22:11	1
Benzo[a]pyrene 0.50	U	0.50	0.33	ug/L		05/05/23 07:32	05/10/23 22:11	1
Benzo[b]fluoranthene 0.50	U	0.50	0.30	ug/L		05/05/23 07:32	05/10/23 22:11	1
Benzo[g,h,i]perylene 0.50	U	0.50	0.37	ug/L		05/05/23 07:32	05/10/23 22:11	1
Benzo[k]fluoranthene 0.50	U	0.50	0.085	ug/L		05/05/23 07:32	05/10/23 22:11	1
Chrysene 0.50	U	0.50	0.32	ug/L		05/05/23 07:32	05/10/23 22:11	1
Dibenz(a,h)anthracene 0.50	U	0.50	0.33	ug/L		05/05/23 07:32	05/10/23 22:11	1
Fluoranthene 0.50	U	0.50	0.36	ug/L		05/05/23 07:32	05/10/23 22:11	1
Fluorene 0.50	U	0.50	0.37	ug/L		05/05/23 07:32	05/10/23 22:11	1
Indeno[1,2,3-cd]pyrene 0.50	U	0.50	0.44	ug/L		05/05/23 07:32	05/10/23 22:11	1

Eurofins Buffalo

Client Sample ID: Method Blank

Prep Type: Total/NA

Client Sample ID: Lab Control Sample

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 668289

QC Sample Results

Lab Sample ID: MB 480-60 Matrix: Water Analysis Batch: 668859	68289/1-A							Clie	ent Samp	le ID: Method Prep Type: To Prep Batch:	d Blank otal/NA 668289
	MB	MB									
Analyte	Result	Qualifier		M		nit	D	P	Prepared	Analyzed	Dil Fac
Naphthalene	0.524		0.50	0	.42 ug	/L		05/0	05/23 07:32	05/10/23 22:11	
Phenanthrene -	0.50	U	0.50	0	.38 ug	I/L		05/0	05/23 07:32	05/10/23 22:11	
Pyrene	0.50	U	0.50	0	.36 ug	ı/L		05/0	05/23 07:32	05/10/23 22:11	
	MB	MB									
Surrogate	%Recovery	Qualifier	Limits					P	Prepared	Analyzed	Dil Fa
2-Fluorobiphenyl (Surr)	85		48 - 120					05/0	05/23 07:32	05/10/23 22:11	
Nitrobenzene-d5 (Surr)	70		46 - 120					05/0	05/23 07:32	05/10/23 22:11	
p-Terphenyl-d14 (Surr)	69		24 - 136					05/0	05/23 07:32	05/10/23 22:11	
Lab Sample ID: LCS 480-6 Matrix: Water Analysis Batch: 668859	68289/2-A						Clien	t Sa	mple ID:	Lab Control S Prep Type: T Prep Batch:	Sample otal/N/ 66828
			Spike	LCS	LCS					%Rec	
Analyte			Added	Result	Qualifi	er U	nit	_ <u>D</u>	%Rec	Limits	
2-Methylnaphthalene			32.0	32.4		u	g/L		101	48 - 120	
Acenaphthene			32.0	32.1		uę	g/L		100	60 - 120	
Acenaphthylene			32.0	36.7		uę	g/L		115	63 - 120	
Anthracene			32.0	35.7		u	g/L		111	69 - 131	
Benzo[a]anthracene			32.0	32.4		u	g/L		101	62 - 142	
Benzo[a]pyrene			32.0	31.1		uç	g/L		97	46 - 156	
Benzo[b]fluoranthene			32.0	31.4		u	g/L		98	50 - 149	
Benzo[g,h,i]perylene			32.0	29.7		uę	g/L		93	34 - 189	
Benzo[k]fluoranthene			32.0	31.2		uç	g/L		98	47 _ 147	
Chrysene			32.0	32.8		uę	g/L		102	69 - 140	
Dibenz(a,h)anthracene			32.0	29.9		u	g/L		93	35 - 176	
Fluoranthene			32.0	35.1		uį	g/L		110	67 - 133	
Fluorene			32.0	33.8		uę	g/L		105	66 - 129	
ndeno[1,2,3-cd]pyrene			32.0	30.1		u	g/L		94	57 - 161	
Naphthalene			32.0	30.6		uę	g/L		96	48 - 120	
Phenanthrene			32.0	34.4		uę	g/L		107	67 - 130	
Pyrene			32.0	34.7		uį	g/L		108	58 - 136	
	LCS LCS	6									
. .											

203	203	
%Recovery	Qualifier	Limits
101		48 - 120
90		46 - 120
88		24 - 136
	203 <u>%Recovery</u> 101 90 88	<u>%Recovery</u> Qualifier 101 90 88

Lab Sample ID: LCSD 480-668289/3-A Matrix: Water Analysis Batch: 668859

Analysis Batch: 668859							Prep Ba	itch: 66	58289
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
2-Methylnaphthalene	32.0	28.6		ug/L		89	48 - 120	12	21
Acenaphthene	32.0	27.2		ug/L		85	60 - 120	16	24
Acenaphthylene	32.0	31.3		ug/L		98	63 - 120	16	18
Anthracene	32.0	30.4	*1	ug/L		95	69 - 131	16	15
Benzo[a]anthracene	32.0	27.8		ug/L		87	62 - 142	15	15
Benzo[a]pyrene	32.0	27.0		ug/L		84	46 - 156	14	15

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Prep Type: Total/NA

Client Sample ID: Lab Control Sample Dup

8 9

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

Lab Sample ID: LCSD 4 Matrix: Water Analysis Batch: 668859	80-668289/3-A					C	lient Sa	amp	ole	ID: Lab	Control S Prep Typ Prep Ba	Sampl be: To tch: 6	e Dup tal/NA 68289
· ····· , ··· · · · · · · · · · · · · · · · · ·			Spike	LCSD	LCSD)					%Rec		RPD
Analyte			Added	Result	Qualit	fier	Unit		D	%Rec	Limits	RPD	Limit
Benzo[b]fluoranthene			32.0	28.2			ug/L			88	50 - 149	11	15
Benzo[g,h,i]perylene			32.0	25.5			ug/L			80	34 - 189	15	15
Benzo[k]fluoranthene			32.0	26.2			ug/L			82	47 - 147	17	22
Chrysene			32.0	27.5	*1		ug/L			86	69 - 140	17	15
Dibenz(a,h)anthracene			32.0	25.9			ug/L			81	35 - 176	14	15
Fluoranthene			32.0	29.8	*1		ug/L			93	67 - 133	17	15
Fluorene			32.0	28.9			ug/L			90	66 - 129	15	15
Indeno[1,2,3-cd]pyrene			32.0	26.0			ug/L			81	57 - 161	15	15
Naphthalene			32.0	27.8			ug/L			87	48 - 120	10	29
Phenanthrene			32.0	30.4			ug/L			95	67 - 130	12	15
Pyrene			32.0	30.2			ug/L			94	58 - 136	14	25
•	LCSD LCS	SD											
Surrogate	<u>%Recovery</u> Qua	alifier	Limits										
2-Fluorobiphenyl (Surr)	87		48 - 120										
Nitrobenzene-d5 (Surr)	81		46 - 120										
p-Terphenyl-d14 (Surr)	73		24 - 136										
Analysis Batch: 669722	MB	МВ											
Analyte	Result	Qualifier	RL	I	MDL U	Jnit		D	Pr	epared	Analyz	ed	Dil Fac
Cyanide, Total	0.0115		0.010	0.0	0041 n	ng/L					05/16/23 2	4:27	1
Lab Sample ID: MB 480 Matrix: Water Analysis Batch: 669722	-669722/21							C	lie	nt Sam	ple ID: Me Prep Typ	ethod be: To	Blank tal/NA
• • •	MB	MB						_	_				
Analyte	Result	Qualifier				Jnit		D _	Pr	epared		ed	DIIFac
Cyanide, Iotal	0.00860	J	0.010	0.0	JU41 n	ng/L					05/16/23 ()9:29	1
Lab Sample ID: MB 480 Matrix: Water	-669722/49							C	lie	nt Sam	ple ID: Me Prep Typ	ethod be: To	Blank tal/NA
Analysis Ratch: 660722													
Analysis Balch. 009722													
Analysis Batch. 005722	МВ	МВ											
Analyte	MB Result	MB Qualifier	RL			Jnit		<u>D</u>	Pr	epared	Analyz	ed	Dil Fac
Analyte Cyanide, Total	MB 	MB Qualifier J		0.0	MDL U	Jnit ng/L		<u>D</u>	Pr	epared	Analyz	ed 10:41	Dil Fac 1
Analyte Cyanide, Total Lab Sample ID: LCS 480 Matrix: Water Analysis Batch: 669722	MB Result 0.00960 0-669722/134	MB Qualifier J		0.0	MDL U	<mark>Jnit</mark> ng/L	Clie	D	Pr San	epared nple ID	Analyz 05/16/23 * : Lab Con Prep Typ	ed 10:41 trol Sa be: Tot	Dil Fac 1 ample tal/NA
Analyte Cyanide, Total Lab Sample ID: LCS 480 Matrix: Water Analysis Batch: 669722	MB <u>Result</u> 0.00960 0-669722/134	MB Qualifier J		0.0	MDL U	Jnit ng/L	Clie	<u>D</u>	Pr San	epared nple ID	Analyz 05/16/23 : Lab Con Prep Typ %Rec	ed 10:41 trol Sa be: Tot	Dil Fac 1 ample tal/NA
Analyte Cyanide, Total Lab Sample ID: LCS 480 Matrix: Water Analysis Batch: 669722	MB <u>Result</u> 0.00960 0-669722/134	MB Qualifier J		LCS Result	MDL L DO41 n	Jnit ng/L	Clie	D	Pr San	epared nple ID %Rec	Analyz 05/16/23 : Lab Con Prep Typ %Rec Limits	ed 10:41 trol Sa be: To	Dil Fac 1 ample tal/NA

Eurofins Buffalo

mg/L

Job ID: 480-208518-1

Method: 9012B - Cyanide, Total and/or Amenable (Continued)

Lab Sample ID: LCS 480-669722/ Matrix: Water Analysis Batch: 669722	23					Clier	nt Sai	mple ID:	Lab Contro Prep Type:	l Sample Total/NA
Analysis Datch. 003722			Snike	1.0	SICS				%Rec	
Analyte			babbA	Resu	t Qualifier	Unit	П	%Rec	Limits	
Cyanide, Total			0.250	0.25		mg/L		100	90 - 110	
Lab Sample ID: LCS 480-669722/	50					Clier	nt Sai	mple ID:	Lab Contro	I Sample
Matrix: Water									Prep Type:	Total/NA
Analysis Batch: 669722										
-			Spike	LC	S LCS				%Rec	
Analyte			Added	Resu	t Qualifier	Unit	D	%Rec	Limits	
Cyanide, Total			0.250	0.24	5	mg/L		99	90 - 110	
Method: 9016 - Cyanide, Free	е									
Lab Sample ID: MB 460-908261/1 Matrix: Water Analysis Batch: 908379	-А МВ	МВ					Clie	ent Samp	ole ID: Methe Prep Type: Prep Batch	od Blank Total/NA 1: 908261
Analyte	Result	Qualifier		RL	MDL Unit	C) Р	repared	Analyzed	Dil Fac
Cyanide, Free	5.0	U		5.0	2.3 ug/L		05/1	0/23 13:41	05/10/23 20:0	5 1
Lab Sample ID: LCS 460-908261/	2-A					Clier	nt Sa	mple ID:	Lab Contro	I Sample
Matrix: Water									Prep Type:	Total/NA
Analysis Batch: 908379									Prep Batch	n: 908261
			Spike	LC	S LCS				%Rec	
Analyte			Added	Resu	t Qualifier	Unit	D	%Rec	Limits	
Cyanide, Free			50.0	50.7	1	ug/L		101	56 - 120	
Lab Sample ID: DLCK 460-90837 Matrix: Water	9/10					Clier	nt Sa	mple ID:	Lab Contro Prep Type:	l Sample Total/NA
Analysis Dalen. 3003/3			Spike						% Boo	
Analyto				Posul	t Qualifiar	Unit	Р	%Pac	/onec	
Cvanide Free			2 00	5				103	36 171	
Oyanido, 1100			2.00	5.		uy/L		105	00-1/1	

QC Association Summary

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

GC/	MS	VO	Α

Analysis Batch: 668363

Lab Sample ID 480-208518-1	Client Sample ID MW-07 BAILER	- Prep Type Total/NA	Matrix Water	Method Prep Batch 8260C
480-208518-2	MW-19 BAILER	Total/NA	Water	8260C
MB 480-668363/9	Method Blank	Total/NA	Water	8260C
LCS 480-668363/6	Lab Control Sample	Total/NA	Water	8260C

GC/MS Semi VOA

Prep Batch: 668289

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-208518-1 - DL	MW-07 BAILER	Total/NA	Water	3510C	
480-208518-1	MW-07 BAILER	Total/NA	Water	3510C	
480-208518-2 - DL	MW-19 BAILER	Total/NA	Water	3510C	
480-208518-2	MW-19 BAILER	Total/NA	Water	3510C	
MB 480-668289/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-668289/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 480-668289/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 668859

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-208518-1	MW-07 BAILER	Total/NA	Water	8270D_LL_PAH	668289
480-208518-2	MW-19 BAILER	Total/NA	Water	8270D_LL_PAH	668289
MB 480-668289/1-A	Method Blank	Total/NA	Water	8270D_LL_PAH	668289
LCS 480-668289/2-A	Lab Control Sample	Total/NA	Water	8270D_LL_PAH	668289
LCSD 480-668289/3-A	Lab Control Sample Dup	Total/NA	Water	8270D_LL_PAH	668289
_ Analvsis Batch: 6691	00				

Lab Sample ID	Client Sample ID	Prep Type	Matrix	<u>Method</u>	Prep Batch
480-208518-1 - DL	MW-07 BAILER	Total/NA	Water	8270D_LL_PAH	668289
480-208518-2 - DL	MW-19 BAILER	Total/NA	Water	8270D_LL_PAH	668289

General Chemistry

Analysis Batch: 669722

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
480-208518-3	MW-12 BAILER	Total/NA	Water	9012B	
480-208518-4	MW-16 BAILER	Total/NA	Water	9012B	
MB 480-669722/133	Method Blank	Total/NA	Water	9012B	
MB 480-669722/21	Method Blank	Total/NA	Water	9012B	
MB 480-669722/49	Method Blank	Total/NA	Water	9012B	
LCS 480-669722/134	Lab Control Sample	Total/NA	Water	9012B	
LCS 480-669722/23	Lab Control Sample	Total/NA	Water	9012B	
LCS 480-669722/50	Lab Control Sample	Total/NA	Water	9012B	

Prep Batch: 908261

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-208518-3	MW-12 BAILER	Total/NA	Water	9016	
480-208518-4	MW-16 BAILER	Total/NA	Water	9016	
MB 460-908261/1-A	Method Blank	Total/NA	Water	9016	
LCS 460-908261/2-A	Lab Control Sample	Total/NA	Water	9016	

QC Association Summary

Client: GEI Consultants, Inc. Project/Site: GEI, Mineral Springs Job ID: 480-208518-1

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General Chemistry

Analysis Batch: 908379

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-208518-3	MW-12 BAILER	Total/NA	Water	9016	908261
480-208518-4	MW-16 BAILER	Total/NA	Water	9016	908261
MB 460-908261/1-A	Method Blank	Total/NA	Water	9016	908261
DLCK 460-908379/10	Lab Control Sample	Total/NA	Water	9016	
LCS 460-908261/2-A	Lab Control Sample	Total/NA	Water	9016	908261

Client Sample ID: MW-07 BAILER **Date Collected: Date Received:**

Lab Sample	ID:	480)-2()851	8-	1

Lab Sample ID: 480-208518-3

Lab Sample ID: 480-208518-4

Matrix: Water

Matrix: Water

Date Collecte Date Receive	ed: 05/03/23 1 d: 05/03/23 1	1:45 3:40							Matrix: Water
<u></u>	Batch	Batch		Dilution	Batch			Prepared	
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed	
Total/NA	Analysis	8260C		20	668363	ATG	EET BUF	05/05/23 17:32	
Total/NA	Prep	3510C			668289	SMP	EET BUF	05/05/23 07:32	
Total/NA	Analysis	8270D_LL_PAH		1	668859	JMM	EET BUF	05/11/23 01:52	
Total/NA	Prep	3510C	DL		668289	SMP	EET BUF	05/05/23 07:32	
Total/NA	Analysis	8270D_LL_PAH	DL	50	669100	JMM	EET BUF	05/11/23 14:35	
Client Sam	ple ID: MW	-19 BAILER					Lab	Sample ID: 4	480-208518-2
Date Collecte	d: 05/03/23 1	2:30							Matrix: Water
Date Receive	d: 05/03/23 1	3:40							
	Batch	Batch		Dilution	Batch			Prepared	
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed	

Prep Туре	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260C		50	668363	ATG	EET BUF	05/05/23 17:55
Total/NA	Prep	3510C			668289	SMP	EET BUF	05/05/23 07:32
Total/NA	Analysis	8270D_LL_PAH		1	668859	JMM	EET BUF	05/11/23 02:20
Total/NA	Prep	3510C	DL		668289	SMP	EET BUF	05/05/23 07:32
Total/NA	Analysis	8270D_LL_PAH	DL	50	669100	JMM	EET BUF	05/11/23 21:30

Client Sample ID: MW-12 BAILER Date Collected: 05/03/23 12:15 Date Received: 05/03/23 13:40

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	9012B		2	669722	CLT	EET BUF	05/16/23 09:45
Total/NA	Prep	9016			908261	IAA	EET EDI	05/10/23 13:41
Total/NA	Analysis	9016		1	908379	VBG	EET EDI	05/10/23 20:05

Client Sample ID: MW-16 BAILER Date Collected: 05/03/23 11:15 Date Received: 05/03/23 13:40

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	9012B		25	669722	CLT	EET BUF	05/16/23 09:47
Total/NA	Prep	9016			908261	IAA	EET EDI	05/10/23 13:41
Total/NA	Analysis	9016		1	908379	VBG	EET EDI	05/10/23 20:05

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

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

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Laboratory: Eurofins Buffalo

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-24

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-0818	01-30-24
DE Haz. Subst. Cleanup Act (HSCA)	State	N/A	01-01-24
Georgia	State	12028 (NJ)	06-30-23
Massachusetts	State	M-NJ312	06-30-23
New Jersey	NELAP	12028	06-30-23
New York	NELAP	11452	04-01-24
Pennsylvania	NELAP	68-00522	03-01-24
Rhode Island	State	LAO00376	12-30-23
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	EET BUF
8270D_LL_PAH	Semivolatile Organic Compounds (GC/MS) Low level PAH	SW846	EET BUF
9012B	Cyanide, Total and/or Amenable	SW846	EET BUF
9016	Cyanide, Free	SW846	EET EDI
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET BUF
5030C	Purge and Trap	SW846	EET BUF
9016	Cyanide, Preparation	SW846	EET EDI

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Sample Summary

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

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-208518-1	MW-07 BAILER	Water	05/03/23 11:45	05/03/23 13:40
480-208518-2	MW-19 BAILER	Water	05/03/23 12:30	05/03/23 13:40
480-208518-3	MW-12 BAILER	Water	05/03/23 12:15	05/03/23 13:40
480-208518-4	MW-16 BAILER	Water	05/03/23 11:15	05/03/23 13:40

13 14

	Chain of C	ustody Record			👶 eurofins
Client Information	Sampler M. Graning	Lab PM Schove, John R		Carrier Tracking No(s)	COC No 480.1846.48 30071 1
Client Contact Brad Walker	Phone 716 - 572 - 4367	E-Mail John Schove@et eurof	insus com	State of Origin	Page Daon 1 of 1
Company National Fuel Gas Supply Corporation	PWSID		Analveis Ro	duested	Job #
Address 6363 Main Street	Due Date Requested:				Preservation Codes:
Gity Williamsville	TAT Requested (days):				A HCL M Hexane B NaOH N None
State Zp NY, 14221-5887	Compliance Project: A Yes A No				C - Zn Acetate C - Asnaduz D - Nitric Acid P - Na204S F - NaHSOA Q - Na2SO3
Phone 716-857-7247(Tel)	Po# Purchase Order not required	(F - MeOH R - Na2S203 G - Amchlor S - H2SO4 T - T - T - T - T - T - T - T - T - T -
Email walkerb@naffuel com	#OM	10) 01 //0			H - Ascorbic Acid U - 1-1-5" - Undecanyorate 1 - Ice V - Acetone V - MCAA
Project Name GEI, Mineral Springs	Project # 48008324	8270 9 (Yes			K - EDTA W - PH 4.5 FE L - EDA Y - Trizma
Site New York	SSOW#	Sample PPH - HA9 - HA9 -	Total		c Other:
Sample Identification	Type Type Sample (C=cor G=cor G=cor	000 010 010 010 000 000 000 000	7,95105 - Gyanide, 1 91128 - Gyanide,		o tedmuvi leto
	Pres	ervation Code: X N A B	6 m		F Special Instructions/Note:
MW-07 - 100! 746	5/3/23 1145 6	Water X X			
10-10 - 100, 100	1 1230	water XX			
MW-12 - Lailyr	(215)	Water	×××		
MW-16 - Lailty	1/12	Water	X		
					Approx a
	- A				
Possible Hazard Identification					
Knon-Hazard Elammable Skin Imitant	Poison B Unknown Radiolo	Sample Dispo	sal (A fee may be To Client	assessed if samples are ret	tained longer than 1 month)
Deliverable Requested: I, II, III, IV, Other (specify)		Special Instruc	ctions/QC Requireme	ents	Archive For Months
Empty Kit Relinquished by:	Date:	Time:		Method of Shipment	
Reinduished by TJUMU BLAD	Date/Time Date/Time 134) Company Received by		Date/Time	Сотрапу
Pointernethod by	Date/Time.	Company Received by		Bate/Time	Сомралу
Created of Castellines D. 4 - 5	Date/Time	Company Received		Date/Time	3 1341) Company AMS
Custody Seals Intact: Custody Seal No.		Cooler Temp	ature (s) °C and Other R	emarks 1717	1-1(1-)
				-	Ver 06/08/2021

Salar ----

ofins Buffalo	zelwood Drive
Eurofin	10 Hazelwo



10 Hazelwood Drive Amherst. NY 14228-2298	0	hain o	of Cus	tody F	ecord		ŝ			🔅 euro	ofins	
Phone: 716-691-2600 Fax: 716-691-7991								콁				Environment Testing
Client Information (Sub Contract Lab)	Sampler:			Lab I Sch	M: ove, John R		0	arrier Tracking I	Vo(s):	COC No: 480-8037	75.1	
Client Contact: Shipping/Receiving	Phone:			Чс Чс	ii: Schove@et euro	ofine is com	is z	ate of Origin:		Page:		
Company: Eurofins Environment Testing Northeast,					Accreditations Requi	ired (See note):				Job #:		
Address: 777 New Durham Road.	Due Date Requester	÷				And				Preservat	518-1 tion Codes:	
city. Edison	TAT Requested (da)	/s):					nhay sis		F	A - HCL B - NaOH	ΣZ	- Hexane - None
State. Zip. NJ, 08817										C - Zn Ace D - Nitric A F - NaHSC	etate Acid Q	- AsNaO2 - Na2O4S - Na2SO3
Phone: 732-549-3900(Tel) 732-549-3679(Fax)	PO#						-			F - MeOH G - Amchlo		- Na2S203 - H2SO4 TSD Dodoobidado
Email:	:# OM				o) o)					H - Ascorb I - Ice	bic Acid U	- For Douecanydrate - Acetone - MCAA
Project Name: GEI, Mineral Springs	Project #: 48008324				8 OF N 8 OF N 9, Free					K - EDTA L - EDA	≤ ≻ ► ₽	/ - pH 4-5 - Trizma other (enociety
Site: Mineral Springs	SSOW#:				ample 5D (Ye binsv0					t cont	1	(finade) iaino
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (w=water. S=solid, O=waste/oil. BT=Tissue, A=Air	2 bertered 5 2 M/2 M mother 2 Pertered 2 Procession 2 Pro					Total Number o	ecial Instr	urctions/Note-
	X	X	Preserva	tion Code:	XX			1911 A. 1911				actions/hole.
MW-12 BAILER (480-208518-3)	5/3/23	12:15 Eastern		Water	×					-		
MW-16 BAILER (480-208518-4)	5/3/23	11:15 Eactorn		Water	×					-		
										3 655		
Note: Since laboratory accreditations are subject to change. Eurofins Envirt does not currently maintain accreditation in the State of Origin listed above status should be brought to Eurofins Environment Testing Northeast, LLC at	onment Testing Northeast, LL for analysis/tests/matrix bein titention immediately. If all re	C places the g analyzed, th quested accre	ownership of n e samples mu editations are o	nethod, analyte st be shipped t urrent to date,	& accreditation comp ack to the Eurofins Er return the signed Cha	liance upon our nvironment Testi in of Custody att	subcontract lat ng Northeast, L esting to said o	oratories. This LC laboratory o ompliance to E	sample shiprr r other instruc urofins Enviro	ent is forwarded un tions will be provide ment Testing North	ider chain-of- ed. Any chanç heast, LLC.	custody. If the laboratory ges to accreditation
Possible Hazard Identification					Sample Disp	osal (A fee	may be ass	essed if sa	mples are	etained longer	r than 1 m	onth)
Unconfirmed					Return	To Client	Dis	posal By Lai		Archive For		Months
Veriver a ure requested: 1, 11, 11, 1V, Other (specify)	Primary Delivera	ble Rank: 2			Special Instru	uctions/QC R	equirements					
Empty Kit Relinquished by:		Date:		-	Time:			Method of S	Shipment:	Led a		
Keinquished by Belinguished hi:	Date/Time:	s 18	2	Company	Beceived by	x heer	35	,	Date/Time:	22 60		ompany
	Date/Time:			Company	Received by	×.			Date/Time:	P	0	ompany
Relinquished by:	Date/Time:			Company	Received by	×			Date/Time:		Ö	ompany
Custody Seals Intact: Custody Seal No.: 2_O·57 C	9263			12	Cooler Tem	iperature(s) °C a	nd Other Rema	rks:				
			1.	7210	1 2.0	2 12	10				>	er: 06/08/2021
					14 14	12	.1	9 1(8		5	
					4 5	2 3						

Client: GEI Consultants, Inc.

Login Number: 208518 List Number: 1 Creator: 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	
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	GEI
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	

Job Number: 480-208518-1

List Source: Eurofins Buffalo

Client: GEI Consultants, Inc.

Login Number: 208518 List Number: 2 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	
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	
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	

List Source: Eurofins Edison

List Creation: 05/05/23 12:42 PM



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Richard Frappa GEI Consultants, Inc. 100 Sylvan Parkway Suite 400 Amherst, New York 14228 Generated 6/1/2023 7:38:30 PM

JOB DESCRIPTION

Semi Annual SDG NUMBER 480-208476-1 Semi Annual Sampling (April)

JOB NUMBER

480-208476-1

Eurofins Buffalo 10 Hazelwood Drive Amherst NY 14228-2298



Eurofins Buffalo

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization

Generated 6/1/2023 7:38:30 PM

Authorized for release by Rebecca Jones, Project Management Assistant I <u>Rebecca.Jones@et.eurofinsus.com</u> Designee for John Schove, Project Manager II John.Schove@et.eurofinsus.com (716)504-9838

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Qualifiers

Qualifiers		3
GC/MS VOA	λ	
Qualifier	Qualifier Description	
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.	5
GC/MS Sem	ii VOA	
Qualifier	Qualifier Description	
*1	LCS/LCSD RPD exceeds control limits.	
В	Compound was found in the blank and sample.	
Н	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.	
S1-	Surrogate recovery exceeds control limits, low biased.	8
U	Indicates the analyte was analyzed for but not detected.	U
General Che	emistry	9
Qualifier	Qualifier Description	
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.	10
^2	Calibration Blank (ICB and/or CCB) is outside acceptance limits.	
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. This does not meet regulatory requirements.	
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.	13
Glossary		
Abbreviation	These commonly used abbreviations may or may not be present in this report.	14
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	

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)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points

Definitions/Glossary

Client: GEI Consultants, Inc. Project/Site: Semi Annual Job ID: 480-208476-1 SDG: 480-208476-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 480-208476-1

Laboratory: Eurofins Buffalo

Narrative

Job Narrative 480-208476-1

Case Narrative

Comments

No additional comments.

Receipt

The samples were received on 5/2/2023 4:11 PM, 5/3/2023 1:40 PM and 5/4/2023 11:50 AM. 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, 4.8° C and 5.3° C.

GC/MS VOA

Method 8260C: The following volatiles sample was diluted due to foaming at the time of purging during the original sample analysis: MW-11A (480-208476-7). 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 (480-208520-3). Elevated reporting limits (RLs) are provided.

Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-07 (480-208567-1) and MW-19 (480-208567-2). 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-07 (480-208567-1) and MW-19 (480-208567-2). Elevated reporting limits (RLs) are provided.

Method 8270D_LL_PAH: The following sample was diluted due to color, appearance, and viscosity: MW-17 (480-208520-3). Elevated reporting limits (RL) are provided.

Method 8270D_LL_PAH: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 480-668289 and analytical batch 480-668859 recovered outside control limits for the following analytes: Anthracene, Chrysene and Fluoranthene; MW-10 (480-208476-1), MW-23 (480-208476-3), MW-11A (480-208476-7), Duplicate (480-208476-8), EB (480-208476-9), SW-01 (480-208520-1), SW-02 (480-208520-2), MW-17 (480-208520-3), MW-13 (480-208520-4), MW-07 (480-208567-1) and MW-19 (480-208567-2).

Method 8270D_LL_PAH: The following sample was diluted due to the abundance of target analytes: MW-19 (480-208567-2). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

Method 8270D_LL_PAH: The following sample required a dilution due to the abundance of target analytes: MW-07 (480-208567-1). 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 method blank for preparation batch 480-668289 contained Naphthalene above the reporting limit (RL). None of the samples associated with this method blank contained the target compound above the RL; therefore, re-extraction and/or re-analysis of samples were not performed: MW-23 (480-208476-3), Duplicate (480-208476-8), EB (480-208476-9) and MW-17 (480-208520-3).

Method 8270D_LL_PAH: The method blank for preparation batch 480-668289 and analytical batch 480-668859 contained Naphthalene above the reporting limit (RL). Associated samples were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank: MW-07 (480-208567-1) and MW-19 (480-208567-2).

Method 8270D_LL_PAH: The method blank for preparation batch 480-668289 and analytical batch 480-668859 had recoveries above the reporting limit (RL) for Napthalene, with detects in the associated samples. The associated sample(s) was re-prepared and/or re-analyzed outside holding time in preparation batch 480-669345 and analytical batch 480-669481 and Napthalene recovery was below

Job ID: 480-208476-1 (Continued)

Laboratory: Eurofins Buffalo (Continued)

the RL. Both sets of data have been reported: MW-10 (480-208476-1), MW-11A (480-208476-7), SW-01 (480-208520-1), SW-02 (480-208520-2) and MW-13 (480-208520-4).

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

General Chemistry

Methods 335.4, 9012B: The initial calibration blank (ICB), method blank (MB) and continuing calibration blank (CCB) for analytical batch 480-669455 contained Cyanide, Total above the reporting limit (RL). All reported samples associated with these were ND for this analyte ; therefore, re-analysis of samples was not performed.EB (480-208476-9)

Method 9012B: The continuing calibration blank (CCB) for analytical batch 480-669584 contained Cyanide above the reporting limit (RL). All reported samples associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed: MW-14 (480-208476-2), MW-23 (480-208476-3), MW-20 (480-208476-4), MW-21 (480-208476-5), MW-22 (480-208476-6), MW-11A (480-208476-7) and Duplicate (480-208476-8).

Methods 335.4, 9012B: The method blank (MB) and/or continuing calibration blank (CCB) for analytical batch 480-669584 contained Cyanide, Total above the reporting limit (RL). All reported samples associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed.MW-14 (480-208476-2), MW-23 (480-208476-3), MW-20 (480-208476-4), MW-21 (480-208476-5), MW-22 (480-208476-6), MW-11A (480-208476-7), Duplicate (480-208476-8), SW-01 (480-208520-1), SW-02 (480-208520-2) and MW-13 (480-208520-4)

Method 9012B: Reanalysis of the following samples were performed outside of the analytical holding time due to sample requiring a dilution to bring within calibration range : MW-12 (480-208567-3) and MW-16 (480-208567-4). Both sets of data are reported.

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

Organic Prep

Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 480-668289.

Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 480-669345.

Method 3510C: The following samples were re-prepared outside of preparation holding time due to contamination in the MB: MW-10 (480-208476-1), MW-11A (480-208476-7), SW-01 (480-208520-1), SW-02 (480-208520-2) and MW-13 (480-208520-4).

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

Detection Summary

Client: GEI Consultants, Inc. Project/Site: Semi Annual Job ID: 480-208476-1 SDG: 480-208476-1

								300.40	0-200470-1
Client Sample ID: MW-10						Lab Sa	ampl	e ID: 480	-208476-1
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D Me	ethod	Prep Type
Naphthalene	1.2	В	0.52	0.44	ug/L	1	82	70D_LL_PAH	Total/NA
Client Sample ID: MW-14						Lab Sa	ampl	e ID: 480-	-208476-2
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D Me	ethod	Prep Type
Cyanide, Total	0.61	B ^2	0.020	0.0082	mg/L	2	90	12B	Total/NA
Cyanide, Free	4.9	J	5.0	2.3	ug/L	1	90	16	Total/NA
Client Sample ID: MW-23						Lab Sa	ampl	e ID: 480	-208476-3
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D Me	ethod	Prep Type
Cyanide, Total	0.15	B ^2 F1	0.010	0.0041	mg/L	1		12B	Total/NA
Cyanide, Free	6.5		5.0	2.3	ug/L	1	90	16	Total/NA
Client Sample ID: MW-20						Lab Sa	ampl	e ID: 480-	-208476-4
Analyte	Result	Qualifier	RI	МП	Unit	Dil Fac	D Me	athod	Pren Type
Cyanide, Total	0.87	B ^2	0.10	0.041	mg/L	10		12B	Total/NA
Cyanide, Free	5.9		5.0	2.3	ug/L	1	90	16	Total/NA
Client Sample ID: MW-21						Lab Sa	ampl	e ID: 480-	-208476-5
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D Me	ethod	Prep Type
Cyanide, Total	0.41	B ^2	0.020	0.0082	mg/L	2		12B	Total/NA
Cyanide, Free	8.9		5.0	2.3	ug/L	1	90	16	Total/NA
Client Sample ID: MW-22						Lab Sa	ampl	e ID: 480-	-208476-6
Analyte	Result	Qualifier	RI	МП	Unit	Dil Fac	D Me	athod	Pren Tyne
Cvanide. Total	0.44	B ^2	0.020	0.0082	ma/L	2		12B	Total/NA
Cyanide, Free	13.5		5.0	2.3	ug/L	1	90	16	Total/NA
Client Sample ID: MW-11A						Lab Sa	ampl	e ID: 480-	-208476-7
Analyte	Result	Qualifier	RI	МП	Unit	Dil Fac	D Me	athod	Pren Type
Benzene	2.7		2.0	0.82	ug/L	2	- 820	60C	Total/NA
Acenaphthene	2.1		0.50	0.30	ug/L	1	82	70D LL PAH	Total/NA
Acenaphthylene	1.3		0.50	0.34	ug/L	1	82	70D LL PAH	Total/NA
Naphthalene	1.7	В	0.50	0.42	ug/L	1	82	70D_LL_PAH	Total/NA
Acenaphthene - RE	1.5	н	0.50	0.30	ug/L	1	82	70D_LL_PAH	Total/NA
Acenaphthylene - RE	0.76	Н	0.50	0.34	ug/L	1	82	70D_LL_PAH	Total/NA
Cyanide, Total	0.20	B ^2	0.010	0.0041	mg/L	1	90	12B	Total/NA
Cyanide, Free	2.3	J	5.0	2.3	ug/L	1	90	16	Total/NA
Total Suspended Solids	39.2		4.0	4.0	mg/L	1	SM	1 2540D	Total/NA
Client Sample ID: Duplicate						Lab Sa	ampl	e ID: 480	-208476-8
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D Me	thod	Prep Туре
Cyanide, Total	0.14	B ^2	0.010	0.0041	mg/L	1	90	12B	Total/NA
Cyanide, Free	8.5		5.0	2.3	ug/L	1	90	16	Total/NA
Client Sample ID: EB						Lab Sa	ampl	e ID: 480	-208476-9
No Detections.							-		

This Detection Summary does not include radiochemical test results.
Detection Summary

Client: GEI Consultants, Inc. Project/Site: Semi Annual

Job ID: 480-208476-1 SDG: 480-208476-1

Project/Site: Semi Annual							SDG: 48	30-208476-1 30-208476-1
Client Sample ID: SW-01						Lab Sa	mple ID: 480	-208520-1
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D Method	Prep Type
Naphthalene	2.2	В	0.50	0.42	ug/L	1	8270D LL PAH	Total/NA 4
Cyanide, Free	2.3	J	5.0	2.3	ug/L	1	9016	Total/NA
Client Sample ID: SW-02						Lab Sa	mple ID: 480	-208520-2
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D Method	Prep Type
Naphthalene	1.2	B	0.53	0.45	ug/L	1		Total/NA
Client Sample ID: MW-17						Lab Sa	mple ID: 480	-208520-3
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D Method	Prep Type
Cyanide, Total	0.027	H B ^+	0.010	0.0041	mg/L	1	9012B	Total/NA
Client Sample ID: MW-13						Lab Sa	mple ID: 480	-208520-4
Analyte	Result	Qualifier	RI	мы	Unit	Dil Fac	D Method	Pren Type
Naphthalene	2.7	B	0.52	0.44	ug/L	1	8270D_LL_PAH	Total/NA 1
Client Sample ID: TB						Lab Sa	mple ID: 480	-208520-5
No Detections.								
Client Sample ID: MW-07						Lab Sa	mple ID: 480	-208567-1
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D Method	Prep Type 1
Benzene	1100		20	8.2	ug/L	20		Total/NA
Ethylbenzene	1100		20	15	ug/L	20	8260C	Total/NA
Toluene	16	J	20	10	ug/L	20	8260C	Total/NA
Xylenes, Total	390		40	13	ug/L	20	8260C	Total/NA
2-Methylnaphthalene	290		52	40	ug/L	100	8270D_LL_PAH	Total/NA
Acenaphthene	140		52	31	ug/L	100	8270D LL PAH	Total/NA
Naphthalene	2700	В	52	44	ug/L	100	8270D_LL_PAH	Total/NA
Client Sample ID: MW-19						Lab Sa	mple ID: 480	-208567-2
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D Method	Prep Туре
Benzene	4200		100	41	ug/L	100	8260C	Total/NA
Ethylbenzene	410		100	74	ug/L	100	8260C	Total/NA
Naphthalene	3200	В	100	88	ug/L	200	8270D_LL_PAH	Total/NA
Client Sample ID: MW-12						Lab Sa	mple ID: 480	-208567-3
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D Method	Prep Туре
Cyanide, Total	0.69	B ^2	0.010	0.0041	mg/L	1	9012B	Total/NA
Cyanide, Free	13.3		5.0	2.3	ug/L	1	9016	Total/NA
Cyanide, Total - RA	0.72	НВ	0.020	0.0082	mg/L	2	9012B	Total/NA
Client Sample ID: MW-16						Lab Sa	mple ID: 480	-208567-4
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D Method	Prep Туре
Cyanide, Total	2.9	B ^2	0.010	0.0041	mg/L	1		Total/NA
Cyanide, Free	59.1		5.0	2.3	ug/L	1	9016	Total/NA

This Detection Summary does not include radiochemical test results.

