Texas Commission on Environmental Quality

Remediation Division Correspondence Identification Form

SITE & PROGRAM AREA IDENTIFICATION

SITE LOCATION				REMEDIATION DIVISION PROGRAM AND FACILITY IDENTIFICATION	
Site Name: **San Miguel Electric Cooperative, Inc.**				Is This Site Being Managed Under A State Lead Contract? ☐ Yes ☑ No	
Address 1: **6200 FM 3387**				Program Area: **IHW CORRECTIVE ACTION**	
Address 2:				Mail Code: **MC-130**	
City: **Christine**		State: **Texas**		Is This A New Site To This Program Area? ☐ Yes ☑ No	
Zip Code: **78026**	County: **Atascosa**			**TCEQ Facility ID No.:**	**CCR 109**
TCEQ Region: **Region 13 - San Antonio**				**--Leave This Field Blank--**	**--Leave This Field Blank--**

DOCUMENT(S) IDENTIFICATION

	PHASE OF REMEDIATION	DOCUMENT NAME
1.	**ASSESSMENT**	**GROUNDWATER (OR OTHER MEDIA) MONITORING REPORT**
2.		
3.		
4.		
5.		

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TCEQ INTERNAL USE ONLY

Document No.	TCEQ Database Term	Document No.	TCEQ Database Term
1.	**GW/MEDIA MONITORING RPT**	4.	
2.		5.	
3.			

Texas Commission on Environmental Quality

Waste Permits Division Correspondence Cover Sheet

Date: January 31, 2025
Facility Name: San Miguel Electric Cooperative, Inc.
Permit or Registration No.: CCR 109

Nature of Correspondence:
☒ Initial/New
☐ Response/Revision to TCEQ Tracking No.: _____ (from subject line of TCEQ letter regarding initial submission)

Affix this cover sheet to the front of your submission to the Waste Permits Division. Check appropriate box for type of correspondence. Contact WPD at (512) 239-2335 if you have questions regarding this form.

Table 1 - Municipal Solid Waste Correspondence

Applications	Reports and Notifications
☐ New Notice of Intent	☐ Alternative Daily Cover Report
☐ Notice of Intent Revision	☐ Closure Report
☐ New Permit (including Subchapter T)	☐ Compost Report
☐ New Registration (including Subchapter T)	☐ Groundwater Alternate Source Demonstration
☐ Major Amendment	☐ Groundwater Corrective Action
☐ Minor Amendment	☐ Groundwater Monitoring Report
☐ Limited Scope Major Amendment	☐ Groundwater Background Evaluation
☐ Notice Modification	☐ Landfill Gas Corrective Action
☐ Non-Notice Modification	☐ Landfill Gas Monitoring
☐ Transfer/Name Change Modification	☐ Liner Evaluation Report
☐ Temporary Authorization	☐ Soil Boring Plan
☐ Voluntary Revocation	☐ Special Waste Request
☐ Subchapter T Disturbance Non-Enclosed Structure	☐ Other:
☐ Other:	

Table 2 - Industrial & Hazardous Waste Correspondence

Applications	Reports and Responses
☐ New	☐ Annual/Biennial Site Activity Report
☐ Renewal	☐ CPT Plan/Result
☐ Post-Closure Order	☐ Closure Certification/Report
☐ Major Amendment	☐ Construction Certification/Report
☐ Minor Amendment	☐ CPT Plan/Result
☐ CCR Registration	☐ Extension Request
☐ CCR Registration Major Amendment	☒ Groundwater Monitoring Report
☐ CCR Registration Minor Amendment	☐ Interim Status Change
☐ Class 3 Modification	☐ Interim Status Closure Plan
☐ Class 2 Modification	☐ Soil Core Monitoring Report
☐ Class 1 ED Modification	☐ Treatability Study
☐ Class 1 Modification	☐ Trial Burn Plan/Result
☐ Endorsement	☐ Unsaturated Zone Monitoring Report
☐ Temporary Authorization	☐ Waste Minimization Report
☐ Voluntary Revocation	☐ Other:
☐ 335.6 Notification	
☐ Other:	

2024 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

San Miguel Electric Cooperative, Inc.
Christine, Atascosa County, Texas

Issued: 31 January 2025

Prepared for: San Miguel Electric Cooperative, Inc.

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2024 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

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1.0 INTRODUCTION

On behalf of San Miguel Electric Cooperative, Inc. (San Miguel), GSI Environmental Inc. (GSI) has prepared this Coal Combustion Residuals (CCR) Annual Groundwater Monitoring and Corrective Action Report for the San Miguel Electric Plant (the Plant) located near Christine, Atascosa County, Texas. This report, prepared in accordance with requirements specified in 40 Code of Federal Regulations (CFR) § 257.90(e) and 30 Texas Administrative Code (TAC) § 352.901 (which incorporates § 257.90 by reference), summarizes activities conducted during the period of 1 January to 31 December 2024 for the CCR management units at the Plant.

1.1 Plant Overview

The Plant has three units used for the management of CCR that are subject to requirements in 40 CFR Part 257, Subpart D and 30 TAC § 352 (herein, "the CCR Rule"): the Ash Pile, the Combined Ash Transport Ponds (Ash Ponds), and the East Equalization Pond (Figure 1).

Ash Pile: The Ash Pile, located northwest of the Plant operations area and east of the Lignite Storage Pile, is a CCR landfill as defined by 40 CFR § 257.53/30 TAC § 352.3 with an area of approximately one acre. It is used for temporary storage of CCR, specifically a stabilized mixture of fly ash and flue gas desulfurization (FGD) scrubber waste treatment sludge. CCR materials are collected from the Ash Pile, typically on a daily basis, and are transported to the mine.

Ash Ponds (Combined Ash Transport Ponds): In 2019-2020, Ash Pond A and Ash Pond B, located along the southern boundary of the Plant and east of the Yard Drainage Retention Pond, were retrofitted to meet the requirements in 40 CFR § 257.70(b)/ 30 TAC § 352.701. Ash Ponds A and B were retrofitted as follows: i) dewatering and removal of all CCR from the ponds (staged at the Ash Pile and transported to the mine), ii) regrading and compacting of the ponds to obtain slopes and surfaces conducive to installation of liner elements, and iii) installation of a 60-mil High Density Polyethylene (HDPE) liner as required by 40 CFR § 257.101(a)(1)/ 30 TAC § 352.1211. The retrofitted Ash Pond A occupies the same footprint as the original Ash Pond A, while Ash Pond B was divided into two parts during the retrofit process, with the current Ash Pond B on the east side of the original footprint, and the South Equalization Basin on the west. The South Equalization Basin replaces the East Equalization Pond which underwent closure in 2021-2022 (discussed below). Overall, the retrofitted Ash Ponds and South Equalization Pond (referred to collectively as the Combined Ash Transport Ponds) occupy the same footprint of former Ash Ponds A and B.

Ash Ponds A and B received process flows from bottom ash transport, stormwater runoff from the Lignite Pile via the Lignite Yard Retention Pond, cooling tower blowdown, plant floor drainage, direct precipitation, stormwater runoff, and boiler feeder treatment wastewater (ERM, 2016). The South Equalization Basin accepts CCR that formerly entered the East Equalization Pond.

East Equalization Pond: The East Equalization Pond, formerly known as the Equalization Pond, is located on the eastern boundary of the Plant property and was formerly used to receive FGD scrubber wastewater (a spent limestone slurry) and treated sewage wastewater from the Plant. San Miguel closed the East Equalization Pond in 2022, which consisted of dewatering, grading, and compaction of sediment, and the installation of the final cap system. The final cap consists of a minimum of two feet of compacted clay with a permeability of less than 1 x 10^{-7} centimeter

per second (cm/s) overlain by at least six inches of topsoil, in accordance with 40 CFR § 257.102(d)(3)/ 30 TAC § 352.1221 (NewFields, 2022). Installation of the final clay cap and topsoil was completed in February 2022.

1.2 Geology & Hydrogeology

Shallow geologic units at the Plant consist of unconsolidated Eocene age sediments of the Jackson Group, with Quaternary alluvium present along surface drainages. The Jackson Group sediments typically comprise surficial and shallow stiff clays overlying a shallow silty to clayey water-bearing sand. This sand is designated as "Unit 22." Unit 22 meets the definition of an "uppermost aquifer" at the Plant based on the CCR Rule (40 CFR § 257.53/30 TAC § 352.3) and is therefore the focus of San Miguel's groundwater monitoring under the CCR Rule. Unit 22 is a green-gray fine-grained clayey glauconitic sand unit. In the immediate Plant area, the upper contact of Unit 22 varies from 5 to 30 feet (ft) below ground surface (bgs) and has a thickness ranging from 5 to 25 ft. Unit 22 is discontinuous in the area northwest of the Plant, and the water-bearing portion of this stratum terminates along a boundary located northwest of the Ash Pile area (see Section 4.2).

2.0 GROUNDWATER MONITORING PROGRAM HIGHLIGHTS, 40 CFR § 257.90(E) AND (E)(1)/ 30 TAC § 352.901

2.1 Status of Groundwater Monitoring Program

The Ash Pile is currently in detection monitoring, in accordance with 40 CFR § 257.94 and 30 TAC § 352.941. The Ash Ponds and East Equalization Pond are in corrective action monitoring that meets the requirements of assessment monitoring pursuant to 40 CFR § 257.98(a)(1)(i)/ 30 TAC §352.981. Groundwater at the three CCR units is monitored on a semiannual basis. A map of the Plant showing the three CCR units and all Plant upgradient and downgradient monitoring wells is provided in Figure 1. Figure 1 also depicts observation wells, groundwater extraction wells and off-Plant (non-CCR) network monitoring wells.

2.2 Summary of Key Actions Completed

Key actions completed for the three CCR units during this reporting period included:

- February 2024 and August 2024 Semiannual Groundwater Monitoring Events, as required by 40 CFR § 257.94 and 30 TAC § 352.941 (Ash Pile) and 40 CFR § 257.95/§ 257.98 and 30 TAC § 352.951/§ 352.981 (Ash Ponds and East Equalization Pond).

Additional activities at the Ash Pile included:

- Re-Testing Events, to confirm statistical significance of initial detected exceedances of background comparison values. Groundwater re-testing events were conducted at the Ash Pile in i) March and May 2024 for the February semiannual event and ii) October and December 2024 for the August semiannual event. The re-testing events are consistent with the 1-of-3 re-testing approach outlined in the Background Comparison Value Update for the unit (GSI, 2021) which is designed to ensure a sitewide false positive rate (SWPFR) of less than 10% (or 5% for each of the two semiannual sampling events; TCEQ 2020, USEPA 2009). Results from the March and May events confirmed a statistically significant increase (SSI) of Calcium in wells SP-03 and SP-32. Initial exceedances of Boron,

Calcium, Chloride, Sulfate and total dissolved solids (TDS) at select wells were not confirmed during these events. Results from the November and December events again confirmed an SSI of Calcium in wells SP-03 and SP-32. Initial exceedances of Boron and Chloride at select wells were not confirmed during these events. Refer to Table 4A for additional details with respect to re-testing events.