3.1 H B

Cyanide, Total - RA

Eurofins Buffalo

Total/NA

0.10

0.041 mg/L

10

9012B

No Detections.

Client: GEI Consultants, Inc.

Client Sample ID: TRIP BLANK

Project/Site: Semi Annual



Client Sample ID: MW-10 Date Collected: 05/02/23 09:30 Date Received: 05/02/23 16:11

Lab Sample ID: 480-208476-1 **Matrix: Ground Water**

5 6

_			
Method: SW846 8260	C - Volatile Organic	Compounds by GC/MS	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.41	ug/L			05/04/23 05:30	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			05/04/23 05:30	1
Toluene	1.0	U	1.0	0.51	ug/L			05/04/23 05:30	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			05/04/23 05:30	1
Surrogata	% Decentory	Qualifier	Limite				Prepared	Analyzed	Dil Fac
Surroyale	%Recovery	Quaimer	LIIIIIIS					7 mary 200	
1,2-Dichloroethane-d4 (Surr)	<u>7%Recovery</u> 104	Quaimer	77 - 120			-		05/04/23 05:30	1
1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr)		Quanner	77 - 120 73 - 120			-		05/04/23 05:30 05/04/23 05:30	1 1
1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) Dibromofluoromethane (Surr)		Quaimer	77 - 120 73 - 120 75 - 123			-		05/04/23 05:30 05/04/23 05:30 05/04/23 05:30	1 1 1
1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) Dibromofluoromethane (Surr) Toluene-d8 (Surr)		Quaimer	77 - 120 73 - 120 75 - 123 80 - 120					05/04/23 05:30 05/04/23 05:30 05/04/23 05:30 05/04/23 05:30	1 1 1 1

Method: SW846 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	0.52	U	0.52	0.40	ug/L		05/05/23 07:32	05/10/23 23:35	1
Acenaphthene	0.52	U	0.52	0.31	ug/L		05/05/23 07:32	05/10/23 23:35	1
Acenaphthylene	0.52	U	0.52	0.35	ug/L		05/05/23 07:32	05/10/23 23:35	1
Anthracene	0.52	U *1	0.52	0.41	ug/L		05/05/23 07:32	05/10/23 23:35	1
Benzo[a]anthracene	0.52	U	0.52	0.42	ug/L		05/05/23 07:32	05/10/23 23:35	1
Benzo[a]pyrene	0.52	U	0.52	0.34	ug/L		05/05/23 07:32	05/10/23 23:35	1
Benzo[b]fluoranthene	0.52	U	0.52	0.31	ug/L		05/05/23 07:32	05/10/23 23:35	1
Benzo[g,h,i]perylene	0.52	U	0.52	0.39	ug/L		05/05/23 07:32	05/10/23 23:35	1
Benzo[k]fluoranthene	0.52	U	0.52	0.089	ug/L		05/05/23 07:32	05/10/23 23:35	1
Chrysene	0.52	U *1	0.52	0.33	ug/L		05/05/23 07:32	05/10/23 23:35	1
Dibenz(a,h)anthracene	0.52	U	0.52	0.34	ug/L		05/05/23 07:32	05/10/23 23:35	1
Fluoranthene	0.52	U *1	0.52	0.38	ug/L		05/05/23 07:32	05/10/23 23:35	1
Fluorene	0.52	U	0.52	0.39	ug/L		05/05/23 07:32	05/10/23 23:35	1
Indeno[1,2,3-cd]pyrene	0.52	U	0.52	0.46	ug/L		05/05/23 07:32	05/10/23 23:35	1
Naphthalene	1.2	В	0.52	0.44	ug/L		05/05/23 07:32	05/10/23 23:35	1
Phenanthrene	0.52	U	0.52	0.40	ug/L		05/05/23 07:32	05/10/23 23:35	1
Pyrene	0.52	U	0.52	0.38	ug/L		05/05/23 07:32	05/10/23 23:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	94		48 - 120				05/05/23 07:32	05/10/23 23:35	1
Nitrobenzene-d5 (Surr)	80		46 - 120				05/05/23 07:32	05/10/23 23:35	1
p-Terphenyl-d14 (Surr)	59		24 - 136				05/05/23 07:32	05/10/23 23:35	1

Method: SW846 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	0.50	UH	0.50	0.38	ug/L		05/12/23 15:06	05/15/23 14:48	1
Acenaphthene	0.50	UH	0.50	0.30	ug/L		05/12/23 15:06	05/15/23 14:48	1
Acenaphthylene	0.50	UH	0.50	0.34	ug/L		05/12/23 15:06	05/15/23 14:48	1
Anthracene	0.50	UH	0.50	0.39	ug/L		05/12/23 15:06	05/15/23 14:48	1
Benzo[a]anthracene	0.50	UH	0.50	0.40	ug/L		05/12/23 15:06	05/15/23 14:48	1
Benzo[a]pyrene	0.50	UH	0.50	0.33	ug/L		05/12/23 15:06	05/15/23 14:48	1
Benzo[b]fluoranthene	0.50	UH	0.50	0.30	ug/L		05/12/23 15:06	05/15/23 14:48	1
Benzo[g,h,i]perylene	0.50	UH	0.50	0.37	ug/L		05/12/23 15:06	05/15/23 14:48	1
Benzo[k]fluoranthene	0.50	UH	0.50	0.085	ug/L		05/12/23 15:06	05/15/23 14:48	1
Chrysene	0.50	UH	0.50	0.32	ug/L		05/12/23 15:06	05/15/23 14:48	1
Dibenz(a,h)anthracene	0.50	UH	0.50	0.33	ug/L		05/12/23 15:06	05/15/23 14:48	1
Fluoranthene	0.50	UH	0.50	0.36	ug/L		05/12/23 15:06	05/15/23 14:48	1

Job ID: 480-208476-1 SDG: 480-208476-1

Client Sample ID: MW-10 Date Collected: 05/02/23 09:30 Date Received: 05/02/23 16:11

Lab Sample ID: 480-208476-1

Matrix: Ground Water

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Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	0.50	UH	0.50	0.37	ug/L		05/12/23 15:06	05/15/23 14:48	1
Indeno[1,2,3-cd]pyrene	0.50	UH	0.50	0.44	ug/L		05/12/23 15:06	05/15/23 14:48	1
Naphthalene	0.50	UH	0.50	0.42	ug/L		05/12/23 15:06	05/15/23 14:48	1
Phenanthrene	0.50	UH	0.50	0.38	ug/L		05/12/23 15:06	05/15/23 14:48	1
Pyrene	0.50	UH	0.50	0.36	ug/L		05/12/23 15:06	05/15/23 14:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	96		48 - 120				05/12/23 15:06	05/15/23 14:48	1
Nitrobenzene-d5 (Surr)	77		46 - 120				05/12/23 15:06	05/15/23 14:48	1
p-Terphenyl-d14 (Surr)	52		24 - 136				05/12/23 15:06	05/15/23 14:48	1

Job ID: 480-208476-1 SDG: 480-208476-1

Client: GEI Consultants, Inc. Project/Site: Semi Annual

Client Sample ID: MW-14 Date Collected: 05/02/23 11:10 Date Received: 05/02/23 16:11

Lab Sample ID: 480-208476-2

Matrix: Ground Water

liaiyto	Result	Quaimer	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
yanide, Total (SW846 9012B)	0.61	B ^2	0.020	0.0082	mg/L			05/15/23 11:24	2	
yanide, Free (SW846 9016)	4.9	J	5.0	2.3	ug/L		05/10/23 13:41	05/10/23 20:05	1	6

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Client Sample ID: MW-23 Date Collected: 05/02/23 12:25 Date Received: 05/02/23 16:11

Lab Sample ID: 480-208476-3 Matrix: Ground Water

Method: SW846 8260C - Vo	latile Organic	Compoun	ds by GC/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.41	ug/L			05/04/23 05:52	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			05/04/23 05:52	1
Toluene	1.0	U	1.0	0.51	ug/L			05/04/23 05:52	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			05/04/23 05:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		77 - 120					05/04/23 05:52	1
4-Bromofluorobenzene (Surr)	92		73 - 120					05/04/23 05:52	1
Dibromofluoromethane (Surr)	99		75 - 123					05/04/23 05:52	1
Toluene-d8 (Surr)	96		80 - 120					05/04/23 05:52	1

Method: SW846 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	0.54	U	0.54	0.41	ug/L		05/05/23 07:32	05/11/23 00:03	1
Acenaphthene	0.54	U	0.54	0.33	ug/L		05/05/23 07:32	05/11/23 00:03	1
Acenaphthylene	0.54	U	0.54	0.37	ug/L		05/05/23 07:32	05/11/23 00:03	1
Anthracene	0.54	U *1	0.54	0.42	ug/L		05/05/23 07:32	05/11/23 00:03	1
Benzo[a]anthracene	0.54	U	0.54	0.43	ug/L		05/05/23 07:32	05/11/23 00:03	1
Benzo[a]pyrene	0.54	U	0.54	0.36	ug/L		05/05/23 07:32	05/11/23 00:03	1
Benzo[b]fluoranthene	0.54	U	0.54	0.33	ug/L		05/05/23 07:32	05/11/23 00:03	1
Benzo[g,h,i]perylene	0.54	U	0.54	0.40	ug/L		05/05/23 07:32	05/11/23 00:03	1
Benzo[k]fluoranthene	0.54	U	0.54	0.092	ug/L		05/05/23 07:32	05/11/23 00:03	1
Chrysene	0.54	U *1	0.54	0.35	ug/L		05/05/23 07:32	05/11/23 00:03	1
Dibenz(a,h)anthracene	0.54	U	0.54	0.36	ug/L		05/05/23 07:32	05/11/23 00:03	1
Fluoranthene	0.54	U *1	0.54	0.39	ug/L		05/05/23 07:32	05/11/23 00:03	1
Fluorene	0.54	U	0.54	0.40	ug/L		05/05/23 07:32	05/11/23 00:03	1
Indeno[1,2,3-cd]pyrene	0.54	U	0.54	0.48	ug/L		05/05/23 07:32	05/11/23 00:03	1
Naphthalene	0.54	U	0.54	0.46	ug/L		05/05/23 07:32	05/11/23 00:03	1
Phenanthrene	0.54	U	0.54	0.41	ug/L		05/05/23 07:32	05/11/23 00:03	1
Pyrene	0.54	U	0.54	0.39	ug/L		05/05/23 07:32	05/11/23 00:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	83		48 - 120				05/05/23 07:32	05/11/23 00:03	1
Nitrobenzene-d5 (Surr)	68		46 - 120				05/05/23 07:32	05/11/23 00:03	1
p-Terphenyl-d14 (Surr)	49		24 - 136				05/05/23 07:32	05/11/23 00:03	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.15	B ^2 F1	0.010	0.0041	mg/L			05/15/23 11:45	1
Cyanide, Free (SW846 9016)	6.5		5.0	2.3	ug/L		05/10/23 13:41	05/10/23 20:05	1

Client: GEI Consultants, Inc. Project/Site: Semi Annual

Job ID: 480-208476-1 SDG: 480-208476-1

Client Sample ID: MW-20 Date Collected: 05/02/23 13:45 Date Received: 05/02/23 16:11

Lab	Sample	ID:	480-208476-4

Matrix: Ground Water

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General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.87	B ^2	0.10	0.041	mg/L			05/15/23 11:27	10
Cyanide, Free (SW846 9016)	5.9		5.0	2.3	ug/L		05/10/23 13:41	05/10/23 20:05	1

Client: GEI Consultants, Inc.
Project/Site: Semi Annual

Client Sample ID: MW-21

Job ID: 480-208476-1 SDG: 480-208476-1

5

6

Lab Sample ID: 480-208476-5

Date Collected: 05/02/23 15:10 Date Received: 05/02/23 16:11

 Matrix:	Ground	Water

General Chemistry Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.41	B ^2	0.020	0.0082	mg/L			05/15/23 11:29	2
Cyanide, Free (SW846 9016)	8. 9		5.0	2.3	ug/L		05/10/23 13:41	05/10/23 20:05	1

Client: GEI Consultants, Inc. Project/Site: Semi Annual

Job ID: 480-208476-1 SDG: 480-208476-1

Client Sample ID: MW-22 Date Collected: 05/02/23 14:00 Date Received: 05/02/23 16:11

Lab Sample ID: 480-208476-6

Matrix: Ground Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Cyanide, Total (SW846 9012B)	0.44	B ^2	0.020	0.0082	mg/L			05/15/23 11:32	2	
Cyanide, Free (SW846 9016)	13.5		5.0	2.3	ug/L		05/10/23 13:41	05/10/23 20:05	1	

6

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Client Sample ID: MW-11A Date Collected: 05/02/23 14:30 Date Received: 05/02/23 16:11

Lab Sample ID: 480-208476-7 Matrix: Ground Water

Method: SW846 8260C - Vo	latile Organic	Compoun	ds by GC/MS	1					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	2.7		2.0	0.82	ug/L			05/04/23 06:14	2
Ethylbenzene	2.0	U	2.0	1.5	ug/L			05/04/23 06:14	2
Toluene	2.0	U	2.0	1.0	ug/L			05/04/23 06:14	2
Xylenes, Total	4.0	U	4.0	1.3	ug/L			05/04/23 06:14	2
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		77 - 120			-		05/04/23 06:14	2
4-Bromofluorobenzene (Surr)	90		73 - 120					05/04/23 06:14	2
Dibromofluoromethane (Surr)	97		75 - 123					05/04/23 06:14	2
Toluene-d8 (Surr)	99		80 - 120					05/04/23 06:14	2

Method: SW846 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	0.50	U	0.50	0.38	ug/L		05/05/23 07:32	05/11/23 00:30	1
Acenaphthene	2.1		0.50	0.30	ug/L		05/05/23 07:32	05/11/23 00:30	1
Acenaphthylene	1.3		0.50	0.34	ug/L		05/05/23 07:32	05/11/23 00:30	1
Anthracene	0.50	U *1	0.50	0.39	ug/L		05/05/23 07:32	05/11/23 00:30	1
Benzo[a]anthracene	0.50	U	0.50	0.40	ug/L		05/05/23 07:32	05/11/23 00:30	1
Benzo[a]pyrene	0.50	U	0.50	0.33	ug/L		05/05/23 07:32	05/11/23 00:30	1
Benzo[b]fluoranthene	0.50	U	0.50	0.30	ug/L		05/05/23 07:32	05/11/23 00:30	1
Benzo[g,h,i]perylene	0.50	U	0.50	0.37	ug/L		05/05/23 07:32	05/11/23 00:30	1
Benzo[k]fluoranthene	0.50	U	0.50	0.085	ug/L		05/05/23 07:32	05/11/23 00:30	1
Chrysene	0.50	U *1	0.50	0.32	ug/L		05/05/23 07:32	05/11/23 00:30	1
Dibenz(a,h)anthracene	0.50	U	0.50	0.33	ug/L		05/05/23 07:32	05/11/23 00:30	1
Fluoranthene	0.50	U *1	0.50	0.36	ug/L		05/05/23 07:32	05/11/23 00:30	1
Fluorene	0.50	U	0.50	0.37	ug/L		05/05/23 07:32	05/11/23 00:30	1
Indeno[1,2,3-cd]pyrene	0.50	U	0.50	0.44	ug/L		05/05/23 07:32	05/11/23 00:30	1
Naphthalene	1.7	В	0.50	0.42	ug/L		05/05/23 07:32	05/11/23 00:30	1
Phenanthrene	0.50	U	0.50	0.38	ug/L		05/05/23 07:32	05/11/23 00:30	1
Pyrene	0.50	U	0.50	0.36	ug/L		05/05/23 07:32	05/11/23 00:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	95		48 - 120				05/05/23 07:32	05/11/23 00:30	1
Nitrobenzene-d5 (Surr)	81		46 - 120				05/05/23 07:32	05/11/23 00:30	1
p-Terphenyl-d14 (Surr)	61		24 - 136				05/05/23 07:32	05/11/23 00:30	1

Method: SW846 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH - RE

Analyte Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene 0.50	UH	0.50	0.38	ug/L		05/12/23 15:06	05/15/23 15:15	1
Acenaphthene 1.5	н	0.50	0.30	ug/L		05/12/23 15:06	05/15/23 15:15	1
Acenaphthylene 0.76	н	0.50	0.34	ug/L		05/12/23 15:06	05/15/23 15:15	1
Anthracene 0.50	UH	0.50	0.39	ug/L		05/12/23 15:06	05/15/23 15:15	1
Benzo[a]anthracene 0.50	UH	0.50	0.40	ug/L		05/12/23 15:06	05/15/23 15:15	1
Benzo[a]pyrene 0.50	UH	0.50	0.33	ug/L		05/12/23 15:06	05/15/23 15:15	1
Benzo[b]fluoranthene 0.50	UH	0.50	0.30	ug/L		05/12/23 15:06	05/15/23 15:15	1
Benzo[g,h,i]perylene 0.50	UH	0.50	0.37	ug/L		05/12/23 15:06	05/15/23 15:15	1
Benzo[k]fluoranthene 0.50	UH	0.50	0.085	ug/L		05/12/23 15:06	05/15/23 15:15	1
Chrysene 0.50	UH	0.50	0.32	ug/L		05/12/23 15:06	05/15/23 15:15	1
Dibenz(a,h)anthracene 0.50	UH	0.50	0.33	ug/L		05/12/23 15:06	05/15/23 15:15	1
Fluoranthene 0.50	UH	0.50	0.36	ug/L		05/12/23 15:06	05/15/23 15:15	1

0.50

0.50

0.50

0.50

0.50

Limits

48 - 120

46 - 120

24 - 136

RL

5.0

RL

4.0

0.010

MDL Unit

0.44 ug/L

0.42 ug/L

0.38 ug/L

0.36 ug/L

MDL Unit

2.3 ug/L

RL Unit

4.0 mg/L

0.0041 mg/L

0.37 ug/L

Result Qualifier

0.50 UH

0.50 U H

0.50 UH

0.50 UH

0.50 UH

94

78

52

Result Qualifier

Result Qualifier

0.20 B ^2

2.3 J

39.2

Qualifier

%Recovery

Analyte

Fluorene

Pyrene

Surrogate

Analyte

Analyte

2540D)

Naphthalene

Phenanthrene

Indeno[1,2,3-cd]pyrene

2-Fluorobiphenyl (Surr)

Nitrobenzene-d5 (Surr)

p-Terphenyl-d14 (Surr)

General Chemistry

Cyanide, Total (SW846 9012B)

Cyanide, Free (SW846 9016)

Total Suspended Solids (SM

Client Sample ID: MW-11A Date Collected: 05/02/23 14:30 Date Received: 05/02/23 16:11

Lab Sample ID: 480-208476-7

Prepared

Prepared

Prepared

05/10/23 13:41

Prepared

D

D

D

Matrix: Ground Water Method: SW846 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH - RE (Continued) Analyzed Dil Fac 05/12/23 15:06 05/15/23 15:15 1 6 05/12/23 15:06 05/15/23 15:15 1 05/12/23 15:06 05/15/23 15:15 1 05/12/23 15:06 05/15/23 15:15 1 05/12/23 15:06 05/15/23 15:15 1 Analyzed Dil Fac 05/12/23 15:06 05/15/23 15:15 1 05/12/23 15:06 05/15/23 15:15 1 05/12/23 15:06 05/15/23 15:15 1 Dil Fac Analyzed 05/15/23 11:53 1 05/10/23 20:05 1 Analyzed Dil Fac 05/08/23 15:44 1

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Client Sample ID: Duplicate Date Collected: 05/02/23 00:00 Date Received: 05/02/23 16:11

Lab Sample ID: 480-208476-8 Matrix: Ground Water

Method: SW846 8260C - Vola	atile Organic	Compound	ds by GC/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.41	ug/L			05/04/23 06:36	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			05/04/23 06:36	1
Toluene	1.0	U	1.0	0.51	ug/L			05/04/23 06:36	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			05/04/23 06:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		77 - 120					05/04/23 06:36	1
4-Bromofluorobenzene (Surr)	91		73 - 120					05/04/23 06:36	1
Dibromofluoromethane (Surr)	100		75 - 123					05/04/23 06:36	1
Toluene-d8 (Surr)	100		80 - 120					05/04/23 06:36	1

Method: SW846 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	0.52	U	0.52	0.40	ug/L		05/05/23 07:32	05/11/23 00:58	1
Acenaphthene	0.52	U	0.52	0.31	ug/L		05/05/23 07:32	05/11/23 00:58	1
Acenaphthylene	0.52	U	0.52	0.35	ug/L		05/05/23 07:32	05/11/23 00:58	1
Anthracene	0.52	U *1	0.52	0.41	ug/L		05/05/23 07:32	05/11/23 00:58	1
Benzo[a]anthracene	0.52	U	0.52	0.42	ug/L		05/05/23 07:32	05/11/23 00:58	1
Benzo[a]pyrene	0.52	U	0.52	0.34	ug/L		05/05/23 07:32	05/11/23 00:58	1
Benzo[b]fluoranthene	0.52	U	0.52	0.31	ug/L		05/05/23 07:32	05/11/23 00:58	1
Benzo[g,h,i]perylene	0.52	U	0.52	0.39	ug/L		05/05/23 07:32	05/11/23 00:58	1
Benzo[k]fluoranthene	0.52	U	0.52	0.089	ug/L		05/05/23 07:32	05/11/23 00:58	1
Chrysene	0.52	U *1	0.52	0.33	ug/L		05/05/23 07:32	05/11/23 00:58	1
Dibenz(a,h)anthracene	0.52	U	0.52	0.34	ug/L		05/05/23 07:32	05/11/23 00:58	1
Fluoranthene	0.52	U *1	0.52	0.38	ug/L		05/05/23 07:32	05/11/23 00:58	1
Fluorene	0.52	U	0.52	0.39	ug/L		05/05/23 07:32	05/11/23 00:58	1
Indeno[1,2,3-cd]pyrene	0.52	U	0.52	0.46	ug/L		05/05/23 07:32	05/11/23 00:58	1
Naphthalene	0.52	U	0.52	0.44	ug/L		05/05/23 07:32	05/11/23 00:58	1
Phenanthrene	0.52	U	0.52	0.40	ug/L		05/05/23 07:32	05/11/23 00:58	1
Pyrene	0.52	U	0.52	0.38	ug/L		05/05/23 07:32	05/11/23 00:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	88		48 - 120				05/05/23 07:32	05/11/23 00:58	1
Nitrobenzene-d5 (Surr)	75		46 - 120				05/05/23 07:32	05/11/23 00:58	1
p-Terphenyl-d14 (Surr)	45		24 - 136				05/05/23 07:32	05/11/23 00:58	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.14	B ^2	0.010	0.0041	mg/L			05/15/23 11:56	1
Cyanide, Free (SW846 9016)	8.5		5.0	2.3	ug/L		05/10/23 13:41	05/10/23 20:05	1

1.0

1.0

1.0

2.0

Limits

77 - 120

73 - 120

75 - 123

80 - 120

RL

0.50

0.50

0.50

0.50

MDL Unit

0.41 ug/L

0.74 ug/L

0.51 ug/L

0.66 ug/L

MDL Unit

0.30 ug/L

0.34 ug/L

0.39 ug/L

2.3 ug/L

0.38 ug/L D

D

Prepared

Prepared

Prepared

05/05/23 07:32

05/05/23 07:32

05/05/23 07:32 05/11/23 01:25

05/05/23 07:32 05/11/23 01:25

05/10/23 13:41 05/10/23 20:05

Job ID: 480-208476-1 SDG: 480-208476-1

Analyzed

05/04/23 06:59

05/04/23 06:59

05/04/23 06:59

05/04/23 06:59

Analyzed

05/04/23 06:59

05/04/23 06:59

05/04/23 06:59

05/04/23 06:59

Analyzed

05/11/23 01:25

05/11/23 01:25

Client Sample ID: EB Date Collected: 05/02/23 13:00 Date Received: 05/02/23 16:11

Analyte

Benzene

Toluene

Ethylbenzene

Xylenes, Total

Toluene-d8 (Surr)

2-Methylnaphthalene

Acenaphthene

Anthracene

Cyanide, Free (SW846 9016)

Acenaphthylene

1,2-Dichloroethane-d4 (Surr)

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

Surrogate

Analyte

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Result Qualifier

1.0 U

1.0 U

1.0 U

2.0 U

%Recovery Qualifier

101

97

98

98

0.50 U

0.50 U

0.50 U

0.50 U*1

5.0 U

Method: SW846 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Result Qualifier

Lab Sample ID: 480-208476-9 Matrix: Water

5
6
8
9

Dil Fac

Dil Fac

Dil Fac

1

1

1

1

1

1

1

1

1

1

1

1

Benzolalanthracene	0.50	П	0.50	0 40	ua/l		05/05/23 07:32	05/11/23 01.25	1
Bonzolalpyropo	0.00	0	0.00	0.40	ug/L		05/05/23 07:32	05/11/23 01:25	1
	0.50		0.50	0.00	uy/L		05/05/25 07.52	05/11/25 01.25	
Benzolojnuorantnene	0.50	U	0.50	0.30	ug/L		05/05/23 07:32	05/11/23 01:25	1
Benzo[g,h,i]perylene	0.50	U	0.50	0.37	ug/L		05/05/23 07:32	05/11/23 01:25	1
Benzo[k]fluoranthene	0.50	U	0.50	0.085	ug/L		05/05/23 07:32	05/11/23 01:25	1
Chrysene	0.50	U *1	0.50	0.32	ug/L		05/05/23 07:32	05/11/23 01:25	1
Dibenz(a,h)anthracene	0.50	U	0.50	0.33	ug/L		05/05/23 07:32	05/11/23 01:25	1
Fluoranthene	0.50	U *1	0.50	0.36	ug/L		05/05/23 07:32	05/11/23 01:25	1
Fluorene	0.50	U	0.50	0.37	ug/L		05/05/23 07:32	05/11/23 01:25	1
Indeno[1,2,3-cd]pyrene	0.50	U	0.50	0.44	ug/L		05/05/23 07:32	05/11/23 01:25	1
Naphthalene	0.50	U	0.50	0.42	ug/L		05/05/23 07:32	05/11/23 01:25	1
Phenanthrene	0.50	U	0.50	0.38	ug/L		05/05/23 07:32	05/11/23 01:25	1
Pyrene	0.50	U	0.50	0.36	ug/L		05/05/23 07:32	05/11/23 01:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	87		48 - 120				05/05/23 07:32	05/11/23 01:25	1
Nitrobenzene-d5 (Surr)	72		46 - 120				05/05/23 07:32	05/11/23 01:25	1
p-Terphenyl-d14 (Surr)	68		24 - 136				05/05/23 07:32	05/11/23 01:25	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.010	U	0.010	0.0041	mg/L			05/12/23 18:22	1

5.0

1

1.0

1.0

1.0

2.0

Limits

77 - 120

73 - 120

75 - 123

80 - 120

RL

0.50

0.50

0.50

0.50

0.50

0.50

0.50

MDL Unit

0.41 ug/L

0.74 ug/L

0.51 ug/L

0.66 ug/L

MDL Unit

0.30 ug/L

0.34 ug/L

0.39 ug/L

0.40 ug/L

0.33 ug/L

0.30 ug/L

0.38 ug/L D

D

Prepared

Prepared

Prepared

05/05/23 07:32 05/11/23 02:47

05/05/23 07:32 05/11/23 02:47

05/05/23 07:32 05/11/23 02:47

05/05/23 07:32 05/11/23 02:47

05/05/23 07:32 05/11/23 02:47

05/05/23 07:32 05/11/23 02:47

05/05/23 07:32 05/11/23 02:47

Analyte

Benzene

Toluene

Ethylbenzene

Xylenes, Total

Toluene-d8 (Surr)

2-Methylnaphthalene

Benzo[a]anthracene

Benzo[b]fluoranthene

Acenaphthene

Anthracene

Acenaphthylene

Benzo[a]pyrene

1,2-Dichloroethane-d4 (Surr)

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

Surrogate

Analyte

Client Sample ID: SW-01 Date Collected: 05/03/23 09:20 Date Received: 05/03/23 13:40

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Result Qualifier

1.0 U

1.0 U

1.0 U

2.0 U

%Recovery Qualifier

98

90

101

99

0.50 Ū

0.50 U

0.50 U

0.50 U

0.50 U

0.50 U

0.50 U*1

Method: SW846 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH Result Qualifier

Lab Sample ID: 480-208520-1 Matrix: Surface Water

Analyzed

05/05/23 18:56

05/05/23 18:56

05/05/23 18:56

05/05/23 18:56

Analyzed

05/05/23 18:56

05/05/23 18:56

05/05/23 18:56

05/05/23 18:56

Analyzed

6

Dil Fac

1

1

1

1

1

1

1

1

1

1

1

1

1

1

Dil Fac

Dil Fac

Benzo[g,h,i]perylene	0.50	U	0.50	0.37	ug/L	05/05/23 07:32	05/11/23 02:47	1
Benzo[k]fluoranthene	0.50	U	0.50	0.085	ug/L	05/05/23 07:32	05/11/23 02:47	1
Chrysene	0.50	U *1	0.50	0.32	ug/L	05/05/23 07:32	05/11/23 02:47	1
Dibenz(a,h)anthracene	0.50	U	0.50	0.33	ug/L	05/05/23 07:32	05/11/23 02:47	1
Fluoranthene	0.50	U *1	0.50	0.36	ug/L	05/05/23 07:32	05/11/23 02:47	1
Fluorene	0.50	U	0.50	0.37	ug/L	05/05/23 07:32	05/11/23 02:47	1
Indeno[1,2,3-cd]pyrene	0.50	U	0.50	0.44	ug/L	05/05/23 07:32	05/11/23 02:47	1
Naphthalene	2.2	В	0.50	0.42	ug/L	05/05/23 07:32	05/11/23 02:47	1
Phenanthrene	0.50	U	0.50	0.38	ug/L	05/05/23 07:32	05/11/23 02:47	1
Pyrene	0.50	U	0.50	0.36	ug/L	05/05/23 07:32	05/11/23 02:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	88		48 - 120			05/05/23 07:32	05/11/23 02:47	1
Nitrobenzene-d5 (Surr)	73		46 - 120			05/05/23 07:32	05/11/23 02:47	1
p-Terphenyl-d14 (Surr)	55		24 - 136			05/05/23 07:32	05/11/23 02:47	1
Method: SW846 8270D LL PA	H - Semivo	latile Orga	nic Compou	nds (GC	:/MS) Lov	v level PAH - RE		

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	0.50	UH	0.50	0.38	ug/L		05/12/23 15:06	05/15/23 15:43	1
Acenaphthene	0.50	UH	0.50	0.30	ug/L		05/12/23 15:06	05/15/23 15:43	1
Acenaphthylene	0.50	UH	0.50	0.34	ug/L		05/12/23 15:06	05/15/23 15:43	1
Anthracene	0.50	UH	0.50	0.39	ug/L		05/12/23 15:06	05/15/23 15:43	1
Benzo[a]anthracene	0.50	UH	0.50	0.40	ug/L		05/12/23 15:06	05/15/23 15:43	1
Benzo[a]pyrene	0.50	UH	0.50	0.33	ug/L		05/12/23 15:06	05/15/23 15:43	1
Benzo[b]fluoranthene	0.50	UH	0.50	0.30	ug/L		05/12/23 15:06	05/15/23 15:43	1
Benzo[g,h,i]perylene	0.50	UH	0.50	0.37	ug/L		05/12/23 15:06	05/15/23 15:43	1
Benzo[k]fluoranthene	0.50	UH	0.50	0.085	ug/L		05/12/23 15:06	05/15/23 15:43	1
Chrysene	0.50	UH	0.50	0.32	ug/L		05/12/23 15:06	05/15/23 15:43	1
Dibenz(a,h)anthracene	0.50	UH	0.50	0.33	ug/L		05/12/23 15:06	05/15/23 15:43	1
Fluoranthene	0.50	UH	0.50	0.36	ug/L		05/12/23 15:06	05/15/23 15:43	1

0.50

0.50

0.50

0.50

0.50

Limits

48 - 120

46 - 120

24 - 136

RL

5.0

RL

4.0

0.010

MDL Unit

0.44 ug/L

0.42 ug/L

0.38 ug/L

0.36 ug/L

MDL Unit

2.3 ug/L

RL Unit

4.0 mg/L

mg/L

0.0041

0.37 ug/L

Method: SW846 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH - RE (Continued)

Result Qualifier

0.50 UH

0.50 U H

0.50 UH

0.50 UH

0.50 UH

97

79

62

0.010 U

2.3 J

4.0 U

Result Qualifier

Result Qualifier

Qualifier

%Recovery

Job ID: 480-208476-1 SDG: 480-208476-1

Analyzed

Analyzed

Analyzed

05/15/23 13:00

05/10/23 20:05

Analyzed

05/09/23 15:20

Client Sample ID: SW-01 Date Collected: 05/03/23 09:20 Date Received: 05/03/23 13:40

Analyte

Fluorene

Pyrene

Surrogate

Analyte

Analyte

Naphthalene

Phenanthrene

Indeno[1,2,3-cd]pyrene

2-Fluorobiphenyl (Surr)

Nitrobenzene-d5 (Surr)

p-Terphenyl-d14 (Surr)

General Chemistry

Cyanide, Total (SW846 9012B)

Cyanide, Free (SW846 9016)

Total Suspended Solids (SM 2540D)

Lab Sample ID: 480-208520-1 Matrix: Surface Water

05/12/23 15:06 05/15/23 15:43

05/12/23 15:06 05/15/23 15:43

05/12/23 15:06 05/15/23 15:43

05/12/23 15:06 05/15/23 15:43

05/12/23 15:06 05/15/23 15:43

05/12/23 15:06 05/15/23 15:43

05/12/23 15:06 05/15/23 15:43

05/12/23 15:06 05/15/23 15:43

Prepared

Prepared

Prepared

05/10/23 13:41

Prepared

D

D

D

6 Dil Fac Dil Fac

Dil Fac

1

1

1

1

1

1

1

1

1

1

1

Dil Fac

1.0

1.0

1.0

2.0

Limits

77 - 120

73 - 120

75 - 123

80 - 120

RL

0.53

0.53

0.53

0.53

0.53

0.53

MDL Unit

0.41 ug/L

0.74 ug/L

0.51 ug/L

0.66 ug/L

MDL Unit

0.40 ug/L

0.32 ug/L

0.36 ug/L

0.41 ug/L

0.43 ug/L

0.35 ug/L

D

D

Prepared

Prepared

Prepared

05/05/23 07:32

05/05/23 07:32 05/11/23 03:14

05/05/23 07:32 05/11/23 03:14

05/05/23 07:32 05/11/23 03:14

05/05/23 07:32 05/11/23 03:14

05/05/23 07:32 05/11/23 03:14

Analyte

Benzene

Toluene

Ethylbenzene

Xylenes, Total

Toluene-d8 (Surr)

2-Methylnaphthalene

Benzo[a]anthracene

Benzo[b]fluoranthene

Benzo[g,h,i]perylene

Benzo[k]fluoranthene

Dibenz(a,h)anthracene

Indeno[1,2,3-cd]pyrene

2-Fluorobiphenyl (Surr)

Nitrobenzene-d5 (Surr)

p-Terphenyl-d14 (Surr)

Acenaphthene

Anthracene

Chrysene

Fluorene

Pyrene

Surrogate

Fluoranthene

Naphthalene

Phenanthrene

Acenaphthylene

Benzo[a]pyrene

1,2-Dichloroethane-d4 (Surr)

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

Surrogate

Analyte

Client Sample ID: SW-02 Date Collected: 05/03/23 08:40 Date Received: 05/03/23 13:40

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Result Qualifier

1.0 U

1.0 U

1.0 U

2.0 U

%Recovery Qualifier

102

89

102

98

0.53 U

0.53 U

0.53 U

0.53 U

0.53 U

0.53 U*1

Method: SW846 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH Result Qualifier

Lab Sample ID: 480-208520-2 **Matrix: Surface Water**

Analyzed

05/05/23 19:19

05/05/23 19:19

05/05/23 19:19

05/05/23 19:19

Analyzed

05/05/23 19:19

05/05/23 19:19

05/05/23 19:19

05/05/23 19:19

Analyzed

05/11/23 03:14

6

Dil Fac

1

1

1

1

1

1

1

1

1

1

1

1

Dil Fac

Dil Fac

0.53	U	0.53	0.32	ug/L	05/05/23 07:32	05/11/23 03:14	1	
0.53	U	0.53	0.39	ug/L	05/05/23 07:32	05/11/23 03:14	1	
0.53	U	0.53	0.090	ug/L	05/05/23 07:32	05/11/23 03:14	1	
0.53	U *1	0.53	0.34	ug/L	05/05/23 07:32	05/11/23 03:14	1	
0.53	U	0.53	0.35	ug/L	05/05/23 07:32	05/11/23 03:14	1	
0.53	U *1	0.53	0.38	ug/L	05/05/23 07:32	05/11/23 03:14	1	
0.53	U	0.53	0.39	ug/L	05/05/23 07:32	05/11/23 03:14	1	
0.53	U	0.53	0.47	ug/L	05/05/23 07:32	05/11/23 03:14	1	
1.2	В	0.53	0.45	ug/L	05/05/23 07:32	05/11/23 03:14	1	
0.53	U	0.53	0.40	ug/L	05/05/23 07:32	05/11/23 03:14	1	
0.53	U	0.53	0.38	ug/L	05/05/23 07:32	05/11/23 03:14	1	
%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
98		48 - 120			05/05/23 07:32	05/11/23 03:14	1	
82		46 - 120			05/05/23 07:32	05/11/23 03:14	1	
63		24 - 136			05/05/23 07:32	05/11/23 03:14	1	

Method: SW846 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	0.50	UH	0.50	0.38	ug/L		05/12/23 15:06	05/15/23 16:10	1
Acenaphthene	0.50	UH	0.50	0.30	ug/L		05/12/23 15:06	05/15/23 16:10	1
Acenaphthylene	0.50	UH	0.50	0.34	ug/L		05/12/23 15:06	05/15/23 16:10	1
Anthracene	0.50	UH	0.50	0.39	ug/L		05/12/23 15:06	05/15/23 16:10	1
Benzo[a]anthracene	0.50	UH	0.50	0.40	ug/L		05/12/23 15:06	05/15/23 16:10	1
Benzo[a]pyrene	0.50	UH	0.50	0.33	ug/L		05/12/23 15:06	05/15/23 16:10	1
Benzo[b]fluoranthene	0.50	UH	0.50	0.30	ug/L		05/12/23 15:06	05/15/23 16:10	1
Benzo[g,h,i]perylene	0.50	UH	0.50	0.37	ug/L		05/12/23 15:06	05/15/23 16:10	1
Benzo[k]fluoranthene	0.50	UH	0.50	0.085	ug/L		05/12/23 15:06	05/15/23 16:10	1
Chrysene	0.50	UH	0.50	0.32	ug/L		05/12/23 15:06	05/15/23 16:10	1
Dibenz(a,h)anthracene	0.50	UH	0.50	0.33	ug/L		05/12/23 15:06	05/15/23 16:10	1
Fluoranthene	0.50	UH	0.50	0.36	ug/L		05/12/23 15:06	05/15/23 16:10	1

Eurofins Buffalo

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RL

0.50

0.50

0.50

0.50

0.50

Limits

48 - 120

46 - 120

24 - 136

RL

5.0

RL

4.0

0.010

MDL Unit

0.44 ug/L

0.42 ug/L

0.38 ug/L

0.36 ug/L

MDL Unit

2.3 ug/L

RL Unit

4.0 mg/L

mg/L

0.0041

0.37 ug/L

Method: SW846 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH - RE (Continued)

Result Qualifier

0.50 UH

0.50 U H

0.50 UH

0.50 UH

0.50 UH

%Recovery Qualifier

101

83

61

0.010 U

5.0 U

4.0 U

Result Qualifier

Result Qualifier

Job ID: 480-208476-1 SDG: 480-208476-1

Analyzed

Analyzed

Analyzed

05/15/23 13:08

05/10/23 20:05

Analyzed

05/09/23 15:20

Client Sample ID: SW-02 Date Collected: 05/03/23 08:40 Date Received: 05/03/23 13:40

Analyte

Fluorene

Pyrene

Surrogate

Analyte

Analyte

Naphthalene

Phenanthrene

Indeno[1,2,3-cd]pyrene

2-Fluorobiphenyl (Surr)

Nitrobenzene-d5 (Surr)

p-Terphenyl-d14 (Surr)

General Chemistry

Cyanide, Total (SW846 9012B)

Cyanide, Free (SW846 9016)

Total Suspended Solids (SM 2540D)

Lab Sample ID: 480-208520-2 Matrix: Surface Water

05/12/23 15:06 05/15/23 16:10

05/12/23 15:06 05/15/23 16:10

05/12/23 15:06 05/15/23 16:10

05/12/23 15:06 05/15/23 16:10

05/12/23 15:06 05/15/23 16:10

05/12/23 15:06 05/15/23 16:10

05/12/23 15:06 05/15/23 16:10

05/12/23 15:06 05/15/23 16:10

Prepared

Prepared

Prepared

05/10/23 13:41

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Dil Fac

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Dil Fac

Dil Fac

Dil Fac

Job ID: 480-208476-1 SDG: 480-208476-1

5

6

Client Sample ID: MW-17 Date Collected: 05/03/23 12:35 Date Received: 05/03/23 13:40

Lab Sample ID: 480-208520-3 Matrix: Ground Water

Method: SW846 8260C - Vo	latile Organic	Compoun	ds by GC/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	2.0	U	2.0	0.82	ug/L			05/05/23 19:41	2
Ethylbenzene	2.0	U	2.0	1.5	ug/L			05/05/23 19:41	2
Toluene	2.0	U	2.0	1.0	ug/L			05/05/23 19:41	2
Xylenes, Total	4.0	U	4.0	1.3	ug/L			05/05/23 19:41	2
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		77 - 120					05/05/23 19:41	2
4-Bromofluorobenzene (Surr)	97		73 - 120					05/05/23 19:41	2
Dibromofluoromethane (Surr)	94		75 - 123					05/05/23 19:41	2
Toluene-d8 (Surr)	97		80 - 120					05/05/23 19:41	2

Method: SW846 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	2.7	U	2.7	2.0	ug/L		05/05/23 07:32	05/11/23 03:42	5
Acenaphthene	2.7	U	2.7	1.6	ug/L		05/05/23 07:32	05/11/23 03:42	5
Acenaphthylene	2.7	U	2.7	1.8	ug/L		05/05/23 07:32	05/11/23 03:42	5
Anthracene	2.7	U *1	2.7	2.1	ug/L		05/05/23 07:32	05/11/23 03:42	5
Benzo[a]anthracene	2.7	U	2.7	2.1	ug/L		05/05/23 07:32	05/11/23 03:42	5
Benzo[a]pyrene	2.7	U	2.7	1.8	ug/L		05/05/23 07:32	05/11/23 03:42	5
Benzo[b]fluoranthene	2.7	U	2.7	1.6	ug/L		05/05/23 07:32	05/11/23 03:42	5
Benzo[g,h,i]perylene	2.7	U	2.7	2.0	ug/L		05/05/23 07:32	05/11/23 03:42	5
Benzo[k]fluoranthene	2.7	U	2.7	0.45	ug/L		05/05/23 07:32	05/11/23 03:42	5
Chrysene	2.7	U *1	2.7	1.7	ug/L		05/05/23 07:32	05/11/23 03:42	5
Dibenz(a,h)anthracene	2.7	U	2.7	1.8	ug/L		05/05/23 07:32	05/11/23 03:42	5
Fluoranthene	2.7	U *1	2.7	1.9	ug/L		05/05/23 07:32	05/11/23 03:42	5
Fluorene	2.7	U	2.7	2.0	ug/L		05/05/23 07:32	05/11/23 03:42	5
Indeno[1,2,3-cd]pyrene	2.7	U	2.7	2.3	ug/L		05/05/23 07:32	05/11/23 03:42	5
Naphthalene	2.7	U	2.7	2.2	ug/L		05/05/23 07:32	05/11/23 03:42	5
Phenanthrene	2.7	U	2.7	2.0	ug/L		05/05/23 07:32	05/11/23 03:42	5
Pyrene	2.7	U	2.7	1.9	ug/L		05/05/23 07:32	05/11/23 03:42	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	93		48 - 120				05/05/23 07:32	05/11/23 03:42	5
Nitrobenzene-d5 (Surr)	76		46 - 120				05/05/23 07:32	05/11/23 03:42	5
p-Terphenyl-d14 (Surr) _	64		24 - 136				05/05/23 07:32	05/11/23 03:42	5
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.027	H B ^+	0.010	0.0041	mg/L			05/25/23 17:28	1
Cyanide, Free (SW846 9016)	5.0	U	5.0	2.3	ug/L		05/10/23 13:41	05/10/23 20:05	1

Analyte

Benzene

Toluene

Surrogate

Client Sample ID: MW-13 Date Collected: 05/03/23 10:50 Date Received: 05/03/23 13:40

Lab Sample ID: 480-208520-4 **Matrix: Ground Water**

Method: SW846 8260C - Volatile Organic Compounds by GC/MS Result Qualifier MDL Unit Dil Fac RL D Prepared Analyzed 1.0 U 1.0 05/05/23 20:03 0.41 ug/L 1 6 Ethylbenzene 1.0 U 05/05/23 20:03 1.0 0.74 ug/L 1 1.0 U 1.0 0.51 ug/L 05/05/23 20:03 1 Xylenes, Total 2.0 U 2.0 0.66 ug/L 05/05/23 20:03 1 %Recovery Qualifier Prepared Limits Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 100 77 - 120 05/05/23 20:03 1 91 73 - 120 05/05/23 20:03 4-Bromofluorobenzene (Surr) 1 Dibromofluoromethane (Surr) 101 75 - 123 05/05/23 20:03 1 Toluene-d8 (Surr) 99 80 - 120 05/05/23 20:03 1

Method: SW846 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	0.52	U	0.52	0.40	ug/L		05/05/23 07:32	05/11/23 04:09	1
Acenaphthene	0.52	U	0.52	0.31	ug/L		05/05/23 07:32	05/11/23 04:09	1
Acenaphthylene	0.52	U	0.52	0.35	ug/L		05/05/23 07:32	05/11/23 04:09	1
Anthracene	0.52	U *1	0.52	0.41	ug/L		05/05/23 07:32	05/11/23 04:09	1
Benzo[a]anthracene	0.52	U	0.52	0.42	ug/L		05/05/23 07:32	05/11/23 04:09	1
Benzo[a]pyrene	0.52	U	0.52	0.34	ug/L		05/05/23 07:32	05/11/23 04:09	1
Benzo[b]fluoranthene	0.52	U	0.52	0.31	ug/L		05/05/23 07:32	05/11/23 04:09	1
Benzo[g,h,i]perylene	0.52	U	0.52	0.39	ug/L		05/05/23 07:32	05/11/23 04:09	1
Benzo[k]fluoranthene	0.52	U	0.52	0.089	ug/L		05/05/23 07:32	05/11/23 04:09	1
Chrysene	0.52	U *1	0.52	0.33	ug/L		05/05/23 07:32	05/11/23 04:09	1
Dibenz(a,h)anthracene	0.52	U	0.52	0.34	ug/L		05/05/23 07:32	05/11/23 04:09	1
Fluoranthene	0.52	U *1	0.52	0.38	ug/L		05/05/23 07:32	05/11/23 04:09	1
Fluorene	0.52	U	0.52	0.39	ug/L		05/05/23 07:32	05/11/23 04:09	1
Indeno[1,2,3-cd]pyrene	0.52	U	0.52	0.46	ug/L		05/05/23 07:32	05/11/23 04:09	1
Naphthalene	2.7	В	0.52	0.44	ug/L		05/05/23 07:32	05/11/23 04:09	1
Phenanthrene	0.52	U	0.52	0.40	ug/L		05/05/23 07:32	05/11/23 04:09	1
Pyrene	0.52	U	0.52	0.38	ug/L		05/05/23 07:32	05/11/23 04:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	110		48 - 120				05/05/23 07:32	05/11/23 04:09	1
Nitrobenzene-d5 (Surr)	89		46 - 120				05/05/23 07:32	05/11/23 04:09	1
p-Terphenyl-d14 (Surr)	69		24 - 136				05/05/23 07:32	05/11/23 04:09	1

Method: SW846 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	0.50	UH	0.50	0.38	ug/L		05/12/23 15:06	05/15/23 16:38	1
Acenaphthene	0.50	UH	0.50	0.30	ug/L		05/12/23 15:06	05/15/23 16:38	1
Acenaphthylene	0.50	UH	0.50	0.34	ug/L		05/12/23 15:06	05/15/23 16:38	1
Anthracene	0.50	UH	0.50	0.39	ug/L		05/12/23 15:06	05/15/23 16:38	1
Benzo[a]anthracene	0.50	UH	0.50	0.40	ug/L		05/12/23 15:06	05/15/23 16:38	1
Benzo[a]pyrene	0.50	UH	0.50	0.33	ug/L		05/12/23 15:06	05/15/23 16:38	1
Benzo[b]fluoranthene	0.50	UH	0.50	0.30	ug/L		05/12/23 15:06	05/15/23 16:38	1
Benzo[g,h,i]perylene	0.50	UH	0.50	0.37	ug/L		05/12/23 15:06	05/15/23 16:38	1
Benzo[k]fluoranthene	0.50	UH	0.50	0.085	ug/L		05/12/23 15:06	05/15/23 16:38	1
Chrysene	0.50	UH	0.50	0.32	ug/L		05/12/23 15:06	05/15/23 16:38	1
Dibenz(a,h)anthracene	0.50	UH	0.50	0.33	ug/L		05/12/23 15:06	05/15/23 16:38	1
Fluoranthene	0.50	UH	0.50	0.36	ug/L		05/12/23 15:06	05/15/23 16:38	1

Eurofins Buffalo

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Client Sample ID: MW-13 Date Collected: 05/03/23 10:50 Date Received: 05/03/23 13:40

Lab Sample ID: 480-208520-4 Matrix: Ground Water

Method: SW846 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH - RE (Continued) Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac D Fluorene 0.50 UH 0.50 0.37 ug/L 05/12/23 15:06 05/15/23 16:38 1 0.50 Indeno[1,2,3-cd]pyrene 0.50 U H 05/12/23 15:06 05/15/23 16:38 0.44 ug/L 1 Naphthalene 0.50 UH 0.50 0.42 ug/L 05/12/23 15:06 05/15/23 16:38 1 Phenanthrene 0.50 UH 0.50 0.38 ug/L 05/12/23 15:06 05/15/23 16:38 1 Pyrene 0.50 UH 0.50 0.36 ug/L 05/12/23 15:06 05/15/23 16:38 1 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 97 48 - 120 05/12/23 15:06 05/15/23 16:38 2-Fluorobiphenyl (Surr) 1 Nitrobenzene-d5 (Surr) 81 46 - 120 05/12/23 15:06 05/15/23 16:38 1 p-Terphenyl-d14 (Surr) 54 24 - 136 05/12/23 15:06 05/15/23 16:38 1 **General Chemistry** Dil Fac Analyte **Result Qualifier** RL MDL Unit Prepared D Analyzed 0.010 Cyanide, Total (SW846 9012B) 0.010 U 0.0041 mg/L 05/15/23 13:13 1 Cyanide, Free (SW846 9016) 5.0 U 5.0 2.3 ug/L 05/10/23 13:41 05/10/23 20:05 1

Job ID: 480-208476-1 SDG: 480-208476-1

Client Sample ID: TB Date Collected: 05/03/23 00:00 Date Received: 05/03/23 13:40

Lab Sample ID: 480-208520-5 Matrix: Water

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Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.41	ug/L			05/05/23 20:26	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			05/05/23 20:26	1
Toluene	1.0	U	1.0	0.51	ug/L			05/05/23 20:26	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			05/05/23 20:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		77 - 120					05/05/23 20:26	1
4-Bromofluorobenzene (Surr)	90		73 - 120					05/05/23 20:26	1
Dibromofluoromethane (Surr)	98		75 - 123					05/05/23 20:26	1
Toluene-d8 (Surr)	80		80 120					05/05/23 20.26	1

t/Site: Semi Annual t Sample ID: MW-07

Job ID: 480-208476-1 SDG: 480-208476-1

Client Sample ID: MW-07 Date Collected: 05/04/23 08:15 Date Received: 05/04/23 11:50

Lab Sample ID: 480-208567-1

Matrix: Water

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atile Organic	Compoun	ds by GC/MS						
Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1100		20	8.2	ug/L			05/05/23 21:32	20
1100		20	15	ug/L			05/05/23 21:32	20
16	J	20	10	ug/L			05/05/23 21:32	20
390		40	13	ug/L			05/05/23 21:32	20
%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
108		77 - 120					05/05/23 21:32	20
89		73 - 120					05/05/23 21:32	20
91		75 - 123					05/05/23 21:32	20
97		80 - 120					05/05/23 21:32	20
	atile Organic Result 1100 1100 16 390 <u>%Recovery</u> 108 89 91 97	atile Organic Compound Result Qualifier 1100 1100 16 J 390 <u>%Recovery</u> Qualifier 108 89 91 97	Atile Organic Compounds by GC/MS Result Qualifier RL 1100 20 1100 20 1100 20 16 J 20 390 40 %Recovery Qualifier Limits 108 77 - 120 89 73 - 120 91 75 - 123 97 80 - 120	Addition Addition	Addition Addition	atile Organic Compounds by GC/MS Result Qualifier RL MDL Unit D 1100 20 8.2 ug/L 1100 20 15 ug/L 1100 20 15 ug/L 16 J 20 10 ug/L 390 40 13 ug/L %Recovery Qualifier Limits 77 - 120 89 73 - 120 91 75 - 123 97 97 80 - 120	atile Organic Compounds by GC/MS Result Qualifier RL MDL Unit D Prepared 1100 20 8.2 ug/L ug/L <td>Adile Organic Compounds by GC/MS Result Qualifier RL MDL Unit D Prepared Analyzed 1100 20 8.2 ug/L 05/05/23 21:32 05/05/23 21:32 1100 20 15 ug/L 05/05/23 21:32 16 J 20 10 ug/L 05/05/23 21:32 390 40 13 ug/L 05/05/23 21:32 390 40 13 ug/L 05/05/23 21:32 %Recovery Qualifier Limits Prepared Analyzed 108 77 - 120 05/05/23 21:32 05/05/23 21:32 89 73 - 120 05/05/23 21:32 05/05/23 21:32 91 75 - 123 05/05/23 21:32 05/05/23 21:32 97 80 - 120 05/05/23 21:32 05/05/23 21:32</td>	Adile Organic Compounds by GC/MS Result Qualifier RL MDL Unit D Prepared Analyzed 1100 20 8.2 ug/L 05/05/23 21:32 05/05/23 21:32 1100 20 15 ug/L 05/05/23 21:32 16 J 20 10 ug/L 05/05/23 21:32 390 40 13 ug/L 05/05/23 21:32 390 40 13 ug/L 05/05/23 21:32 %Recovery Qualifier Limits Prepared Analyzed 108 77 - 120 05/05/23 21:32 05/05/23 21:32 89 73 - 120 05/05/23 21:32 05/05/23 21:32 91 75 - 123 05/05/23 21:32 05/05/23 21:32 97 80 - 120 05/05/23 21:32 05/05/23 21:32

Method: SW846 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	290		52	40	ug/L		05/05/23 07:32	05/11/23 04:37	100
Acenaphthene	140		52	31	ug/L		05/05/23 07:32	05/11/23 04:37	100
Acenaphthylene	52	U	52	35	ug/L		05/05/23 07:32	05/11/23 04:37	100
Anthracene	52	U *1	52	41	ug/L		05/05/23 07:32	05/11/23 04:37	100
Benzo[a]anthracene	52	U	52	42	ug/L		05/05/23 07:32	05/11/23 04:37	100
Benzo[a]pyrene	52	U	52	34	ug/L		05/05/23 07:32	05/11/23 04:37	100
Benzo[b]fluoranthene	52	U	52	31	ug/L		05/05/23 07:32	05/11/23 04:37	100
Benzo[g,h,i]perylene	52	U	52	39	ug/L		05/05/23 07:32	05/11/23 04:37	100
Benzo[k]fluoranthene	52	U	52	8.9	ug/L		05/05/23 07:32	05/11/23 04:37	100
Chrysene	52	U *1	52	33	ug/L		05/05/23 07:32	05/11/23 04:37	100
Dibenz(a,h)anthracene	52	U	52	34	ug/L		05/05/23 07:32	05/11/23 04:37	100
Fluoranthene	52	U *1	52	38	ug/L		05/05/23 07:32	05/11/23 04:37	100
Fluorene	52	U	52	39	ug/L		05/05/23 07:32	05/11/23 04:37	100
Indeno[1,2,3-cd]pyrene	52	U	52	46	ug/L		05/05/23 07:32	05/11/23 04:37	100
Naphthalene	2700	В	52	44	ug/L		05/05/23 07:32	05/11/23 04:37	100
Phenanthrene	52	U	52	40	ug/L		05/05/23 07:32	05/11/23 04:37	100
Pyrene	52	U	52	38	ug/L		05/05/23 07:32	05/11/23 04:37	100
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	17	S1-	48 - 120				05/05/23 07:32	05/11/23 04:37	100
Nitrobenzene-d5 (Surr)	76		46 - 120				05/05/23 07:32	05/11/23 04:37	100
p-Terphenyl-d14 (Surr)	48		24 - 136				05/05/23 07:32	05/11/23 04:37	100

Client Sample ID: MW-19 Date Collected: 05/04/23 10:50 Date Received: 05/04/23 11:50

Lab Sample ID: 480-208567-2 Matrix: Water

atrix: water

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Method: SW846 8260C - Volatile Organic Compounds by GC/MS										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	4200		100	41	ug/L			05/05/23 21:54	100	
Ethylbenzene	410		100	74	ug/L			05/05/23 21:54	100	
Toluene	100	U	100	51	ug/L			05/05/23 21:54	100	
Xylenes, Total	200	U	200	66	ug/L			05/05/23 21:54	100	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1,2-Dichloroethane-d4 (Surr)	99		77 - 120				-	05/05/23 21:54	100	
4-Bromofluorobenzene (Surr)	90		73 - 120					05/05/23 21:54	100	
Dibromofluoromethane (Surr)	92		75 - 123					05/05/23 21:54	100	
Toluene-d8 (Surr)	96		80 - 120					05/05/23 21:54	100	

Method: SW846 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	100	U	100	79	ug/L		05/05/23 07:32	05/11/23 05:04	200
Acenaphthene	100	U	100	63	ug/L		05/05/23 07:32	05/11/23 05:04	200
Acenaphthylene	100	U	100	71	ug/L		05/05/23 07:32	05/11/23 05:04	200
Anthracene	100	U *1	100	81	ug/L		05/05/23 07:32	05/11/23 05:04	200
Benzo[a]anthracene	100	U	100	83	ug/L		05/05/23 07:32	05/11/23 05:04	200
Benzo[a]pyrene	100	U	100	69	ug/L		05/05/23 07:32	05/11/23 05:04	200
Benzo[b]fluoranthene	100	U	100	63	ug/L		05/05/23 07:32	05/11/23 05:04	200
Benzo[g,h,i]perylene	100	U	100	77	ug/L		05/05/23 07:32	05/11/23 05:04	200
Benzo[k]fluoranthene	100	U	100	18	ug/L		05/05/23 07:32	05/11/23 05:04	200
Chrysene	100	U *1	100	67	ug/L		05/05/23 07:32	05/11/23 05:04	200
Dibenz(a,h)anthracene	100	U	100	69	ug/L		05/05/23 07:32	05/11/23 05:04	200
Fluoranthene	100	U *1	100	75	ug/L		05/05/23 07:32	05/11/23 05:04	200
Fluorene	100	U	100	77	ug/L		05/05/23 07:32	05/11/23 05:04	200
Indeno[1,2,3-cd]pyrene	100	U	100	92	ug/L		05/05/23 07:32	05/11/23 05:04	200
Naphthalene	3200	В	100	88	ug/L		05/05/23 07:32	05/11/23 05:04	200
Phenanthrene	100	U	100	79	ug/L		05/05/23 07:32	05/11/23 05:04	200
Pyrene	100	U	100	75	ug/L		05/05/23 07:32	05/11/23 05:04	200
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	0	S1-	48 - 120				05/05/23 07:32	05/11/23 05:04	200
Nitrobenzene-d5 (Surr)	60		46 - 120				05/05/23 07:32	05/11/23 05:04	200
p-Terphenyl-d14 (Surr)	53		24 - 136				05/05/23 07:32	05/11/23 05:04	200

Job ID: 480-208476-1 SDG: 480-208476-1

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Project/Site: Semi Annual Client Sample ID: MW-12

Client: GEI Consultants, Inc.

Lab Sample ID: 480-208567-3 Matrix: Water

Date Collected: 05/04/23 09:30
Date Received: 05/04/23 11:50

General Chemistry Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.69	B ^2	0.010	0.0041	mg/L		·	05/16/23 10:06	1
Cyanide, Free (SW846 9016)	13.3		5.0	2.3	ug/L		05/10/23 13:41	05/10/23 20:05	1
General Chemistry - RA									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.72	НВ	0.020	0.0082	mg/L			05/30/23 12:02	2

Client: GEI Consultants, Inc. Project/Site: Semi Annual							,	Job ID: 480-20 SDG: 480-20)8476-1)8476-1
Client Sample ID: MW-16						La	ab Sample	ID: 480-208	8567-4
Date Collected: 05/04/23 09:20 Date Received: 05/04/23 11:50								Matrix	: Water
General Chemistry Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	2.9	B ^2	0.010	0.0041	mg/L			05/16/23 10:09	1
Cyanide, Free (SW846 9016)	59.1		5.0	2.3	ug/L		05/10/23 13:41	05/10/23 20:05	1
General Chemistry - RA									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	3.1	НВ	0.10	0.041	mg/L			05/30/23 12:05	10

6

Client Sample ID: TRIP BLANK Date Collected: 05/04/23 00:00 Date Received: 05/04/23 11:50

Lab Sample ID: 480-208567-5

Matrix: Water

5 6 7

Method: SW846 8260C - Vo	latile Organic	Compound	ds by GC/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.41	ug/L			05/05/23 22:17	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			05/05/23 22:17	1
Toluene	1.0	U	1.0	0.51	ug/L			05/05/23 22:17	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			05/05/23 22:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		77 - 120					05/05/23 22:17	1
4-Bromofluorobenzene (Surr)	89		73 - 120					05/05/23 22:17	1
Dibromofluoromethane (Surr)	07		75 - 123					05/05/23 22:17	1
Dibromonuoromethane (Sun)	07		10 = 120						

Surrogate Summary

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

			Pe	ercent Surro	ogate Recovery	(Acceptance
		DCA	BFB	DBFM	TOL	
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(75-123)	(80-120)	
480-208476-1	MW-10	104	91	103	100	
480-208476-3	MW-23	101	92	99	96	
480-208476-7	MW-11A	96	90	97	99	
480-208476-8	Duplicate	101	91	100	100	
480-208520-3	MW-17	94	97	94	97	
480-208520-4	MW-13	100	91	101	99	
Surrogate Legend						
DCA = 1,2-Dichloroeth	ane-d4 (Surr)					

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

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

Matrix: Surface Water

			Pe	ercent Surro	ogate Reco
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(75-123)	(80-120)
480-208520-1	SW-01	98	90	101	99
480-208520-2	SW-02	102	89	102	98

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 Percent Surrogate Recovery (Acceptance Limits) DCA BFB DBFM TOL (75-123) (80-120) **Client Sample ID** (77-120) (73-120) Lab Sample ID 480-208476-9 EB 101 97 98 98 480-208520-5 ΤВ 98 99 90 98 MW-07 480-208567-1 108 89 91 97 480-208567-2 MW-19 90 92 96 99 480-208567-5 TRIP BLANK 101 89 87 97

LCS 480-668087/4	Lab Control Sample	97	92	102	100	
LCS 480-668347/32	Lab Control Sample	103	88	95	95	
LCS 480-668349/6	Lab Control Sample	95	97	95	99	
MB 480-668087/6	Method Blank	102	92	98	100	
MB 480-668347/8	Method Blank	106	88	95	96	
MB 480-668349/8	Method Blank	98	90	98	98	

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

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

Prep Type: Total/NA

Surrogate Summary

Client: GEI Consultants, Inc. Project/Site: Semi Annual

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

			Pe	ercent Surro
		FBP	NBZ	TPHd14
Lab Sample ID	Client Sample ID	(48-120)	(46-120)	(24-136)
480-208476-1	MW-10	94	80	59
480-208476-1 - RE	MW-10	96	77	52
480-208476-3	MW-23	83	68	49
480-208476-7	MW-11A	95	81	61
480-208476-7 - RE	MW-11A	94	78	52
480-208476-8	Duplicate	88	75	45
480-208520-3	MW-17	93	76	64
480-208520-4	MW-13	110	89	69
480-208520-4 - RE	MW-13	97	81	54

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)

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

			Pe	ercent Surro
		FBP	NBZ	TPHd14
Lab Sample ID	Client Sample ID	(48-120)	(46-120)	(24-136)
480-208520-1	SW-01	88	73	55
480-208520-1 - RE	SW-01	97	79	62
480-208520-2	SW-02	98	82	63
480-208520-2 - RE	SW-02	101	83	61

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)

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

			Pe	ercent Surr
		FBP	NBZ	TPHd14
Lab Sample ID	Client Sample ID	(48-120)	(46-120)	(24-136)
480-208476-9	EB	87	72	68
480-208567-1	MW-07	17 S1-	76	48
480-208567-2	MW-19	0 S1-	60	53
LCS 480-668289/2-A	Lab Control Sample	101	90	88
LCS 480-669345/2-A	Lab Control Sample	94	87	80
LCSD 480-668289/3-A	Lab Control Sample Dup	87	81	73
LCSD 480-669345/3-A	Lab Control Sample Dup	96	88	85
MB 480-668289/1-A	Method Blank	85	70	69
MB 480-669345/1-A	Method Blank	98	79	74

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)

NBZ = Nitrobenzene-d5 (Surr)

TPHd14 = p-Terphenyl-d14 (Surr)

SDG: 480-208476-1 H Prep Type: Total/NA

Job ID: 480-208476-1

Client Sample ID: Lab Control Sample

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Type: Total/NA

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

MR MR

Lab Sample ID: MB 480-668087/6 **Matrix: Water**

Analysis Batch: 668087

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.41	ug/L			05/03/23 23:32	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			05/03/23 23:32	1
Toluene	1.0	U	1.0	0.51	ug/L			05/03/23 23:32	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			05/03/23 23:32	1

Surrogate	%Recovery (Qualifier	Limits	I	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 120			05/03/23 23:32	1
4-Bromofluorobenzene (Surr)	92		73 - 120			05/03/23 23:32	1
Dibromofluoromethane (Surr)	98		75 - 123			05/03/23 23:32	1
Toluene-d8 (Surr)	100		80 - 120			05/03/23 23:32	1

Lab Sample ID: LCS 480-668087/4 Matrix: Water

Analysis Batch: 668087

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene		27.4		ug/L		110	71_124	
Ethylbenzene	25.0	25.8		ug/L		103	77 - 123	
Toluene	25.0	26.9		ug/L		108	80 - 122	
Xvlenes, Total	50.0	53.5		ua/L		107	76 - 122	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		77 - 120
4-Bromofluorobenzene (Surr)	92		73 - 120
Dibromofluoromethane (Surr)	102		75 - 123
Toluene-d8 (Surr)	100		80 - 120

Lab Sample ID: MB 480-668347/8 Matrix: Water Analysis Batch: 668347

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.41	ug/L			05/05/23 13:51	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			05/05/23 13:51	1
Toluene	1.0	U	1.0	0.51	ug/L			05/05/23 13:51	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			05/05/23 13:51	1

	MB	MB				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		77 - 120		05/05/23 13:51	1
4-Bromofluorobenzene (Surr)	88		73 - 120		05/05/23 13:51	1
Dibromofluoromethane (Surr)	95		75 - 123		05/05/23 13:51	1
Toluene-d8 (Surr)	96		80 - 120		05/05/23 13:51	1

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QC Sample Results

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

Lab Sample ID: LCS 480-	668347/32						CI	ient S	am	ple ID:	Lab Control S	Sample	
Matrix: Water											Prep Type: To	otal/NA	
Analysis Batch: 668347													
			Spike	LCS	S LCS			_	_	~-	%Rec		
Analyte			Added	Resul	t Qual	itier	Unit	[D	%Rec	Limits		
Benzene			25.0	23.6	5		ug/L			94	71 - 124		
Ethylbenzene			25.0	21.2	2		ug/L			85	77 - 123		
Toluene			25.0	22.5	5		ug/L			90	80 - 122		
Xylenes, Total			50.0	42.2	2		ug/L			84	76 - 122		
	LCS	LCS											8
Surrogate	%Recoverv	Qualifier	Limits										
1.2-Dichloroethane-d4 (Surr)	103		77 - 120										9
4-Bromofluorobenzene (Surr)	88		73 - 120										
Dibromofluoromethane (Surr)	95		75 - 123										
Toluene-d8 (Surr)	95		80 - 120										
Lab Sample ID: MB 480-6	68349/8							CI	lier	nt Sam	ple ID: Method	Blank	
Matrix: Water											Prep Type: To	otal/NA	
Analysis Batch: 668349													
-	I	MB MB											
Analyte	Res	ult Quali	ier	RL	MDL	Unit		D	Pre	epared	Analyzed	Dil Fac	
Benzene		1.0 U		1.0	0.41	ug/L					05/05/23 13:55	1	
Ethylbenzene		1.0 U		1.0	0.74	ug/L					05/05/23 13:55	1	
Toluene		1.0 U		1.0	0.51	ug/L					05/05/23 13:55	1	
Xylenes, Total		2.0 U		2.0	0.66	ug/L					05/05/23 13:55	1	
		MR MR											
Surrogate	%Recov	erv Quali	fier Lim	its					Pre	enared	Analyzed	Dil Fac	
1 2-Dichloroethane-d4 (Surr)		<u>98</u>	77-	120						purou	05/05/23 13:55	1	
4-Bromofluorobenzene (Surr)		90	73 -	120							05/05/23 13:55	1	
Dibromofluoromethane (Surr)		98	78-	123							05/05/23 13:55	1	
Toluene-d8 (Surr)		98	- 80 -	120							05/05/23 13:55		
		00	00 -								00,00,20 10.00		
Lab Sample ID: LCS 480-	668349/6						CI	ient S	am	ple ID:	Lab Control S	Sample	
Matrix: Water										· · ·	Prep Type: To	otal/NA	
Analysis Batch: 668349													
			Spike	LCS	LCS						%Rec		
Analyte			Added	Resul	t Qual	ifier	Unit	[D	%Rec	Limits		
Benzene			25.0	23.0	5		ug/L			92	71_124		
Ethylbenzene			25.0	22.2	2		ug/L			89	77 - 123		
Toluene			25.0	22.7	7		ug/L			91	80 - 122		
Vulanaa Tatal			50.0	15 '						00	76 122		

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	95		77 - 120
4-Bromofluorobenzene (Surr)	97		73 - 120
Dibromofluoromethane (Surr)	95		75 - 123
Toluene-d8 (Surr)	99		80 - 120

Prep Type: Total/NA

Prep Batch: 668289

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Client Sample ID: Method Blank

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

Lab Sample ID: MB 480-668289/1-A Matrix: Water

Analysis Batch: 668859

	MB	МВ							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	0.50	U	0.50	0.38	ug/L		05/05/23 07:32	05/10/23 22:11	1
Acenaphthene	0.50	U	0.50	0.30	ug/L		05/05/23 07:32	05/10/23 22:11	1
Acenaphthylene	0.50	U	0.50	0.34	ug/L		05/05/23 07:32	05/10/23 22:11	1
Anthracene	0.50	U	0.50	0.39	ug/L		05/05/23 07:32	05/10/23 22:11	1
Benzo[a]anthracene	0.50	U	0.50	0.40	ug/L		05/05/23 07:32	05/10/23 22:11	1
Benzo[a]pyrene	0.50	U	0.50	0.33	ug/L		05/05/23 07:32	05/10/23 22:11	1
Benzo[b]fluoranthene	0.50	U	0.50	0.30	ug/L		05/05/23 07:32	05/10/23 22:11	1
Benzo[g,h,i]perylene	0.50	U	0.50	0.37	ug/L		05/05/23 07:32	05/10/23 22:11	1
Benzo[k]fluoranthene	0.50	U	0.50	0.085	ug/L		05/05/23 07:32	05/10/23 22:11	1
Chrysene	0.50	U	0.50	0.32	ug/L		05/05/23 07:32	05/10/23 22:11	1
Dibenz(a,h)anthracene	0.50	U	0.50	0.33	ug/L		05/05/23 07:32	05/10/23 22:11	1
Fluoranthene	0.50	U	0.50	0.36	ug/L		05/05/23 07:32	05/10/23 22:11	1
Fluorene	0.50	U	0.50	0.37	ug/L		05/05/23 07:32	05/10/23 22:11	1
Indeno[1,2,3-cd]pyrene	0.50	U	0.50	0.44	ug/L		05/05/23 07:32	05/10/23 22:11	1
Naphthalene	0.524		0.50	0.42	ug/L		05/05/23 07:32	05/10/23 22:11	1
Phenanthrene	0.50	U	0.50	0.38	ug/L		05/05/23 07:32	05/10/23 22:11	1
Pyrene	0.50	U	0.50	0.36	ug/L		05/05/23 07:32	05/10/23 22:11	1
	MB	МВ							