- Alternative Source Demonstration. The September 2023 semiannual groundwater monitoring event and November and December 2023 re-testing events confirmed an SSI of Calcium at Ash Pile wells SP-03 and SP-32. An Alternative Source Demonstration (ASD) was submitted for the Ash Pile in accordance with § 257.94(e)(2) on 08 April 2024 (GSI, 2024a).

- Well Installation and Field Data Collection Activities, conducted in support of the ASD analysis for the confirmed SSI of Calcium at SP-03 and SP-32. In July 2024,

    - GSI installed and developed an additional Unit 22 monitoring well SP-35, located adjacent to SP-33 as shown on Figure 1. SP-35 was placed adjacent to SP-33 due to the determination that SP-33 was constructed in a sand layer shallower than Unit 22. Following development of SP-35, depth to water measurements indicated that this well, while correctly installed within Unit 22, is not the most upgradient Ash Pile well, and will be included as an observation well in the Ash Pile monitoring network. SP-34 will continue as the designated upgradient monitoring well for the Ash Pile.

    - To support evaluation of the Ash Pile as a potential source, as well as a second potential source of wash water from the limestone management area that was identified during a site walk conducted on May 25, 2024, water samples collected from the Ash Settling Tank and Limestone Management Area, and groundwater samples collected from a subset of Ash Pile wells were analyzed for $\delta^{13}C$ dissolved organic carbon and the $\delta^{34}S$ of sulfate and Appendix III metals analysis. See ASD submitted on 09 August 2024 (GSI, 2024b) for more detail.

- Alternative Source Demonstration. The February 2024 semiannual groundwater monitoring event and March and May 2024 re-testing events confirmed an SSI of Calcium at Ash Pile wells SP-03 and SP-32. An ASD was submitted for the Ash Pile in accordance with § 257.94(e)(2) on 09 August 2024 (GSI, 2024b).

Additional actions for the Ash Ponds and East Equalization Pond included:

- Continued Implementation of the Groundwater Remedy for the Ash Ponds and East Equalization Pond. Continued implementation of the remedy was performed via operation and maintenance of six solar-powered groundwater extraction wells, placed at areas of elevated chemical of concern (COC) concentrations in groundwater downgradient of the referenced units. This work was performed in accordance with the requirements of 40 CFR § 257.98/ 30 TAC § 352.981.

2.3 Description of Problems Encountered and Resolution

During the reporting period, the following issues were identified with the groundwater monitoring programs at the Ash Pile, Ash Ponds and Equalization Pond:

- At the Ash Pile, the detection limits for fluoride were higher than the background comparison values at select wells during the February 2024 event (Table 4A). This is a result of laboratory sample dilution necessary to bring the concentration of target analytes within the calibration range. Dilution is unavoidable when the concentrations of target analytes exceed the upper calibration range.

- At the Ash Ponds, the detection limits for antimony, chromium, lead and thallium were higher than the groundwater protection standards (GWPS) during the August 2024 event (Table 4B). This is a result of laboratory sample dilution necessary to bring the concentration of target analytes within the calibration range. Dilution is unavoidable when the concentrations of target analytes exceed the upper calibration range.

- At the Equalization Pond, the detection limits for antimony, arsenic, chromium, lead, selenium and thallium were higher than the groundwater protection standards (GWPS) during the August 2024 event (Table 4C). This is a result of laboratory sample dilution necessary to bring the concentration of target analytes within the calibration range. Dilution is unavoidable when the concentrations of target analytes exceed the upper calibration range.

2.4 Projected Key Activities for the Upcoming Year

In 2025, projected key activities include:

- Semiannual groundwater monitoring at the CCR units, as required by 40 CFR § 257.94/ 30 TAC § 352.941 (Ash Pile) and § 257.98(a)(1)(i) (Ash Ponds and East Equalization Pond).

- Continued implementation of the groundwater remedy for the Ash Ponds and East Equalization Pond in accordance with the requirements of 40 CFR § 257.98/ 30 TAC § 352.981.

- In 2021, USEPA approved the Texas partial CCR state permit program, which allows the Texas Commission on Environmental Quality (TCEQ) to enforce rules promulgated under its solid waste statute related to CCR activities. San Miguel submitted a Registration Application dated 21 January 2022 to the TCEQ for the three CCR units at the Plant that are subject to regulation under 40 CFR § 257 and 30 TAC § 352 (GSI, 2022). TCEQ requested additional information to demonstrate compliance with 30 TAC § 305 and 352 in Notice of Deficiency (NOD) letters dated 27 June 2022, 22 September 2022, and 6 December 2023, respectively. San Miguel provided NOD responses on 18 July 2022, 21 October 2022, and 5 January 2024, respectively, which are currently under review by TCEQ. It is anticipated that TCEQ's review will be completed and CCR registration issued in 2025.

- The August 2024 semiannual groundwater monitoring event and October and December 2024 re-testing events confirmed an SSI of Calcium at Ash Pile wells SP-03 and SP-32.

In accordance with 40 CFR § 257.94/ 30 TAC § 352.941, an ASD will be prepared and submitted to TCEQ on or before March 9, 2025.

3.0 GROUNDWATER MONITORING WELL NETWORK, 40 CFR § 257.90(E)(2)/ 30 TAC § 352.901

3.1 CCR Unit-Specific Monitoring Wells

The groundwater monitoring well network for the CCR units at the Plant consists of 32 monitoring wells installed between July 2015 and July 2024 (AECOM, 2018; ERM, 2017) (Figure 1). The well network includes: five monitoring wells for the Ash Pile, eleven monitoring wells for the Ash Ponds, nine monitoring wells for the East Equalization Pond, and seven groundwater observation wells (Table 1). The wells are screened in Unit 22.

Pursuant to 40 TAC § 257.91(c)(1)/ 30 TAC § 352.911, each CCR unit has a minimum of one upgradient and three downgradient wells. Semiannual monitoring continues to be conducted, as described in Section 5.0. The purpose of this monitoring is to measure groundwater elevations across the Plant and to evaluate possible changes in groundwater quality associated with each unit. The observation wells are used principally for groundwater elevation measurements.

One observation well, SP-35, was added to the Ash Pile monitoring well network in 2024. No monitoring or observation wells were removed from the CCR unit-specific monitoring well network in 2024. All wells were found to be in good working condition during the February and August 2024 sampling events.

3.2 Additional Groundwater Monitoring at the Plant

There were no changes to the CCR unit-specific monitoring well network in 2024. Routine monitoring of the Ash Pond and East Equalization Pond extraction wells is ongoing to assess performance of the system (see Section 6.5).

4.0 GROUNDWATER MONITORING DATA, 40 CFR § 257.90(E)(3)/ 30 TAC § 352.901

4.1 Summary of Groundwater Samples Collected

Field measurements and groundwater sampling were performed in general accordance with the Groundwater Sampling and Analysis Plan (GSI, 2019). The sample collection and analytical procedures presented in the Sampling and Analysis Plan are consistent with current industry standards and practices and meet the requirements in 40 CFR § 257.93/ 30 TAC §352.931.

A summary of groundwater samples collected for the CCR unit semiannual monitoring events is provided in Table 1. Specifically, this table provides the number of groundwater samples that were collected for analysis from each upgradient and downgradient well, the sampling date, and regulatory program, as required by 40 CFR § 257.90(e)(3)/ 30 TAC §352.901.

4.2 Groundwater Flow Direction

The semiannual groundwater monitoring events were conducted in February 2024 and August 2024. Upgradient, downgradient, and observation wells were gauged prior to sampling, and the

resulting groundwater elevation data are summarized in Table 2. In general, a hydrologic high in the northwest corner of the Plant causes localized radial groundwater flow in the vicinity of the Ash Pile, and southeast to easterly flow in the vicinity of the Ash Ponds and East Equalization Pond (Figures 2 and 3). The Ash Pile is in a transitional zone where Unit 22 thins and rises in elevation westward, with the water-bearing portion of this stratum terminating along a boundary northwest of observation well SP-33 (Figures 2 and 3).

4.3 Semiannual Groundwater Monitoring Results

In addition to water level gauging, the semiannual groundwater monitoring events included measurement of field parameters prior to sample collection. Field measurements included temperature, pH, specific conductance, oxidation-reduction potential, dissolved oxygen, and turbidity (Table 3). Results from the February 2024 and August 2024 groundwater monitoring events at the CCR upgradient and downgradient wells are summarized in Tables 4A – 4C. Cumulative results for all CCR network wells are provided in Appendix A.

- Ash Pile: At the Ash Pile, the upgradient and downgradient wells were sampled and analyzed for Appendix III constituents, consistent with the requirements for detection monitoring (40 CFR § 257.94(a)/ 30 TAC § 352.941). Results are summarized in Table 4A. The Appendix III constituents with initial exceedances of background values in 2024 were Boron (SP-02 and SP-32), Calcium (SP-34, SP-01, SP-03 and SP-32), Chloride (SP-03 and SP-32), Sulfate (SP-02) and TDS (SP-34). Resampling events in accordance with the 1-of-3 re-testing approach outlined in the Background Comparison Value Update for the unit (GSI, 2021) did not confirm initial exceedances of Boron, Chloride, Sulfate, or TDS. However, resampling events did confirm SSIs of Calcium at wells SP-03 and SP-32.

- Ash Ponds: At the Ash Ponds, the upgradient and downgradient wells were sampled and analyzed for Appendix III and IV constituents, consistent with the requirements for assessment (40 CFR § 257.95/ 30 TAC §352.951) and corrective action monitoring (40 CFR § 257.98(a)(i)/ 30 TAC § 352.981). The 2024 semiannual monitoring results for the Ash Ponds are summarized in Table 4B. The Appendix IV constituents with exceedances of the respective GWPS in 2024 were Arsenic (PZ-03, AP-32, AP-33, AP-34 and PZ-05), Lithium (PZ-02), Mercury (PZ-03, AP-33 and AP-34), and Combined Radium (AP-32 and AP-35).

- East Equalization Pond: At the East Equalization Pond, the upgradient and downgradient wells were sampled and analyzed for Appendix III and IV constituents, consistent with the requirements for assessment 40 CFR § 257.95/ 30 TAC §352.951) and corrective action monitoring (40 CFR § 257.98(a)(i)/ 30 TAC § 352.981). The 2024 semiannual monitoring results for the East Equalization Pond are summarized in Table 4C. The Appendix IV constituents with exceedances of GWPS in 2024 were Arsenic (EP-31), Beryllium (EP-37), Thallium (EP-31), and Combined Radium (EP-32, EP-34, EP-37 and MW-04).

Data validation was completed on all laboratory analytical results. Data Usability Summaries provided in Appendix B.