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	85		48 - 120	05/05/23 07:32	05/10/23 22:11	1
Nitrobenzene-d5 (Surr)	70		46 - 120	05/05/23 07:32	05/10/23 22:11	1
p-Terphenyl-d14 (Surr)	69		24 - 136	05/05/23 07:32	05/10/23 22:11	1

Lab Sample ID: LCS 480-668289/2-A Matrix: Water Analysis Batch: 668859

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

Prep Batch: 668289

	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
2-Methylnaphthalene	32.0	32.4		ug/L		101	48 - 120
Acenaphthene	32.0	32.1		ug/L		100	60 - 120
Acenaphthylene	32.0	36.7		ug/L		115	63 - 120
Anthracene	32.0	35.7		ug/L		111	69 - 131
Benzo[a]anthracene	32.0	32.4		ug/L		101	62 - 142
Benzo[a]pyrene	32.0	31.1		ug/L		97	46 - 156
Benzo[b]fluoranthene	32.0	31.4		ug/L		98	50 - 149
Benzo[g,h,i]perylene	32.0	29.7		ug/L		93	34 - 189
Benzo[k]fluoranthene	32.0	31.2		ug/L		98	47 _ 147
Chrysene	32.0	32.8		ug/L		102	69 - 140
Dibenz(a,h)anthracene	32.0	29.9		ug/L		93	35 - 176
Fluoranthene	32.0	35.1		ug/L		110	67 - 133
Fluorene	32.0	33.8		ug/L		105	66 - 129
Indeno[1,2,3-cd]pyrene	32.0	30.1		ug/L		94	57 _ 161
Naphthalene	32.0	30.6		ug/L		96	48 - 120
Phenanthrene	32.0	34.4		ug/L		107	67 _ 130
Pyrene	32.0	34.7		ug/L		108	58 - 136
100							

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
2-Fluorobiphenyl (Surr)	101		48 - 120

Prep Type: Total/NA

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

Lab Sample ID: LCS 480-668289/2-A Matrix: Water

Analysis Batch: 668859

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
Nitrobenzene-d5 (Surr)	90		46 - 120
p-Terphenyl-d14 (Surr)	88		24 - 136

Lab Sample ID: LCSD 480-668289/3-A Matrix: Water Analysis Ratch: 669950

Analysis Batch: 668859							Prep Batch: 668289		
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
2-Methylnaphthalene	32.0	28.6		ug/L		89	48 - 120	12	21
Acenaphthene	32.0	27.2		ug/L		85	60 - 120	16	24
Acenaphthylene	32.0	31.3		ug/L		98	63 - 120	16	18
Anthracene	32.0	30.4	*1	ug/L		95	69 - 131	16	15
Benzo[a]anthracene	32.0	27.8		ug/L		87	62 - 142	15	15
Benzo[a]pyrene	32.0	27.0		ug/L		84	46 - 156	14	15
Benzo[b]fluoranthene	32.0	28.2		ug/L		88	50 - 149	11	15
Benzo[g,h,i]perylene	32.0	25.5		ug/L		80	34 - 189	15	15
Benzo[k]fluoranthene	32.0	26.2		ug/L		82	47 - 147	17	22
Chrysene	32.0	27.5	*1	ug/L		86	69 - 140	17	15
Dibenz(a,h)anthracene	32.0	25.9		ug/L		81	35 - 176	14	15
Fluoranthene	32.0	29.8	*1	ug/L		93	67 - 133	17	15
Fluorene	32.0	28.9		ug/L		90	66 - 129	15	15
Indeno[1,2,3-cd]pyrene	32.0	26.0		ug/L		81	57 - 161	15	15
Naphthalene	32.0	27.8		ug/L		87	48 - 120	10	29
Phenanthrene	32.0	30.4		ug/L		95	67 - 130	12	15
Pyrene	32.0	30.2		ug/L		94	58 - 136	14	25

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
2-Fluorobiphenyl (Surr)	87		48 - 120
Nitrobenzene-d5 (Surr)	81		46 - 120
p-Terphenyl-d14 (Surr)	73		24 - 136

Lab Sample ID: MB 480-669345/1-A Matrix: Water Analysis Batch: 669481

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	0.50	U	0.50	0.38	ug/L		05/12/23 15:06	05/15/23 13:26	1
Acenaphthene	0.50	U	0.50	0.30	ug/L		05/12/23 15:06	05/15/23 13:26	1
Acenaphthylene	0.50	U	0.50	0.34	ug/L		05/12/23 15:06	05/15/23 13:26	1
Anthracene	0.50	U	0.50	0.39	ug/L		05/12/23 15:06	05/15/23 13:26	1
Benzo[a]anthracene	0.50	U	0.50	0.40	ug/L		05/12/23 15:06	05/15/23 13:26	1
Benzo[a]pyrene	0.50	U	0.50	0.33	ug/L		05/12/23 15:06	05/15/23 13:26	1
Benzo[b]fluoranthene	0.50	U	0.50	0.30	ug/L		05/12/23 15:06	05/15/23 13:26	1
Benzo[g,h,i]perylene	0.50	U	0.50	0.37	ug/L		05/12/23 15:06	05/15/23 13:26	1
Benzo[k]fluoranthene	0.50	U	0.50	0.085	ug/L		05/12/23 15:06	05/15/23 13:26	1
Chrysene	0.50	U	0.50	0.32	ug/L		05/12/23 15:06	05/15/23 13:26	1
Dibenz(a,h)anthracene	0.50	U	0.50	0.33	ug/L		05/12/23 15:06	05/15/23 13:26	1
Fluoranthene	0.50	U	0.50	0.36	ug/L		05/12/23 15:06	05/15/23 13:26	1

Eurofins Buffalo

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 669345

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Prep Type: Total/NA Prep Batch: 668289

Client Sample ID: Lab Control Sample Dup

Page	40	of	71	
i ugo	-10	01		

Job ID: 480-208476-1 SDG: 480-208476-1

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

Lab Sample ID: MB 480-669345/1-A **Matrix: Water**

Analysis Batch: 669481

Client Sample ID: Method Blank Prep Type: Total/NA Prep Batch: 669345

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	0.50	U	0.50	0.37	ug/L		05/12/23 15:06	05/15/23 13:26	1
Indeno[1,2,3-cd]pyrene	0.50	U	0.50	0.44	ug/L		05/12/23 15:06	05/15/23 13:26	1
Naphthalene	0.50	U	0.50	0.42	ug/L		05/12/23 15:06	05/15/23 13:26	1
Phenanthrene	0.50	U	0.50	0.38	ug/L		05/12/23 15:06	05/15/23 13:26	1
Pyrene	0.50	U	0.50	0.36	ug/L		05/12/23 15:06	05/15/23 13:26	1
	МВ	МВ							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	98		48 - 120				05/12/23 15:06	05/15/23 13:26	1

46 - 120

24 - 136

79

74

Lab Sample ID: LCS 480-669345/2-A **Matrix: Water**

Analysis Batch: 669481

Nitrobenzene-d5 (Surr)

p-Terphenyl-d14 (Surr)

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

05/12/23 15:06 05/15/23 13:26

05/12/23 15:06 05/15/23 13:26

Prep Type: Total/NA

5

8

13

1

1

Analysis Batch: 669481							Prep Batch: 669345
-	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
2-Methylnaphthalene	32.0	31.4		ug/L		98	48 - 120
Acenaphthene	32.0	30.4		ug/L		95	60 - 120
Acenaphthylene	32.0	34.4		ug/L		107	63 - 120
Anthracene	32.0	34.1		ug/L		106	69 - 131
Benzo[a]anthracene	32.0	31.5		ug/L		98	62 - 142
Benzo[a]pyrene	32.0	30.8		ug/L		96	46 - 156
Benzo[b]fluoranthene	32.0	30.5		ug/L		95	50 - 149
Benzo[g,h,i]perylene	32.0	29.3		ug/L		92	34 - 189
Benzo[k]fluoranthene	32.0	29.6		ug/L		93	47 _ 147
Chrysene	32.0	31.8		ug/L		100	69 - 140
Dibenz(a,h)anthracene	32.0	29.7		ug/L		93	35 - 176
Fluoranthene	32.0	34.5		ug/L		108	67 - 133
Fluorene	32.0	32.0		ug/L		100	66 - 129
Indeno[1,2,3-cd]pyrene	32.0	29.7		ug/L		93	57 - 161
Naphthalene	32.0	29.1		ug/L		91	48 - 120
Phenanthrene	32.0	31.9		ug/L		100	67 - 130
Pyrene	32.0	32.9		ug/L		103	58 - 136

	LCS	LCS			
Surrogate	%Recovery	Qualifier	Limits		
2-Fluorobiphenyl (Surr)	94		48 - 120		
Nitrobenzene-d5 (Surr)	87		46 - 120		
p-Terphenyl-d14 (Surr)	80		24 - 136		

Lab Sample ID: LCSD 480-669345/3-A **Matrix: Water** Analysis Batch: 669481

Analysis Batch: 669481							Prep Ba	itch: 60	69345
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
2-Methylnaphthalene	32.0	31.9		ug/L		100	48 - 120	2	21
Acenaphthene	32.0	31.3		ug/L		98	60 - 120	3	24
Acenaphthylene	32.0	35.5		ug/L		111	63 - 120	3	18
Anthracene	32.0	34.7		ug/L		108	69 - 131	2	15

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Prep Type: Total/NA

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

Lab Sample ID: LCSD 480-669345/3-A
Matrix: Water
Analysis Batch: 669481

Client Sample ID: Lab	Control Sample Dup
	Prep Type: Total/NA
	Prep Batch: 669345

Analysis Batch: 66948	1								Prep Ba	atch: 66	69345
			Spike	LCSD	LCSD				%Rec		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzo[a]anthracene			32.0	33.0		ug/L		103	62 - 142	5	15
Benzo[a]pyrene			32.0	31.3		ug/L		98	46 - 156	2	15
Benzo[b]fluoranthene			32.0	31.8		ug/L		100	50 - 149	4	15
Benzo[g,h,i]perylene			32.0	30.1		ug/L		94	34 - 189	3	15
Benzo[k]fluoranthene			32.0	30.0		ug/L		94	47 - 147	1	22
Chrysene			32.0	32.9		ug/L		103	69 - 140	3	15
Dibenz(a,h)anthracene			32.0	29.9		ug/L		93	35 - 176	1	15
Fluoranthene			32.0	35.3		ug/L		110	67 - 133	2	15
Fluorene			32.0	32.9		ug/L		103	66 - 129	3	15
Indeno[1,2,3-cd]pyrene			32.0	30.1		ug/L		94	57 - 161	2	15
Naphthalene			32.0	29.2		ug/L		91	48 - 120	0	29
Phenanthrene			32.0	32.3		ug/L		101	67 - 130	1	15
Pyrene			32.0	33.5		ug/L		105	58 - 136	2	25
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
2-Fluorobiphenyl (Surr)	96		48 - 120								
Nitrobenzene-d5 (Surr)	88		46 - 120								
p-Terphenyl-d14 (Surr)	85		24 - 136								

Method: 9012B - Cyanide, Total and/or Amenable

Lab Sample ID: MB 480-669455/103 Matrix: Water Analysis Batch: 669455									Clie	ent Sam	ple ID: Methoo Prep Type: To	l Blank otal/NA	
	MB	МВ											
Analyte	Result	Qualifier		RL	N	IDL	Unit		D	Ρ	repared	Analyzed	Dil Fac
Cyanide, Total	0.0134		0.	010	0.0	041	mg/L		_			05/12/23 16:49	1
_ Lab Sample ID: MB 480-669455/131										Clie	nt Sam	ple ID: Method	l Blank
Matrix: Water												Prep Type: To	otal/NA
Analysis Batch: 669455													
	MB	MB											
Analyte	Result	Qualifier		RL	N	IDL	Unit		D	Ρ	repared	Analyzed	Dil Fac
Cyanide, Total	0.0132		0.	010	0.0	041	mg/L					05/12/23 18:04	1
Lab Sample ID: MB 480-669455/75										Clie	nt Sam	ple ID: Method	Blank
Matrix: Water												Prep Type: To	otal/NA
Analysis Batch: 669455													
	MB	MB											
Analyte	Result	Qualifier		RL	N	IDL	Unit		D	Ρ	repared	Analyzed	Dil Fac
Cyanide, Total	0.0119		0.	010	0.0	041	mg/L					05/12/23 15:35	1
Lab Sample ID: HLCS 480-669455/22								Cli	ent	Sar	nple ID:	: Lab Control S	Sample
Matrix: Water												Prep Type: To	otal/NA
Analysis Batch: 669455													
			Spike		HLCS	HLC	s					%Rec	
Analyte			Added		Result	Qua	lifier	Unit		D	%Rec	Limits	
Cyanide, Total			0.400		0.385			mg/L			96	90 - 110	

Method: 9012B - Cyanide, Total and/or Amenable (Continued)

Matrix: Water)4					Clien	it Sai	mple ID:	: Lab Control S Prep Type: To	Sample otal/NA
Analysis Batch: 669455			Sniko	1.09	1.09				% Poc	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
Cyanide, Total			0.250	0.233		mg/L		93	90 - 110	
Lab Sample ID: LCS 480-669455/13 Matrix: Water	32					Clien	it Sa	mple ID	: Lab Control S Prep Type: To	Sample otal/NA
Analysis Batch. 009455			Spike	LCS	LCS				%Rec	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
Cyanide, Total		<u></u>	0.250	0.245		mg/L		98	90 - 110	
Lab Sample ID: LCS 480-669455/76 Matrix: Water Analysis Batch: 669455	3					Clien	it Sai	mple ID:	: Lab Control S Prep Type: To	Sample otal/NA
			Spike	LCS	LCS				%Rec	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
Cyanide, Total			0.250	0.224		mg/L		90	90 - 110	
Lab Sample ID: MB 480-669584/21 Matrix: Water Analysis Batch: 669584							Clie	ent Sam	ple ID: Method Prep Type: To	l Blank otal/NA
	MB	MB				_	_			
Analyte	Result	Qualifier			MDL Unit	D	P	repared	Analyzed	Dil Fac
Lab Sample ID: MB 480-669584/49					-		Clie	ent Sam	ple ID: Method	Blank
Matrix: Water Analysis Batch: 669584									Prep Type: To	otal/NA
Matrix: Water Analysis Batch: 669584	MB	MB	D		MDI Unit	n		roparad	Prep Type: To	Dil Eac
Matrix: Water Analysis Batch: 669584 Analyte	MB Result	MB Qualifier			MDL Unit	D	P	repared	Prep Type: To 	Dil Fac
Matrix: Water Analysis Batch: 669584 Analyte Cyanide, Total Lab Sample ID: MB 480-669584/77 Matrix: Water Analysis Batch: 669584	MB Result 0.0145	MB Qualifier		0.0	MDL Unit	<u>D</u>	Clie	repared ent Sam	Prep Type: To Analyzed 05/15/23 12:23 ple ID: Method Prep Type: To	Dil Fac 1 I Blank otal/NA
Matrix: Water Analysis Batch: 669584 Analyte Cyanide, Total Lab Sample ID: MB 480-669584/77 Matrix: Water Analysis Batch: 669584	MB Result 0.0145 MB	MB Qualifier MB	Ri 0.010	0.0	MDL Unit 0041 mg/L	<u>D</u>	Clie	repared ent Sam	Prep Type: To Analyzed 05/15/23 12:23 ple ID: Method Prep Type: To	Dil Fac 1 Blank Dtal/NA
Matrix: Water Analysis Batch: 669584 Analyte Cyanide, Total Lab Sample ID: MB 480-669584/77 Matrix: Water Analysis Batch: 669584 Analyte Cyanide, Total	MB Result 0.0145 MB Result	MB Qualifier MB Qualifier		0.0	MDL Unit 0041 mg/L	<u>D</u>	Clie	repared ent Sam repared	Prep Type: To <u>Analyzed</u> 05/15/23 12:23 ple ID: Method Prep Type: To <u>Analyzed</u> 05/15/23 13:40	Dil Fac 1 Blank Dil Fac Dil Fac
Matrix: Water Analysis Batch: 669584 Analyte Cyanide, Total Lab Sample ID: MB 480-669584/77 Matrix: Water Analysis Batch: 669584 Analyte Cyanide, Total Lab Sample ID: HLCS 480-669584/2 Matrix: Water Analysis Batch: 669584	MB Result 0.0145 MB Result 0.0142 22	MB Qualifier MB Qualifier		0.0.0	MDL Unit 0041 mg/L MDL Unit 0041 mg/L	D Clien	Clie P	repared ent Sam repared mple ID	Prep Type: To <u>Analyzed</u> 05/15/23 12:23 ple ID: Method Prep Type: To <u>Analyzed</u> 05/15/23 13:40 : Lab Control S Prep Type: To	Dil Fac 1 Blank Dil Fac 1 Dil Fac 1 Sample Dall/NA
Matrix: Water Analysis Batch: 669584 Analyte Cyanide, Total Lab Sample ID: MB 480-669584/77 Matrix: Water Analysis Batch: 669584 Analyte Cyanide, Total Lab Sample ID: HLCS 480-669584/2 Matrix: Water Analysis Batch: 669584	MB Result 0.0145 MB Result 0.0142 22	MB Qualifier MB Qualifier	Ri Ri 0.010 Spike	0 0.0	MDL Unit 0041 mg/L MDL Unit 0041 mg/L	D	Clie	repared ent Sam repared mple ID	Prep Type: To Analyzed 05/15/23 12:23 ple ID: Method Prep Type: To Analyzed 05/15/23 13:40 : Lab Control S Prep Type: To %Rec	Dil Fac 1 Blank otal/NA Dil Fac 1 Sample otal/NA
Matrix: Water Analysis Batch: 669584 Analyte Cyanide, Total Lab Sample ID: MB 480-669584/77 Matrix: Water Analysis Batch: 669584 Analyte Cyanide, Total Lab Sample ID: HLCS 480-669584/7 Matrix: Water Analysis Batch: 669584 Analyte	MB Result 0.0145 MB Result 0.0142 22	MB Qualifier MB Qualifier			MDL Unit 0041 mg/L MDL Unit 0041 mg/L HLCS Qualifier	D Clien	Clie P t Sal	repared ent Sam repared mple ID	Prep Type: To Analyzed 05/15/23 12:23 ple ID: Method Prep Type: To Analyzed 05/15/23 13:40 : Lab Control S Prep Type: To %Rec Limits	Dil Fac 1 Blank Dil Fac 1 Dil Fac 1 Sample Dtal/NA
Matrix: Water Analysis Batch: 669584 Analyte Cyanide, Total Lab Sample ID: MB 480-669584/77 Matrix: Water Analysis Batch: 669584 Analyte Cyanide, Total Lab Sample ID: MLCS 480-669584/77 Matrix: Water Analyte Cyanide, Total Lab Sample ID: HLCS 480-669584/77 Matrix: Water Analysis Batch: 669584 Analysis Batch: 669584 Analyte Cyanide, Total	MB Result 0.0145 MB Result 0.0142 22	MB Qualifier MB Qualifier	RI 0.010 RI 0.010 		MDL Unit 0041 mg/L MDL Unit 0041 mg/L HLCS Qualifier	D Clien Unit mg/L	Clic P t Sal	repared ent Sam repared mple ID <u>%Rec</u> 98	Analyzed 05/15/23 12:23 ple ID: Method Prep Type: To 05/15/23 13:40 Lab Control S Prep Type: To %Rec Limits 90 - 110	Dil Fac 1 I Blank otal/NA Dil Fac 1 Sample otal/NA
Matrix: Water Analysis Batch: 669584 Analyte Cyanide, Total Lab Sample ID: MB 480-669584/77 Matrix: Water Analysis Batch: 669584 Analyte Cyanide, Total Lab Sample ID: HLCS 480-669584/2 Matrix: Water Analysis Batch: 669584 Analysis Batch: 669584 Analysis Batch: 669584 Analyte Cyanide, Total Lab Sample ID: LCS 480-669584/23 Matrix: Water Analysis Batch: 669584	MB Result 0.0145 MB Result 0.0142 22	MB Qualifier MB Qualifier	RI 0.010 0.010 Spike 0.400) 0.0	MDL Unit 0041 mg/L MDL Unit 0041 mg/L HLCS Qualifier	D Clien Unit mg/L Clien	D	repared ent Sam repared mple ID: <u>%Rec</u> 98 mple ID:	Prep Type: To Analyzed 05/15/23 12:23 ple ID: Method Prep Type: To Analyzed 05/15/23 13:40 : Lab Control S Prep Type: To %Rec Limits 90 - 110 : Lab Control S Prep Type: To	Dil Fac 1 Blank Dil Fac 1 Blank Dil Fac 1 Sample Dial/NA
Matrix: Water Analysis Batch: 669584 Analyte Cyanide, Total Lab Sample ID: MB 480-669584/77 Matrix: Water Analysis Batch: 669584 Analyte Cyanide, Total Lab Sample ID: HLCS 480-669584/2 Matrix: Water Analysis Batch: 669584 Analyte Cyanide, Total Lab Sample ID: LCS 480-669584/23 Matrix: Water Analysis Batch: 669584 Analysis Batch: 669584	MB Result 0.0145 MB Result 0.0142 22	MB Qualifier MB Qualifier	RI 	HLCS Result 0.391	MDL Unit 0041 mg/L MDL Unit 0041 mg/L HLCS Qualifier	D Clien Unit mg/L Clien	Clie Clie t Sal	repared ent Sam repared mple ID <u>%Rec</u> 98 mple ID	Prep Type: To Analyzed 05/15/23 12:23 ple ID: Method Prep Type: To Analyzed 05/15/23 13:40 : Lab Control S Prep Type: To %Rec Limits 90 - 110 : Lab Control S Prep Type: To %Rec Limits	Dil Fac 1 Blank otal/NA Dil Fac 1 Dil Fac 1 Sample otal/NA
Matrix: Water Analysis Batch: 669584 Analyte Cyanide, Total Lab Sample ID: MB 480-669584/77 Matrix: Water Analysis Batch: 669584 Analyte Cyanide, Total Lab Sample ID: HLCS 480-669584/2 Matrix: Water Analysis Batch: 669584 Analyte Cyanide, Total Lab Sample ID: LCS 480-669584/2 Matrix: Water Analysis Batch: 669584 Analyte Cyanide, Total	MB Result 0.0145 MB Result 0.0142 22	MB Qualifier MB Qualifier	Ri 0.010 0.010 Ri 0.010 Spike Added 0.400 Spike Added 0.250	HLCS Result 0.391 LCS Result	MDL Unit 0041 mg/L MDL Unit 0041 mg/L HLCS Qualifier	D Clien Unit mg/L Clien	P	repared ent Sam repared mple ID %Rec 98 mple ID %Rec	Prep Type: To Analyzed 05/15/23 12:23 ple ID: Method Prep Type: To Analyzed 05/15/23 13:40 : Lab Control S Prep Type: To %Rec Limits 90 - 110 : Lab Control S Prep Type: To %Rec Limits 00 - 110	Dil Fac 1 Blank Dil Fac 1 Blank Dil Fac 1 Sample Dtal/NA

Method: 9012B - Cyanide, Total and/or Amenable

Lab Sample ID: LCS 480-6 Matrix: Water	69584/50					Clie	ent Sa	mple ID	: Lab Control Prep Type: T	Sample otal/NA
Analysis Batch: 669584										
			Spike	LCS	LCS				%Rec	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
Cyanide, Total			0.250	0.241		mg/L		96	90 - 110	
Lab Sample ID: LCS 480-6 Matrix: Water	69584/78					Clie	ent Sa	mple ID	: Lab Control Prep Type: T	Sample otal/NA
Analysis Batch: 669584			Sniko	1.05	109				%Pac	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
Cyanide, Total			0.250	0.242		mg/L		97	90 - 110	
						-				
Lab Sample ID: 480-20847	6-3 MS							Clie	ent Sample ID:	MW-23
Matrix: Ground Water									Prep Type: T	otal/NA
Analysis Batch: 669584	Sample S	amplo	Spiko	MS	МС				% Poc	
Analyte	Result Q	ualifier		Result	Qualifier	Unit	р	%Rec	/inits	
Cyanide, Total	0.15 B	^2 F1	0.100	0.236	F1	mg/L		88	90_110	
						0				
Lab Sample ID: 480-20852 Matrix: Surface Water	0-1 MS							Clie	ent Sample ID: Prep Type: T	SW-01 otal/NA
Analysis Batch. 000004	Sample S	ample	Spike	MS	MS				%Rec	
Analyte	Result Q	ualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Cyanide, Total	0.010 U		0.100	0.0895		mg/L		90	90 - 110	
Lab Sample ID: 480-20847 Matrix: Ground Water Analysis Batch: 669584	6-3 DU							Clie	ent Sample ID: Prep Type: T	MW-23 otal/NA
· ·····,	Sample S	ample		DU	DU					RPD
Analyte	Result Q	ualifier		Result	Qualifier	Unit	D		RP	D Limit
Cyanide, Total	0.15 B	^2 F1		0.144		mg/L				2 15
Lab Sample ID: 480-20852 Matrix: Surface Water	0-1 DU							Clie	ent Sample ID: Prep Type: T	SW-01 otal/NA
Analysis Batch: 669584										
	Sample S	ample		DU	DU		_			RPD
Analyte		ualifier		Result	Qualifier	Unit	D			$\frac{D}{2}$ Limit
Cyanide, lotai	0.010 0			0.010	U	mg/L			N	15
Lab Sample ID: MB 480-66 Matrix: Water	9722/21						Clie	ent Sam	ple ID: Metho Prep Type: T	d Blank otal/NA
Analysis Batch: 669/22	RA IN	R MR								
Analvte	Resu	It Qualifier	RL		MDL Unit		D P	repared	Analvzed	Dil Fac
Cyanide, Total	0.0086	50 J	0.010	0.0	0041 mg/L				05/16/23 09:29	1
Lab Sample ID: MB 480-66 Matrix: Water Analysis Batch: 669722	9722/77						Clie	ent Sam	ple ID: Metho Prep Type: T	d Blank otal/NA
	M	B MB	_				_		_	
Analyte	Resu	ult Qualifier	RL		MDL Unit		<u>D</u> P	repared	Analyzed	Dil Fac
Cyanide, Iotal	0.010	8	0.010	0.0	0041 mg/L				05/16/23 11:58	1
Method: 9012B - Cyanide, Total and/or Amenable

Lab Sample ID: HLCS 480 Matrix: Water	-669722/22					Clien	t Sa	mple ID:	: Lab Control Prep Type:	Sample
Analysis Batch: 669722										
			Spike	HLCS	HLCS				%Rec	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
Cyanide, Total			0.400	0.403		mg/L		101	90 - 110	
Lab Sample ID: LCS 480-6 Matrix: Water	69722/23					Clien	it Sa	mple ID:	: Lab Contro Prep Type:	Sample Total/NA
Analysis Batch: 669722			Cuilco		1.00				% D oo	
Analyta			Spike	Boould	LUS Qualifiar	Unit	Б	% Bee	%Rec	
Cyanide Total			0.250	0.250		ma/l		100	<u>20 110</u>	
Cyanide, Iotai			0.230	0.230		mg/L		100	90-110	
Lab Sample ID: LCS 480-6 Matrix: Water	69722/78					Clien	t Sa	mple ID:	: Lab Control Prep Type:	Sample
Analysis Batch: 669722										
			Spike	LCS	LCS				%Rec	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
Cyanide, Total			0.250	0.244		mg/L		97	90 - 110	
Lab Sample ID: 480-20852 Matrix: Surface Water Analysis Batch: 669722	0-1 MS							Clie	ent Sample II Prep Type:): SW-01 Total/NA
	Sample Sa	mple	Spike	MS	MS				%Rec	
Analyte	Result Qu	ualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Cyanide, Total	0.010 U	F1	0.100	0.0864	F1	mg/L		86	90 - 110	
Lab Sample ID: MB 480-67 Matrix: Water Analysis Batch: 671026	1026/105						Clie	ent Sam	ple ID: Metho Prep Type:	od Blank Total/NA
Analyto	IVII Rosul	D IVID	-	51	MDI Unit	п	D	roparod	Analyzod	Dil Eac
Cvanide Total	0.0065				$\frac{100}{0041}$ $\frac{000}{ma/l}$			repareu		
Lab Sample ID: MB 480-67 Matrix: Water	1026/77		0.0				Clie	ent Sam	ple ID: Metho Prep Type:	od Blank Total/NA
Analysis Batch: 671026										
Amelida	M		-			_	_		A	D!!
Analyte Cyconide Total			م	KL		U		repared	Analyzed	
Lab Sample ID: HLCS 480 Matrix: Water	-671026/22	0 3	0.0	10 0.	.0041 mg/L	Clien	it Sa	mple ID:	: Lab Control Prep Type:	+ Sample Total/NA
Analysis Batch: 6/1026			Sniko		HICS				%Rec	
Analyte				Result	Qualifier	Unit	п	%Rec	/intec	
Cvanide. Total			0.400	0 400		ma/l		100	90 - 110	
Lab Sample ID: LCS 480-6 Matrix: Water Analysis Batch: 671026	71026/106					Clien	it Sa	mple ID:	: Lab Contro Prep Type:	Sample Total/NA
-			Spike	LCS	LCS				%Rec	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
0			0.250	0 230	· ^+	ma/l	-	96	90 110	_

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Method: 9012B - Cyanide, Total and/or Amenable

Lab Sample ID: LCS 480-671026/78 Matrix: Water	•							CI	ient	Sar	nple ID	Lab Control Prep Type: T	Sample otal/NA
Analysis Batch: 671026													
Applyto			Spike		LCS	LCS	lifior	Unit		_	% Baa	%Rec	
Cvanide. Total			0.250		0.249	Qua	limer	ma/L		<u> </u>	99	90 - 110	
Lab Sample ID: MB 480-671322/103	3									Clie	ent Sam	ple ID: Metho	d Blank
Matrix: Water												Prep Type: T	otal/NA
Analysis Batch: 671322	мв	MD											
Analyte	Result	Qualifier		RI		мпі	Unit		п	P	renared	Analyzed	Dil Fac
Cyanide, Total	0.00980	J		0.010	0.	0041	mg/L		-		lepuleu	05/30/23 15:01	1
							0						
Lab Sample ID: MB 480-671322/47									•	Clie	ent Sam	ple ID: Metho	d Blank
Matrix: Water												Prep Type: T	otal/NA
Analysis Batch: 671322													
Amelute	MB	MB		ы			11		-			Analyzad	
Cvanide Total	0.0127	Quaimer		0.010			ma/l		<u> </u>	P	repared	- Analyzeu - 05/30/23 12:31	
	0.0127			0.010	0.	5041	iiig/L					00/00/20 12:01	
Lab Sample ID: HLCS 480-671322/2	22							CI	ient	Sar	nple ID:	: Lab Control	Sample
Matrix: Water												Prep Type: T	otal/NA
Analysis Batch: 671322													
			Spike		HLCS	HLC	s					%Rec	
Analyte			Added		Result	Qua	lifier	Unit		D	%Rec	Limits	
Cyanide, Iotal			0.400		0.399			mg/L			100	90 - 110	
Lab Sample ID: LCS 480-671322/10	4							CI	ient	Sar	nple ID:	: Lab Control	Sample
Matrix: Water	•											Prep Type: T	otal/NA
Analysis Batch: 671322													
-			Spike		LCS	LCS	6					%Rec	
Analyte			Added		Result	Qua	lifier	Unit		D	%Rec	Limits	
Cyanide, Total			0.250		0.240			mg/L			96	90 - 110	
 Lab Sample ID: LCS 480-671322/23								CI	iont	Sar	nnlo ID	Lab Control	Samplo
Matrix: Water									ent	Jai		Pren Tyne: T	
Analysis Batch: 671322												пер турс. т	
······,···············			Spike		LCS	LCS	5					%Rec	
Analyte			Added		Result	Qua	lifier	Unit		D	%Rec	Limits	
Cyanide, Total			0.250		0.246			mg/L		_	98	90 - 110	
Method: 9016 - Cyanide, Free													
									(Clie	ent Sam	ple ID: Metho	d Blank
Matrix: Water										-		Prep Type: T	otal/NA
Analysis Batch: 908379												Prep Batch:	908261
	MB	MB										-	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Free	5.0	U	5.0	2.3	ug/L		05/10/23 13:41	05/10/23 20:05	1

Method: 9016 - Cyanide, Free (Continued)

Lab Sample ID: LCS 460-90)8261/2-A						Clie	nt Sa	mple ID	: Lab Control	Sample
Matrix: Water										Prep Type: 1	Total/NA
Analysis Batch: 908379										Prep Batch:	908261
			Spike		LCS	LCS				%Rec	
Analyte			Added	Re	esult	Qualifier	Unit	D	%Rec	Limits	
Cyanide, Free			50.0	5	50.71		ug/L		101	56 - 120	
Lab Sample ID: DLCK 460-	908379/10						Clie	nt Sa	mple ID	: Lab Control	Sample
Matrix: Water										Prep Type: 1	Total/NA
Analysis Batch: 908379											
			Spike	D	LCK	DLCK				%Rec	
Analyte			Added	Re	esult	Qualifier	Unit	D	%Rec	Limits	
Cyanide, Free			2.00		5.0	U	ug/L		103	36 - 171	
Method: SM 2540D - So	lids, Total	Suspen	ded (TS	SS)							
Lab Sample ID: MB 480-66	8656/1							Clie	ent Sam	ple ID: Metho	d Blank
Matrix: Water										Prep Type: 1	Total/NA
Analysis Batch: 668656											
	N	IB MB									
Analyte	Resu	ult Qualifie	r	RL		RL Unit	I	D P	repared	Analyzed	Dil Fac
Total Suspended Solids	1	.0 U		1.0		1.0 mg/L				05/08/23 15:44	1
Lab Sample ID: LCS 480-66	58656/2						Clie	nt Sa	mple ID	· Lab Control	Sample
Matrix: Water							••			Prep Type: 1	
Analysis Batch: 668656											
			Spike		LCS	LCS				%Rec	
Analyte			Added	Re	esult	Qualifier	Unit	D	%Rec	Limits	
Total Suspended Solids			256	2	251.6		mg/L		98	88 - 110	
Lab Sample ID: MB 480-66	8792/1							Clie	ont Sam	nle ID: Metho	d Blank
Matrix: Water								UII	un oun	Pren Type: 1	
Analysis Batch: 668792											
······, ······························	N	IB MB									
Analyte	Resu	ult Qualifie	r	RL		RL Unit	1	D P	repared	Analyzed	Dil Fac
Total Suspended Solids	1	.0 U		1.0		1.0 mg/L			-	05/09/23 15:20	1
Lab Sample ID: LCS 480-66	8792/2						Clie	nt Sa	mple ID	· Lab Control	Sample
Matrix: Water							••			Prep Type: 1	
Analysis Batch: 668792											
······, ······························			Spike		LCS	LCS				%Rec	
Analyte			Added	Re	esult	Qualifier	Unit	D	%Rec	Limits	
Total Suspended Solids			266	2	250.0		mg/L		94	88 - 110	
										ont Comple ID	· CW 04
Lay Sample ID: 400-208520 Matrix: Surface Water									Cill	Bron Types 7	. SVV-U1
Matrix. SuridCe Water Analysis Ratch: 669702										Fieh Type: 1	
Analysis Datell. 000/92	Sample S	amnle			יוס	ווס					חספ
Analyte	Result C)ualifier		R	esult	Qualifier	Unit	р		RP	D Limit
Total Suspended Solids	40				4.0	U	ma/L			<u></u>	<u> </u>
						-					

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GC/MS VOA

Analysis Batch: 668087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-208476-1	MW-10	Total/NA	Ground Water	8260C	
480-208476-3	MW-23	Total/NA	Ground Water	8260C	
480-208476-7	MW-11A	Total/NA	Ground Water	8260C	
480-208476-8	Duplicate	Total/NA	Ground Water	8260C	
480-208476-9	EB	Total/NA	Water	8260C	
MB 480-668087/6	Method Blank	Total/NA	Water	8260C	
LCS 480-668087/4	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 668347

Lab Sample ID 480-208567-1	Client Sample ID MW-07	Prep Type Total/NA	Matrix Water	Method Prep Batch
480-208567-2	MW-19	Total/NA	Water	8260C
480-208567-5	TRIP BLANK	Total/NA	Water	8260C
MB 480-668347/8	Method Blank	Total/NA	Water	8260C
LCS 480-668347/32	Lab Control Sample	Total/NA	Water	8260C

Analysis Batch: 668349

Lab Sample ID 480-208520-1	Client Sample ID SW-01	Prep Type Total/NA	Matrix Surface Water		Prep Batch
480-208520-2	SW-02	Total/NA	Surface Water	8260C	
480-208520-3	MW-17	Total/NA	Ground Water	8260C	
480-208520-4	MW-13	Total/NA	Ground Water	8260C	
480-208520-5	ТВ	Total/NA	Water	8260C	
MB 480-668349/8	Method Blank	Total/NA	Water	8260C	
LCS 480-668349/6	Lab Control Sample	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 668289

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-208476-1	MW-10	Total/NA	Ground Water	3510C	
480-208476-3	MW-23	Total/NA	Ground Water	3510C	
480-208476-7	MW-11A	Total/NA	Ground Water	3510C	
480-208476-8	Duplicate	Total/NA	Ground Water	3510C	
480-208476-9	EB	Total/NA	Water	3510C	
480-208520-1	SW-01	Total/NA	Surface Water	3510C	
480-208520-2	SW-02	Total/NA	Surface Water	3510C	
480-208520-3	MW-17	Total/NA	Ground Water	3510C	
480-208520-4	MW-13	Total/NA	Ground Water	3510C	
480-208567-1	MW-07	Total/NA	Water	3510C	
480-208567-2	MW-19	Total/NA	Water	3510C	
MB 480-668289/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-668289/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 480-668289/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 668859