5.0 MONITORING PROGRAM TRANSITIONS, 40 CFR § 257.90(E)(4)/ 30 TAC § 352.901

Groundwater monitoring programs continued unchanged in 2024. For reference, the status of monitoring program at each unit is summarized below:

- Ash Pile. In 2024, detection monitoring continued.
- Ash Ponds. In 2024, corrective action monitoring continued. This unit transitioned to assessment monitoring in 2018 based on an SSI evaluation (Zephyr, 2018). It continued to be addressed in the assessment monitoring program in the first and second quarter of 2020, until July 2020, when remedy construction began. Construction of the retrofit liner system in the Combined Ash Transport Ponds was completed in November 2020, at which point the unit transitioned to corrective action monitoring. Future corrective action monitoring will be conducted pursuant to (40 CFR § 257.98(a)(i)/ 30 TAC § 352.981). This monitoring will be done in a manner consistent with the assessment monitoring process described in 40 CFR § 257.95/ 30 TAC §352.951.
- East Equalization Pond. In 2024, corrective action monitoring continued. This unit transitioned to assessment monitoring in 2018 based on an SSI determination (Zephyr, 2018). As with the Ash Ponds, it was transitioned to corrective action monitoring in 2020. The unit was closed and the final cap system was installed in 2022. Future corrective action monitoring will be conducted pursuant to 40 CFR § 257.98(a)(i)/ 30 TAC § 352.981. This monitoring will be done in a manner consistent with the assessment monitoring process, as required by 40 CFR § 257.95/ 30 TAC §352.951.

6.0 OTHER INFORMATION, § 257.90(E)(5)/ 30 TAC § 352.901

There is no other information to report pertinent to 40 CFR § 257.90/ 30 TAC§ 352.901 through 40 CFR § 257.98/ 30 TAC § 352.981 in this reporting period.

6.1 Detection Monitoring Program, § 257.94/ 30 TAC §352.941

The following information applies to the Ash Pile. 30 TAC §352.941 adopts by reference 40 CFR §257.94 (Detection monitoring program) as amended through the April 17, 2015, issue of the Federal Register (80 FR 21301), therefore the citations in this section refer directly to the federal rule text.

- Target Analytes, § 257.94(a). Laboratory analyses were performed for all constituents listed in Appendix III of the CCR Rule, as required by § 257.94(a).
- Monitoring Frequency, § 257.94(b) and (d). Semiannual detection monitoring was completed in 2024 and is ongoing. No alternative monitoring frequency has been developed or proposed.
- Number and Location of Samples, § 257.94(c). At least one sample was collected from each upgradient and downgradient well during each semiannual monitoring event, as required by § 257.94(c).

- Data Evaluation, § 257.94(e). Results from semiannual detection monitoring are provided in Table 4A. The February 2024 semiannual monitoring event and March and May 2024 re-testing events confirmed SSIs of Calcium at wells SP-03 and SP-32. An ASD was prepared and submitted to TCEQ on April 8, 2024. The August 2024 semiannual monitoring event and October and December 2024 re-testing events confirmed SSIs of Calcium at wells SP-03 and SP-32. An ASD will prepared and submitted to TCEQ in the first quarter of 2025.

- Recordkeeping, § 257.94(f). The 2023 Annual Groundwater Monitoring and Corrective Action Report was posted to the San Miguel website in February 2024.

6.2 Assessment Monitoring Program, 40 CFR § 257.95/ 30 TAC § 352.951

The following information applies to the Ash Ponds and East Equalization Pond. The Ash Ponds and East Equalization Pond were formerly under assessment monitoring but transitioned from assessment to corrective action monitoring in 2020. Section 6.5 provides details on the Corrective Action Monitoring Program (which complies with the assessment monitoring requirements of 30 TAC § 352.951, which adopts by reference § 257.95 as amended through the April 17, 2015, issue of the Federal Register (80 FR 21301).

6.3 Assessment of Corrective Measures, 40 CFR § 257.96/ 30 TAC § 352.961

Not applicable for this reporting period.

6.4 Selection of Remedy, 40 CFR § 257.97/ 30 TAC § 352.971

Not applicable for this reporting period.

6.5 Implementation of Corrective Action Program, 40 CFR § 257.98/ 30 TAC § 352.981

In 2024, several corrective actions related to the selected remedy at the Ash Ponds and East Equalization Pond were performed pursuant to 40 CFR § 257.98(a)/ 30 TAC § 352.981. 30 TAC § 352.981 adopts by reference 40 CFR § 257.98 (Implementation of the corrective action program) as amended through the April 17, 2015, issue of the Federal Register (80 FR 21301), therefore the citations in this section refer directly to the federal rule text.

- Corrective Action Groundwater Monitoring Program: Corrective action monitoring has the same requirements as those set forth in assessment monitoring. As required by § 257.98(a)(1)(i), the program complies with the requirements of § 257.95, including:

  - Target Analytes, § 257.95(a) and (b). Laboratory analysis was performed for all constituents listed in Appendix III and IV of the CCR Rule. Although the CCR Rule allows for some flexibility, the semiannual monitoring event included all Appendix III and IV constituents.
  - Monitoring Frequency, § 257.95(b), (c) and (d)(1). Semiannual corrective action monitoring was completed in February 2024 and August 2024. No alternative monitoring frequency has been developed or proposed for the Ash Ponds or Equalization Pond.

- Number and Location of Samples, § 257.95(d)(1). At least one sample was collected from each upgradient and downgradient well during each semiannual monitoring event, as required by § 257.95(d)(1).
- Data Evaluation, § 257.95(d)(2) through (h). Results are provided in Table 4B and 4C. As noted in Section 4.3, the key constituents exceeding Appendix IV GWPS in 2024 were arsenic, lithium, mercury, and combined radium for the Ash Ponds, and arsenic, beryllium, thallium and combined radium for the East Equalization Pond.
- Recordkeeping, § 257.95(i). The 2023 Annual Groundwater Monitoring and Corrective Action Report was posted to the San Miguel website in February 2024.

- Source Control: In 2019-2020, Ash Pond A and Ash Pond B, located along the southern boundary of the Plant and east of the Yard Drainage Retention Pond, were retrofitted to meet the requirements in 40 CFR § 257.70(b)/ 30 TAC § 352.701. San Miguel completed closure activities at the East Equalization Pond in 2022. Source control was identified as a component of the final groundwater remedy in the Selection of Groundwater Remedy report dated 26 May 2020 (GSI, 2020). In addition to source control measures, an interceptor trench was installed in November 2020 to collect any shallow seepage from the East Equalization Pond. The interceptor trench is a temporary measure and does not intercept Unit 22.

- Hydraulic Control: Six groundwater extraction wells (EW-01 to -06; see Figure 1) were operated downgradient of the Combined Ash Transport Ponds and East Equalization Pond in areas of elevated boron and other metals concentrations to remove the groundwater containing the greatest mass of metals. Although boron is an Appendix III constituent, and therefore does not drive the extent of groundwater cleanup, it is both associated with CCR releases to groundwater and can be considered a conservative "tracer" of such releases. In 2024, the groundwater extraction system operated from the end of October through the end of December. It was shut down January through October for maintenance and due to water management requirements of the Plant. All extracted groundwater (from EW-01 to EW-06) is routed to the Ash Ponds. Groundwater extraction at the East Equalization Pond is expected to reduce the concentrations of metals in groundwater to such a degree that monitored natural attenuation (MNA) can achieve GWPSs in a reasonable timeframe. Performance monitoring of the extraction system, including data collection and evaluation, is ongoing at the Ash Ponds and East Equalization Pond, as required by § 257.98(b).

7.0 REFERENCES

AECOM, 2018. CCR Annual Groundwater Monitoring Report (§ 257.90) for the Equalization Pond, Ash Pond, and Ash Pile at the San Miguel Plant; 31 January 2018.

ERM, 2016. San Miguel Electric Cooperative, Inc. Ash Pile Stormwater Run-On and Run-Off Control System Plan, Atascosa County, Texas. 14 October 2016.

ERM, 2017. CCR Unit Groundwater Monitoring System Certification - San Miguel Electric Cooperative, Inc., Atascosa County, Texas; 17 October 2017.

GSI, 2019. Groundwater Sampling and Analysis Plan. San Miguel Electric Plant, Atascosa County, Texas; Issued 26 December 2019.

GSI, 2020. Selection of Groundwater Remedy: Ash Ponds and Equalization Pond, San Miguel Electric Cooperative, Inc.; Issued 26 May 2020.

GSI, 2021. Background Comparison Value Update for Detection Monitoring at the Ash Pile CCR Unit, San Miguel Electric Cooperative, Inc., Christine, Atascosa County, Texas; Issued 31 January 2021.

GSI, 2022. Registration Application for Coal Combustion Residuals (CCR) Waste Management. San Miguel Electric Cooperative, Inc., Christine, Atascosa County, Texas, TCEQ Solid Waste Registration No 31434. Issued 21 January 2022.

GSI, 2024a. Alternative Source Demonstration for Calcium at the Ash Pile; Second Half 2023 Semiannual Groundwater Monitoring Event; San Miguel Electric Plant, Atascosa County, Texas, CCR109; Issued 08 April 2024.

GSI, 2024b. Alternative Source Demonstration for Calcium at the Ash Pile; First Half 2024 Semiannual Groundwater Monitoring Event; San Miguel Electric Plant, Atascosa County, Texas, CCR109; Issued 09 August 2024.

NewFields, 2022. San Miguel Electric Cooperative Equalization (EQ) Pond Closure Final Construction Report. Christine, Atascosa County, Texas. June 2022.

Texas Commission on Environmental Quality (TCEQ), 2020. Draft Technical Guidance No. 32, Topic: Coal Combustion Residuals (CCR) Groundwater Monitoring and Corrective Action. Texas Commission on Environmental Quality Waste Permits Division. May 2020.

United States Environmental Protection Agency (USEPA), 2009. Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Unified Guidance. Office of Resource Conservation and Recovery.

Zephyr Environmental Corporation, 2018. Detection Groundwater Monitoring Statistical Comparisons; Issued 18 January 2018.

Job No. 5076
Issued: 31 January 2025

2024 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

San Miguel Electric Cooperative, Inc.
Christine, Atascosa County, Texas

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GSI ENVIRONMENTAL

TABLE 1
Groundwater Sampling Event Summary - 2024

San Miguel Electric Cooperative, Inc.
Christine, Atacosa County, Texas

Well ID	Installation Date	Well Type	Hydraulic Location	Number of Samples	Sample Date	Monitoring Program
Ash Pile						
SP-34	10/19/2016	Upgradient Monitoring Well	Upgradient	6	2/7/2024 3/12/2024 5/2/2024 7/9/2024 8/14/2024 10/10/2024	Detection Monitoring
SP-01	11/12/2015	Downgradient Monitoring Well	Downgradient	3	2/7/2024 3/12/2024 8/14/2024	Detection Monitoring
SP-02	11/13/2015	Downgradient Monitoring Well	Downgradient	5	2/7/2024 3/12/2024 8/14/2024 10/10/2024 12/2/2024	Detection Monitoring
SP-03	11/11/2015	Downgradient Monitoring Well	Downgradient	7	2/7/2024 3/12/2024 5/2/2024 7/9/2024 8/14/2024 10/10/2024 12/2/2024	Detection Monitoring
SP-32	5/5/2016	Downgradient Monitoring Well	Downgradient	7	2/7/2024 3/12/2024 5/2/2024 7/9/2024 8/14/2024 10/10/2024 12/2/2024	Detection Monitoring
SP-35	7/2/2024	Observation Well	Crossgradient	2	7/9/2024 8/14/2024	Not Applicable
SP-31	5/5/2016	Observation Well	Crossgradient	1	2/7/2024	Not Applicable
SP-33	10/18/2016	Observation Well	Deeper Sand Unit	1	2/7/2024	Not Applicable
Ash Ponds						
PZ-02	11/14/2015	Upgradient Monitoring Well	Upgradient	2	2/7/2024 8/14/2024	Assessment Monitoring
PZ-03	11/18/2015	Upgradient Monitoring Well	Upgradient	2	2/7/2024 8/14/2024	Assessment Monitoring
AP-31	4/30/2016	Downgradient Monitoring Well	Downgradient	2	2/7/2024 8/14/2024	Assessment Monitoring
AP-32	4/29/2016	Downgradient Monitoring Well	Downgradient	2	2/7/2024 8/14/2024	Assessment Monitoring
AP-33	4/29/2016	Downgradient Monitoring Well	Downgradient	2	2/7/2024 8/14/2024	Assessment Monitoring
AP-34	4/28/2016	Downgradient Monitoring Well	Downgradient	2	2/7/2024 8/14/2024	Assessment Monitoring
AP-35	4/28/2016	Downgradient Monitoring Well	Downgradient	2	2/7/2024 8/14/2024	Assessment Monitoring
AP-36	4/27/2016	Downgradient Monitoring Well	Downgradient	2	2/7/2024 8/14/2024	Assessment Monitoring

TABLE 1
Groundwater Sampling Event Summary - 2024

San Miguel Electric Cooperative, Inc.
Christine, Atacosa County, Texas

Well ID	Installation Date	Well Type	Hydraulic Location	Number of Samples	Sample Date	Monitoring Program
Ash Ponds						
MW-03	7/30/2015	Downgradient Monitoring Well	Downgradient	2	2/7/2024 8/14/2024	Assessment Monitoring
PZ-05	11/16/2015	Downgradient Monitoring Well	Downgradient	2	2/7/2024 8/14/2024	Assessment Monitoring
PZ-06	11/20/2015	Downgradient Monitoring Well	Downgradient	2	2/7/2024 8/14/2024	Assessment Monitoring
East Equalization Pond						
EP-31	5/4/2016	Upgradient Monitoring Well	Upgradient	2	2/7/2024 8/14/2024	Assessment Monitoring
EP-32	5/4/2016	Downgradient Monitoring Well	Downgradient	2	2/7/2024 8/14/2024	Assessment Monitoring
EP-33	5/3/2016	Downgradient Monitoring Well	Downgradient	2	2/7/2024 8/14/2024	Assessment Monitoring
EP-34	5/3/2016	Downgradient Monitoring Well	Downgradient	2	2/7/2024 8/14/2024	Assessment Monitoring
EP-35	5/2/2016	Downgradient Monitoring Well	Downgradient	2	2/7/2024 8/14/2024	Assessment Monitoring
EP-36	5/2/2016	Downgradient Monitoring Well	Downgradient	2	2/7/2024 8/14/2024	Assessment Monitoring
EP-37	4/26/2016	Downgradient Monitoring Well	Downgradient	2	2/7/2024 8/14/2024	Assessment Monitoring
EP-38	4/27/2016	Downgradient Monitoring Well	Downgradient	2	2/7/2024 8/14/2024	Assessment Monitoring
MW-04	7/31/2015	Downgradient Monitoring Well	Downgradient	2	2/7/2024 8/14/2024	Assessment Monitoring

GSI ENVIRONMENTAL

TABLE 2
Groundwater Elevation Data - 2024

San Miguel Electric Cooperative, Inc.
Christine, Atascosa County, Texas

Well ID	Top of Casing Elevation (ft amsl)	Date	Total Depth (ft btoc)	Depth to Water (SWL) (ft btoc)	Groundwater Elevation (ft amsl)
Ash Pile					
SP-34	334.62	2/7/2024	55	32.21	302.41
SP-34	334.62	3/12/2024	55	32.18	302.44
SP-34	334.62	5/2/2024	55	31.46	303.16
SP-34	334.62	8/2/2024	55	31.78	302.84
SP-34	334.62	8/14/2024	55	31.58	303.04
SP-34	334.62	10/10/2024	55	31.13	303.49
SP-01	329.25	2/7/2024	52	26.96	302.29
SP-01	329.25	3/12/2024	52	26.67	302.58
SP-01	329.25	8/2/2024	52	26.62	302.63
SP-01	329.25	8/14/2024	52	26.44	302.81
SP-02	333.48	2/7/2024	50	30.65	302.83
SP-02	333.48	3/12/2024	50	30.65	302.83
SP-02	333.48	8/2/2024	50	30.57	302.91
SP-02	333.48	8/14/2024	50	30.35	303.13
SP-02	333.48	10/10/2024	50	29.90	303.58
SP-02	333.48	12/2/2024	50	30.16	303.32
SP-03	332.00	2/7/2024	65	30.27	301.73
SP-03	332.00	3/12/2024	65	30.39	301.61
SP-03	332.00	5/2/2024	65	29.84	302.16
SP-03	332.00	7/9/2024	65	30.17	301.83
SP-03	332.00	8/2/2024	65	30.38	301.62
SP-03	332.00	8/14/2024	65	30.24	301.76
SP-03	332.00	10/10/2024	65	29.95	302.05
SP-03	332.00	12/2/2024	65	30.13	301.87
SP-32	327.89	2/7/2024	50	26.29	301.60
SP-32	327.89	3/12/2024	50	26.11	301.78
SP-32	327.89	5/2/2024	50	25.49	302.40
SP-32	327.89	8/2/2024	50	26.09	301.80
SP-32	327.89	8/14/2024	50	25.88	302.01
SP-32	327.89	10/10/2024	50	25.48	302.41
SP-32	327.89	12/2/2024	50	25.67	302.22
Ash Ponds					
PZ-02	318.92	2/7/2024	76.5	32.33	286.59
PZ-02	318.92	8/14/2024	76.5	31.74	287.18
PZ-03	323.19	2/7/2024	60	32.85	290.34
PZ-03	323.19	8/14/2024	60	32.89	290.30
AP-31	292.80	2/7/2024	24	10.56	282.24
AP-31	292.80	8/14/2024	24	10.42	282.38
AP-32	297.94	2/7/2024	35	18.24	279.70
AP-32	297.94	8/14/2024	35	18.03	279.91
AP-33	304.67	2/7/2024	42	24.73	279.94
AP-33	304.67	8/14/2024	42	24.37	280.30
AP-34	296.32	2/7/2024	40	17.26	279.06
AP-34	296.32	8/14/2024	40	17.76	278.56

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TABLE 2
Groundwater Elevation Data - 2024

San Miguel Electric Cooperative, Inc.
Christine, Atascosa County, Texas

Well ID	Top of Casing Elevation (ft amsl)	Date	Total Depth (ft btoc)	Depth to Water (SWL) (ft btoc)	Groundwater Elevation (ft amsl)
Ash Ponds					
AP-35	298.36	2/7/2024	43	17.97	280.39
AP-35	298.36	8/14/2024	43	17.23	281.13
AP-36	288.75	2/7/2024	41	9.52	279.23
AP-36	288.75	8/14/2024	41	8.87	279.88
MW-03	295.90	2/7/2024	40	15.33	280.57
MW-03	295.90	8/14/2024	40	15.20	280.70
PZ-05	302.77	2/7/2024	52	23.31	279.46
PZ-05	302.77	8/14/2024	52	21.95	280.82
PZ-06	297.42	2/7/2024	50	17.11	280.31
PZ-06	297.42	8/14/2024	50	16.13	281.29
East Equalization Pond					
EP-31	316.70	2/7/2024	65	25.61	291.09
EP-31	316.70	8/14/2024	65	24.95	291.75
EP-32	277.44	2/7/2024	52.5	3.37	274.07
EP-32	277.44	8/14/2024	52.5	2.89	274.55
EP-33	278.00	2/7/2024	41	3.45	274.55
EP-33	278.00	8/14/2024	41	2.68	275.32
EP-34	278.71	2/7/2024	53.5	4.15	274.56
EP-34	278.71	8/14/2024	53.5	3.02	275.69
EP-35	279.86	2/7/2024	45	5.63	274.23
EP-35	279.86	8/14/2024	45	4.23	275.63
EP-36	278.50	2/7/2024	47	6.23	272.27
EP-36	278.50	8/14/2024	47	4.54	273.96
EP-37	277.80	2/7/2024	56	4.69	273.11
EP-37	277.80	8/14/2024	56	3.97	273.83
EP-38	279.35	2/7/2024	40	4.35	275.00
EP-38	279.35	8/14/2024	40	3.10	276.25
MW-04	278.58	2/7/2024	45	4.74	273.84
MW-04	278.58	8/14/2024	45	3.38	275.20
Groundwater Observation Wells					
MW-01	289.16	2/7/2024	50	9.75	279.41
MW-01	289.16	8/14/2024	50	9.34	279.82
MW-02	317.68	2/7/2024	62	33.95	283.73
MW-02	317.68	8/14/2024	62	33.24	284.44
PZ-04	303.21	2/7/2024	42	14.94	288.27
PZ-04	303.21	8/14/2024	42	14.68	288.53
PZ-07	281.99	2/7/2024	52	5.46	276.53
PZ-07	281.99	8/14/2024	52	4.48	277.51
SP-35	329.77	7/9/2024	45	27.39	304.61
SP-35	329.77	8/2/2024	45	27.52	302.25
SP-35	329.77	8/14/2024	45	27.36	302.41
SP-31	335.01	2/7/2024	62	34.26	300.75
SP-31	335.01	8/2/2024	62	33.49	301.52
SP-31	335.01	8/14/2024	62	33.60	301.41

TABLE 2
Groundwater Elevation Data - 2024

San Miguel Electric Cooperative, Inc.
Christine, Atascosa County, Texas

Well ID	Top of Casing Elevation (ft amsl)	Date	Total Depth (ft btoc)	Depth to Water (SWL) (ft btoc)	Groundwater Elevation (ft amsl)
Groundwater Observation Wells					
SP-33	329.96	2/7/2024	39	23.60	306.36
SP-33	329.96	8/2/2024	39	24.15	305.81
SP-33	329.96	8/14/2024	39	24.00	305.96

Notes:
1. ft btoc = feet below top of casing; SWL = static water level; ft amsl = feet above mean sea level.