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
480-208476-1	MW-10	Total/NA	Ground Water	8270D_LL_PAH	668289
480-208476-3	MW-23	Total/NA	Ground Water	8270D_LL_PAH	668289
480-208476-7	MW-11A	Total/NA	Ground Water	8270D_LL_PAH	668289
480-208476-8	Duplicate	Total/NA	Ground Water	8270D_LL_PAH	668289

Eurofins Buffalo

QC Association Summary

GC/MS Semi VOA (Continued)

Analysis Batch: 668859 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-208476-9	EB	Total/NA	Water	8270D_LL_PAH	668289
480-208520-1	SW-01	Total/NA	Surface Water	8270D_LL_PAH	668289
480-208520-2	SW-02	Total/NA	Surface Water	8270D_LL_PAH	668289
480-208520-3	MW-17	Total/NA	Ground Water	8270D_LL_PAH	668289
480-208520-4	MW-13	Total/NA	Ground Water	8270D_LL_PAH	668289
480-208567-1	MW-07	Total/NA	Water	8270D_LL_PAH	668289
480-208567-2	MW-19	Total/NA	Water	8270D_LL_PAH	668289
MB 480-668289/1-A	Method Blank	Total/NA	Water	8270D_LL_PAH	668289
LCS 480-668289/2-A	Lab Control Sample	Total/NA	Water	8270D_LL_PAH	668289
LCSD 480-668289/3-A	Lab Control Sample Dup	Total/NA	Water	8270D_LL_PAH	668289

Prep Batch: 669345

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-208476-1 - RE	MW-10	Total/NA	Ground Water	3510C	
480-208476-7 - RE	MW-11A	Total/NA	Ground Water	3510C	
480-208520-1 - RE	SW-01	Total/NA	Surface Water	3510C	
480-208520-2 - RE	SW-02	Total/NA	Surface Water	3510C	
480-208520-4 - RE	MW-13	Total/NA	Ground Water	3510C	
MB 480-669345/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-669345/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 480-669345/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 669481

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-208476-1 - RE	MW-10	Total/NA	Ground Water	8270D_LL_PAH	669345
480-208476-7 - RE	MW-11A	Total/NA	Ground Water	8270D_LL_PAH	669345
480-208520-1 - RE	SW-01	Total/NA	Surface Water	8270D_LL_PAH	669345
480-208520-2 - RE	SW-02	Total/NA	Surface Water	8270D_LL_PAH	669345
480-208520-4 - RE	MW-13	Total/NA	Ground Water	8270D_LL_PAH	669345
MB 480-669345/1-A	Method Blank	Total/NA	Water	8270D_LL_PAH	669345
LCS 480-669345/2-A	Lab Control Sample	Total/NA	Water	8270D_LL_PAH	669345
LCSD 480-669345/3-A	Lab Control Sample Dup	Total/NA	Water	8270D_LL_PAH	669345

General Chemistry

Analysis Batch: 668656

480-208520-1 DU

SW-01

Lab Sample ID 480-208476-7	Client Sample ID MW-11A	Prep Type Total/NA	Ground Water	Method SM 2540D	Prep Batch
MB 480-668656/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-668656/2	Lab Control Sample	Total/NA	Water	SM 2540D	
Analysis Batch: 668	Client Sample ID	Pren Tyne	Matrix	Method	Pron Batch
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-208520-1	SW-01	Iotal/NA	Surface Water	SM 2540D	
480-208520-2	SW-02	Total/NA	Surface Water	SM 2540D	
MB 480-668792/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-668792/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Total/NA

Surface Water

SM 2540D

QC Association Summary

General Chemistry

Analysis Batch: 669455

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-208476-9	EB	Total/NA	Water	9012B	
MB 480-669455/103	Method Blank	Total/NA	Water	9012B	
MB 480-669455/131	Method Blank	Total/NA	Water	9012B	
MB 480-669455/75	Method Blank	Total/NA	Water	9012B	
HLCS 480-669455/22	Lab Control Sample	Total/NA	Water	9012B	
LCS 480-669455/104	Lab Control Sample	Total/NA	Water	9012B	
LCS 480-669455/132	Lab Control Sample	Total/NA	Water	9012B	
LCS 480-669455/76	Lab Control Sample	Total/NA	Water	9012B	

Analysis Batch: 669584

Lab Sample ID	ab Sample ID Client Sample ID		Matrix	Method	Prep Batch
480-208476-2	MW-14	Total/NA	Ground Water	9012B	
480-208476-3	MW-23	Total/NA	Ground Water	9012B	
480-208476-4	MW-20	Total/NA	Ground Water	9012B	
480-208476-5	MW-21	Total/NA	Ground Water	9012B	
480-208476-6	MW-22	Total/NA	Ground Water	9012B	
480-208476-7	MW-11A	Total/NA	Ground Water	9012B	
480-208476-8	Duplicate	Total/NA	Ground Water	9012B	
480-208520-1	SW-01	Total/NA	Surface Water	9012B	
480-208520-2	SW-02	Total/NA	Surface Water	9012B	
480-208520-4	MW-13	Total/NA	Ground Water	9012B	
MB 480-669584/21	Method Blank	Total/NA	Water	9012B	
MB 480-669584/49	Method Blank	Total/NA	Water	9012B	
MB 480-669584/77	Method Blank	Total/NA	Water	9012B	
HLCS 480-669584/22	Lab Control Sample	Total/NA	Water	9012B	
LCS 480-669584/23	Lab Control Sample	Total/NA	Water	9012B	
LCS 480-669584/50	Lab Control Sample	Total/NA	Water	9012B	
LCS 480-669584/78	Lab Control Sample	Total/NA	Water	9012B	
480-208476-3 MS	MW-23	Total/NA	Ground Water	9012B	
480-208520-1 MS	SW-01	Total/NA	Surface Water	9012B	
480-208476-3 DU	MW-23	Total/NA	Ground Water	9012B	
480-208520-1 DU	SW-01	Total/NA	Surface Water	9012B	

Analysis Batch: 669722

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-208567-3	MW-12	Total/NA	Water	9012B	
480-208567-4	MW-16	Total/NA	Water	9012B	
MB 480-669722/21	Method Blank	Total/NA	Water	9012B	
MB 480-669722/77	Method Blank	Total/NA	Water	9012B	
HLCS 480-669722/22	Lab Control Sample	Total/NA	Water	9012B	
LCS 480-669722/23	Lab Control Sample	Total/NA	Water	9012B	
LCS 480-669722/78	Lab Control Sample	Total/NA	Water	9012B	
480-208520-1 MS	SW-01	Total/NA	Surface Water	9012B	

Analysis Batch: 671026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep Batch
480-208520-3	MW-17	Total/NA	Ground Water	9012B
MB 480-671026/105	Method Blank	Total/NA	Water	9012B
MB 480-671026/77	Method Blank	Total/NA	Water	9012B
HLCS 480-671026/22	Lab Control Sample	Total/NA	Water	9012B
LCS 480-671026/106	Lab Control Sample	Total/NA	Water	9012B

Job ID: 480-208476-1

SDG: 480-208476-1

General Chemistry (Continued)

Analysis Batch: 671026 (Continued)

Lab Sample ID LCS 480-671026/78	Client Sample ID Lab Control Sample	Prep Type Total/NA	Matrix Water	Method 9012B	Prep Batch
Analysis Batch: 671	322				
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
180-208567-3 - RA	M\0/_12	Total/NA	Water	0012B	

480-208567-3 - RA	MW-12	Total/NA	Water	9012B
480-208567-4 - RA	MW-16	Total/NA	Water	9012B
MB 480-671322/103	Method Blank	Total/NA	Water	9012B
MB 480-671322/47	Method Blank	Total/NA	Water	9012B
HLCS 480-671322/22	Lab Control Sample	Total/NA	Water	9012B
LCS 480-671322/104	Lab Control Sample	Total/NA	Water	9012B
LCS 480-671322/23	Lab Control Sample	Total/NA	Water	9012B

Prep Batch: 908261

Lab Sample ID	e ID Client Sample ID Prep Type Matrix		Matrix	Method	Prep Batch
480-208476-2	MW-14	Total/NA	Total/NA Ground Water		
480-208476-3	MW-23	Total/NA	IA Ground Water 9016		
480-208476-4	MW-20	Total/NA	Ground Water	9016	
480-208476-5	MW-21	Total/NA	Ground Water	9016	
480-208476-6	MW-22	Total/NA	Ground Water	9016	
480-208476-7	MW-11A	Total/NA	Ground Water	9016	
480-208476-8	Duplicate	Total/NA	Ground Water	9016	
480-208476-9	EB	Total/NA	Water	9016	
480-208520-1	SW-01	Total/NA	Surface Water	9016	
480-208520-2	SW-02	Total/NA	Surface Water	9016	
480-208520-3	MW-17	Total/NA	Ground Water	9016	
480-208520-4	MW-13	Total/NA	Ground Water	9016	
480-208567-3	MW-12	Total/NA	Water	9016	
480-208567-4	MW-16	Total/NA	Water	9016	
MB 460-908261/1-A	Method Blank	Total/NA	Water	9016	
LCS 460-908261/2-A	Lab Control Sample	Total/NA	Water	9016	

Analysis Batch: 908379

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-208476-2	MW-14	Total/NA	Ground Water	9016	908261
480-208476-3	MW-23	Total/NA	Ground Water	9016	908261
480-208476-4	MW-20	Total/NA	Ground Water	9016	908261
480-208476-5	MW-21	Total/NA	Ground Water	9016	908261
480-208476-6	MW-22	Total/NA	Ground Water	9016	908261
480-208476-7	MW-11A	Total/NA	Ground Water	9016	908261
480-208476-8	Duplicate	Total/NA	Ground Water	9016	908261
480-208476-9	EB	Total/NA	Water	9016	908261
480-208520-1	SW-01	Total/NA	Surface Water	9016	908261
480-208520-2	SW-02	Total/NA	Surface Water	9016	908261
480-208520-3	MW-17	Total/NA	Ground Water	9016	908261
480-208520-4	MW-13	Total/NA	Ground Water	9016	908261
480-208567-3	MW-12	Total/NA	Water	9016	908261
480-208567-4	MW-16	Total/NA	Water	9016	908261
MB 460-908261/1-A	Method Blank	Total/NA	Water	9016	908261
DLCK 460-908379/10	Lab Control Sample	Total/NA	Water	9016	
LCS 460-908261/2-A	Lab Control Sample	Total/NA	Water	9016	908261

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Job ID: 480-208476-1 SDG: 480-208476-1

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Client Sample ID: MW-10 Date Collected: 05/02/23 09:30 Date Received: 05/02/23 16:11

Batch

Batch

Matrix: Ground Water

Matrix: Ground Water

Matrix: Ground Water

Matrix: Ground Water

Lab Sample ID: 480-208476-3

Lab Sample ID: 480-208476-4

Lab Sample ID: 480-208476-5

Lab Sample ID: 480-208476-1 Matrix: Ground Water

Prepared

								•
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260C		1	668087	LCH	EET BUF	05/04/23 05:30
Total/NA	Prep	3510C			668289	SMP	EET BUF	05/05/23 07:32
Total/NA	Analysis	8270D_LL_PAH		1	668859	JMM	EET BUF	05/10/23 23:35
Total/NA	Prep	3510C	RE		669345	LSC	EET BUF	05/12/23 15:06
Total/NA	Analysis	8270D_LL_PAH	RE	1	669481	JMM	EET BUF	05/15/23 14:48
lient Sam	ple ID: MW	/-14					Lab	Sample ID: 480-208476-2

Dilution

Batch

Client Sample ID: MW-14 Date Collected: 05/02/23 11:10 Date Received: 05/02/23 16:11

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	9012B		2	669584	CLT	EET BUF	05/15/23 11:24
Total/NA	Prep	9016			908261	IAA	EET EDI	05/10/23 13:41
Total/NA	Analysis	9016		1	908379	VBG	EET EDI	05/10/23 20:05

Client Sample ID: MW-23 Date Collected: 05/02/23 12:25 Date Received: 05/02/23 16:11

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260C		1	668087	LCH	EET BUF	05/04/23 05:52
Total/NA	Prep	3510C			668289	SMP	EET BUF	05/05/23 07:32
Total/NA	Analysis	8270D_LL_PAH		1	668859	JMM	EET BUF	05/11/23 00:03
Total/NA	Analysis	9012B		1	669584	CLT	EET BUF	05/15/23 11:45
Total/NA	Prep	9016			908261	IAA	EET EDI	05/10/23 13:41
Total/NA	Analysis	9016		1	908379	VBG	EET EDI	05/10/23 20:05

Client Sample ID: MW-20 Date Collected: 05/02/23 13:45 Date Received: 05/02/23 16:11

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	9012B		10	669584	CLT	EET BUF	05/15/23 11:27
Total/NA	Prep	9016			908261	IAA	EET EDI	05/10/23 13:41
Total/NA	Analysis	9016		1	908379	VBG	EET EDI	05/10/23 20:05

Client Sample ID: MW-21 Date Collected: 05/02/23 15:10 Date Received: 05/02/23 16:11

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	9012B		2	669584	CLT	EET BUF	05/15/23 11:29
Total/NA	Prep	9016			908261	IAA	EET EDI	05/10/23 13:41
Total/NA	Analysis	9016		1	908379	VBG	EET EDI	05/10/23 20:05

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Client Sample ID: MW-22 Date Collected: 05/02/23 14:00 Date Received: 05/02/23 16:11

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	9012B		2	669584	CLT	EET BUF	05/15/23 11:32
Total/NA	Prep	9016			908261	IAA	EET EDI	05/10/23 13:41
Total/NA	Analysis	9016		1	908379	VBG	EET EDI	05/10/23 20:05

Client Sample ID: MW-11A Date Collected: 05/02/23 14:30 Date Received: 05/02/23 16:11

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260C		2	668087	LCH	EET BUF	05/04/23 06:14
Total/NA	Prep	3510C			668289	SMP	EET BUF	05/05/23 07:32
Total/NA	Analysis	8270D_LL_PAH		1	668859	JMM	EET BUF	05/11/23 00:30
Total/NA	Prep	3510C	RE		669345	LSC	EET BUF	05/12/23 15:06
Total/NA	Analysis	8270D_LL_PAH	RE	1	669481	JMM	EET BUF	05/15/23 15:15
Total/NA	Analysis	9012B		1	669584	CLT	EET BUF	05/15/23 11:53
Total/NA	Prep	9016			908261	IAA	EET EDI	05/10/23 13:41
Total/NA	Analysis	9016		1	908379	VBG	EET EDI	05/10/23 20:05
Total/NA	Analysis	SM 2540D		1	668656	CRM	EET BUF	05/08/23 15:44

Client Sample ID: Duplicate Date Collected: 05/02/23 00:00

Date Received: 05/02/23 16:11

Γ	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260C		1	668087	LCH	EET BUF	05/04/23 06:36
Total/NA	Prep	3510C			668289	SMP	EET BUF	05/05/23 07:32
Total/NA	Analysis	8270D_LL_PAH		1	668859	JMM	EET BUF	05/11/23 00:58
Total/NA	Analysis	9012B		1	669584	CLT	EET BUF	05/15/23 11:56
Total/NA	Prep	9016			908261	IAA	EET EDI	05/10/23 13:41
Total/NA	Analysis	9016		1	908379	VBG	EET EDI	05/10/23 20:05

Client Sample ID: EB Date Collected: 05/02/23 13:00 Date Received: 05/02/23 16:11

_	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260C			668087	LCH	EET BUF	05/04/23 06:59
Total/NA	Prep	3510C			668289	SMP	EET BUF	05/05/23 07:32
Total/NA	Analysis	8270D_LL_PAH		1	668859	JMM	EET BUF	05/11/23 01:25
Total/NA	Analysis	9012B		1	669455	CLT	EET BUF	05/12/23 18:22
Total/NA	Prep	9016			908261	IAA	EET EDI	05/10/23 13:41
Total/NA	Analysis	9016		1	908379	VBG	EET EDI	05/10/23 20:05

Job ID: 480-208476-1 SDG: 480-208476-1 Lab Sample ID: 480-208476-6 Matrix: Ground Water

Lab Sample ID: 480-208476-7

Matrix: Ground Water

Lab Sample ID: 480-208476-8 Matrix: Ground Water

Lab Sample ID: 480-208476-9

Matrix: Water

Dilution

Factor

1

1

1

1

1

1

Run

RE

RE

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Client Sample ID: SW-01 Date Collected: 05/03/23 09:20 Date Received: 05/03/23 13:40

Batch

Туре

Prep

Prep

Prep

Client Sample ID: SW-02

Date Collected: 05/03/23 08:40

Date Received: 05/03/23 13:40

Analysis

Analysis

Analysis

Analysis

Analysis

Analysis

Batch

Method

8260C

3510C

3510C

9012B

9016

9016

SM 2540D

8270D_LL_PAH

8270D LL PAH

Lab Sample ID: 480-208520-1 Matrix: Surface Water

Prepared

or Analyzed

05/05/23 18:56

05/05/23 07:32

05/11/23 02:47

05/12/23 15:06

05/15/23 15:43

05/15/23 13:00

05/10/23 13:41

05/10/23 20:05

05/09/23 15:20

Lab Sample ID: 480-208520-2

Lab Sample ID: 480-208520-3

Lab Sample ID: 480-208520-4

Matrix: Ground Water

Matrix: Ground Water

Matrix: Surface Water

	Batch	Batch		Dilution	Batch			Prepared
Ргер Туре	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260C		1	668349	CDC	EET BUF	05/05/23 19:19
Total/NA	Prep	3510C			668289	SMP	EET BUF	05/05/23 07:32
Total/NA	Analysis	8270D_LL_PAH		1	668859	JMM	EET BUF	05/11/23 03:14
Total/NA	Prep	3510C	RE		669345	LSC	EET BUF	05/12/23 15:06
Total/NA	Analysis	8270D_LL_PAH	RE	1	669481	JMM	EET BUF	05/15/23 16:10
Total/NA	Analysis	9012B		1	669584	CLT	EET BUF	05/15/23 13:08
Total/NA	Prep	9016			908261	IAA	EET EDI	05/10/23 13:41
Total/NA	Analysis	9016		1	908379	VBG	EET EDI	05/10/23 20:05
Total/NA	Analysis	SM 2540D		1	668792	CRM	EET BUF	05/09/23 15:20

Client Sample ID: MW-17 Date Collected: 05/03/23 12:35 Date Received: 05/03/23 13:40

	Batch	Batch		Dilution	Batch			Prepared
Prep Туре	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260C		2	668349	CDC	EET BUF	05/05/23 19:41
Total/NA	Prep	3510C			668289	SMP	EET BUF	05/05/23 07:32
Total/NA	Analysis	8270D_LL_PAH		5	668859	JMM	EET BUF	05/11/23 03:42
Total/NA	Analysis	9012B		1	671026	CLT	EET BUF	05/25/23 17:28
Total/NA	Prep	9016			908261	IAA	EET EDI	05/10/23 13:41
Total/NA	Analysis	9016		1	908379	VBG	EET EDI	05/10/23 20:05

Client Sample ID: MW-13 Date Collected: 05/03/23 10:50 Date Received: 05/03/23 13:40

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260C		1	668349	CDC	EET BUF	05/05/23 20:03

Eurofins Buffalo

Batch

668349

668289

Number Analyst

668859 JMM

669345 LSC

669481 JMM

669584 CLT

908261 IAA

908379 VBG

668792 CRM

CDC

SMP

Lab

EET BUF

EET BUF

EET BUF

EET BUF

EET BUF

EET BUF

EET EDI

EET EDI

EET BUF

Dilution

Factor

1

1

1

1

Run

RE

RE

Batch

668289

Number Analyst

668859 JMM

669345 LSC

669481 JMM

669584 CLT

908261 IAA

908379 VBG

SMP

Lab

EET BUF

EET BUF

EET BUF

EET BUF

EET BUF

EET EDI

EET EDI

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Client Sample ID: MW-13 Date Collected: 05/03/23 10:50 Date Received: 05/03/23 13:40

Batch

Туре

Prep

Prep

Prep

Analysis

Analysis

Analysis

Analysis

Batch

Method

8270D_LL_PAH

8270D_LL_PAH

3510C

3510C

9012B

9016

9016

Job ID: 480-208476-1
SDG: 480-208476-1

Lab Sample ID: 480-208520-4 Matrix: Ground Water

Prepared

or Analyzed

05/05/23 07:32

05/11/23 04:09

05/12/23 15:06

05/15/23 16:38

05/15/23 13:13

05/10/23 13:41

05/10/23 20:05

Lab Sample ID: 480-208520-5

Lab Sample ID: 480-208567-1

Lab Sample ID: 480-208567-2

Lab Sample ID: 480-208567-3

Matrix: Water

Matrix: Water

Matrix: Water

Matrix: Water

Client Sam	ple l	D: T	B
Date Collecte	d: 05	/03/2	3 00:00

Date Received: 05/03/23 13:40

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260C		1	668349	CDC	EET BUF	05/05/23 20:26

Client Sample ID: MW-07 Date Collected: 05/04/23 08:15 Date Received: 05/04/23 11:50

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260C		20	668347	LCH	EET BUF	05/05/23 21:32
Total/NA	Prep	3510C			668289	SMP	EET BUF	05/05/23 07:32
Total/NA	Analysis	8270D_LL_PAH		100	668859	JMM	EET BUF	05/11/23 04:37

Client Sample ID: MW-19 Date Collected: 05/04/23 10:50 Date Received: 05/04/23 11:50

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260C		100	668347	LCH	EET BUF	05/05/23 21:54
Total/NA	Prep	3510C			668289	SMP	EET BUF	05/05/23 07:32
Total/NA	Analysis	8270D_LL_PAH		200	668859	JMM	EET BUF	05/11/23 05:04

Client Sample ID: MW-12 Date Collected: 05/04/23 09:30 Date Received: 05/04/23 11:50

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	9012B		1	669722	CLT	EET BUF	05/16/23 10:06
Total/NA	Analysis	9012B	RA	2	671322	CLT	EET BUF	05/30/23 12:02
Total/NA	Prep	9016			908261	IAA	EET EDI	05/10/23 13:41
Total/NA	Analysis	9016		1	908379	VBG	EET EDI	05/10/23 20:05

Client Sample ID: MW-16 Date Collected: 05/04/23 09:20 Date Received: 05/04/23 11:50

Job ID: 480-208476-1
SDG: 480-208476-1

Lab Sample ID: 480-208567-4 Matrix: Water

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	9012B		1	669722	CLT	EET BUF	05/16/23 10:09
Total/NA	Analysis	9012B	RA	10	671322	CLT	EET BUF	05/30/23 12:05
Total/NA	Prep	9016			908261	IAA	EET EDI	05/10/23 13:41
Total/NA	Analysis	9016		1	908379	VBG	EET EDI	05/10/23 20:05

Client Sample ID: TRIP BLANK Date Collected: 05/04/23 00:00 Date Received: 05/04/23 11:50

_	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260C		1	668347	LCH	EET BUF	05/05/23 22:17

Laboratory References:

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

Client: GEI Consultants, Inc. Project/Site: Semi Annual Job ID: 480-208476-1 SDG: 480-208476-1

Laboratory: Eurofins Buffalo

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-24

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-0818	01-30-24
DE Haz. Subst. Cleanup Act (HSCA)	State	N/A	01-01-24
Georgia	State	12028 (NJ)	06-30-23
Massachusetts	State	M-NJ312	06-30-23
New Jersey	NELAP	12028	06-30-23
New York	NELAP	11452	04-01-24
Pennsylvania	NELAP	68-00522	03-01-24
Rhode Island	State	LAO00376	12-30-23
USDA	US Federal Programs	P330-20-00244	11-03-23

Eurofins Buffalo

Method Summary

Client: GEI Consultants, Inc. Project/Site: Semi Annual

Job ID: 480-208476-1 SDG: 480-208476-1

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

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

Eurofins Buffalo

Sample Summary

Job ID:	480-208476-1
SDG:	480-208476-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-208476-1	MW-10	Ground Water	05/02/23 09:30	05/02/23 16:11
480-208476-2	MW-14	Ground Water	05/02/23 11:10	05/02/23 16:11
480-208476-3	MW-23	Ground Water	05/02/23 12:25	05/02/23 16:11
480-208476-4	MW-20	Ground Water	05/02/23 13:45	05/02/23 16:11
480-208476-5	MW-21	Ground Water	05/02/23 15:10	05/02/23 16:11
480-208476-6	MW-22	Ground Water	05/02/23 14:00	05/02/23 16:11
480-208476-7	MW-11A	Ground Water	05/02/23 14:30	05/02/23 16:11
480-208476-8	Duplicate	Ground Water	05/02/23 00:00	05/02/23 16:11
480-208476-9	EB	Water	05/02/23 13:00	05/02/23 16:11
480-208520-1	SW-01	Surface Water	05/03/23 09:20	05/03/23 13:40
480-208520-2	SW-02	Surface Water	05/03/23 08:40	05/03/23 13:40
480-208520-3	MW-17	Ground Water	05/03/23 12:35	05/03/23 13:40
480-208520-4	MW-13	Ground Water	05/03/23 10:50	05/03/23 13:40
480-208520-5	ТВ	Water	05/03/23 00:00	05/03/23 13:40
480-208567-1	MW-07	Water	05/04/23 08:15	05/04/23 11:50
480-208567-2	MW-19	Water	05/04/23 10:50	05/04/23 11:50
480-208567-3	MW-12	Water	05/04/23 09:30	05/04/23 11:50
480-208567-4	MW-16	Water	05/04/23 09:20	05/04/23 11:50
480-208567-5	TRIP BLANK	Water	05/04/23 00:00	05/04/23 11:50

Eurotins Buffalo 10 Hazelwood Drive Amherst. NY 14228-2298 Phone 716-691-2600 Fax 716-691-7991	0	Chain c	of Cust	tody R	ecord	_					📩 eurofir	5 Environment	
Client Information	Sampler M.	1.1.4.1		Lab P Scho	M I nhol. ev				arrier Tracking No	(S)	COC No		Γ
Client Contact Brad Walker	Phone			E-Mai				0	tate of Origin		480-184649- Page	32131.2	Τ
Company National Firel Gas Sumoly Correction	C_ 011	24-21	DISMo	uuor	schove@	et eurofin	sus com				Page 2 of 2		
Address CAPPA Man Strand	Due Date Requeste				And a		Analy	/sis Requ	lested				
	TAT Requested (da	iys):			- 25. s + 34.						A - HCL	Codes: M - Hexane	
Williamsville State. Zip		र्म	0								B - NaOH C - Zn Acetate	N - None 0 - AsNaO2	
NY 14221-5887	Compliance Projec	t: A Yes A	No		1						D - Nitric Acid	P - Na204S Q - Na2S03	
Phone 716-857-7247(Tel)	P0 # Purchase Order	not required									F - MeOH G - Amchlor	R - Na2S203 S - H2SO4	
Email walkerb@naffuel.com	# OM				(oN Jo		8				H - Ascorbic Ac	 d T - TSP Dodecat U - Acetone V MCAA 	lydrate
Project Name GEI, Mineral Springs/ Event Desc. Semi Annual Samolino (Anril)	Project #				or No	022	piloS				J - DI Water K - EDTA	V - MCCAA W - pH 4-5 Y - Trizma	
Site Site Vork	SSOW#				elqme D (Yes	8 - HA9 099	pended IsfoT				contal Other:	Z - other (specify	-
			Sample	Matrix	ered Si MS/MS MS/MS	- HA9_	su2 lef ,ebine				to red		
Sample Identification	Samula Dato	Sample	Type (C=comp,	(W=water. S=solid. O=wasteroil.	ertorni i ertorni i 16 - Cya	נפסכ - שו 19 - 2093	40D - To				muN let		
			Preservat	ion Code:		8 A	26 a				To Specia	I Instructions/No	:ei
01-MW	5222	0930	0	Water			2						
MW -14		0/11	-	Water	.×.		×						
MW-23		1225		Water		X							
MW-20		1345		Water	×		×					-	
MW 2		1510		Water			×						Τ
MW-22	平	0041		Water	~		×						
MW-114		27		Water	×.	XX	××						
ond				Water	.×	X	×			480-208	476 Chain 10		
Ĩ		1300		Water	×	X				_		stody	
	V												1
	>		2										
Possible Hazard Identification	on B	own 7	adiological		Samp	le Dispos. Return To	al (A fee Client	may be a	sessed if sam	ples are ret	ained longer tha	n 1 month)	Ι
Deliverable Requested. I, II, III, IV, Other (specify)					Specia	Il Instruction	ons/QC R	equirement	S			NONINS	Τ
Empty Kit Relinquished by:		Date			Time		\vdash		Method of Sh	ipment		2	
Kelinquished by	Date/Time		<u> </u>	Company	Re	ceived by	1	MINCW	/ (walk	ate/Time	2123 16	Company A	Τ
Relinquished by	Date/Time		Ŭ	Company	Re	ceived by	5			ate/Time		Company	Τ
Reinquished by	Date/Time			Company	Re	ceived by			0	ate/Time		Company	Τ
Custody Seals Intact: Custody Seal No.: ∆ Yes ∆ No					S	oler Tempera	ature(s) °C a	nd Other Rem	arks 2	4	(本)(
											1	Ver: 06/08/201	

212122 2000	10 Hazelwood Drive	Amherst, NY 14228-2298	Phone 716 601 2600 Eau
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Chain of Custody Record

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Client Information	Sampler	Lab	W	Carrier Tracking Nois)	COC No
Client Contact	Phone VI LUW	TWO PCI	ove. John K		480-184649-32131 1
Brad Walker	1 716-572-41	Jud Joh	n Schove@et eurofinsus com	state of Urigin	Page Page 1 of 2
Company National Fuel Gas Supply Corporation		DISMO			- 0.0 - 0.0
Address 6363 Main Street	Due Date Requested:			eduested	Preservation Codes:
City	TAT Requested (davs)				A - HCI M - Hexane
Writhamsville State Zin					B - NOCH N - None C - Zn Acetata O - AsNaO2
UN 14221-5887	Compliance Project: A Yes	A NO			D - Nitro Acid P - Na204S
Phone 716-857-7247(Tel)	Po # Purchase Order not requir	pe			F - MeOH R · Na25203 G - Amchlor S · H2504
Email walkerb@natfuel.com	# OM		or No)		H - Ascorbic Acid T - TSP Dodecahydrate
Project Name GFT Mineral Sorinos/ Event Deer Semi Annual Somaling (Annu	Project #		220 270 270		J - Di Water V Ph 4.5 K - EDTA V Trivma
	SSOW#		8 - H bebn		Z - other (specify)
New York			102 102 104 101 101		of co Other:
		Sample Matrix Type (w=water.	ilitered S m M&/M Nanide, I banide, I banide, I banide, I Cyanide,		number o
Sample Identification	Sample Date Time	(C=Comp, 0=waste/oil, G=drah)	0158 - 240D - 540C - 520C - 016 - C 016 - C	t	uN leto
	X	Preservation Code:			P Special Instructions/Note:
		Water			
	Storen	Water			
Sid-M	512h> 1917	C Water			
	1 0/2/10	- Mustor			
	CHRO 1		XXXX		.9
AI-MW	1235	Water	XXX		
MW - 13	1050	Water	XXXX		
TRID BLANK	\	Water	X		
		Water			
		Water			
		Water			
	2	V Water			
Possible Hazard Identification		Radiotonical	Sample Disposal (A fee may be	assessed if samples are i	retained longer than 1 month)
Deliverable Requested: I, II, III, IV, Other (specify)		makaan	Special Instructions/QC Requirem	-Uisposal By Lab	Archive For Months
Empty Kit Relinquished by:	Date:		Time	Method of Shipment	
Relinquished by JOG MUNARAD	Date/Time / / / 2023	1240 Company	A Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Reinquished by	Date/Time	Company	Received	Date Time	Company LC Lompany
Custody Seals Intact: Custody Seal No.: A Yes A No		-	Cooler Temperature 5) C and Other	Remarks C. C.	1 1 2 10 1 1 1 1 2 1 2 1 2 1 2 1 2 1 2 1
)	(a) 1	# 1 200
					Ver- 06/08/2021

Eurotins Buttalo				
10 Hazelwood Drive	Chain of Cust			
Amherst. NY 14228-2298 Phone: 716-691-2600 Fax: 716-691-7991		ouy record	•	C CUROTINS
Client Information	Sampler M. L	- Lab PM Concord Late D	Carrier Tracking No(s)	COC No
Client Contact Brad Walker	Phone	E-Mail	State of Origin	480-184648-39071.1 Parte
Company		John Schove@et eurofinsus com	2	Page 1 of 1
National Fuel Gas Supply Corporation		Analysis Re	equested	Job #
Address 6363 Main Street	Due Date Requested:			Preservation Codes:
City Williamsville	TAT Requested (days):			A - HCL M Hexane B - NaOH N - None
State Zip NY, 14221-5887	Compliance Project: Ves No			C - Zn Acetate 0 - AsNaO2 D - Nitric Acid P - Na2O4S
Phone 716-857-7247(Tel)	Po # Purchase Order not required			E - NaHSO4 8 - Na2S203 F - MeOH R - Na2S203 G - Amchlor S - H2SO4
Email walkerb@naffuel.com	#OM	0) 0)		H - Ascorbic Acid T - TSP Dodecahydrate 1 - Ice v - MCAA
Project Name GEI, Mineral Springs	Project # 48008324	8 OF N 8 270	ilners	L - Ul Water W - PH 4-5 K - EDTA Y - Trizma L - EDA Y - Trizma
Site New York	SSOW#	eiqme by (Ye PAA - 260 760 760 760	89000	Z - other (specify)
	Sample	Z tar tar tar tar tar tar tar tar tar tar	Po 19dn	
Sample Identification	Sample (C=comp.	M=mater. Sagoid: Sagoid: M=materoli M=	nun ist	
		Tarseue, Arahi) Itt, Gt, 57 82 90 90 on Code: XXN A R R		Special Instructions/Note:
20-WM	5/4/22 R15 G	Water		
MW-19	/ 1950	Water		
MW-12	930	Water		
MW-16	0420	Water		
TRID BLANK]			
			480-208567 Chain 2	
				- Custody
Rossine Hazard Identification	2			
Peliuscebe Hazard Entrumble Skin Irritant Pc	oison B 🗌 Unknown 🗌 Radiological	Sample Disposal (A fee maybe	assessed if samples are retaine	ed longer than 1 month)
Deriver autor Requested 1, 11, 11, 1V. Other (specify)		Special Instructions/QC Requirem	ents:	
Empty Kit Relinquished by Relinninghad by:	Date	Time	Method of Shipment	
Relinquished by	Date Time 5/4/2023 1145 CC	ompany T Received by	Date/Time	Company
Reinquished by		ompany Received by	Date/Time	Company
Citistedor Seals Intact - Crietodo Scal Ma		ompany Received	DateTime	115 Company LA
A Yes A No		Cooler Tethnaterure(s) Cand Other R	temarks 5.3 H	17(12)
				Ver: 06/08/2021

6/1/2023

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Eurofin	10 Hazelw

Chain of Custody Record



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Amherst, NY 14228-2298 Phone: 716-691-2600 Fax: 716-691-7991	,		DI CUSI	tody K	ecora					senrori	IS Environment Testing
Client Information (Sub Contract Lab)	Sampler:			Lab PN Schor	t: /e, John R			Carrier Tracking No	(s):	COC No: 480-80312-1	
Client Contact: Shipping/Receiving	Phone:			E-Mail: John	Schove@e	t eurofineus com		State of Origin: Maw Vorb		Page:	
Company: Eurofins Environment Testing Northeast,					Accreditations	Required (See note				Job #:	
Address: 777 New Durham Road,	Due Date Request 5/15/2023	:pa	-				hiele Dog			Preservation	Codes:
City: Edison	TAT Requested (da	ays):			and a second			nested		A - HCL B - NaOH	M - Hexane N - None
State, Zip NJ, 08817)		C - Zn Acetate D - Nitric Acid F - NaHSO4	0 - AsNaO2 P - Na2O4S Q - Na2SO3
Phone: 732-549-3900(Tel) 732-549-3679(Fax)	₩ HO				1					F - MeOH G - Amchlor	R - Na2S2O3 S - H2SO4 T - TSP Dodecebodrete
Email:	"# OM				0) 01 N0					H - Ascorbic Ac I - Ice I - DI Wrater	d U - Acetone V - MCAA
Project Name: GE1, Mineral Springs	Project #: 48008324			Γ	86 (Yes 16, Free 16, Free					RINGIS K - EDTA L - EDA	W - pH 4-5 Y - Trizma Z - other (enerity)
site: Mineral Springs	SSOW#:				Cyanid SD (Ye					of cont	(Appede) page -
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (w=water, S=solid, O=waste/oil, ST=Tissue, A=Air)	۲۹۱۹ ۲۱۱۹ ۲۱۹۹ ۲۹۰۲ M/SM ۲۰۰۰ ۲۹۰۹_۶۱۵۹۹ ۲۰۰۹						
	X	X	Preservat	ion Code:	X					aperie X	Instructions/Note:
MW-14 (480-208476-2)	5/2/23	11:10 Eactorn		Water	×						
MW-23 (480-208476-3)	5/2/23	12:25 Eastorn		Water	×						
MW-20 (480-208476-4)	5/2/23	13:45 Fastern		Water	×						
MW-21 (480-208476-5)	5/2/23	15:10 Eastern		Water	×					1	
MW-22 (480-208476-6)	5/2/23	14:00 Fastern		Water	×					+	
MW-11A (480-208476-7)	5/2/23	14:30 Fastern		Water	×					+	
Duplicate (480-208476-8)	5/2/23	Eastern		Water	×					-	
EB (480-208476-9)	5/2/23	13:00 Fastern		Water	×						
Note: Since laboratory accreditations are subject to change, Eurofins Environmen does not currently maintain accreditation in the State of Origin listed above for an: status should be brought to Eurofins Environment Testing Northeast, LLC attentio	tt Testing Northeast, L alysis/tests/matrix beii on immediately. If all r	LC places the ng analyzed, th equested accre	ownership of m e samples mus editations are cu	ethod, analyte 8 t be shipped ba urrent to date, re	accreditation of to the Eurol turn the signe	compliance upon ou ins Environment Tee d Chain of Custody o	Ir subcontract I sting Northeast attesting to said	aboratories. This sa LLC laboratory or c	ample shipment other instruction: ofins Environme	s forwarded under c will be provided. Al nt Testing Northeast,	tain-of-custody. If the laboratory y changes to accreditation LLC.
Possible Hazard Identification					Sample	Disposal (A fe	e mav be a	sessed if sam	oles are reta	ined longer tha	n 1 month)
Unconfirmed					^w	eturn To Client		isposal By Lab	•	chive For	Months
Ueliverable Requested: 1, 11, 111, 1V, Other (specify)	Primary Delivera	able Rank: 2			Special	nstructions/QC	Requiremen	ts:			
Empty Kit Kelinquished by: Belinniished hy	t d	Date:			Time:			Method of Shi	pment:	der	
Relinquished by:	Date/Time	8	8	Aueduo	Recei	Na Pres	21214		ate/Time:	10108	Company
Polineriishod bu:			<u> </u>	ompany	Recei	ved by:		<u>6</u>	ate/Time:		Company
	Date/Time:		0	company	Recei	ved by:		ă	ate/Time:		Company
Δ Yes Δ No Δ Yes Δ No	1252				Coole	r Temperature(s) °C	and Other Rer	narks:			
					L	TOID	0)	ノノ・ハー	i		Ver: 06/08/2021
					14 45	12 13	11	ء 9 10	,7 ?8	5 6	2 3 4

rofins Buffalo	Hazelwood Drive
Eurol	10 Haze



10 Hazelwood Drive Amherst, NY 14228-2298 Phone: 716.691.2601 E-w 716.601 7001	Chair	of Cus	tody R	ecord		i X		🔅 eurofin	IS Environment Testin
	Sampler.								
Client Information (Sub Contract Lab)			Schov	, John R		Carrier Tracking	No(s):	COC No: 480-80376.1	
cuent contact. Shipping/Receiving	Phone:		E-Mail: John.	Schove@et	eurofinsus com	State of Origin: New York		Page: Dare 1 of 1	
Company: Eurofins Environment Testing Northeast,				Accreditations R	Required (See note): w York				
Address: 777 New Durham Road,	Due Date Requested: 5/17/2023							Preservation (Codes:
City: Edison	TAT Requested (days):			影響		ednesrea		A - HCL	M - Hexane N - None
cuson State. Zp: NJ, 08817								B - NACH C - Zn Acetate D - Nitric Acid	0 - AsNaO2 P - Na2O4S Q - Na2SO3
Phone: 732-549-3900(Tel) 732-549-3679(Fax)	PO #;			19.24				F - MeOH G - Amchtor	R - Na2S203 S - H2SO4 T - T5D P-1
Email:	:# OM		T	D)		_		H - Ascorbic Aci	d I - I SF Dodecanydrate U - Acetone V - MCAA
Project Name: Semi Annual	Project #: 48008324			(765) s or N 9, Free				L - EDA	W - pH 4-5 Y - Trizma
Sile: Mineral Springs	SSOW#:			eiqms SD (Ye				t conta Other:	 2 - otner (specify)
Sample Identification - Client ID (Lab ID)	Sample Date Time	Sample Type e (C=comp, G=qrab)	Matrix (www.tor. S=solid. O=vaste/oil. BTETasue. A=Air)	2 0916711 01914 2 001670 00200 2 0016_01060				o tedmuh listo	
	X	Preserva	tion Code:					- pecia	I Instructions/Note:
SW-01 (480-208520-1)	5/3/23 09:20		Water	×				-	
SW-02 (480-208520-2)	5/3/23 08:40		Water	×					
MW-17 (480-208520-3)	5/3/23 12:35	_	Water	×				- +	
MW-13 (480-208520-4)	5/3/23 10:50		Water	×				- +	
	Easter							-	
Note: Since laboratory accreditations are subject to change. Eurofins Environ does not currently maintain accreditation in the State of Origin listed above fr status should be brought to Eurofins Environment Testing Northeast, LLC att	ment Testing Northeast, LLC places or analysis/tests/matrix being analyze ention immediately. If all requested a	the ownership of n 1, the samples mu ccreditations are o	nethod, analyte 8 st be shipped ba urrent to date, re	accreditation c k to the Eurofin turn the signed	compliance upon our subcontrants s Environment Testing Northk Chain of Custody attesting to	L L I act laboratories. This ast, LLC laboratory said compliance to E	s sample shipmen or other instructio curofins Environm	L I the forwarded under ch ns will be provided. An ient Testing Northeast,	nain-of-custody. If the laboratory changes to accreditation LLC.
Possible Hazard Identification				Sample D	Disposal (A fee may be	assessed if ca	mulae ara ra	tained longer that	4 month!
Unconfirmed				Ret	turn To Client	Disposal Bv La		Archive For	Months
Deliverable Requested: I, II, IV, Other (specify)	Primary Deliverable Ran	K: 2		Special In	nstructions/QC Requiren	ients:			2000
Empty Kit Relinquished by:	Date:			lime:		Method of	Shipment:	Hater	
Relinquished by:	Date/Time	(800	Company	Receive	ed by:		Date/Time:	3 101 W	Company
Reinauished by	Datoffisso.		fundino		- An na		Date/ I ime:		Company
	Date/ Lime:		Company	Receive	ed by:		Date/Time:		Company
Custody Seals Intact: Custody Seal No.: 205	7263			Cooler	Temperature(s) °C and Other	Remarks:			
				1	219 2.0	c 12.0	20		Ver: 06/08/2021
				14 15	11 12 13	9 10	8	5 6 7	2 3 4 5
				5	8				

Eurofins Buffalo	0 Hazelwood Drive
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Chain of Custody Record



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Amherst, NY 14228-2298 Phone: 716-691-2600 Fax: 716-691-7991	Cital	טו כעסיכעץ			Environment	Testing
Client Information (Sub Contract Lab)	Sampler:		Lab PM: Schove, John R	Carrier Tracking No(s):	COC No: 480-80418 1	Г
Client Contact: Shipping/Receiving	Phone:		E-Mail: John.Schove@et.eurofinsus.com	State of Origin: New York	Page:	Т
Company: Eurofins Environment Testing Northeast,			Accreditations Required (See note): NELAP - New York			Γ
Address: 777 New Durtham Road,	Due Date Requested: 5/17/2023		Anal	vsis Requested	Preservation Codes:	Τ
cuy: Edison State. Zip	TAT Requested (days):				A - HCL M - Nexane B - NaOH N - None C - Zn Acetate P - Na2O4S D - Ninc Acid Q - Na2SO3	
Phone: 732-549-3900(Tel) 732-549-3679(Fax)	PO #:		(0		F - NartSU4 F - MeOH F - MeOH G - Amchior F - TSP Dodeca	/drate
Email	#OM		01 NC		I - Ice V - MCAA	
Project Name: GEI, Mineral Springs	Project #: 48008324		9 (Yes 15 Of A 16, Free		K - EDTA W - PH 4-5 K - EDTA Y - Trizma L - EDA 7 - other (snectify	
ste: Mineral Springs	SSOW#:		Dinsy Dinsy		Other:	
Sample Identification - Client ID (Lab ID)	Sample Date Time	Type Natri Type Samie Carabi (C=comp, Carabi G=drab)	ور تعدید جر Perform MS/M M/SM mroned S M/SM mrone Perform Performed S			
	X	Preservation Coc			- special instructions/No	
MW-12 (480-208567-3)	5/4/23 09:30 Fastern	Wate	er X			
MW-16 (480-208567-4)	5/4/23 09:20	Wate	X			
						Τ
						Τ
						T
						Τ
Note: Since laboratory accreditations are subject to change. Eurofins Environr does not currently maintain accreditation in the State of Origin listed above for status should be brought to Eurofins Environment Testing Northeast, LLC attei	ment Testing Northeast, LLC places the analysis/tests/matrix being analyzed, ti intion immediately. If all requested acci	ownership of method, an ne samples must be ship editations are current to o	ailyte & accreditation compliance upon our ped back to the Eurofins Environment Test bate. return the signed Chain of Custody at	Subcontract laboratories. This sample shipment is ing Northeast. LLC laboratory or other instructions itesing to said compliance to Eurofins Environment	f forwarded under chain-of-custody. If the will be provided. Any changes to accredit t Testing Northeast, LLC.	aboratory ion
Possible Hazard Identification			Sample Disposal (A fee	may be assessed if samples are retain	ned longer than 1 month)	Τ
Unconfirmed Deliverable Bennissted: 1-11-111-107 Abor formation			Return To Client	Disposal By Lab	chive For Months	
	Primary Ueliverable Kank:	7	Special Instructions/QC R	kequirements:		
Empty Kit Relinquished by	Date:		Time:	Method of Shipment:		
Relinquished by:	Date/Time:	Company Company	HB Received by: Received by:	-fro ria Rue 3/u/27 DaterTime	Company Company C	4
Relinquished by	Date/Time:	Company	Received by:	Date/Time:	Company	
Custody Seals Intact: Custody Seal No.: 200 497 §	7		Cooler Temperature(s) °C a	and Other Remarks 2.7° (7	Dat cl.	Τ
			D. 50 D. 1	a 3,12/2 (2)	9 / 1 0 Ver: 06/08/20]_
			12 13 14 15	8 9 10	3 4 5 - 6	

Login Sample Receipt Checklist

Client: GEI Consultants, Inc.

Login Number: 208476 List Number: 1 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	NFG
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Number: 208476 List Number: 2 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	
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	
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	

Job Number: 480-208476-1 SDG Number: 480-208476-1

List Source: Eurofins Edison

List Creation: 05/04/23 12:14 PM

Login Sample Receipt Checklist

Client: GEI Consultants, Inc.

Login Number: 208520 List Number: 1 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	GEI
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

List Source: Eurofins Buffalo

Login Number: 208520 List Number: 2 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	
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	
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	

Job Number: 480-208476-1 SDG Number: 480-208476-1

List Source: Eurofins Edison

List Creation: 05/05/23 12:42 PM

Login Number: 208567 List Number: 1 Creator: 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	
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	GEI
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	

Job Number: 480-208476-1 SDG Number: 480-208476-1

List Source: Eurofins Buffalo

Login Number: 208567 List Number: 2 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	
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	
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	

Job Number: 480-208476-1 SDG Number: 480-208476-1

List Source: Eurofins Edison

List Creation: 05/08/23 12:43 PM

2023 First Semiannual Groundwater/Surface Water Quality Monitoring and Special Groundwater Quality Assessment Report Mineral Springs Road Former MGP Site (NYSDEC #V00195) West Seneca, New York August 2023, Rev. March 2024

Appendix E

Data Usability Summary Review



Site:	Mineral Springs MGP
Laboratory:	Eurofins, Amherst, NY
Report Numbers:	480-208476, 480-208520, 480-208567, and 480-208518
Reviewer:	Lorie MacKinnon/GEI Consultants
Date:	June 23, 2023

Samples Reviewed and Evaluation Summary

FIELD ID	LAB ID	FRACTIONS VALIDATED	
MW-10	480-208476-01	BTEX, PAH	
MW-14	480-208476-02	Total/Free Cyanide	
MW-23	480-208476-03	BTEX, PAH, Total/Free Cyanide	
MW-20	480-208476-04	Total/Free Cyanide	
MW-21	480-208476-05	Total/Free Cyanide	
MW-22	480-208476-06	Total/Free Cyanide	
MW-11A	480-208476-07	BTEX, PAH, Total/Free Cyanide, TSS	
Duplicate	480-208476-08	BTEX, PAH, Total/Free Cyanide	
EB	480-208476-09	BTEX, PAH, Total/Free Cyanide	
SW-01	480-208520-01	BTEX, PAH, Total/Free Cyanide, TSS	
SW-02	480-208520-02	BTEX, PAH, Total/Free Cyanide, TSS	
MW-17	480-208520-03	BTEX, PAH, Total/Free Cyanide	
MW-13	480-208520-04	BTEX, PAH, Total/Free Cyanide	
TB	480-208520-05	BTEX	
MW-07	480-208567-01	BTEX, PAH	
MW-19	480-208567-02	BTEX, PAH	
MW-12	480-208567-03	Total/Free Cyanide	
MW-16	480-208567-04	Total/Free Cyanide	
TB	480-208567-05	BTEX	
MW-07 BAILER	480-208518-01	BTEX, PAH	
MW-19 BAILER	480-208518-02	BTEX, PAH	
MW-12 BAILER	480-208518-03	Total/Free Cyanide	
MW-16 BAILER	480-208518-04	Total/Free Cyanide	

Associated QC Samples:

Equipment blank/Trip blanks:	EB, TB, TB
Field duplicate pair:	MW-23/Duplicate

The above-listed aqueous samples, equipment blank, and trip blank samples were collected on May 2, 3, and 4, 2023 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.

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

In general, all 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, laboratory blank contamination results, LCS/LSCD precision 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 packages were complete as received by the laboratory with the following exception: The VOC tune and initial calibration verification results for initial calibration performed on instrument HP5973S on 05/04/23 was missing. The information was requested and a revised data report 480-208518 was received for review.

Holding Times and Sample Preservation

All hold time and preservative criteria were met except where noted below. Due to low level blank contamination, select samples were re-extracted or re-analyzed outside of hold time.

Sample	Affected analyte	Hold Time Exceedance	Criteria	Validation Actions
MW-10 RE	Naphthalene	3 days		Due to associated naphthalene
MW-11A RE		3 days	7 days	laboratory blank contamination in the

Sample	Affected analyte	Hold Time Exceedance	Criteria	Validation Actions
SW-01 RE		2 days		original analysis, the reanalysis was chosen for reporting purposes. Estimate
SW-02 RE		2 days		(UJ) the nondetect results for
MW-13 RE		2 days		analyses.
MW-17		8 days	14 days	Estimate (J) positive result for total cyanide in sample MW-17; Low bias.
MW-12 RE	Total Cvanide	12 days		The samples were analyzed at dilutions
MW-16 RE		12 days		out of hold time to bring results within the calibration range. Estimate (J) the positive results for total cyanide in samples MW-12 and MW-16; Low bias.

Initial and Continuing Calibrations

All initial and continuing calibration criteria were met.

<u>Blanks</u>

Contamination was not detected in the associated method and instrument blank samples and equipment and trip blank samples except where noted below. Evaluation was performed before the application of dilution factors.

Analyte	Blank ID	Maximum Concentration	2X Action Level	10X Action Level	Validation Actions
Naphthalene	Method MB 480- 668289	0.524 ug/L	1.05 ug/L	5.2 ug/L	Naphthalene was detected below the 10X blank level in samples MW-10, MW-11A, SW-01,
	00020)				SW-02, and MW-13. Validation action was not
					samples were reported from the re-extraction analyses for these samples.
Associated San BAILER, MW	nples: MW-10, MW -19 BAILER	/-23, MW-11A, D	uplicate, EB,	SW-01, SW-0	02, MW-17, MW-13, MW-07, MW-19, MW-07
Total Cyanide	05/12 Instrument blanks	0.015 mg/L	0.030 mg/L	0.15 mg/L	Validation actions were not required.
Associated sam	ple: EB				
Total Cyanide	05/15 Instrument blanks	0.0145 mg/L	0.029 mg/L	0.145 mg/L	Estimate (J) the positive result for total cyanide in sample MW-20 (DL) as estimated (J); High bias.
Associated sam	ples: MW-14, MW-	-23, MW-20 DL,	MW-21, MW	-22, MW-11A	, Duplicate, SW-01, SW-02, MW-13
Total Cyanide	05/16 Instrument blanks	0.0116 mg/L	0.023 mg/L	0.116 mg/L	Estimate (J) the positive result for total cyanide in sample MW-16 BAILER as estimated (J); High bias.
Associated sam	ples: MW-12 BAIL	ER DL, MW-16	BAILER DL		
Total Cyanide	05/16 Instrument blanks	0.033 mg/L	0.066 mg/L	0.33 mg/L	Validation actions were not required; reanalysis results were chosen for reporting purposes.
Associated sam	ples: MW-12, MW-	-16			

Analyte	Blank ID	Maximum Concentration	2X Action Level	10X Action Level	Validation Actions		
Total Cyanide	05/25 Instrument blanks	0.0094 mg/L	0.019 mg/L	0.094 mg/L	Estimate (J) the positive result for total cyanide in sample MW-17 as estimated (J); High bias.		
Associated san	Associated sample: MW-17						
Total Cyanide	05/30 Instrument blanks	0.0098 mg/L	0.020 mg/L	0.098 mg/L	Validation actions were not required.		
Associated sam	Associated samples: MW-12 RE, MW-16 RE						

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 \leq 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 MW-23 and SW-01 for total cyanide. All validation recovery criteria were met.

Batch MS/MSDs were performed on non-project samples for all other analyses. These results were not used to qualify project samples due to differences in matrix, type, etc.

Laboratory Duplicate Results

Laboratory duplicate analyses were performed on samples MW-23 and SW-01 for total cyanide and sample SW-01 for total suspended solids. Criteria were met.

Internal Standard Results

All criteria were met.

LCS/LCSD Results

All recovery and precision criteria were met except where noted below.

LCS ID	Analyte	Recovery (%)	RPD (%)	Control Limits (%)	Validation Action/Bias
SVOCs					
	Anthracene	-	16	15	Estimate (J) the positive results for anthracene and fluoranthene
LCS\LCSD 480-	Fluoranthene	-	17	15	in sample MW-07 BAILER; Indeterminate bias. Validation action was not required for the remaining samples as the affected compounds were not detected and therefore were not affected by the high precision results.
668289	Chrysene	-	17	15	Validation action was not required as the affected compounds were not detected in the associated samples and therefore were not affected by the high precision results.
Associated samples: MW-10, MW-23, MW-11A, Duplicate, EB, SW-01, SW-02, MW-17, MW-13, MW-07, MW-19, MW-07					
BAILER, MW-19 BAILER					
- Criteria me	t				

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	Duplicate	RPD (%)				
Total Cyanide	0.15 mg/L	0.14 mg/L	6.9				
Free Cyanide	6.5 ug/L	8.5 ug/L	26.7				
NC – Not calculable							
Criteria: When both results are $\ge 5x$ the RL, RPDs must be $<30\%$.							
When results are $< 5x$ the RL, professional judgement was taken to estimate results if the absolute difference between							
the original and field duplicate $> 2 \text{xRL}$.							

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	Total Cyanide Analysis Reported
MW-10	NR	Report result for naphthalene from the re- extraction analysis (5/15). Report all other compounds from initial analysis.	NR
MW-14	NR	NR	2-fold dilution
MW-20	NR	NR	10-fold dilution
MW-21	NR	NR	2-fold dilution
MW-22	NR	NR	2-fold dilution

Sample	VOC Analysis Reported	SVOC Analysis Reported	Total Cyanide Analysis Reported			
MW-11A	A 2-fold dilution was performed due to sample foaming when purged.	Report result for naphthalene from the re- extraction analysis (5/15). Report all other compounds from initial analysis.	NR			
SW-01	NR	Report result for naphthalene from the re- extraction analysis (5/15). Report all other compounds from initial analysis.	NR			
SW-02	NR	Report result for naphthalene from the re- extraction analysis (5/15). Report all other compounds from initial analysis.	NR			
MW-17	A 2-fold dilution was performed due to sample foaming when purged.	A 5-fold dilution was performed.	NR			
MW-13	NR	Report result for naphthalene from the re- extraction analysis (5/15). Report all other compounds from initial analysis.	NR			
MW-07	A 20-fold dilution was performed due to high levels.	A 100-fold dilution was performed due to high levels.	NR			
MW-19	A 100-fold dilution was performed due to high levels.	A 200-fold dilution was performed due to high levels.	NR			
MW-12	NR	NR	Report 2-fold dilution analyzed on 5/30.			
MW-16	NR	NR	Report 2-fold dilution analyzed on 5/30.			
MW-07 BAILER	A 20-fold dilution was performed due to high levels.	The sample was analyzed undiluted and at 50-fold dilution. The results were combined to report all results within the calibration range and the lowest possible reporting limits.	NR			
MW-19 BAILER	A 50-fold dilution was performed due to high levels.	The sample was analyzed undiluted and at 50-fold dilution. The results were combined to report all results within the calibration range and the lowest possible reporting limits.	NR			
MW-12 BAILER	NR	NR	2-fold dilution			
MW-16 BAILER	NR	NR	25-fold dilution			

NR – Dilution was not required or analysis not performed on sample.

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.

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: Semi Annual

Job ID: 480-208476-1 SDG: 480-208476-1

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Client Sample ID: MW-10

Date Collected: 05/02/23 09:30 Date Received: 05/02/23 16:11

p-Terphenyl-d14 (Surr)

Lab Sample ID: 480-208476-1 Matrix: Ground Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Amelicant	DUC
Benzene	1.0	U	1.0	0.41	Dell.		repared	Analyzed	Dir Fac
Ethylbenzene	1.0	ii .	* 0					05/04/23 05:30	1
Toluese	1.0	ĭ.	1.0	0.74	ug/L			05/04/23 05:30	1
Nulse with	1.0	U	1.0	0.51	ug/L			05/04/23 05:30	
Aylenes, lotal	2.0	U	2.0	0.66	ug/L			05/04/23 05:30	1
Surrogate	%Recovery	Qualifier	Limits				Deserved		020200
1,2-Dichloroethane-d4 (Surr)	104	-direction (Mos.	77 120				Prepared	Analyzed	Dil Fac
4-Benmoflurimhenzone (Sure)	1.0-4		11-120					05/04/23 05:30	1
Disconditionabenzene (aun)	97		73-120					05/04/23 05:30	1
Libromotiuoromethane (Surr)	103		75-123					05/04/22 05:20	4
Toluene-d8 (Sun)	100		80 120					0000423 00.30	1
	100		00 = 120					DE 00 4/222 DE 220	

Method: SW846 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Esc
2-Methylnaphthalene	0.52	U	0.52	0.40	ug/L	- 14	05/05/23 07 32	05/10/23 23 35	Lin rac
Acenaphthene	0.52	U	0.52	0.31	ud/L		05/05/23 07:32	05/10/22 22:35	
Acenaphthylene	0.52	U	0.52	0.35	tan/l		05/05/23 07:32	05/10/23 23.35	1
Anthracene	0.52	U.1	0.52	0.41	uell.		05/05/23 07:32	05/10/23 23:35	1
Benzoja]anthracene	0.52	U	0.52	0.42	บกก		05/05/23 07:32	09/10/23 23:35 05/10/23 23:35	- D
Benzojajpyrene	0.52	U	0.52	0.34	ugit		05/05/23 07 32	05/10/23 23:35	1
Benzo[b]fluoranthene	0.52	U	0.52	0.31	ugit		05/05/23 07:32	05/10/23 23:35	12
Benzo[g,h,i]perylene	0.52	U	0.52	0.30	ugit		05/05/23 07:32	05/10/23 23:35	1
Benzo[k]fluoranthene	0.52	Ū.	0.52	0.00	ugit		05/05/23 07:32	05/10/23 23:35	1
Chrysene	0.52	11.4	0.52	0.003	ugit		05/05/23 07:32	05/10/23 23:35	1
Dibenz(a,h)anthracene	0.52	ũ.	36.0	0.00	ug/L		05/05/23 07:32	05/10/23 23:35	10
Fluoranthene	0.52	11.1	0.52	0.34	ugr		05/05/23 07:32	05/10/23 23:35	1
Fluorene	0.52		0.52	0.38	ug/L		05/05/23 07:32	05/10/23 23:35	1
Indenoi1 2 3-edioyrono	0.02	0	0.52	0.39	ug/L		05/05/23 07:32	05/10/23 23:35	8.10
Nanhthalaun da act aport	0.52	U	0.52	0.46	ug/L		05/05/23 07:32	05/10/23 23:35	- t .
Naphthalene (10 hor of a	1.2	81	0.62	0.44	ug/L	_	05/05/23 07:32	05/10/23 23:35	- 1)
Phenanthreno	0.52	U	0.52	0.40	ug/L		05/05/23 07:32	05/10/23 23:35	1
Pyrene	0.52	U	0.52	0.38	ug/L		05/05/23 07:32	05/10/23 23.35	1
Surrogate	%Recovery	Qualifier	Limits				Proparad	Amalumad	DUE
2-Fluorobiphenyl (Surr)	94	0444941000 PO1t	48 - 120				05/05/23 07:32	05/10/23 23-25	Lin Pac
Nitrobenzono-d5 (Surr)	80		46 - 120				05/05/23 07:32	05/10/23 23:35	1

Method: SW846 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH - RE

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Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	0.50	UT. UT	0.50	0.38	ug/L		05/12/23 15:06	05/15/23 14:48	1
Acenaphthene	0.50	UH 1	0.50	0.30	ug/L		05/12/23 15:05	05/15/23 14:48	1
Acenaphthylene	0.50	UH	0.50	0.34	ug/L	-	05/12/23 15:06	05/15/23 14:48	1
Anthracene	0.50	UH	0.50	0.39	ug/L		05/12/23 15:06	05/15/23 14:48	ৰ
Benzoja]anthracene	0.50	UH	0.50	0.40	ug/L		05/12/23 15:06	05/15/23 14:48	4
Benzo[a]pyrene	0.50	UH	0.50	0.33	ug/L		05/12/23 15:06	05/15/23 14:48	4
Benzo[b]fluoranthene	0.50	UH	0.50	0.30	ug/L		05/12/23 15:06	05/15/23 14:48	1
Benzo[g,h,i]perylene	0.50	UH	0.50	0.37	ug/L		05/12/23 15:06	05/15/23 14:48	1
Benzo[k]fluoranthene	0.50	UH	0.50	0.085	ug/L		05/12/23 15:06	05/15/23 14:48	9
Chryseno	0.50	UH	0.50	0.32	ug/L		05/12/23 15:06	05/15/23 14:48	4
Dibenz(a,h)anthracene	0.50	UH 🖌	0.50	0.33	ug/L		05/12/23 15:06	05/15/23 14:48	1
Fluoranthene	0.50	UT UT	0,50	0.36	ug/L		05/12/23 15:06	05/15/23 14:48	4

24-136

Report Naphthaluc only from Re

Eurofins Buffalo

05/05/23 07:32 05/10/23 23:35

05/05/23 07:32 05/10/23 23:35

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Client: GEI Consultants, Inc. Project/Site: Semi Annual

Job ID: 480-208476-1 SDG: 480-208476-1

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Client Sample ID: MW-10 Date Collected: 05/02/23 09:30 Date Received: 05/02/23 16:11

Lab Sample ID: 480-208476-1

Matrix: Ground Water

Analyte	Result	Qualifier	RI	MOI	linit.	Jun Jeve	TAN - RE (continued)	
Fluorene	0.50	TH LAT	0.50	MUL	Unit	D	Prepared	Analyzed	Dil Fac
Indepol1.2.3-cd/pyrepe	0.00	0101	0,50	0.37	ug/L		05/12/23 15:06	05/15/23 14:48	1
Naphthalene	0.50	UH	0.50	0.44	ug/L		05/12/23 15:06	05/15/23 14:48	
Phenanthrene	0.50	UH	0.50	0.42	ug/L		05/12/23 15:06	05/15/23 14:48) .
Pyrene	0.50	UH +	0.50	0.38	ug/L		05/12/23 15:06	05/15/23 14:48	
(Areas	0.50	AH OT	0.50	0.36	ug/L		05/12/23 15:06	05/15/23 14:48	1
Surrogate	%Recovery	Qualifier	1 Jun 100					CARRY & CARRY & COURT AND	
2-Fluorobiphenyl (Surr)	06	woanner	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Sum)	30		48~120				05/12/23 15:06	05/15/23 14:48	1
p-TembenuLd14 (Sum)	11		46.120				05/12/23 15:06	05/15/23 14:48	т
P. Compression (2001)	52		24-136				05/12/23 15:06	05/15/22 14:40	

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Client: GEI Consultants, Inc. Project/Site: Semi Annual

Job ID: 480-208476-1 SDG: 480-208476-1

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Client Sample ID: MW-14 Date Collected: 05/02/23 11:10 Date Received: 05/02/23 16:11

Lab Sample ID: 480-208476-2 Matrix: Ground Water

General Chemistry Analyte	Result Qualifier	RL	MDI	Liet		-	20 57 80	
Cyanide, Total (SW846 9012B)	0.61 8.42	0.000	0 0000	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Free (SW846 9016)		0.020	0.0082	mg/L			05/15/23 11:24	2
	4.9 1	5.0	2.3	ug/L	â	05/10/23 13:41	05/10/23 20:05	

Job ID: 480-208476-1 SDG: 480-208476-1

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Client Sample ID: MW-23	Lab Sample ID
Date Collected: 05/02/23 12:25	Matr
Date Received: 05/02/23 16:11	

Lab Sample ID	:	480-208476-3
Mat	i)	c: Ground Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.41	ug/L			05/04/23 05:52	1
Ethylbenzene	1.0	U	1.0	0.74	ua/L			05/04/23 05:52	1
Toluene	1.0	Ú	1.0	0.51	ug/L			05/04/23 05 52	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			05/04/23 05:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		77-120					05/04/23 05:52	1
4-Bromofluorobenzene (Surr)	92		73-120					05/04/23 05:52	1
Dibromofluoromethane (Surr)	99		75 - 123					05/04/23 05:52	1
Toluene-dB (Sun)	96		80-120					05/04/23 05:52	1

Method: SW846 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	0.54	U	0.54	0.41	ug/L		05/05/23 07:32	05/11/23 00:03	1
Acenaphthene	0.54	u	0.54	0.33	ug/L		05/05/23 07:32	05/11/23 00 03	1
Acenaphthylene	0.54	u	0.54	0.37	ug/L		05/05/23-07:32	05/11/23 00:03	1
Anthracene	0.54	U-1	0.54	0.42	ug/L		05/05/23 07:32	05/11/23 00:03	*
Benzo[a]anthracene	0.54	U	0.54	0.43	ug/L		05/05/23 07:32	05/11/23 00:03	1
Benzo[a]pyrene	0.54	U	0.54	0.36	ug/L		05/05/23 07:32	05/11/23 00:03	1
Benzo[b]fluoranthene	0.54	U.	0.54	0.33	ug/L		05/05/23 07:32	05/11/23 00:03	4
Benzo[g,h,i]perylene	0.54	U	0.54	0.40	ug/L		05/05/23 07:32	05/11/23 00:03	1
Benzo[k]fluoranthene	0.54	U	0.54	0.092	ug/L		05/05/23 07:32	05/11/23 00:03	1
Chrysene	0.54	U -/	0.54	0.35	ug/L		05/05/23 07:32	05/11/23 00:03	1
Dibenz(a,h)anthracene	0.54	U	0.54	0.36	ug/L		05/05/23 07:32	05/11/23 00:03	1
Fluoranthene	0.54	U-1	0.54	0.39	ug/L		05/05/23 07:32	05/11/23 00:03	1
Fluorene	0.54	U	0.54	0.40	ug/L		05/05/23 07 32	05/11/23 00:03	- 1
Indeno[1,2,3-cd]pyrene	0.54	U	0.54	0.48	ug/L		05/05/23 07:32	05/11/23 00:03	÷
Naphthalene	0.54	U	0.54	0.46	ug/L		05/05/23 07 32	05/11/23 00:03	-
Phenanthrene	0.54	U	0.54	0.41	ua/L		05/05/23 07:32	05/11/23 00:03	
Pyrone	0.54	U	0.54	0.39	ug/L		05/05/23 07:32	05/11/23 00:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	83		48-120				05/05/23 07:32	05/11/23 00:03	1
Nitrobenzene-d5 (Sun)	68		46-120				05/05/23 07:32	05/11/23 00:03	1
p-Terphenyl-d14 (Sum)	49		24 - 136				05/05/23 07:32	05/11/23 00:03	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.15	8A2FT	0.010	0.0041	mg/L	- 8	and the second sec	05/15/23 11:45	1
Cyanide, Free (SW846 9016)	6.5		5.0	23	uo/l		05/10/23 13:41	05/10/23 20:05	- 2

Client: GEI Consultants, Inc. Project/Site: Semi Annual

Job ID: 480-208476-1 SDG: 480-208476-1

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Client Sample ID: MW-20 Date Collected: 05/02/23 13:45

Lab Sample ID: 480-208476-4 Matrix: Ground Water Date Received: 05/02/23 16:11

General Chemistry	Result Qualifier	PI	MDI II.	~		VARMAN PO	240400040
Cyanide, Total (SW846 9012B)	0.97-0.49	RL .	MUL Unit	D	Prepared	Analyzed	Dil Fac
Cvanide Free (SW846 9016)	0.07 8 2 3	0,10	0.041 mg/L			05/15/23 11:27	10
	5.9	5.0	2.3 ug/L		05/10/23 13:41	05/10/23 20:05	t

Client: GEI Consultants, Inc. Project/Site: Semi Annual

Job ID: 480-208476-1 SDG: 480-208476-1

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Client Sample ID: MW-21 Date Collected: 05/02/23 15:10

Lab Sample ID: 480-208476-5 Matrix: Ground Water

Date Received: 05/02/23 16:11 General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit		D		12222
Cyanide, Total (SW846 9012B)	0.41	D.AD.	6 000	ALC	Onit	0	Prepared	Analyzed	Dil Fac
Cyanida Eros (SWI946 0040)	0.41	0 2	0.020	0.0082	mg/L			05/15/23 11:29	2
_ oyumbe, Free (SW840 9016)	8.9		5.0	2.3	ug/L	1	05/10/23 13:41	05/10/23 20:05	1

Client: GEI Consultants, Inc. Project/Site: Semi Annual

Job ID: 480-208476-1 SDG: 480-208476-1

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Client Sample ID: MW-22 Date Collected: 05/02/23 14:00 Date Received: 05/02/23 16:11

Lab Sample ID: 480-208476-6 Matrix: Ground Water

General Chemistry

Analyte	Result Qualifier	RI.	MOL	11.404				
Cyanide, Total (SW846 9012B)	0.44 0.40	0.000	MIDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanida Erec (SW846 0046)	0.44 0 2	0.020	0.0082	mg/L			05/15/23 11:32	2
	13.5	5.0	2.3	ug/l.	8	05/10/23 13:41	05/10/23 20:05	

Job ID: 480-208476-1 SDG: 480-208476-1

Client Sample ID: MW-11A Date Collected: 05/02/23 14:30

Date Received: 05/02/23 16:11

Martha I. Division

p-Terphenyl-d14 (Surr)

Lab Sample ID: 480-208476-7

Matrix: Ground Water

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D	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analysis	-
benzene	2.7		20	0.82	uall	- 57	riepareu	Analyzed	Dil Fac
thylbenzene	20	11	2.0	0.02	oger			05/04/23 06:14	2
foluene	2.0	1	2.0	1.5	ndu			05/04/23 06:14	2
Xvlenes Total	6.9	U	2.0	1.0	ug/L			05/04/23 06:14	
Alericational	4.0	U	4.0	1.3	ug/L			05/04/23 06:14	
Surrogate	%Recovery	Qualifier	Limits				Bernard	State Contraction	~
1.2-Dichloroethane-d4 (Surr)	96		77.120				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		72 100					05/04/23 06:14	2
Dibromofluoromethane (Sum)	07		13-120					05/04/23 06:14	2
Toluono de (Sued	97		75 - 123					05/04/23 06:14	2
ionene-uo (Surr)	99		80-120					05/04/22 08:14	

Method: SW846 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

2 Mathula substant	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
z-wentynaphinalene	0.50	U	0.50	0.38	ug/L		05/05/23 07:32	05/11/23 00:30	t
Acenaphthene	2.1		0.50	0.30	ug/L		05/05/23 07-32	05/11/23 00:20	1
Acenaphthylene	1.3		0.50	0.34	ua/l		05/05/23 07:32	0511123-00.30	1
Anthracene	0.50	U ·1	0.50	0.39	unil		05/05/22 07:32	05/11/23 00:30	1
Benzojajanthracene	0.50	U	0.50	0.40	ual		05/05/25 07:32	05/11/23 00:30	
Benzo[a]pyrene	0.50	U	0.50	0.32	ugrt		05/05/23 07:32	05/11/23 00:30	1
Benzo[b]fluoranthene	0.50		0.50	0.00	ugri		05/05/23 07:32	05/11/23 00:30	1
Benzo[g,h,i]perviene	0.50	Ĩ.	0.50	0.30	ug/L		05/05/23 07:32	05/11/23 00:30	1
Benzo[k]fluoranthene	0.50		0.50	0.37	ug/L		05/05/23 07:32	05/11/23 00:30	1
Chrysene	0.00		0.50	0.085	ug/L		05/05/23 07:32	05/11/23 00:30	1
Dibeozía blanthracena	0.50	U - p	0.50	0.32	ug/L		05/05/23 07:32	05/11/23 00:30	1
Fluoranthana	0.50	U .	0.50	0.33	ug/L		05/05/23 07:32	05/11/23 00:30	1
Elioman	0:50	U .D	0.50	0.36	ug/L		05/05/23 07:32	05/11/23 00:30	1
Index It 0.2 d	0.50	U	0.50	0.37	ug/L		05/05/23 07:32	05/11/23 00:30	
indeno[1,2,3-cd]pyrene	0.50	U	0.50	D.44	ug/L		05/05/23 07:32	05/11/23 00:30	
Naphthalene (16 not a	1.7	8 3	0.50	0.42	ug/		05/05/23 07:32	05/11/22 00:30	1
Phenanthrene	0.50	U	0.50	0.38	ug/l		05/05/23 07:32	00/11/23 00.30	
Pyrene	0.50	U	0.50	0.36	ug/L		05/05/23 07.32	05/11/23 00:30	1
Storage and			112200	0.00	MANE.		09/09/23 07:32	05/11/23 00:30	1
Surrogate	%Recovery	Qualifier	Limits				Propaged	American	0.1 5
2-Fluorobiphenyl (Sum)	95	diana and a second	48-120				05/05/99 07-99	Analyzed	Direc
Nitrobenzene-d5 (Surr)	81		46 - 120				05/05/23 07:32	06/10/23 00:30	1
n-Temboout did (Suid							00/03/23/07:32	03/11/23 00:30	1