GSI ENVIRONMENTAL

TABLE 3
Field Parameter Results - 2024

San Miguel Electric Cooperative, Inc.
Christine, Atascosa County, Texas

Well ID	Sample Date	Temperature (°C)	pH (SU)	Specific Conductance (µS/cm)	Oxidation Reduction Potential (mV)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
Ash Pile							
SP-34	2/7/2024	23.1	2.6	11420	436.1	1.8	5.2
SP-34	3/12/2024	25.4	2.68	13570	449.8	1.8	3.9
SP-34	5/2/2024	26.1	3.32	11480	365.9	2.8	3.4
SP-34	7/9/2024	29.4	3.27	10442	450.1	0.77	31.01
SP-34	8/14/2024	30.4	3.88	10230	398.7	2.9	5.4
SP-34	10/10/2024	29.2	3.41	10460	389.1	2.3	6.9
SP-01	2/7/2024	25.1	3.08	14620	389.5	2.4	8.4
SP-01	3/12/2024	25.2	3.06	15220	389.7	2.8	8.6
SP-01	8/14/2024	27.2	3.28	15150	372.6	2.5	11
SP-02	2/7/2024	26.1	4.32	10320	288.4	1.6	5.3
SP-02	3/12/2024	26.2	5.13	13430	292.7	1.6	4.2
SP-02	8/14/2024	28.6	4.80	10580	212.4	2.3	8.2
SP-02	10/10/2024	28.6	5.15	11500	252.6	1.9	7.8
SP-02	12/2/2024	26	4.69	8810	214.6	2.5	7.2
SP-03	2/7/2024	24.7	3.63	15090	307.5	3.4	5.1
SP-03	3/12/2024	25	3.57	16070	348.5	2.7	4.8
SP-03	5/2/2024	26.1	3.92	15770	296.7	2.7	7.1
SP-03	7/9/2024	28.8	3.66	14916	423.3	1.32	99.76
SP-03	8/14/2024	27.5	3.75	15900	-393.7	3.2	7.4
SP-03	12/2/2024	25.5	3.42	12740	301.6	2.1	6.9
SP-03	10/10/2024	27.3	3.62	17530	356.1	2.2	7.4
SP-32	2/7/2024	23.9	3.8	11170	309.9	2.9	16.1
SP-32	3/12/2024	24.2	3.52	12790	426.3	3	20.6
SP-32	5/2/2024	24.8	4.36	8640	222.7	3.2	17.5
SP-32	7/9/2024	26.3	3.57	11807	446.4	1.35	132.49
SP-32	8/14/2024	25.7	3.6	12200	424.3	2.2	12.9
SP-32	10/10/2024	25.5	3.48	13270	313.4	2.3	9.6
SP-32	12/2/2024	24.0	3.38	9550	248.6	2.6	9.4
Ash Ponds							
PZ-02	2/7/2024	24.4	6.08	14200	40.9	1.7	40.6
PZ-02	8/14/2024	29.1	5.57	11920	83.7	3	70.9
PZ-03	2/7/2024	24.9	3.58	18100	379.1	1.5	44.2
PZ-03	8/14/2024	26.9	2.94	14150	459.9	2.7	42.6
AP-31	2/7/2024	24	3.74	11510	564.7	3.1	5.2
AP-31	8/14/2024	27.5	3.75	10390	491.7	3.5	4.7
AP-32	2/7/2024	23.2	3.44	13520	442.8	6.1	4.2
AP-32	8/14/2024	27	3.52	12040	384.1	6.2	2.6
AP-33	2/7/2024	22.3	3.32	16820	424.6	3.6	15.9
AP-33	8/14/2024	26.5	3.38	14860	364.6	3.6	36.9
AP-34	2/7/2024	22.8	3.36	11810	330.4	0.7	2.5
AP-34	8/14/2024	24.5	3.19	11010	355.7	0.5	16.9
AP-35	2/7/2024	24	3.67	11080	276.5	3.3	10.5
AP-35	8/14/2024	27.5	3.72	12590	264.2	1.4	2.9
AP-36	2/7/2024	23	4.46	8400	239.5	1.4	13.2
AP-36	8/14/2024	26.3	4.22	9660	261.4	1.5	9.2
MW-03	2/7/2024	24.1	3.59	12550	455.4	3.8	3.8
MW-03	8/14/2024	27.3	3.66	11310	383.7	4.2	2.1
PZ-05	2/7/2024	23.6	3.54	10670	357.2	1.8	5
PZ-05	8/14/2024	24.8	3.34	9580	375.4	1.1	18.9

GSI ENVIRONMENTAL

TABLE 3
Field Parameter Results - 2024

San Miguel Electric Cooperative, Inc.
Christine, Atascosa County, Texas

Well ID	Sample Date	Temperature (°C)	pH (SU)	Specific Conductance (µS/cm)	Oxidation Reduction Potential (mV)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
Ash Ponds							
PZ-06	2/7/2024	20.1	6.11	9360	-25.9	1.9	17.6
PZ-06	8/14/2024	26.2	5.9	11530	10.2	1.4	8.1
East Equalization Pond							
EP-31	2/7/2024	23.5	3.88	5700	320.5	3.8	3.1
EP-31	8/14/2024	29.5	3.59	5860	345.9	2.2	7.6
EP-32	2/7/2024	19.6	7.12	10640	-56.0	3.3	10.2
EP-32	8/14/2024	29.1	6.43	11090	-70.7	3	5.7
EP-33	2/7/2024	21.4	6.71	11570	-23.6	1.6	5.1
EP-33	8/14/2024	21.8	6.48	10060	-48.9	1.2	4
EP-34	2/7/2024	20.9	6.84	16500	-47.2	1.8	2.9
EP-34	8/14/2024	25.4	6.78	14690	-75.4	1.8	2
EP-35	2/7/2024	22.3	6.51	14950	4.1	1.5	8.4
EP-35	8/14/2024	25.5	6.38	12890	-15.7	1.8	8.5
EP-36	2/7/2024	22.2	6.59	13520	2	2.7	3.6
EP-36	8/14/2024	24.2	6.32	11460	-16.4	2.1	1.8
EP-37	2/7/2024	24.5	6.09	12940	112.3	2.1	4.4
EP-37	8/14/2024	28.5	6.16	12790	-97.1	2.1	4
EP-38	2/7/2024	21.7	5.23	7520	109.8	2.3	3.7
EP-38	8/14/2024	27.4	5.7	6680	-12.7	2.4	4
MW-04	2/7/2024	21.4	5.99	8700	143.2	4.7	16.4
MW-04	8/14/2024	27.4	6.2	7600	-43.8	2.6	47.4
Groundwater Observation Wells							
SP-35	7/9/2024	35.6	6.38	10091	126.1	3.71	448.73
SP-35	8/14/2024	29.2	6.46	10040	-1.6	2.3	200
SP-31	2/7/2024	23.4	2.77	6860	461.3	5.1	4.4
SP-33	2/7/2024	24.3	3.36	14010	410.9	1.3	4.4

Notes:
1. °C = degrees celsius, SU = standard units, µS/cm = microsiemens per centimeter, mg/L = milligrams per liter; NTU = nephelometric turbidity unit.

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TABLE 4A
Ash Pile Groundwater Analytical Results - 2024

San Miguel Electric Cooperative, Inc.
Christine, Atascosa County, Texas

			Appendix III Constituents						
		Analyte:	pH (field)	Boron	Calcium	Chloride	Fluoride	Sulfate	TDS
		Units:	SU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Well ID	Sample Date	Type							
SP-34 (upgradient)	Background:		2.23 - 3.73	21	827	3380	<10	3900	9000
	2/7/2024	N	2.60	12	842	2810	<20	2530	9700
	3/12/2024	N	2.68	-	864	-	-	-	8890
	5/2/2024	N	3.32	-	821	-	-	-	-
	7/9/2024*	N	3.27	9.97	720	2750	4.24	2780	8610
	8/14/2024	N	3.88	13.3	771	2250	<10	2540	8130
	10/10/2024	N	3.41	-	-	-	-	-	-
SP-01	Background:		2.07 - 5.52	11.3	694	3690	22	8530	16900
	2/7/2024	N	3.08	8.76	737	3230	<20	5490	15400
	3/12/2024	N	3.06	-	677	-	-	-	-
	8/14/2024	N	3.28	8.84	576	3200	16.4 JH	7540	14900
SP-02	Background:		5.09 - 6.6	13.1	1420	5320	<10	2580	17100
	2/7/2024	N	4.32	12.9	950	4060	<40	2630 J	8470
	2/7/2024	Dup	-	13.5	965	3040	<10	1890 J	8930
	3/12/2024	N	5.13	-	-	-	-	1840	-
	8/14/2024	N	4.80	13.7	867	2800	<1	2100	8120
	8/14/2024	Dup	-	13.5	904	2860	<1	2130	7900
	10/10/2024	N	5.15	13.4	-	-	-	-	-
	12/2/2024	N	4.69	12.7	-	-	-	-	-
SP-03	Background:		3.3 - 5.15	9	924	4810	<10	3730	13500
	2/7/2024	N	3.63	7.91	927	5250	<40	2890	12200
	3/12/2024	N	3.57	-	1060	4170	-	-	-
	5/2/2024	N	3.92	-	939	-	-	-	-
	7/9/2024*	N	3.66	7.4	861	469	1.96	1270	12800
	8/14/2024	N	3.75	8.88	953	4750	<1	2670	11900
	10/10/2024	N	3.62	-	989	-	-	-	-
	12/2/2024	N	3.42	-	1020	-	-	-	-
SP-32	Background:		2.81 - 3.94	11.1	510	1930	17.5	11800	18600
	2/7/2024	N	3.80	13.5	567	1900	<8	5190	11000
	3/12/2024	N	3.52	9.26	821	-	-	-	-
	5/2/2024	N	4.36	-	604	-	-	-	-
	7/9/2024*	N	3.57	7.9	517	988	0.125 J	520	12500
	8/14/2024	N	3.60	9.89	580	2450	6.97 JH	5880	11300
	10/10/2024	N	3.48	-	596	263	-	-	-
	12/2/2024	N	3.48	-	654	-	-	-	-
SP-35 (observation well)	Background:		NA	NA	NA	NA	NA	NA	NA
	7/9/2024*	N	6.38	7.02	657	1700	<1.00	3570	8780
	8/14/2024*	N	6.46	8.54	664	1760	<1	3680	9080
SP-31 (observation well)	Background:		NA	NA	NA	NA	NA	NA	NA
	2/7/2024*	N	2.77	4.66	457	281	7.88	4750	6300
SP-33 (observation well)	Background:		NA	NA	NA	NA	NA	NA	NA
	2/7/2024*	N	3.36	6.45	1410	5670	<16.0	1910	9750

Notes:
1. This table includes semiannual detection monitoring (Appendix III) results from the upgradient and downgradient wells at the Ash Pile for the reporting year.
2. See *Background Comparison Value Update for Detection Monitoring at the Ash Pile CCR Unit (*GSI 2021) for development of background comparison values.
3. Cells in orange indicate exceedances of background comparison values.
4. Fluoride is included in both Appendix III and Appendix IV analyte lists.
5. TDS = Total Dissolved Solids; mg/L = milligrams per liter; SU = standard units; SDL = sample detection limit; RL = reporting limit; NA = Not Applicable.
6. N = normal sample; Dup = field duplicate; "<" = not detected at the SDL; J = analyte detected between the SDL and RL; JH = estimated result is biased high.
7. See Appendix A for cumulative results from all CCR groundwater monitoring network wells.
8. * = Sampling conducted as additional data for Alternative Source Demonstration and not a part of routine detection monitoring program.

GSI ENVIRONMENTAL

TABLE 4B
Ash Ponds Groundwater Analytical Results - 2024

San Miguel Electric Cooperative, Inc.
Christine, Atascosa County, Texas

			Appendix III Constituents							Appendix IV Constituents															
Analyte:			**pH, field**	**Boron**	**Calcium**	**Chloride**	**Fluoride**	**Sulfate**	**Total Dissolved Solids**	**Antimony**	**Arsenic**	**Barium**	**Beryllium**	**Cadmium**	**Chromium**	**Cobalt**	**Lead**	**Lithium**	**Mercury**	**Molybdenum**	**Selenium**	**Thallium**	**Radium-226**	**Radium-228**	**Combined Radium**
Units:			SU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pCi/L	pCi/L	pCi/L
MCL:			-	-	-	-	4	-	-	0.006	0.01	2	0.004	0.005	0.1	0.006	0.015	0.04	0.002	0.1	0.05	0.002	-	-	5
Background (Note 5):			3.43 - 4.09	15.01	908.6	4430	9.837	5630	15819	0.004	0.0868	0.0403	0.584	0.618	0.067	1.94	0.006	3.911	0.00008	0.006	0.528	0.02	3.567	4.991	8.558
ASD Comparison Values (Note 6):			4.33 - 7.72	21.19	1610	14000	67	6380	27000	-	-	-	-	-	-	-	-	See Note 6	-	-	-	-	-	-	-
GWPS (Note 7):			3.43	21.19	1610	14000	67	6380	27000	0.006	0.0868	2	0.584	0.618	0.1	1.94	0.015	3.911	0.002	0.1	0.528	0.02	n/a	n/a	8.558
Well ID	**Sample Date**	**Type**																							
PZ-02	2/7/2024	N	**6.08**	**8**	**924**	**4150**	<20	**2730**	**10400**	<0.000967	**0.000906 J**	**0.0293**	**0.000317 J**	<0.000217	<0.00153	**0.00339**	<0.000376	**9.51**	<0.00013	<0.00061	<0.000739	<0.000472	**0.68 JH**	**1.78**	**2.46**
(upgradient)	8/14/2024	N	**5.57**	**8.43**	**831**	**3860**	<1	**2730**	**9900**	<0.0967	<0.0563	<0.314	<0.0274	<0.0217	<0.153	<0.0261	<0.0376	**2.16**	<0.00013	<0.061	<0.153	<0.0472	**0.74**	**2.23**	**2.97**
PZ-03	2/7/2024	N	**3.58**	**6.27**	**918**	**5620**	<40	**3430**	**16000**	<0.000967	**0.121**	**0.0229**	**0.274**	**0.493**	**0.00266**	**1.64**	**0.00177**	**2.5**	**0.00137**	<0.00061	**0.0473**	**0.00896**	**0.39 JH**	**1.73**	**2.12**
(upgradient)	8/14/2024	N	**2.94**	**11.2**	**989**	**5850**	**4.26 JL**	**3700**	**15300**	<0.0967	**0.105**	<0.314	**0.262**	**0.617**	<0.153	**1.68**	<0.0376	**2.76**	**0.00244**	<0.061	<0.153	<0.0472	**1.56**	**3.95**	**5.51**
AP-31	2/7/2024	N	**3.74**	**66.5**	**688**	**2420**	<20	**2970**	**8350**	<0.000967	**0.0239**	**0.0142**	**0.0162**	**0.00487**	**0.00183 J**	**0.291**	<0.000376	**0.812**	**0.000439**	<0.00061	**0.0275**	**0.0023**	<0.46	**1.28**	**1.28**
	8/14/2024	N	**3.75**	**67.8**	**687**	**2230**	<1	**2820**	**7960**	<0.0967	<0.0563	<0.314	<0.0274	<0.0217	<0.153	**0.284**	<0.0376	**0.928**	**0.000776**	<0.061	<0.153	<0.0472	<0.37	**1.38**	**1.38**
AP-32	2/7/2024	N	**3.44**	**24.7**	**715**	**3000**	<20	**3690**	**9830**	<0.000967	**0.1**	**0.0182**	**0.0664**	**0.0733**	<0.00153	**0.642**	<0.000376	**1.67**	**0.00188**	<0.00061	**0.0172**	**0.00422**	**2.17**	**7.87**	**10.04**
	8/14/2024	N	**3.52**	**26.1**	**717**	**2670**	<1	**3300**	**8620**	<0.0967	<0.0563	<0.314	**0.0655 J**	**0.0893 J**	<0.153	**0.633**	<0.0376	**1.76**	**0.00175**	<0.061	<0.153	<0.0472	**1.16**	**9.65**	**10.81**
AP-33	2/7/2024	N	**3.32**	**57**	**783**	**4130**	<20	**3300**	**12600**	<0.000967	**0.153**	**0.0184**	**0.262**	**0.0959**	<0.00153	**1.38**	<0.000376	**1.26**	**0.00411**	<0.00061	**0.0316**	**0.00503**	**1.98**	**5.31**	**7.29**
	8/14/2024	N	**3.38**	**59.9**	**771**	**4300**	<10	**3670**	**11300**	<0.0967	<0.0563	<0.314	**0.273**	**0.117**	<0.153	**1.36**	<0.0376	**1.27**	**0.00473**	<0.061	<0.153	<0.0472	**0.71**	**7.89**	**8.6**
	8/14/2024	Dup	**-**	**44**	**455**	**2100 JH**	<1	**3130**	**8600**	<0.0967	<0.0563	<0.314	<0.0274	<0.0217	<0.153	<0.0261	<0.0376	**0.939**	<0.00013	<0.061	<0.153	<0.0472	**-**	**2.2 JH**	**2.2 JH**
AP-34	2/7/2024	N	**3.36**	**24.3**	**744**	**3210**	<20	**3610**	**11000**	<0.000967	**0.112**	**0.0142**	**0.271**	**0.0186**	**0.00428**	**1.28**	<0.000376	**1.48**	**0.00211**	<0.00061	**0.0204**	**0.00172**	**1.11 JH**	**2.1**	**3.21**
	8/14/2024	N	**3.19**	**24.6**	**735**	**2850**	**6.06 JL**	**3300**	**9800**	<0.0967	**0.0664 J**	<0.314	**0.28**	**0.0251 J**	<0.153	**1.23**	<0.0376	**1.51**	**0.00283**	<0.061	<0.153	<0.0472	**1**	**4.15**	**5.15**
AP-35	2/7/2024	N	**3.67**	**5.5**	**610**	**2400**	<10	**3050**	**8400**	<0.000967	**0.0428**	**0.0214**	**0.319**	<0.000217	**0.00214**	**0.0305**	**0.00193**	**1.81**	<0.00013	<0.00061	**0.011**	**0.00389**	**7.95**	**15.3**	**23.25**
	8/14/2024	N	**3.72**	**6.4 J**	**677**	**2300**	**9.41 JL**	**3230**	**11300**	<0.0967	<0.0563	<0.314	**0.28**	<0.0217	<0.153	**0.036 J**	<0.0376	**1.84**	**0.000468 JH**	<0.061	<0.153	<0.0472	**3.55**	**15.3**	**18.85**
AP-36	2/7/2024	N	**4.46**	**2.43**	**623**	**3590**	<10	**6160**	**6890**	<0.000967	**0.00955**	**0.0185**	**0.0101**	**0.000368 J**	<0.00153	**0.0618**	<0.000376	**0.935**	<0.00013	<0.00061	**0.00129 J**	**0.000838 J**	**1.77 JH**	**3.14**	**4.91**
	8/14/2024	N	**4.22**	<6.01	**616**	**1520**	<1	**2780**	**6540**	<0.0967	<0.0563	<0.314	<0.0274	<0.0217	<0.153	**0.0624**	<0.0376	**1.15**	<0.00013	<0.061	<0.153	<0.0472	<0.18	**4.63**	**4.63**
MW-03	2/7/2024	N	**3.59**	**12.4**	**544**	**2060**	<10	**4310**	**9700**	<0.000967	**0.0456**	**0.0112**	**0.0267**	**0.045**	**0.0114**	**0.357**	<0.000376	**2**	<0.00013	<0.00061	**0.0101**	**0.00179**	**1.74 JH**	**3.4 JH**	**5.14**
	2/7/2024	Dup	**-**	**13.3**	**545**	**1990**	<10	**4120**	**9510**	<0.000967	**0.0464**	**0.0116**	**0.0294**	**0.0489**	**0.0091**	**0.375**	<0.000376	**1.92**	<0.00013	<0.00061	**0.0106**	**0.00186**	**1.42 JH**	**3.32**	**4.74**
	8/14/2024	N	**3.66**	**13.8**	**571**	**1790**	<1	**4010**	**9420**	<0.0967	<0.0563	<0.314	**0.0304 J**	**0.0594 J**	<0.153	**0.366**	<0.0376	**1.94**	<0.00013	<0.061	<0.153	<0.0472	**1.33**	**5.27**	**6.6**
	8/14/2024	Dup	**-**	**14.1**	**566**	**1750**	<1	**4030**	**9480**	<0.0967	<0.0563	<0.314	**0.0304 J**	**0.0728 J**	<0.153	**0.415**	<0.0376	**1.99**	<0.00013	<0.061	<0.153	<0.0472	**1.14**	**4.97**	**6.11**
PZ-05	2/7/2024	N	**3.54**	**32.3**	**710**	**2540**	<20	**3230**	**8660**	<0.000967	**0.0911**	**0.0135**	**0.217**	**0.0536**	**0.00227**	**0.994**	<0.000376	**0.884**	**0.000197 J**	<0.00061	**0.0175**	**0.00228**	**1.89**	**2.67**	**4.56**
	8/14/2024	N	**3.34**	**27.4**	**670**	**2160**	**1.63 JL**	**3000**	**8510**	<0.0967	<0.0563	<0.314	**0.177**	**0.0733 J**	<0.153	**0.955**	<0.0376	**1.12**	**0.000171 JH**	<0.061	<0.153	<0.0472	**0.87**	**3.46**	**4.33**
PZ-06	2/7/2024	N	**6.11**	**3.19**	**752**	**2120**	<20	**2600**	**8040**	<0.00967	**0.000384 J**	**0.0233**	**0.00325**	<0.000217	<0.00153	**0.00323**	<0.000376	**1.28**	<0.00013	<0.00061	<0.000739	<0.000472	**1.8**	**1.72**	**3.52**
	8/14/2024	N	**5.9**	<6.01	**703**	**2090**	<1	**2740**	**7970**	<0.0967	<0.0563	<0.314	<0.0274	<0.0217	<0.153	<0.0261	<0.0376	**1.27**	<0.00013	<0.061	<0.153	<0.0472	**0.24**	**2.88**	**3.12**

Notes:
1. This table includes semiannual assessment/corrective action monitoring (Appendix III and IV) results from the upgradient and downgradient wells at the Ash Ponds, for the reporting year. See report text for details.
2. Fluoride is included in both Appendix III and Appendix IV analyte lists.
3. TDS = Total Dissolved Solids; mg/L = milligrams per liter; pCi/L = picocuries per liter; SU = standard units; SDL = sample detection limit; RL = reporting limit.
4. N = normal sample; Dup = field duplicate; "<" = not detected at the SDL; J = analyte detected between the SDL and RL. Bias codes: JL = estimated result is biased low; JH = estimated result is biased high.
5. Background based on Zephyr 2018 (UTL), and Power 2019 "Groundwater Statistics Report for RY 2018", Table 3.
6. Values from PBW 2018 ASD Report (maximum value from historic Unit 22 monitoring).
7. GWPS is the higher of the MCL or background, and takes ASDs into consideration. GWPS for pH is the lower background value. Shaded cells indicate results greater than the GWPS.
8. See Appendix A for cumulative results from all CCR groundwater monitoring network wells.

GSI ENVIRONMENTAL

TABLE 4C
East Equalization Pond Groundwater Analytical Results - 2024

San Miguel Electric Cooperative, Inc.
Christine, Atascosa County, Texas

			Appendix III Constituents							Appendix IV Constituents															
Analyte:			**pH (field)**	**Boron**	**Calcium**	**Chloride**	**Fluoride**	**Sulfate**	**Total Dissolved Soilds**	**Antimony**	**Arsenic**	**Barium**	**Beryllium**	**Cadmium**	**Chromium**	**Cobalt**	**Lead**	**Lithium**	**Mercury**	**Molybdenum**	**Selenium**	**Thallium**	**Radium-226**	**Radium-228**	**Combined Radium**
Units:			SU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pCi/L	pCi/L	pCi/L
MCL:			-	-	-	-	4	-	-	0.006	0.01	2	0.004	0.005	0.1	0.006	0.015	0.04	0.002	0.1	0.05	0.002	-	-	5
Background (Note 5):			2.78-6.11	4.829	493.2	282.5	4.839	3982	8114	0.004	0.0222	0.0182	0.148	0.0291	0.002	0.146	0.0015	1.111	0.00008	0.006	0.103	0.00157	0.738	2.346	3.084
ASD Comparison Values (Note 6):			4.33 - 7.72	21.19	1610	14000	67	6380	27000	-	-	-	-	-	-	-	-	See Note 6	-	-	-	-	-	-	-
GWPS (Note 7):			2.78	21.19	1610	14000	67	6380	27000	0.006	0.0222	2	0.148	0.0291	0.1	0.146	0.015	3.68	0.002	0.1	0.103	0.002	n/a	n/a	5
Well ID	**Sample Date**	**Type**																							
EP-31	2/7/2024	N	**3.88**	**5.92**	**445**	**150**	**1.15 J**	**3200 JH**	**5350**	<0.000967	**0.027**	**0.00554 J**	**0.0657**	**0.0133**	<0.00153	**0.103**	**0.00042 J**	**0.6**	<0.00013	<0.00061	**0.00804**	**0.00245**	**0.86**	**2.08 JH**	**2.94**
	8/14/2024	N	**3.59**	**6.19 J**	**490**	**11.7 JH**	<1	**310**	**5020**	<0.0967	<0.0563	<0.314	**0.0712 J**	<0.0217	<0.153	**0.0991**	<0.0376	**0.7**	<0.00013	<0.061	<0.153	<0.0472	**0.93**	**1.35 JH**	**2.28**
EP-32	2/7/2024	N	**7.12**	**26.4**	**401**	**2190**	<8	**4080 JH**	**9080**	<0.000967	**0.000557 J**	**0.013**	<0.000274	<0.000217	<0.00153	<0.000261	<0.000376	**1.27**	<0.00013	**0.00675**	**0.002 J**	<0.000472	**0.63**	**3.38 JH**	**4.01**
	8/14/2024	N	**6.43**	**22**	**425**	**1510 JH**	<1	**3930**	**9190**	<0.0967	<0.0563	<0.314	<0.0274	<0.0217	<0.153	<0.0261	<0.0376	**1.33**	<0.00013	<0.061	<0.153	<0.0472	**1.29**	**3.82 JH**	**5.11**
EP-33	2/7/2024	N	**6.71**	**52.6**	**481**	**2380**	<8	**3210 JH**	**8600**	<0.000967	**0.000869 J**	**0.0134**	<0.000274	<0.000217	<0.00153	<0.000261	<0.000376	**0.812 J**	<0.00013	**0.0062**	**0.00275 J**	<0.000472	**1.21**	**2.71 JH**	**3.92**
	2/7/2024	Dup	**-**	**47.4**	**477**	**2320**	<8	**3100 JL**	**9520**	<0.000967	**0.000755 J**	**0.0137**	<0.000274	<0.000217	<0.0306	<0.000261	<0.000376	**0.529 J**	<0.00013	**0.00611**	**0.00219 J**	<0.000472	**1.22**	**2.19 JH**	**3.47**
	8/14/2024	N	**6.48**	**46.8**	**476**	**2110 JH**	<1	**3140**	**7800**	<0.0967	<0.0563	<0.314	<0.0274	<0.0217	<0.153	<0.0261	<0.0376	**0.919**	<0.00013	<0.061	<0.153	<0.0472	**0.81**	**1.99 JH**	**2.80**
EP-34	2/7/2024	N	**6.84**	**45.7**	**519**	**4040**	<20	**2910 JH**	**11600**	<0.000967	**0.000289 J**	**0.0171**	<0.000274	<0.000217	<0.00153	<0.000261	<0.000376	**1.17**	<0.00013	**0.0065**	**0.00141 J**	<0.000472	**2.96**	**6.4**	**9.36**
	8/14/2024	N	**6.78**	**34.5**	**474**	**3920 JH**	<1	**3200**	**11200**	<0.0967	<0.0563	<0.314	<0.0274	<0.0217	<0.153	<0.0261	<0.0376	**1.31**	<0.00013	<0.061	<0.153	<0.0472	**1.55**	**5.93**	**7.48**
EP-35	2/7/2024	N	**6.51**	**40**	**457**	**3880**	<8	**3210 JH**	**11300**	<0.000967	**0.000584 J**	**0.0197**	**0.000358 J**	<0.000217	<0.00765	<0.000261	<0.000376	**1.3**	<0.00013	**0.00214 J**	**0.00165 J**	<0.000472	**0.89**	**1.78 JH**	**2.67**
	8/14/2024	N	**6.38**	**33.7**	**451**	**3520 JH**	<1	**3280**	**10900**	<0.0967	<0.0563	<0.314	<0.0274	<0.0217	<0.153	<0.0261	<0.0376	**1.24**	<0.00013	<0.061	<0.153	<0.0472	<0.16	**1.87 JH**	**1.87 JH**
EP-36	2/7/2024	N	**6.59**	**36.2**	**501**	**3630**	<8	**2240 JH**	**8650**	<0.000967	**0.00038 J**	**0.023**	<0.000274	<0.000217	<0.00153	<0.000261	<0.000376	**1.17**	<0.00013	<0.00061	**0.00087 J**	<0.000472	**1.42**	**3.52 JH**	**4.94**
	8/14/2024	N	**6.32**	**40.1**	**555**	**3440 JH**	<1	**2420**	**9600**	<0.0967	<0.0563	<0.314	<0.0274	<0.0217	<0.153	<0.0261	<0.0376	**1.28**	<0.00013	<0.061	<0.153	<0.0472	**0.78**	**3.76 JH**	**4.54**
EP-37	2/7/2024	N	**6.09**	**8.66**	**403**	**2990**	<20	**2390 JH**	**9490**	<0.000967	**0.000409 J**	**0.0177**	<0.000274	<0.000217	<0.00153	<0.000261	<0.000376	**1.23**	<0.00013	<0.00061	<0.000739	<0.000472	**2.22**	**3.63**	**5.85**
	8/14/2024	N	**6.16**	**10.8**	**401**	**2920 JH**	<1	**2640**	**8930**	<0.0967	<0.0563	<0.314	**0.179**	<0.0217	<0.153	<0.0261	<0.0376	**1.29**	<0.00013	<0.061	<0.153	<0.0472	**0.99**	**3.81 JH**	**4.80**
EP-38	2/7/2024	N	**5.23**	**2.83**	**434**	**1450**	<4	**2380 JH**	**5390**	<0.000967	**0.000408 J**	**0.0145**	**0.000344 J**	<0.000217	<0.00153	**0.00136**	<0.000376	**0.719**	<0.00013	<0.00061	<0.000739	<0.000472	**1.45**	**1.45 JH**	**2.90**
	8/14/2024	N	**5.7**	<6.01	**442**	**1260 JH**	<1	**2360**	**5460**	<0.0967	<0.0563	<0.314	<0.0274	<0.0217	<0.153	<0.0261	<0.0376	**0.843**	<0.00013	<0.061	<0.153	<0.0472	**0.9**	**1.21 JH**	**2.11**
MW-04	2/7/2024	N	**5.99**	**7.71**	**316**	**1650**	<8	**2160 JL**	**5930**	<0.000967	<0.000282	**0.0112**	<0.000274	<0.000217	<0.00153	**0.000651**	<0.000376	**0.662**	<0.00013	**0.00267 J**	<0.000739	<0.000472	<0.39	**2.09**	**2.09**
	8/14/2024	N	**6.2**	**12.7**	**320**	**1580 JH**	<1	**2240**	**5530**	<0.0967	<0.0563	<0.314	<0.0274	<0.0217	<0.153	<0.0261	<0.0376	**0.81**	<0.00013	<0.061	<0.153	<0.0472	<0.18	**8.14**	**8.14**

Notes:
1. This table includes semiannual assessment/corrective action monitoring (Appendix III and IV) results from the upgradient and downgradient wells at the East Equalization Pond (EEP), for the reporting year. The EEP was closed in 2022. See report text for details
2. Fluoride is included in both Appendix III and Appendix IV analyte lists.
3. TDS = Total Dissolved Solids; mg/L = milligrams per liter; SU = standard units; SDL = sample detection limit; RL = reporting limit.
4. N = normal sample; Dup = field duplicate; "<" = not detected at the SDL; J = analyte detected between the SDL and RL. Bias codes: JL = estimated result is biased low; JH = estimated result is biased high
5. Background based on Zephyr 2018 (UTL), and Power 2019 "Groundwater Statistics Report for RY 2018", Table 2
6. Appendix III values from PBW 2018 ASD Report (maximum value from historic Unit 22 monitoring). For lithium, see discussion of background levels in GSI 2019 ASD Report (value of 3.68 mg/L based on maximum result from PZ-03).
7. GWPS is the higher of the MCL or background, and takes ASDs into consideration. GWPS for pH is the lower of background value. Shaded cells indicate results greater than the GWPS.
8. See Appendix A for cumulative results from all CCR groundwater monitoring network wells.

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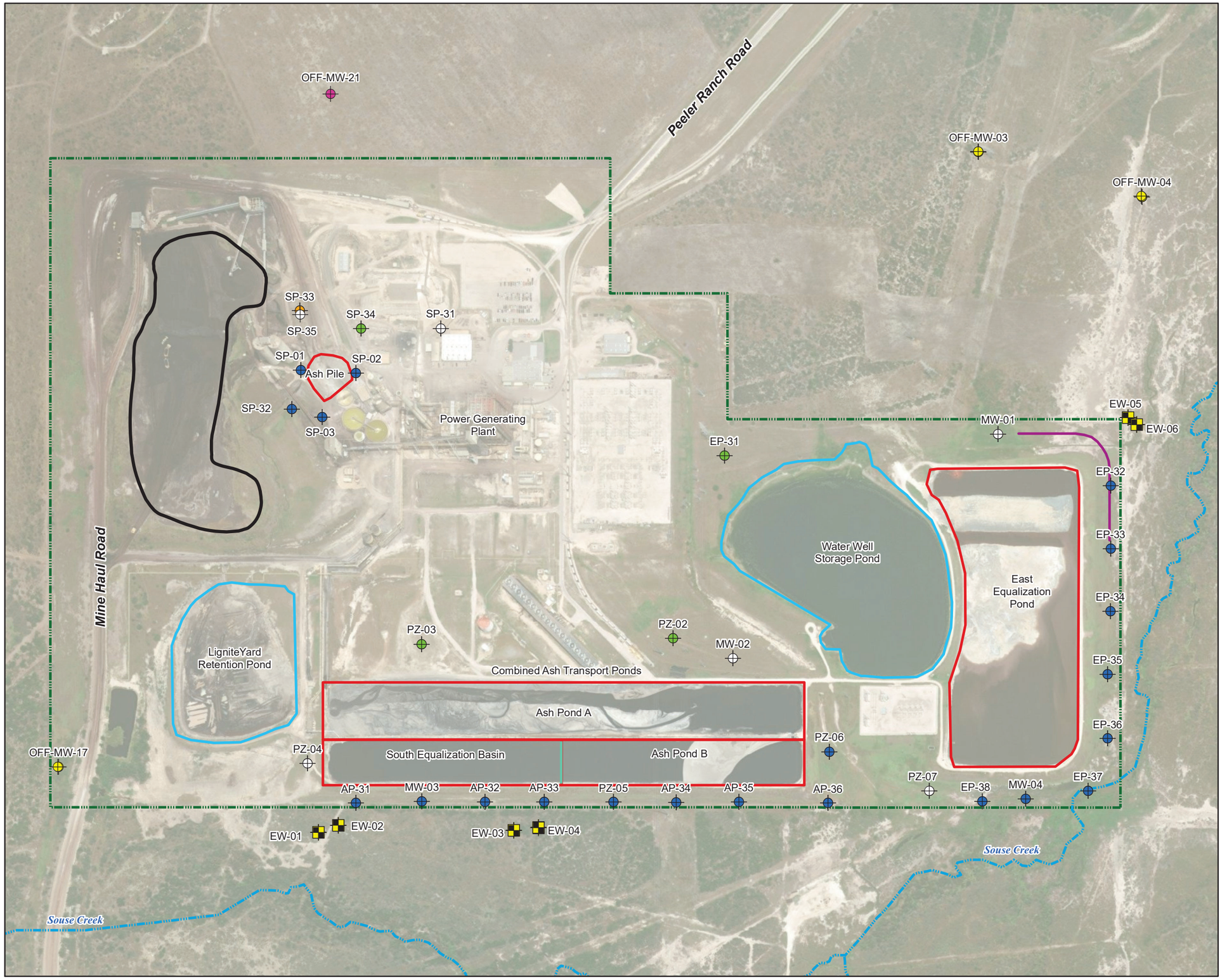
San Miguel Electric Cooperative, Inc.
Christine, Atascosa County, Texas

Figures

Figure 1 Site Map
Figure 2 Unit 22 Potentiometric Surface Map - February 2024
Figure 3 Unit 22 Potentiometric Surface Map - August 2024



N

LEGEND

- Location of Groundwater Extraction Well
- Off-Site Unit 22 Assessment Monitoring Well
- Off-Site Deeper Sand Monitoring Well
- Upgradient Coal Combustion Residual (CCR) Monitoring Well
- Downgradient CCR Monitoring Well
- Unit 22 Groundwater Elevation Observation Well
- Shallower Sand Monitoring Well
- Approximate Plant Property Boundary
- CCR Management Unit
- Non-CCR Impoundment
- Lignite Storage Pile
- Interim Interceptor Trench

Notes

1) Aerial imagery provided by Esri ArcGIS Online, July 2018.

Feet
0 250 500

Projected Coordinate System
Datum: NAD 83
State Plane Texas South Central
Units: Feet

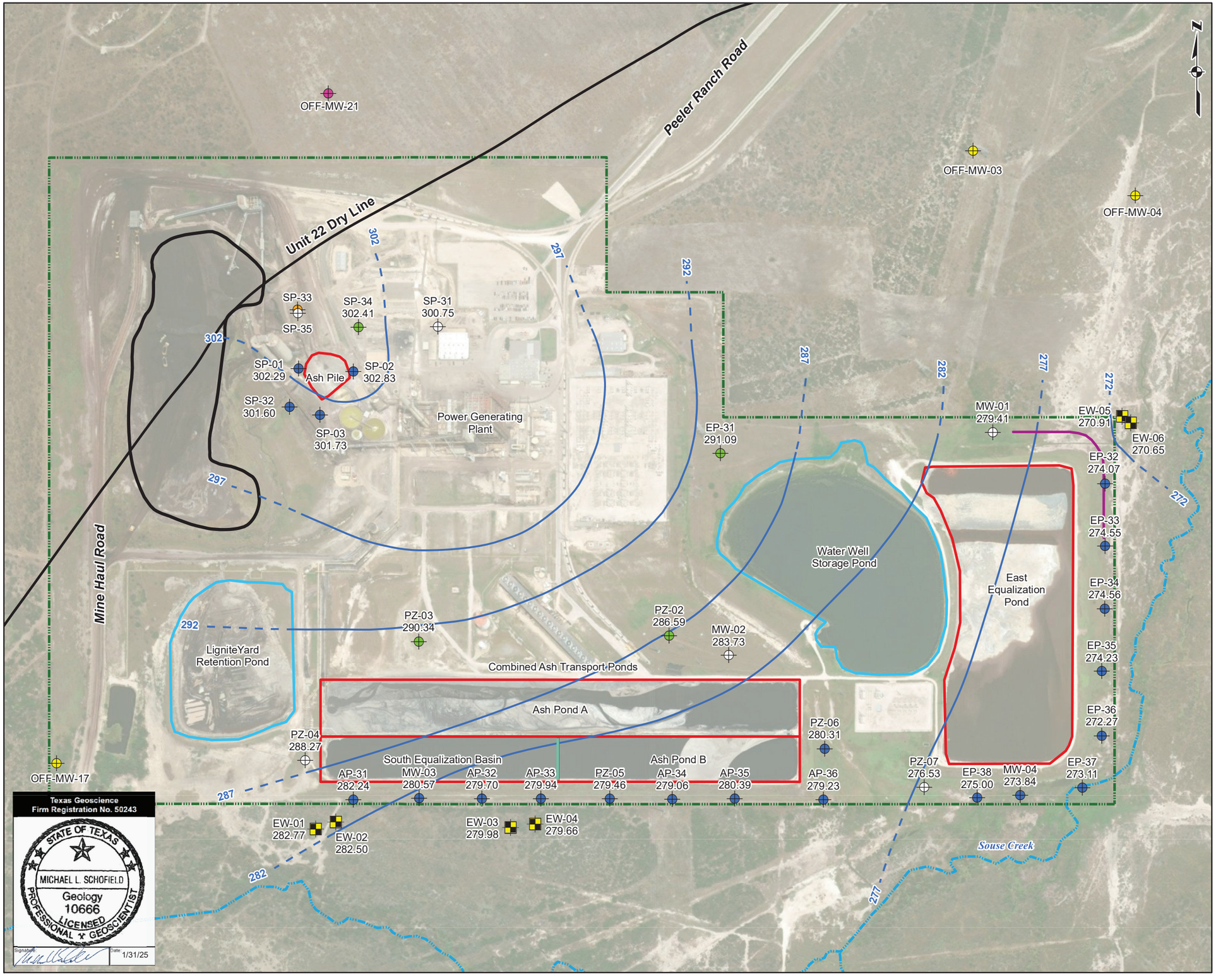
GSI ENVIRONMENTAL

SITE MAP

San Miguel Electric Cooperative, Inc. Plant
Atascosa County, Texas

GSI Job No. 5076	Drawn By: DM
Issued: 16-Jan-2025	Chk'd By: CRP
Map ID: **SMEC_GWMRSiteMap**	Appv'd By: SDR

FIGURE 1



Texas Geoscience Firm Registration No. 50243

STATE OF TEXAS
MICHAEL L. SCHOFIELD
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PROFESSIONAL GEOSCIENTIST

Signature: Date: 1/31/25

LEGEND

- Location of Groundwater Extraction Well
- Off-Site Unit 22 Assessment Monitoring Well
- Off-Site Deeper Sand Monitoring Well
- Upgradient Coal Combustion Residual (CCR) Monitoring Well
- Downgradient CCR Monitoring Well
- Unit 22 Groundwater Elevation Observation Well
- Shallower Sand Monitoring Well
- Approximate Plant Property Boundary
- CCR Unit
- Non-CCR Impoundment
- Lignite Storage Pile
- Interim Interceptor Trench
- 259.31 