Method: SW846 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH - RE

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Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	0.50	UH-UJ	0.50	0.38	ug/L		05/12/23 15:06	05/15/23 15:15	
Acenaphthene	1.5	# 1	0.50	0.30	ug/L		05/12/23 15:06	05/15/23 15:15	1 Q
Acenaphthylene	0.76	H J	0.50	0.34	ug/L	-	05/12/23 15:06	05/15/23 15 15	
Anthracene	0.50	UH UT	0.50	0.39	ug/L		05/12/23 15:06	05/15/23 15:15	
Benzo[a]anthracene	0,60	UHI	0.50	0.40	ug/L		05/12/23 15:06	05/15/23 15:15	1
Benzo[a]pyrene	0.50	UH	0.50	0.33	ug/L		05/12/23 15:06	05/15/23 15:15	1
Benzo[b]fluoranthene	0.50	UH	0.50	0.30	ug/L		05/12/23 15:06	05/15/23 15:15	
Benzo[g.h,i]perylene	0.50	UH	0.50	0.37	uq/L		05/12/23 15:06	05/15/23 15:15	1
Benzo[k]fluoranthene	0.50	UH	0.50	0.085	ug/L		05/12/23 15:06	05/15/23 15 15	1
Chrysene	0.50	ЦН	0.50	0.32	Lig/L		05/12/23 15:06	05/15/23 15:15	1
Dibenz(a Hahinracene	0.50	Ин 🖡	0.50	0.33	ug/L		05/12/23 15:06	05/15/23 15:15	1
Elebranthene	0.50	UH UJ	0.50	0.36	ug/L		05/12/23 15:06	05/15/23 15.15	1
Contractor Contractor (17-5			and the second second	- aparter	E C	1. The second	The constraints of the state		

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Eurofins Buffalo

05/05/23 07:32 05/11/23 00:30

Client: GEI Consultants, Inc. Project/Site: Semi Annual

Client Sample ID: MW-11A

Date Collected: 05/02/23 14:30 Date Received: 05/02/23 16:11

Lab Sample ID: 480-208476-7

Matrix: Ground Water

	Analyte	Result	Quali	ifier		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Huorene	0.50	UT	UJ	C	50	0.37	ug/L		05/12/23 15:06	05/15/23 15:15	1
-	indeno[1,2,3-cd]pyrene	0.50	UH	1174	0	50	0.44	ug/L		05/12/23 15:06	05/15/23 15:15	
C	Naphthalene	0.50	UH	UJ	0	50	0.42	ug/L		05/12/23 15:06	05/15/23 15 15	< ·
	Phenanthrene	D 50	UH		0	.50	0.38	ug/L		05/12/23 15:06	05/15/23 15:15	-
	Pyrene	0.50	UH	03	0	50	0.36	ug/L		05/12/23 15:06	05/15/23 15:15	
	Surrogate	%Recovery	Quali	ifier	Limits	5				Propared	American	0115-
	2-Fluorobiphenyl (Surr)	94			48 - 12	20				05/12/22 15-06	Analyzed	Dirac
	Nitrobenzene-d5 (Surr)	78			46.13	20				AE/12/23 10:00	03/13/23 15:15	1
	p-Terphenyl-d14 (Surr)	.52			24 - 1	36				05/12/23 15:06	05/15/23 15:15	7
	General Chemistry											
	Analyte	Result	Quali	fier		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Cyanide, Total (SW846 9012B)	0.20	B 12		0.0	010	0.0041	ma/L	<i>162</i>		05/15/23 11:53	- HITOC
	Cyanide, Free (SW846 9016)	2.3	J			5.0	2.3	ug/L		05/10/23 13:41	05/10/23 20:05	1
	Analyte	Result	Qualit	fier		RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Total Suspended Solids (SM 2540D)	39.2		1997 (mil 1997)		4.0	4.0	mg/L		10000340(53535)	05/08/23 15:44	1

Toluene-d8 (Surr)

Job ID: 480-208476-1 SDG: 480-208476-1

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Client Sample ID: Duplicate Date Collected: 05/02/23 00:00 Date Received: 05/02/23 16:11

Lab Sample ID: 480-208476-8 Matrix: Ground Water

05/04/23 06:36

05/04/23 06:36

- de received. 05/02/25 16	111						12	and an or ound	A wates
Method: SW846 8260C - Ve Analyte Benzene	olatile Organic Result	Compoun Qualifier	ds by GC/MS RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbergene	1.0	U	1.0	0.41	ug/L		1.308(25)2511	05/04/23 06:36	1
Taliana	1.0	u	1.0	0.74	ug/L			05/04/23 06 36	
Toluene	1.0	U	1.0	0.51	ua/L			05/04/02 06:36	1
Aylenes, lotal	2.0	U	2.0	0.66	ug/L			05/04/23 06:36	
Surrogate	%Recoverv	Qualifier	Limite		лёк.		12000 10	10.00 T	,
1,2-Dichloroethane-d4 (Surr)	101	a cannor	77 100				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		77-120					05/04/23 06:35	1
Dibromofluoromethane (Surr)	100		73-720					05/04/23 06:36	1
and the second se	100		22 223					2241 Store (1987) 1120 (Store)	

75-123

80-120

Method: SW846 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

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Analyte Rest	it Qualifier	RL	MDL	Unit	D	Prepared	Amelioned	nu r
2-Methylnaphthalene 0.	52 U	0.52	0.40	ua/l		05/05/23 07-32	Analyzed	Dil Fac
Acenaphthene 0.	52 U	0.52	0.31	uo/l		05/05/22 07:32	05/11/23 00.58	-1
Acenaphthylene 0.	52 U	0.52	0.35	ug/l		05/05/23 07.32	05/11/23 00:58	1
Anthracene 0.	52 U.1	0.52	0.41	ug/l		05/05/23 07.32	05/11/23 00:58	1
Benzo[a]anthracene 0:	52 U	0.52	0.42	unl		05/05/23 07:32	05/11/23 00:58	3
Benzo[a]pyrene 0.5	i2 U	0.52	0.38	ug/L		05/05/23 07.32	05/11/23 00:58	1
Benzo(b)fluoranthene 0.5	i2 U	0.52	0.24	ug/L		05/05/23 07:32	05/11/23 00:58	1
Benzo(g,h,i]perylene 0.5	52 U	0.52	0.31	ug/L		05/05/23 07:32	05/11/23 00:58	1
Berizo[k]fluoranthene 0.5	2 U	0.52	0.00	ug/L		05/05/23 07:32	05/11/23 00:58	1
Chrysene 0.5	2 4	0.52	0.008	Ug/L		05/05/23 07:32	05/11/23 00:58	1
Dibenz(a,h)anthracene 0.5	2 1	0.52	0.33	ug/L		05/05/23 07:32	05/11/23 00:58	1
Fluoranthene	2 11-1	0.52	0.54	ug/L		05/05/23 07:32	05/11/23 00:58	1
Fluorene	2 11	0.52	0.38	ugr		05/05/23 07-32	05/11/23 00:58	1
Indeno[1,2,3-cd]pyrene n #	2 11	0.52	0.39	ug/L		05/05/23 07:32	05/11/23 00:58	1
Naphthalene 0.4	2 11	0.52	0.46	ug/L		05/05/23 07:32	05/11/23 00:58	1
Phenanthrene 0.5	2.0	0.52	0.44	ug/L		05/05/23 07:32	05/11/23 00:58	1
Pyrene	20	0.52	0.40	ug/L		05/05/23 07:32	05/11/23 00:58	1
0.3	2 0	0.52	0.38	ug/L		05/05/23 07:32	05/11/23 00:58	21
Surrogate %Recover	y Qualifier	Limits				Prepared	Analyzed	Dil Eac
2-Fluorobiphenyl (Surr) 8	8	48-120				05/05/23 07:32	05/11/23 00-58	dir ac
Nitrobenzene-d5 (Surr) 7	5	46-120				05/05/23 07:32	05/11/23 00:58	4
p-Terphenyl-d14 (Surr) 4	5	24.136				05/05/23 07:32	05/11/23 00:58	1
General Chemistry								
Analyte Resu	It Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B) 0.1	4 8 12	0.010	0.0041	mg/L			05/15/23 11:56	1
Cyanide, Free (SW846 9016) 8.	5	5.0	2.3	Leg/L		05/10/23 13:41	05/10/23 20:05	

Job ID: 480-208476-1 SDG: 480-208476-1

Client Sample ID: EB

Date Collected: 05/02/23 13:00 Date Received: 05/02/23 16:11

Lab Sample ID: 480-208476-9

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Benzene 1.0 U 1.0 0.41 ug/L 05/04/23 06:59 1 Ethylbenzene 1.0 U 1.0 0.74 ug/L 05/04/23 06 59 1 Toluene 1.0 U 1.0 0.51 ug/L 05/04/23 06:59 1 Xylenes, Total 2.0 U 2.0 0.66 ug/L 05/04/23 06:59 1 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1.2-Dichloroethane-d4 (Surr) 101 77.120 05/04/23 06:59 1 4-Bromofluorobenzene (Surr) 97 73-120 05/04/23 06:59 1 Dibromofluoromethane (Surr) 98 75-123 05/04/23 06:59 1 Toluene-d8 (Surr) 98 80-120 05/04/23 06:59 1

Method: SW846 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methyinaphthalene	0.50	U	0.50	0.38	ug/L		05/05/23 07:32	05/11/23 01:25	1
Acenaphthene	0.50	U	0.50	0.30	ug/L		05/05/23 07:32	05/11/23 01:25	1
Acenaphthylene	0.50	U	0.50	0.34	ug/L		05/05/23 07:32	05/11/23 01:25	
Anthracene	0.50	UN	0.50	0.39	ug/L		05/05/23 07:32	05/11/23 01:25	
Benzo[a]anthracene	0.50	U	0.50	0.40	ug/L		05/05/23 07:32	05/11/23 01 25	4
Benzo[a]pyrene	0.50	U	0.50	0.33	ug/L		05/05/23 07 32	05/11/23 01:25	1
Benzo[b]fluoranthene	0.50	U	0.50	0.30	ua/L		05/05/23 07:32	05/11/23 01:25	100
Benzo[g,h,i]perylene	0.50	U	0.50	0.37	uan		05/05/23 07:32	05/11/23 01-25	
Benzo[k]fluoranthene	0.50	U	0.50	0.085	ua/L		05/05/23 07-32	05/11/23 01:25	- 3
Chrysene	0.50	UN	0.50	0.32	uall		05/05/23 07:32	05/11/23 01:23	
Dibenz(a,h)anthracene	0.50	U	0.50	0.33	ua/l		05/05/23 07:32	05/11/23 01:25	
Fluoranthene	0.50	U 11	0.50	0.36	ue/l		05/05/23 07:32	05/11/23 01:23	
Fluorene	0.50	U	0.50	0.37	ug/l		05/05/23 07:32	05/11/23 01:25	- 2
Indeno[1,2,3-cd]pyrene	0.50	U	0.50	0.44	ani		05/05/23 07:32	05/11/22 01:25	
Naphthalene	0.50	U	0.50	0.42	ug/l		05/05/23 07:32	05/11/23 01:25	
Phenanthrene	0.50	U	0.50	0.38	ugil		05/05/23 07:32	05/11/23 01:25	
Pyrene	0.50	U	0.50	0.36	ug/L		05/05/23 07:32	05/11/23 01:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	87		48-120				05/05/23 07:32	05/11/23 01:25	1
Nitrobenzene-d5 (Surr)	72		46-120				05/05/23 07:32	05/11/23 01 25	1
p-Terphenyl-d14 (Surr)	68		24 - 136				05/05/23 07:32	05/11/23.01:25	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 90128)	0.010	U	0.010	0.0041	mg/L.			05/12/23 18:22	1
Cyanide, Free (SW846 9016)	5.0	U	5.0	2.3	ug/L		05/10/23 13:41	05/10/23 20:05	1

Job ID: 480-208476-1 SDG: 480-208476-1

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Client Sample ID: SW-01 Date Collected: 05/03/23 09:20 Date Received: 05/03/23 13:40

Lab Sample ID: 480-208520-1 Matrix: Surface Water

Analyte	Result	Qualifier	RL	MDI	Unit	D	Draward	20-02 D	1446-147
Benzene	1.0	U	10	0.41	Ling/l		repared	Analyzed	Dil Fa
Ethylbenzene	1.0	11	1.0	0.45	ug/L			05/05/23 18:56	
Toluene	1.0	ă.	1.0	0.74	ug/L			05/05/23 18:56	
Xvience Total	1.0	U	1.0	0.51	ug/L			05/05/23 18:56	
sylones, lotar	2.0	ų	2.0	0.66	ug/L			05/05/23 18:56	
Surrogate	%Recovery	Qualifier	Limits				Break	31 S S	
1,2-Dichloroethane-d4 (Surr)	98		77 120				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	90		70. 120					05/05/23 18:56	1
Dibromofluoromethane (Sum)	101		13-120					05/05/23 18:56	
Tohumo de /Court	101		75-123					05/05/23 18:56	
roudene-de (Sum)	99		80-120					05/05/23 18:56	

Method: SW846 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prenared	Analyzed	DOLESSO?	
2-Methylnaphthalene	0.50	U	0.50	0.38	ug/L		05/05/23 07 32	05/11/23 02:47	UNFAC	
Acenaphthene	0.50	U	0.50	0.30	ug/L		05/05/23 07:32	05/11/23 02:47		i
Acenaphthylene	0.50	U	0.50	0.34	ug/L		05/05/23 07-32	05/11/22 02:47		
Anthracene	0.50	U-1	0.50	0.39	uall		05/05/22 07:32	05/11/25 02,47	- 1	-
Benzo[a]anthracene	0.50	U	0.50	0.40	unll		05/05/23 07.32	05/11/23 02:47	1	
Benzo(a)pyrene	0.50	U	0.50	0.33	ugit		05/05/23 07.32	05/11/23 02:47	1	ŝ
Benzo(b)fluoranthene	0.50	U	0.50	0.30	ug/L		05/05/23 07:32	05/11/23 02:47	1	
Benzo[g,h,i]pervlene	0.50	11	0.50	0.00	ug/c		05/05/23 07:32	05/11/23 02:47	1	
Benzo[k]fluoranthene	0.50		0.50	0.37	ug/L		05/05/23 07:32	05/11/23 02:47	1	
Chrysene	0.50	in the	0.50	0.085	ug/L		05/05/23 07.32	05/11/23 02 47	1	
Dibenz(a h)anthracene	0.50		0.50	0.32	ug/L		05/05/23 07:32	05/11/23 02:47	1	
Fluoranthene	0.50		0.50	0.33	ug/L		05/05/23 07:32	05/11/23 02:47	1	
Ehomen	0.50	Un	0.50	0.36	ug/L		05/05/23 07:32	05/11/23 02:47	1	
Independence in a set	0.50	U	0.50	0.37	ug/L		05/05/23 07:32	05/11/23 02:47	1	
indeno[1,2,3-cd]pyrene	0.50	U	0.50	0,44	ug/L		05/05/23 07:32	05/11/23 02:47	1	
Naphthalene de nor apor	2.2	8 3	0.50	0.42	ug/L		05/05/23 07:32	05/11/23 02:47	1	
Finenanthrene	0.50	U	0.50	0.38	ug/L		05/05/23 07:32	05/11/23 02 47	1	
Pyreno	0.50	U	0.50	0.36	ug/L		05/05/23 07:32	05/11/23 02:47	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Oll Fac	
2-Fluorobiphenyl (Surr)	88		48-120				05/05/23 07 32	05/11/23 02-47	ton rac	
Nitrobenzene-d5 (Surr)	73		46-120				05/05/23 07 32	05/11/23 02:47	4	
p-Terphenyl-d14 (Surr)	55		24-136				05/05/23 07:32	05/11/23 02:47	1	

Method: SW846 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	0.50	UH UT	0.50	0.38	ug/L		05/12/23 15:06	05/15/23 15:43	-1
Acenaphthene	0.50	UH	0.50	0.30	ug/L		05/12/23 15:06	05/15/23 15:43	1
Acenaphthylene	0.50	UH	0.50	0.34	ug/L		-05/12/23 15:06	05/15/23 15:43	1
Anthracene	0.50	UH	0.50	0.39	ught		05/12/23 15:06	05/15/23 15:43	31
Benzo[a]anthracene	0.50	UH	0.50	0.40	ug/L		05/12/23 15:06	05/15/23 15:43	- 31
Benzo[a]pyrene	0.50	UH	0.50	0.33	ug/L		05/12/23 15:06	05/15/23 15:43	1
Benzo(b)fluoranthene	0.50	ut	0.50	0.30	ug/L		05/12/23 15:06	05/15/23 15:43	1
Benzo(g,h,i)perylene	0.50	UH	0.50	0.37	ug/L		05/12/23 15:06	05/15/23 15:43	1
Benzo[k]fluoranthene	0.50	UH	0.50	0.085	ug/L		05/12/23 15:06	05/15/23 15:43	1
Chrysene	0.50	UH	0.50	0.32	ug/L		05/12/23 15:06	05/15/23 15:43	1
Dibenz(a,h)anthracene	0.50	ин 🖌	0.50	0.33	ug/L		05/12/23 15:06	05/15/23 15:43	1
Fluoranthone	0.50	UH UJ	0.50	0.36	ug/L		05/12/23 15:06	05/15/23 15:43	11

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Eurofins Buffalo

6/1/2023

Client: GEI Consultants, Inc. Project/Site: Semi Annual

Job ID: 480-208476-1 SDG: 480-208476-1

Client Sample ID: SW-01

Date Collected: 05/03/23 09:20 Date Received: 05/03/23 13:40

Lab Sample ID: 480-208520-1

Matrix: Surface Water

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le con esta a la	Result	Qual	ifter	RL	MDL	Unit	D	Prepared	Anniument	(Weighter Control of C
luorene	0.50	UT	UT	0.50	0.37	uo/L		05/12/23 15:02	Analyzed	Dil Fac
ideno[1,2,3-cd]pyrene	0.50	UH	1	0.50	0.44	11/2/1		05/12/23 15:00	05/15/23 15:43	1
aphthalene	0.50	UH	-	0.50	0.42	ugit		05/12/23 15:06	05/15/23 15:43	1
henanthrene	0.50	UH	+	0.50	0.42	UgrL		05/12/23 15:08	05/15/23 15:43	1
yrene	0.50	ubr	UJ	0.50	0.38	ug/L		05/12/23 15:06	05/15/23 15:43	1
	0.00	UT		0.50	0.36	ug/L		05/12/23 15:06	05/15/23 15:43	1
urrogate	%Recovery	Qual	fier	Limite				023		
Fluorobiphenyl (Surr)	97		17.00	49 120				Prepared	Analyzed	Dil Fac
trobenzene-d5 (Surr)	70			40 - 120				05/12/23 15:06	05/15/23 15:43	1
Tembenyl-dt4 (Sum)	19			46 - 120				05/12/23 15:06	05/15/23 15:43	1
roupidoly, drift (SSM)	62			24 - 136				05/12/23 15:06	05/15/23 15:43	1
eneral Chemistry										
nalyte	Result	Quali	fier	RL	MDL	Unit	D	Propagad	1011111111111	-
/anide, Total (SW846 9012B)	0.010	U	Desi/i)	0.010	0.0041	moli		riepared	Analyzed	Dil Fac
vanide, Free (SW846 9016)	2.3	J		5.0	22	straff .		05110000 10 11	05/15/23 13:00	1
nalvte	Deceste		et :	0.0	2.5	agic		00/10/23 13:41	05/10/23 20:05	1
tal Suspended Solida (SM 05400)	Result	Qualit	ner	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
un obapendeo Solida (SM 2540D)	4.0	U		4,0	4.0	mg/L		- A A A A A A A A A A A A A A A A A A A	05/09/23 15:20	

Job ID: 480-208476-1 SDG: 480-208476-1

Client Sample ID: SW-02 Date Collected: 05/03/23 08:40

Date Received: 05/03/23 13:40

p-Terphenyl-d14 (Surr)

Lab Sample ID: 480-208520-2

Matrix: Surface Water

knalyte	Result	Qualifier	RL	MDL	Unit	n	Broonroad		2005
Senzene	1.0	U	1.0	0.41	un/l		Frepared	Analyzed	Dil Fac
thylbenzene	1.0	U	1.0	0.74	un/l			05/05/23 19:19	1
oluene	1.0	U	1.0	0.51	uo/l			05/05/23 19:19	1
ylenes, Total	2.0	U	2.0	0.66	ug/L			05/05/23 19:19	1
urrogate	%Recovery	Qualifier	Limits				900 Q	2005-000-000 20-00	
2-Dichloroethane-d4 (Surr)	102		77 120				Prepared	Analyzed	Dil Fac
Bromofluorobenzene (Surr)	89		72 120					05/05/23 19:19	1
ibromofluoromethane (Surr)	100		73-720					05/05/23 19:19	1
oluéne-d8 (Surr)	102		75 - 123					05/05/23 19:19	1
and do (blan)	39		80-120					05/05/23 19-19	

Method: SW846 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

2 Mally days to a	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Eac
2-Methyinaprinalene	0.53	U	0.53	0.40	ug/L		05/05/23 07:32	05/11/23 03:14	t
Acetaphthene	0.53	U	0.53	0.32	ug/L		05/05/23 07 32	05/11/23 03-14	•
Acenaphthylene	0.53	U	0.53	0.36	ua/L		05/05/23 07:32	05/11/23 02:14	
Anthracene	0.53	U	0.53	0.41	ua/L		05/05/23 07:32	05/11/23 03:14	- 1
Benzo[a]anthracene	0.53	U	0.53	0.43	ug/l		05/05/22 07:22	05/11/23 03,14	
Benzo(a)pyrene	0.53	U	0.53	0.35	uall		05/05/22 07.32	05/11/23 03:14	- 20
Benzo[b]fluoranthene	0.53	V	0.53	0.32	vial		05/05/23 07:32	05/11/23 03:14	1
Benzo[g,h,i]perylene	0.53	U	0.63	0.30	ug/L		05/05/23 07:32	05/11/23 03:14	1
Benzo(k)fluoranthene	0.53	11	0.55	0.09	UGVL		05/05/23 07:32	05/11/23 03:14	1
Chrysene	0.53	11-6	0.33	0.090	ogr		05/05/23 07:32	05/11/23 03:14	1
Dibenz(a h)anthracena	0.53	p	0.53	0,34	ug/L		05/05/23 07:32	05/11/23 03:14	1
Fluoranthene	0.55		0.53	0.35	ug/L		05/05/23 07:32	05/11/23 03:14	1
Fluorona	0.53	U T	0.53	0.38	ug/L		05/05/23 07:32	05/11/23 03:14	1
Independent D. P. and Providence	0.53	U	0.53	0.39	ug/L		05/05/23 07:32	05/11/23 03:14	1
inseno[1,2,3-cd]pyrene	0.53	U.	0.53	0.47	ug/L		05/05/23 07:32	05/11/23 03:14	1
Naphthalene Ot AOF apple	1.2	8	0.53	0.45	ug/l		05/05/23 07:32	-05/11/23 03:14	- 1)
Phenanthrene	0.53	U	0.53	0.40	ug/L		05/05/23 07:32	05/11/23 03:14	1
Pyrene	0.53	U	0.53	0.38	ug/L		05/05/23 07:32	05/11/23 03:14	31
Surrogate	%Recovery	Qualifier	Limits				Proparad	Annhord	DUC
2-Fluorobiphenyl (Surr)	98	and the second s	48 120				05/05/22 07:22	Analyzed	Dirfac
Nitrobenzene-d5 (Surr)	82		46 120				05/06/23 07.32	05/11/23 03:14	
			10-160				03/03/23 07:32	00/11/23 03:14	7

Method: SW846 8270D_L	PAH - Semivolatile	Organic Compounds	(GC/MS) Low leve	PAH - RE
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Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	0.50	UT IT	0.50	0.38	ug/L		05/12/23 15:06	05/15/23 16:10	
Acenaphthene	0.50	UH	0:50	0.30	ug/L		05/12/23 15:06	-05/15/23 16:10	1
Acenaphthylene	0.50	UH	0.50	0.34	ug/L		05/12/23 15:06	05/15/23 16:10	1
Anthracene	0.50	UH	0.50	0.39	up/		05/12/23 15:06	05/15/23 16:10	31
Benzo[a]anthracene	0.50	UH	0.50	0,40	ug/L		05/12/23 15:06	05/15/23 16:10	1
Benzo[a]pyrene	0.50	UH	0.50	0.33	ug/L		05/12/23 15:06	05/15/23 16:10	1
Benzo(b)fluoranthene	0.50	UH	0.50	0.30	ug/L		05/12/23 15:06	05/15/23 16:10	1
Benzo(g,h,i]perylene	0.50	UH	0.50	0.37	ug/L		05/12/23 15:06	05/15/23 16:10	1
Benzo[k]fluoranthene	0.50	UH	0.50	0.085	ug/l_		05/12/23 15:06	05/15/23 16:10	1
Chrysene	0.50	UH	0.50	0.32	ug/L		05/12/23 15:06	05/15/23 16:10	1
Dibenz(a,h)anthracene	0.50	цн 🔸	0.50	0.33	ug/L		05/12/23 15:06	05/15/23 16:10	1
Electanthene	0.50	UH W	0.50	0.36	ug/L		05/12/23 15:06	05/15/23 16:10	1

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05/05/23 07:32 05/11/23 03:14

Client: GEI Consultants, Inc. Project/Site: Semi Annual

Job ID: 480-208476-1 SDG: 480-208476-1

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Client Sample ID: SW-02 Date Collected: 05/03/23 08:40 Date Received: 05/03/23 13:40

Lab Sample ID: 480-208520-2

Matrix: Surface Water

Fluorene	Result	Qual	lifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indepol 2.3 edimentes	0.50	41	UT	0.50	0.37	ug/L		05/12/23 15:06	05/15/23 16:10	1
Nanhthalann	0.50	UH.		0.50	0.44	ug/L		05/12/23 15:06	05/15/23 16:10	
Dhompotheses	0.50	UH		0.50	0.42	ug/L		05/12/23 15:06	05/15/23 16:10	
Purene	0.50	UH	+	0.50	0.38	ug/L		05/12/23 15:06	05/15/23 16:10	1
r fedelde	0.50	ULH.	03	0.50	0.36	ug/L		05/12/23 15:06	05/15/23 16:10	
Surrogate	%Recovery	Qual	ifier	Limits				Branand		
2-Fluorobiphenyl (Surr)	101	-		48-120				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	83			46 120				00/12/23 15:06	05/15/23 16:10	1
p-Terphenyl-d14 (Surr)	ET			24 420				05/12/23 15:06	05/15/23 16:10	7
1				24 - 130				05/12/23 15:06	05/15/23 16:10	1
General Chemistry										
Analyte	Result	Quali	fier	RL	MDL	Unit	n	Propaged		-
Cyanide, Total (SW846 9012B)	0.010	U		0.010	0.0041	mail		ricpared	Analyzed	Dil Fac
Cyanide, Free (SW846 9016)	5.0	U		5.0	5.0041	und			05/15/23 13:08	1
Analyte	04/304/401	125050	2794	2.9	2.5	09/IL		05/10/23 13:41	05/10/23 20:05	1
Total Susan ded Cuttle rank advance	Result	Quali	fier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (SM 2540D)	4.0	U		40	4.0	mail	_			动动动动

Eurofins Buffalo

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Job ID: 480-208476-1 SDG: 480-208476-1

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Client Sample ID: MW-17

Date Collected: 05/03/23 12:35 Date Received: 05/03/23 13:40

Lab Sample ID: 480-208520-3

Matrix: Ground Water

Analyte	Result	Qualifier	RL	MDI	Unit	D.	WIGHTSTOOT.	22 22 93	
Benzene	2.0	U	20	0.00	Crinx Line	D D	Prepared	Analyzed	Dil Fac
Ethylbenzene	20	8	2.0	0.02	ug/L			05/05/23 19:41	2
Toluene	2.0	Š.	2.0	1.5	ug/L			05/05/23 19:41	2
Xvienas Total	2.0	U	2.0	1.0	ug/L			05/05/23 19:41	2
A traditional () and bear	4.0	U	4.0	1.3	ug/L			05/05/23 19:41	2
Surrogate	%Recovery	Qualifier	Limits				2		-
1,2-Dichloroethane-d4 (Surr)	94		77 120			_	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		77-120					05/05/23 19:41	2
Dibromofluoromethane (Surr)	37		73-120					05/05/23 19:41	2
Tokiono dB (Sum)	94		75-123					05/05/23 19:41	2
roidene-da (aurr)	97		80-120					05/05/22 10:41	

Method: SW846 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier		RL	MDL	Unit	D	Prepared	American	THE REAL PROPERTY.
2-Methylnaphthalene	2.7	U		27	20	uo/I		05/05/03 07-90	Analyzed	Dil Fac
Acenaphthene	2.7	SU:		27	16	unil		05/05/23 07.32	05/11/23 03:42	5
Acenaphthylene	2.7	U		27	* 9	ugit		05/05/23 07:32	05/11/23 03:42	5
Anthracene	27	4.1		27	1.0	ugr		05/05/23 07:32	05/11/23 03:42	5
Benzo[a]anthracene	27	U		2.7	61	ug/L		05/05/23 07:32	05/11/23 03:42	5
Benzo[a]pyrene	27	11		2.1	2.1	ug/L		05/05/23 07:32	05/11/23 03:42	5
Benzo[b]fluoranthene	27	11		2.1	1.8	ug/L		05/05/23 07:32	05/11/23 03:42	5
Benzolg,h,liperviene	27	7.5		2.7	1.6	ug/L		05/05/23 07:32	05/11/23 03:42	5
Benzofklfluoranthene	2.1			2.1	2.0	ug/L		05/05/23 07:32	05/11/23 03:42	5
Chrysene	2.1			2.7	0.45	ug/L		05/05/23 07:32	05/11/23 03:42	5
Dibenz(a h)anthracence	2.1	01		.2.7	1.7	ug/L		05/05/23 07:32	05/11/23 03:42	5
Fluoraothena	2.7	u		2.7	1.8	ug/L		05/05/23 07:32	05/11/23 03:42	5
Elugine	2,7	0.1		2.7	1.9	ug/L		05/05/23 07:32	05/11/23 03:42	5
Indepeda 2.2 com	2.7	U		2.7	2.0	ug/L		05/05/23 07:32	05/11/23 03:42	5
maeno[1,2,3-colpyrene	2.7	U		2.7	2.3	ug/L		05/05/23 07:32	05/11/23 03:42	5
Naphthalene	2.7	U		2.7	2.2	ug/L		05/05/23 07 32	05/11/23 03:42	5
Phenanthrene	2.7	U		2.7	2.0	ug/L_		05/05/23 07:32	05/11/23 03:42	5
Pyrene	2.7	U		2.7	1.9	ug/L		05/05/23 07:32	05/11/23 03:42	5
Surrogate	%Recovery	Qualifier		Limits				Prepared	Analyzad	Dil Ese
2-Fluorobiphonyl (Surr)	93		2	48-120				05/05/23 07-32	//////////////////////////////////////	UII Fac
Nitrobenzene-d5 (Surr)	76		3	46-120				05/05/23 07:32	05/11/20 03:42	5
p-Terphenyl-d14 (Surr)	64			24 - 136				05/05/23 07:32	05/11/23 03:42	5
General Chemistry										03
Analyte	Result	Qualifier		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.027	HB*+	T	0.010	0.0041	ma/L		A6575377	05/25/23 17:28	1
Cyanide, Free (SW846 9016)	5.0	U		5.0	2.3	ug/L		05/10/23 13 41	05/10/23 20:05	1
								a second a second s		

Job ID: 480-208476-1 SDG: 480-208476-1

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Client Sample ID: MW-13 Date Collected: 05/03/23 10:50 Date Received: 05/03/23 13:40

Lab Sample ID: 480-208520-4 Matrix: Ground Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.41	ug/L			05/05/23 20:03	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			05/05/23 20:03	1
Toluene	1.0	U	1.0	0.51	ug/L			05/05/23 20:03	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			05/05/23 20:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100	50 C	77 - 120					05/05/23 20:03	1
4-Bromofluorobenzene (Surr)	91		73-120					05/05/23 20:03	1
Dibromofluoromethane (Surr)	101		75 - 123					05/05/23 20:03	1
Toluene-d8 (Surr)	99		80 - 120					05/05/23 20:03	1

Method: SW846 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	0.52	U	0.52	0.40	ug/L		05/05/23 07:32	05/11/23 04:09	1
Acenaphthene	0.52	U	0.52	0.31	ug/L		05/05/23 07:32	05/11/23 04:09	1
Acenaphthylene	0.52	U	0.52	0.35	ug/L		05/05/23 07:32	05/11/23 04:09	1
Anthracene	0.52	ut	0.52	0.41	ug/L		05/05/23 07:32	05/11/23 04:09	1
Benzo[a]anthracene	0.52	U	0.52	0.42	ug/L		05/05/23 07:32	05/11/23 04:09	3
Benzo[a]pyrene	0.52	U	0.52	0.34	ug/L		05/05/23 07:32	05/11/23 04:09	4
Benzo[b]fluoranthene	0.52	U	0.52	0.31	ug/L		05/05/23 07:32	05/11/23 04:09	1
Benzo[g,h,i]perylene	0.52	U	0.52	0.39	ug/L		05/05/23 07:32	05/11/23 04:09	1
Benzo[k]fluoranthene	0.52	U	0.52	0.089	ug/L		05/05/23 07:32	05/11/23 04:09	1
Chrysene	0.52	U-A	0.52	0.33	ug/L		05/05/23 07:32	05/11/23 04:09	1
Dibenz(a,h)anthracene	0.52	U	0.52	0.34	ug/L		05/05/23 07:32	05/11/23 04:09	1
Fluoranthene	0.52	U-1	0.52	0.38	ug/L		05/05/23 07:32	05/11/23 04:09	1
Fluorene	0.52	u '	0.52	0.39	ug/L		05/05/23 07:32	05/11/23 04:09	1
Indeno[1,2,3-cd]pyrene	0.52	U	0.52	0.46	ug/L		05/05/23 07:32	05/11/23 04:09	1.
Naphthalene do oot	2.7	8 3	0.52	0.44	ug/L		05/05/23 07:32	05/11/23 04:09	- 1
Phenanthrene	0.52	Ü	0.52	0.40	ug/L		05/05/23 07:32	05/11/23 04:09	1
Pyrene	0.52	U	0.52	0.38	ug/L		05/05/23 07:32	05/11/23 04:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	110		48 - 120				05/05/23 07:32	05/11/23 04:09	1
Nitrobenzene-d5 (Surr)	89		46 - 120				05/05/23 07:32	05/11/23 04:09	7
p-Terphenyl-d14 (Surr)	69		24 . 136				05/05/23 07-32	05/11/23 04-00	

Method: SW846 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH - RE

Analyte	Result	Qua	lifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	0.50	UT	UT	0.50	0.38	ug/L		05/12/23 15:06	05/15/23 46:38	1
Acenaphthene	0.50	UH	1	0.50	0.30	ug/L		05/12/23 15:06	05/15/23 16:38	1
Acenaphthylene	0.50	UH		0.50	0.34	ug/L	~	05/12/23 15:06	05/15/23 16:38	1
Anthracene	0.50	UH		0.50	0.39	ug/t		05/12/23 15:06	05/15/23 16.38	1
Benzo[a]anthracene	0.50	UH		0.50	0.40	ug/L		05/12/23 15:06	05/15/23 16:38	1
Benzo[a]pyrene	0.50	UH	-	0.50	0.33	ug/L		05/12/23 15:06	05/15/23 16:38	1
Benzo[b]fluoranthene	0.50	UH		0.50	0.30	ug/L		05/12/23 15:06	05/15/23 16:38	7
Benzalg,h,ijperylene	0.50	UH	1	0.50	0.37	ug/L.		05/12/23 15:06	05/15/23 16:38	1
Benzo[k]fluoranthene	0.50	UH		0.50	0.085	ug/L		05/12/23 15:06	05/15/23 16.38	٦
Chrysene	0.50	UH		0.50	0.32	ug/L		05/12/23 15:06	05/15/23 16:38	٦
Dibenz(a,h)anthracene	0.50	UH	+	0.50	0.33	ug/L		05/12/23 15:06	05/15/23 16:38	1
Fluoranthene	0.50	ULH	UJ	0.50	0.36	ug/L		05/12/23 15:06	05/15/23 16:38	1

report-only naphthalue From Re

Client: GEI Consultants, Inc. Project/Site: Semi Annual

Job ID: 480-208476-1 SDG: 480-208476-1

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Client Sample ID: MW-13

Date Collected: 05/03/23 10:50 Date Received: 05/03/23 13:40

Lab Sample ID: 480-208520-4

Matrix: Ground Water

Fluorene	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indepoil 2.3-odiowano	0.50	UT UT	0.50	0.37	ug/L		05/12/23 15:06	05/15/23 16:38	1
Naphhalene	0.50	UP 1	0.50	0.44	ug/L		05/12/23 15:06	05/15/23 16:38	1
Phenanthrane	0.50	ин	0.50	0.42	ug/L		05/12/23 15:06	05/15/23 16:38	1
Pyrane	0.50	ЧН .	0.50	0.38	ug/L		05/12/23 15:06	05/15/23 16:38	1
1.31010	0.50	14+ UJ	0.50	0.36	ug/L		05/12/23 15:06	05/15/23 16:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Eac
2-Hubrobiphenyi (Surr)	97		48 - 120				05/12/23 15:06	05/15/23 16:38	1
Warobenzene-d5 (Surr)	81		46 - 120				05/12/23 15:06	05/15/23 16:38	4
p-Terphenyi-a14 (Surr)	54		24-136				05/12/23 15:06	05/15/23 16:38	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	
Cyanide, Total (SW846 9012B)	0.010	U	0.010	0.0041	mg/L		01000000000000	05/15/23 13:12	un rac
Cyanide, Free (SW846 9016)	5.0	U	5.0	23	unit		05/40/00 40 44	00110000 10.10	1

.

Client: GEI Consultants, Inc. Project/Site: Semi Annual Job ID: 480-208476-1 SDG: 480-208476-1

05/05/23 20:26

6

1

Client Sample ID: TB Date Collected: 05/03/23 00:00 Date Received: 05/03/23 13:40

Toluene-d8 (Surr)

Lab Sample ID: 480-208520-5 Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS Analyte Result Qualifier RL MDL Unit Prepared D Analyzed **Dil Fac** Benzene. 1.0 U 1.0 0.41 ug/L 05/05/23 20:26 1 Ethylbenzene 1.0 U 1.0 0.74 ug/L 05/05/23 20:26 1 Toluene 1.0 U 1.0 0.51 ug/L 05/05/23 20:26 4 Xylenes, Total 2.0 U 2.0 0.66 ug/L 05/05/23 20:28 1 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1.2-Dichloroethane-d4 (Surr) 99 77-120 05/05/23 20:26 1 4-Bromofluorobenzene (Surr) 90 73.120 05/05/23 20:26 1 75-123 Dibromofluoromethane (Surr) 98 05/05/23 20:26 1

80-120

98

Job ID: 480-208476-1 SDG: 480-208476-1

Client Sample ID: MW-07

p-Terphenyl-d14 (Surr)

Date Collected: 05/04/23 08:15 Date Received: 05/04/23 11:50

Lab Sample ID: 480-208567-1

Matrix: Water

6

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

P	Result	Qualifier	RL	MDL	Unit	D	Propared	American	-
Benzene	1100		20	0.0	1100		riepared	Analyzed	Dilhac
Ethylbenzene	1100		2.9	0.2	ugn.			05/05/23 21:32	20
Tolueno	1100		20	15	ug/L			05/05/23 21-32	20
i di ante	16	J	20	10	ug/L			05/05/02 04/00	
Xylenes, Total	390		40	12	und.			00/00/23 21:32	20
			796	10	ugn			05/05/23 21:32	20
Surrogate	%Recovery	Qualifier	Limite				2 0	12 O	
1,2-Dichloroethane-d4 (Surr)	108		22 100				Prepared	Analyzed	Dil Fac
4-Bromoflunrohenzene (Surri			11-120					05/05/23 21:32	20
Characterio and Contracterio (Surr)	89		73-120					05/05/22 21-22	20
Dibromonuoromethane (Surr)	91		75.123					0000021.32	20
Toluene-d8 (Sun)	97		90 100					05/05/23 21.32	20
- SALEDO			00-120					05/05/23 21:32	20

Method: SW846 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

48

	Result	Qualifier	RL	MDL.	Unit	D	Prepared	Analyzed	DilEse	
2-Methylnaphthalene	290		52	40	ug/L		05/05/23 07:32	05/11/23 04-37	100	
Acenaphthene	140		52	31	uo/L		05/05/23 07:32	05/11/20 04:07	100	
Acenaphthylene	52	U	52	35	uell		05/05/23 07.32	00/11/20 04:37	100	
Anthracene	52	U-1	52	44	will a second		05/05/23 07:32	05/11/23 04:37	100	
Benzo[a]anthracene	52	11	52	41	ugrt		05/05/23 07:32	05/11/23 04:37	100	
Benzoja]pyrene	52	11	52	42	ug/L		05/05/23 07:32	05/11/23 04:37	100	
Benzolbifluoranthene	50	U.	52	34	ug/L		05/05/23 07:32	05/11/23 04:37	100	
Benzola h linendena	52	U	52	31	ug/L		05/05/23 07:32	05/11/23 04:37	100	
Rectol/Husselle	52	U	52	39	ug/L		05/05/23 07:32	05/11/23 04:37	100	
Denzolkhuoranmene	52	U	52	8.9	ug/L		05/05/23 07:32	05/11/23 04:37	100	
Chrysene	52	n.4	52	33	ug/L		05/05/23 07:32	05/11/23 04:37	100	
Olbenz(a,h)anthracene	52	U	52	34	ug/L		05/05/23 07:32	05/11/22 04-27	+00	
Fluoranthene	52	UT	52	38	90/l		05/05/22 07:22	05/11/23 04:37	100	
Fluorene	52	U.	52	30	und		05/05/23 07.32	00/11/23 04:37	100	
Indeno[1,2,3-cd]pyrene	52	U	52	10	ugic		05/05/23 07:32	05/11/23 04:37	100	
Naphthalene	2700	4	ED		ug/L		05/05/23 07:32	05/11/23 04:37	100	
Phenanthrene	2700	9	52	44	ug/i		05/05/23 07:32	05/11/23 04:37	100	
Pyrepe	52	U.	52	40	ug/L		05/05/23 07:32	05/11/23 04:37	100	
r prono	52	U	52	38	ug/L_		05/05/23 07:32	05/11/23 04:37	100	
Surrogate	%Recovery	Qualifier	Limits				Prenared	Analyzad	DilEne	
2-Fluorabiphenyl (Surr)	17	S1-	48-120				05/05/03 07:32	05/11/22 04:27	JON Fac	
Nitrobenzene-d5 (Surr)	76		46 120				05/05/02 07:32	00171723 04,37	100	
			1.0-14.0				03/03/23/07:32	03/11/23 04:31	100	

24-136

6/1/2023

05/05/23 07:32 05/11/23 04:37

Job ID: 480-208476-1 SDG: 480-208476-1

Client Sample ID: MW-19

Date Collected: 05/04/23 10:50 Date Received: 05/04/23 11:50

Lab Sample ID: 480-208567-2

Matrix: Water

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Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Applyciad	DUF
Benzene	4200		100	41	ua/l		rispared	Analyzeu	Dirac
Ethylbenzene	410		100	74	wall			00/00/23 21:54	100
Toluene	100	1.1	100	P **	ngir			05/05/23 21:54	100
Xvienes Total	100		100	51	ug/L			05/05/23 21:54	100
Stories, Islar	200	U	200	66	ug/L			05/05/23 21:54	100
Surrogate	%Recovery	Qualifier	Limits				Propaged	And and	
1.2-Dichloroethane-d4 (Surr)	99		77 120				Prepareo	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	00		72 120					05/05/23 21:54	100
Dibromofluoromethane (Surd	20		13-120					05/05/23 21:54	100
Tel en la	92		75-123					05/05/23 21:54	100
Toluene-de (Sun)	96		80 - 120					05/05/23 21 54	100

Method: SW846 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	100	Ų	100	79	ug/L	110	05/05/23 07:32	05/11/23 05:04	200
Acenaphthene	100	U	100	63	ug/L		05/05/23 07:32	05/11/23 05:04	200
Acenaphthylene	100	U	100	71	ug/L		05/05/23 07:32	05/11/23 05:04	200
Anthracene	100	U 1	100	81	ug/L		05/05/23 07:32	05/11/23 05:04	200
Benzo[a]anthracene	100	U	100	83	ua/L		05/05/23 07 32	05/11/23 05:04	200
Benzo[a]pyrene	100	U.	100	69	ua/l		05/05/23 07:32	05/11/22 05:04	200
Benzo[b]fluoranthene	100	U	100	63	ua/l		05/05/22 07:22	05/11/23 05:04	200
Benzo(g,h,i)perylene	100	U	100	77	ug/L		05/05/22 07.32	05/11/23 05:04	200
Benzo[k]fluoranthene	100	U.	100	1.8	ug/L		05/05/23 07:32	05/11/23 05:04	200
Chrysene	100	U .4	100	67	cont		05/05/23 07:32	05/11/23 05:04	200
Dibenz(a,h)anthracene	100	11	100	07	ugic		05/05/23 07:32	05/11/23 05:04	200
Fluoranthene	100	11.14	100	09	ug/L		05/05/23 07:32	05/11/23 05:04	200
Fluorene	100	y r	100	75	Ug/L		05/05/23 07:32	05/11/23 05:04	200
Indepol 1 2 3-ordinuroog	100	9	100	11	ug/L		05/05/23 07:32	05/11/23 05:04	200
Nanhthalana	100	u -	100	92	ug/L		05/05/23 07:32	05/11/23 05:04	200
Received	3200	p	100	88	ugit		05/05/23 07:32	05/11/23 05:04	200
Phonanutrene	100	U	100	79	ug/L		05/05/23 07:32	05/11/23 05:04	200
ryrene	100	u	100	75	ug/L		05/05/23 07:32	05/11/23 05:04	200
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	0	S1-	48 - 120				05/05/23 07:32	05/11/23 05:04	200
Nitrobenzene-d5 (Surr)	60		46-120				05/05/23 07:32	05/11/23 05:04	200
p-Terphenyl-d14 (Surr)	53		24-136				05/05/23 07:32	05/11/23 05:04	200

Client: GEI Consultants, Inc. Project/Site: Semi Annual

Job ID: 480-208476-1 SDG: 480-208476-1

Client Sample ID: MW-12 Lab Sample ID: 480-208567-3 Date Collected: 05/04/23 09:30 Date Received: 05/04/23 11:50 Matrix: Water **General Chemistry** Analyte **Result Qualifier** RL MDL Unit D Prepared Cyanide, Total (SW846 9012B) Analyzed Dil Fac 0.69 BA2 T 0.010 0.0041 ma/l 05/16/22 10.00

Cyanide, Free (SW846 9016)	13.3	10	5.0	2.3	ug/L		05/10/23 13:41	05/10/23 20:05	- 1
General Chemistry - RA Analyte	Result	Qualifier	RL	MDI	Unit		0	14009400000	60
Cvanide, Total (SW846 9012B)	6 70	and an other state of the state				0	Prepared	Analyzed	Dil Fac
	0.72	HB- 1	0.020	0.0082	mg/L			05/30/23 12:02	3

Page	32	of	71

Client: GEI Consultants, Inc. Project/Site: Semi Annual

Job ID: 480-208476-1 SDG: 480-208476-1

Client Sample ID: MW-16 Lab Sample ID: 480-208567-4 Date Collected: 05/04/23 09:20 Date Received: 05/04/23 11:50 Matrix: Water **General Chemistry** Analyte **Result Qualifier** RL MDL Unit D Cyanide, Total (SW846 9012B) Prepared Analyzed Dil Fac 2.9 -B -2- J 0.010 0.0041 mg/L Cyanide, Free (SW846 9016) 05/16/23 10:09 59.1 5.0 2.3 ug/L 05/10/23 13:41 05/10/23 20:05 ŧ 6 General Chemistry - RA Analyte **Result Qualifier** RL MDL Unit D Prepared Analyzed Cyanide, Total (SW846 9012B) Dil Fac 3.1 HB- J 0.10 0.041 mg/L 05/30/23 12:05 10

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Job ID: 480-208476-1 SDG: 480-208476-1

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Client Sample ID: TRIP BLANK

Date Collected: 05/04/23 00:00 Date Received: 05/04/23 11:50

Lab Sample ID: 480-208567-5 Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.41	ug/L			05/05/23 22:17	1
Ethylbenzene	10	U	1.0	0.74	ug/L			05/05/23 22:17	1
Toluene	1.0	U	1.0	0.51	ug/L			05/05/23 22:17	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			05/05/23 22:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		77 - 120				30	05/05/23 22:17	1
4-Bromofluorobenzene (Surr)	89		73-120					05/05/23 22:17	1
Dibromofluoromethane (Surr)	87		75 - 123					05/05/23 22:17	1
Toluene-d8 (Surr)	97		80-120					05/05/23 22:17	1

Eurotios Buffalo 10 Mazelwood Drug Amherst NY 14228-2296

Chain of Custody Record

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Emai Waherb@naffuel.com	* QM	the survey and			(ON 4		1			H Ascente A	1.15P.Doeraryo U. Acetare	#
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MW -P		1110	-	Water	×.		×					
MW-23		1225		Water		X	X					
MW-20		345		Water	×		×					100
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52- MW	Att	1400		Water.	-							
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10 Hazelwood Drive

Eurotins Buttalo 1D Hazelwood Diwe Ambesti NY 14228-2298

Chain of Custody Record

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Eurofins Buffalo

Chain of Custody Be



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Amherst, NY 14228-2298 Phone 716-691-2600 Fax 716-691-7991	Ď	5	N Anote	ecora		COLOURS Environment
Client Information (Sub Contract Lab)	Sampler		Lab P Scho	M UR John R	Center Tracking Notal	GOC Na
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Eurodins Environment Testing Northeast,				Accreditions Required [See note) NELAP - New York		Job f April Division A
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Protect Name GEI, Minieral Springs	Ptopect # 48008324			a or Nc a or Nc a or Nc		L - Di Water W- PH 4.5 K - EDTA Y - Trana
Sie Mineral Springs	\$\$00m			ejduei oloek) Os		Conta K- other Conta
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Type (Cscomp	Matrix Investor	2 Detexia biol Mi/SM mobile cer4_\$106/810		o tedmun (eto
		Preser	vation Coda			E Special Instructions/Note
MW-14 (480-208476-2)	5/2/23	Ot	Water	*		X
MW-23 (480-208476-3)	5/2/23	25	Water	*		
MW-20 (480-208476-4)	52/23 13	45	Water			
MW-21 (480-208476-5)	5/2/23	10 10	Water	*		-
MW-22 (480-206476-8)	5/2/23	Sen .	Watez	. ×		
MW-11A (480-208475-7)	5/2/23	100	Water	×		
Duplicate (480-208476-8)	5/2/23 Eas	eth Brin	Water	*		
EB (480-208475-9)	5/2/23 13	00 ern	Water	×		4
Note: Sinnos laboratory accreditations are subject to change. Eurotics Erver	connect Tasking Rectheast, LLC page	the connecting of	method, analyte \$	accreditation control accreditation		
status should be brought to Eucline. Environment Testing Konteaut, L.C.	e for analysisitiestimates being any atténtion immediately. It all'requeste	brot. The samples m d accredications and	rust be shipped free	A to the Eurotics Environment Testing Num the signed Chain of Custody aftesting	iortheast. LLC (abolaacy or office mature) of to said compliance to Eurofins Erven	CONS will be provided. Any changes to acception onment Testing Northward, LLC.
Possible Hazard Identification Uncontinued				Sample Disposal (A fee ma	y be assessed if samples are	retained longer than 1 month)
Deliverable Requested 1, 11, 11, 1V, Other (specify)	Primary Deliverable R	ink 2		Special Instructions/QC Requ	riements	Articitive F.O.
Empty Kir Relinguished by	Date			ime	Method of Shpenari	Feder
atomined by ALD	S-3 23	1800	Company Company	Recorded by Level 1	STUNE Date	B 10105 Company
Reindputhed by	Date/Time		Control Angle	actived a trail		

Custody Seals Intact A Yes A No

/er: 06/08/282

oder Temperatura(s) ⁶C and Other Remarks.

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Custody Seat No.

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Eurofins Buffalo

Chain of Custody Record



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Index Total Total <th< th=""><th>Client Information (Sub Contract Lab)</th><th></th><th></th><th></th><th>Scho</th><th>e, John R</th><th>Carner Tri</th><th>roking No(s)</th><th>COC No</th></th<>	Client Information (Sub Contract Lab)				Scho	e, John R	Carner Tri	roking No(s)	COC No
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Office Stanple Matrix Stanple Stan	Project Name Semi Annual	Project #1 48008324				o v Ne			E K. EDTA V. MCAA
Bandle Identification - Clean (D (Lab ID) Sample Date Sample Vertication Sample Date Sample Vertication Standle Identification - Clean (D (Lab ID) Sample Date Sample Vertication Samp	Site Mineral Spirings	SSOVIE				ebiney) OE			L EDA E - affects
Struct (allo).2005.00.1) Solar Prevention (code) Solar	Sample identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp,	Matrix (w-wate averate of Filteneed	M/SM mohe gerg_arotrarc			to setmit in
SW01 (400-2005/0-1) 54/23 62/20 62/20 62/20 62/20 Water X No N		X	X	Preserva	tion Code	E S			P Special Instructions
SW 02 (db)-2065(2-i) 56023 Earlier Water is a constrained with the constrained and the	SW-01 (480-208520-1)	5/3/23	02.50		Water	*			
Wh: 1: (460, 200520-3) 5/0/23 13.55 Water K 1 1 Wh: 1: (460, 200520-4) 5/0/23 10.55 Water K 1 1 1 Wh: 1: (460, 200520-4) 5/0/23 10.55 Water K 1 1 1 1 Wh: 1: (460, 200520-4) 5/0/23 10.55 Water K 1 </td <td>SW-02 (480-208520-2)</td> <td>\$63(23</td> <td>C840 Eathern</td> <td></td> <td>Water</td> <td>< ×</td> <td></td> <td></td> <td></td>	SW-02 (480-208520-2)	\$63(23	C840 Eathern		Water	< ×			
Wr. 12 (450-2052)(-4) 50/23 70.55/14 50/23 70.55/14 1 Wr. 12 (450-2052)(-4) 50/23 70.55/14 50/23 70.55/14 1 Wr. 12 (450-2052)(-4) 50/23 70.55/14 1 1 1 Wr. 12 (450-2052)(-4) 50/23 50/25/14 1 1 1 Wr. 12 (450-2052)(-4) 50/25/14 50/25/14 1 1 1 Wr. 12 (450-2052)(-4) 50/25/14 50/25/14 50/25/14 1 1 1 Wr. 12 (450-2052)(-4) 50/25/14 50/25/14 50/25/14 1 1 1 1 Wr. 12 (450-2052)(-4) 50/25/14 50/25/14 50/25/14 1 1 1 <	MW-11 (480:208520-3)	5/3/23	12.35		Water				-
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Unconfirmed Unconfirmed Deliverable Requested / II, II/ Other (specify) Primary Deliverable Rank 2 Deliverable Requirements Emply Ke Retinuus keek by Emply Ke Retinuus keek by Emply Ke Retinuus keek by Retinuus	Possible Hazard Identification					Sample Disposal (A fee (taing to said compliance !	o Eurofinis Enverorme	ert Testing Northeast, LLC
Emply Ki Relands every the constant of the struction of the structure of t	Unconfigned Deliverable Requested 1 II. III. IV. Other transmitch	Drimon Dolumo	ALC: DOLA			Return To Client	Disposal By	samples are ret	arred longer than 1 month)
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Recovered by Contraining Contr	Employ or seminative work	Date/Time	Date		Tur	6	Method	al Shipment	ader
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Phone: 715-691-2600 Fax 716-691-2991			n			19	44	Environme
Client Information (Sub Contract Lab)	Sampler			Lab PW Schov	e. John R	Carrier	Tracking Nots)	COC No
Csert.Contect Shupping/Receiving	Phone			E Mail John	chove@et eurofineus o	State of Name	- Criger	480-80418 1 Page
Company Eurobris Environment Testing Northeast.					toreditations Regured (See In ELAP - New York	otel		Page 1 of 1
Admess 777 New Durhem Road,	Due Date Reques	ted			•	advanta Paris		480-208567-1 Preservation Codes:
Cev Edisori	TAT Requested (lays).				larysis Kequesti	p	A - HC1 M - Headro B - NaOH N - None
412 Marsh								C - Zh Acetale 0 - AsNaO2 D - Netic Acid D - Netic Acid D - Netic Acid D - Netic Acid
Picre 732.fd9-3900(Tet) 732.549-3679(Fax)	NO.							F. NaHSOA C. Nuccus F. MeQai R. Na25203
Estat.	#OM				10			H - Ascorbic Acid 1 TSP Bodeci 1. Icu
Project Name CEL: Minneral Springs	Project # 48008324				L OF NG			Cell Note V. MCAA N. EDIA V. PH 45
See Minieral: Springs	\$50W#			otomsi	PDIVEAD			Contail L-LUA Z-other Need
Sample (dentification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp.	N L L	and_3106/810			to hedmuk ist
	X	X	Freservati	on Coole				P Special Instructions/No
MW-12 (480-208567-3)	5/4/23	06 90		Water	×			X
AMAN 96 (480-208567.4)	P.C.M.D.	03.20						
	3	Eastern		Water	×			
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New gives two-aren't acceledations are subject to change. Euclinis Environ does not currently member accreditation in the State of Onige Indust above is scatur-bookd the terrught to Eurodins Environment fracting Northeast, LLC an	ment Testing Northeast L or analysis/betternative best fention mmediately. If all n	LC places the or glacetyced the parallel accred	whership til men Aamples must	hod analyse \$ ac a shupped back to any to care return	Cladification compliance upon on 2 the Eurolos Environment Te- 1 the stated Chain of Custody	ur subcontract laboratories sting Northeast, LLC labor	This sample shapne aloy or other instructio	The second se
Possible Hazard Identification					Sample Disposal (A fe	e may be assessed	if samples are re	are resing Norbeast U.C. fained fonder than 1 month!
Deliverable Requested 1, II, III, IV, Other (specify)	Primary Delivers	ble Parix 2			Return To Chent	Disposal E	5y Lab []	Archive For Months
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Restruction by	DateTune		10	(unertra	Received by		Date Time	Campany
Custody Seals Intact Custody Seal No 20572 3	54				Cooler Temperature 190	and Other Remarks	1346	1 2 2

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

Client Sample ID: MW-07 BAILER

Date Collected: 05/03/23 11:45

Date Received: 05/03/23 13:40

Lab	Sample	ID:	480-208518-1
	140 0 10 11 Webber		Matrix: Water

Job ID: 480-208518-1

Method: SW846 8260C - Volatile Organic Compounds by GC/MS **Dil Fac** Analyzed Prepared MDL Unit D RL **Result Qualifier** Analyte 20 05/05/23 17:32 8.2 ug/L 20 1200 Benzene 20 05/05/23 17:32 20 15 ug/L 1100 Ethylbenzene 05/05/23 17:32 20 20 10 ug/L 16 J . Toluene 20 05/05/23 17:32 40 13 ug/L 430 Xylenes, Total Dil Fac Analyzed Prepared Qualifier Limits %Recovery Surrogate 05/05/23 17:32 20 77-120 104 1,2-Dichloroethane-d4 (Surr) 05/05/23 17:32 20 73-120 100 4-Bromofluorobenzene (Surr) 05/05/23 17:32 20 105 75.123 Dibromofluoromethane (Surr) 20 05/05/23 17:32 80-120 103 Toluene-d8 (Surr)

Method: SW846 8270D LL PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Wethod. 34640 02100_22_1An	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	-
Analyte	-230-1-250	0.50	0.38	ug/L		05/05/23 07:32	05/11/23 01:52	+	20
2-Methyinaphtnalene	120 5 160	0.50	0.30	ug/L		05/05/23 07:32	05/11/23 01:52	T	50
Acenaphthene	120 2 100	0.50	0.34	uo/L		05/05/23 07:32	05/11/23 01:52	1	1.00
Acenaphthylene	3.0	0.50	0.39	uali		05/05/23 07:32	05/11/23 01:52	1	
Anthracene	6.2 - 7 _ 3	0.50	0.40	uni		05/05/23 07:32	05/11/23 01:52	1	Let.
Benzo[a]anthracene	0.50 U	0.50	0.92	ugic		05/05/23 07:32	05/11/23 01:52	1	
Benzo[a]pyrene	0.50 U	0.50	0.00	ugn		05/05/23 07:32	05/11/23 01:52	1	
Benzo[b]fluoranthene	0.50 U	0.50	0.30	ugn.		05/05/23 07-32	05/11/23 01:52	1	
Benzo[g.h,i]perylene	0.50 U	0.50	0.37	ug/L		05/05/23 07:32	05/11/23 01:52	1	
Benzo[k]fluoranthene	0.50 U	0.50	0.085	ug/L		05/05/23 07:32	05/11/23 01-52	1	
Chrysene	0.50 U 1	0.50	0.32	ug/L		05/05/23 07.32	05/11/23 01:52	3	
Dibenz(a,h)anthracene	0.50 U	0.50	0.33	ug/L		05/05/23 07 32	00/11/20 01:52	1.1	
Fluoranthene	0.68 *** J ·	0.50	0.36	ug/L		05/05/23 07 32	DSIT1123 01.52		
Fluorene	46	0.50	0.37	ug/L		05/05/23 07.32	05/11/23 01:52		
indeno[1,2,3-cd]pyrene	0.60 U	0.50	0.44	ug/L		05/05/23 07:32	05/11/23 01:52	1 8	- 50
Nachthalane	400 EB 2900	0.50	0.42	ug/L		05/05/23 07:32	05/11/23 01:52		
Bhananthropp	36	0.50	0.38	ug/L		05/05/23 07:32	05/11/23 01:52		8
Phenantinene	0.90	0.50	0.36	ug/L		05/05/23 07:32	05/11/23 01:52	() ()	40
Fyrene						25 <u>0</u> 2425230000000000000		Dil Es	
Surrogate	%Recovery Qualifier	Limits				Prepared	Analyzed	Dirac	4
2.Elvorobiobenvl (Surr)	86	48-120				05/05/23 07:32	05/11/23 01.52		40 40
Nitrohonzone-d5 (Sutt)	75	46 - 120				05/05/23 07:32	05/11/23 01:52		<u>1</u>
a Temberul did (Sutt)	42	24-136				05/05/23 07:32	05/11/23 01:52	č 3	<i>¥</i> .
h-isthugular and logul									

Method: SW846 8270D LL PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH - DL

Method: 50040 02700_CC_	Deput Qualifier	RI	MDL Unit	D	Prepared	Analyzed	DilFac
Analyte	Result Qualifier	26	19 200/1		05/05/23 07:32	05/11/23 14:35	50
2-Methylnaphthalene	350	20	15. ug/t		05/05/23 07:32	05/11/23 14:35	50
Acenaphthene	160	25	10 ugrt		05/05/23 07:32	05/11/23 14:35	50
Acenaphihylene	25 U	25	17 ug/L		05/05/25 07/54	60/11/20 14/26	50
Anthracana	25 U 1	25	20 ug/L		05/05/23-07-32	05/11/23 14:35	50
Anunacene	25 U	25	20 ug/L	-	05/05/23 07:32	05/11/23 14:35	- 50
Benzo(a)anthracene	25 11	25	47 Ug/L		05/05/23 07:32	05/11/23 14:35	50
Benzo[a]pyrene	25 0	25	15 W0/L		05/05/23 07:32	05/11/23 14:35	50
Benzo[b]fluoranthene	25 0	25	10 ug/		05/05/23 07:32	05/11/23 14:35	50
Benzolg.h.i]perylene	25 0	20	10 ugit		05/05/23 07 32	05/11/23 14:35	50
Benzolk)fluoranthene	25 U	25	4.3 Ug/L		Aciac/22 07-32	05/11/23 14:35	50
Choysene	25 U 1	25	16 ug/L		05/05/25 07.52	05/11/20 14:05	50
Dillass de blacthennene	25 U	25	17 ug/L		05/05/23 07:32	05/11/23 14:35	50
Dibenzta, njamnacene	25 11 4	25	18 ug/L		05/05/23 07:32	05/11/23 14:35	50
Elipronthang	20 0 1						

5/18/2023

Client: GEI Consultants, Inc. Project/Site: GEI, Mineral Springs Job ID: 480-208518-1

Client Sample ID: MW-07 BAILER

Date Collected: 05/03/23 11:45 1. 05100100 40.40

Lab Sample ID: 480-208518-1

05/05/23 07:32 05/11/23 14:35

Matrix: Water

50

Date Received: 05/05/25	13:40								
Method: SW846 8270D_	LL_PAH - Semivo Result	latile Orga Qualifier	nic Compou RL	nds (GC MDL	(MS) Lo Unit	w leve D	Prepared	Continued) Analyzed	Dil Fac
Eluorene	44		25	19	ug/L		05/05/23 07:32	05/11/23 14:35	50
Indepoil 2.3 ortinurona	25	U	25	22	ug/L		05/05/23 07:32	05/11/23 14:35	50
Manhthalana	2900	R	25	21	ug/L		05/05/23 07:32	05/11/23 14:35	50
Naphthalene	24	T	25	19	ug/L		05/05/23 07:32	05/11/23 14:35	50
Pyrene	25	Ŭ	25	18	ug/L		05/05/23 07:32	05/11/23 14:35	50
Surrogata	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2 Elwarabiobagud (Surd	37	S1-	48-120				05/05/23 07:32	05/11/23 14:35	50
2-ribbiobprietlyr (Surf)	67		46 120				05/05/23 07:32	05/11/23 14:35	50
Nitrobenzene-as (Surr)	07		10-120						50

24.136

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p-Terphenyl-d14 (Surr)

Job ID: 480-208518-1

Client Sample ID Date Collected: 05/ Date Received: 05/	D: MW-19 BAILER 03/23 12:30 03/23 13:40					Lat	o Sample	ID: 480-208 Matrix:	518-2 Water
Method: SW846 8	260C - Volatile Organic Result	Compound	is by GC/MS	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Renzene	3200	Goomer	50	21	ug/L			05/05/23 17:55	50
Ethylbenzene	290		50	37	ug/L			05/05/23 17:55	50
Tokiene	50	U	50	26	ug/L			05/05/23 17 55	50
Xylenes, Total	53	J -	100	33	ug/L			05/05/23 17:55	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1.2-Dichloroethane-d4	(Surr) 99	- Constant	77 - 120				1217201420100	05/05/23 17:55	50
4-Rromofluombenzene	(Surr) 98		73-120					05/05/23 17:55	50
Dihmmofluoromethane	(Surr) 98		75-123					05/05/23 17:55	50
Toluene-d8 (Surr)	100		80-120					05/05/23 17:55	50

Method: SW846 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2 Mathylnanhthalene	26	1	0.50	0.38	ug/L		05/05/23 07:32	05/11/23 02:20	1
Accomptibion	0.88		0.50	0.30	ug/L		05/05/23 07:32	05/11/23 02:20	1
Acenaphthelene	0.50	U	0.50	0.34	ug/L		05/05/23 07:32	05/11/23 02:20	1
Anthranana	0.50	U-1	0.50	0.39	ug/L		05/05/23 07:32	05/11/23 02:20	1
Benzolalanthracene	0.50	U	0.50	0.40	ug/L		05/05/23 07:32	05/11/23 02:20	1
Benzolalovrene	0.50	U	0.50	0.33	ug/L		05/05/23 07:32	05/11/23 02:20	1
Benzolbilluoranthene	0.50	U	0.50	0.30	ug/L		05/05/23 07:32	05/11/23 02:20	1 1
Benzola h ilperviene	0.50	U	0.50	0.37	ug/L		05/05/23 07:32	05/11/23 02:20	ħ.
Benzolkifuoranthene	0.50	u	0.50	0.085	ug/L		05/05/23 07:32	05/11/23 02:20	1 1 1
Choreene	0.50	u-1	0.50	0.32	ug/L		05/05/23 07:32	05/11/23 02:20	1
Dihasya basibrarasa	0.50	U	0.50	0.33	ug/L		05/05/23 07:32	05/11/23 02:20	1
Eliorathana	0.50	U -1	0.50	0.36	ug/L		05/05/23 07:32	05/11/23 02:20	1
Floorandiene	0.50	U	0:50	0.37	ug/L		05/05/23 07:32	05/11/23 02:20	7
Fluorene	0.50	1	0.50	0.44	ug/L		05/05/23 07:32	05/11/23 02:20	1 501
Indeno[1,2,3-co]pyrene	-260	FR 1300	* 0.50	0.42	ug/L		05/05/23 07:32	05/11/23 02:20	+ 200
Naphthalene	0.50	0	0.50	0.38	ug/L		05/05/23 07:32	05/11/23 02:20	1
Pyrene	0.50	U	0.50	0.36	s ug/L		05/05/23 07:32	05/11/23 02:20	1
Surranata	%Recoverv	Qualifier	Limits				Prepared	Analyzed	Dil Fac
3 Elicentrichand /Surr	85	i.	48-120				05/05/23 07:32	05/11/23 02:20	1
Nilesborross d5 (Surr)	65		46 - 120				05/05/23 07:32	05/11/23 02:20	7
p-Terphenyl-d14 (Sutt)	45	i	24 - 136				05/05/23 07:32	05/11/23 02:20	1

Method: SW846 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH - DL

Method: SW846 8270D_LL	PAH - Semivo	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	27		25	19	ug/L		05/05/23 07:32	05/11/23 21:30	50
2-Methylnaphthalene	21	lana.	25	15	uoil		05/05/23 07:32	05/11/23 21:30	50
Acenaphthene	25	U	20	17	ugit	-	05/05/23 07:32	05/11/23 21:30	50
Acenaphthylene	25	U	25	11	ugit		00/00/20 07:02	05/11/20 21:00	50
Anthracene	25	UT	25	20	ug/L		05/05/23 07:32	03/11/23 21.30	00
Destalatestatesato	25	U	25	20	ug/L		05/05/23 07:32	05/11/23 21:30	50
Benzolajandinacene	25	n >	25	17	ug/L		05/05/23 07:32	05/11/23 21:30	50
Benzolajpyrene	20	1	25	15	.un/i		05/05/23 07:32	05/11/23 21:30	50
Benzo[b]fluoranthene	20	-	20	10	/l		05/05/23 07:32	05/11/23 21:30	50
Benzo[g,h,i]perviene	25	U	25	19	ugre		05/05/23 07:32	05/11/23 21:30	50
Benzofk!fluoranthene	25	U	25	4.3	ug/L		00/00/20 07.02	05/11/02 01:30	60
Choisene	25	UIT	25	16	ug/L		05/05/23 07:32	05/11/23 21:30	
Dikasaria kiasthroopp	25	i U	25	17	ug/L		05/05/23 07:32	05/11/23 21:30	50
Fluoraphene	25	s u •/	25	18	ug/L		05/05/23 07:32	05/11/23 21:30	50

Client: GEI Consultants, Inc. Project/Site: GEI, Mineral Springs Job ID: 480-208518-1

Client Sample ID: MW-19 BAILER

Date Collected: 05/03/23 12:30

p-Terphenyl-d14 (Surr)

Lab Sample ID: 480-208518-2

Date Received: 05/03/23 13:40

Matrix: Water

Method: SW846 8270	D_LL_PAH - Semivo Result	latile Orga Qualifier	nic Compou RL	nds (GC MDL	(MS) Lo Unit	w leve D	Prepared	Continued) Analyzed	Dil Fac
Eluorano	25	U	25	19	ua/L		05/05/23 07:32	05/11/23 21 30	50
Indepoil 2.3 odlovrana	25	ũ	25	22	ug/L		05/05/23 07:32	05/11/23 21:30	50
Nanhthalene	1300	B	25	21	ug/L		05/05/23 07:32	05/11/23 21:30	50
Phenanthrane	25	J	25	19	ug/L	_	05/05/23 07:32	05/11/23 21:30	50
Pyrene	25	U	25	18	ug/L		05/05/23 07:32	05/11/23 21:30	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
3 Elucrobiobenul (Surd	35	S1-	48-120				05/05/23 07:32	05/11/23 21:30	50
Altrobonzono dE (Surr)	60		46, 120				05/05/23.07.32	05/11/23 21:30	50
narobenzene-us (Surr)	45		24-136				05/05/23 07:32	05/11/23 21:30	50

45

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

Job ID: 480-208518-1

Client Sample ID: MW-12 Date Collected: 05/03/23 12:15 Date Received: 05/03/23 13:40	BAILER					La	b Sample	ID: 480-208 Matrix:	518-3 Water	
General Chemistry Analyte Cyanide, Total (SW846 9012B) Cyanide, Free (SW846 9016)	Result 0.58 3.3	Qualifier B ^2- J .	RL 0.020 5.0	MDL 0.0082 2.3	Unit mg/L ug/L	D	Prepared 05/10/23 13:41	Analyzed 05/16/23 09:45 05/10/23 20:05	Dil Fac 2 1	6
										El

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

Job ID: 480-208518-1

Client Sample ID: MW-16 E Date Collected: 05/03/23 11:15 Date Received: 05/03/23 13:40	BAILER				La	b Sample	ID: 480-208 Matrix:	518-4 Water	
General Chemistry Analyte Cyanide, Total (SW846 9012B) Cyanide, Free (SW846 9016)	Result Qualifier 2.3 BA2 J 12.5	RL 0.25 5.0	MDL 0.10 2.3	Unit mg/L ug/L	D	Prepared 05/10/23 13:41	Analyzed 05/16/23 09:47 05/10/23 20:05	Dil Fac 25 1	6

Eurofins Buffalo

Contraction Non-	Phone 716-691 2600 Fax 216-691 2991								A CONTRACT OF A CONTRACT OF	The second se		
	Client Information	Sympher M. Co	an an in	0	Schor	ve John B			Contractor in a contractor and	480.184	111061949	
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5/18/2023
2023 First Semiannual Groundwater/Surface Water Quality Monitoring and Special Groundwater Quality Assessment Report Mineral Springs Road Former MGP Site (NYSDEC #V00195) West Seneca, New York August 2023, Rev. March 2024

Appendix F

Historic Time-Series Concentration Plots







Nov-24

Nov-24







May-22

May-22

Nov-27

Nov-27





























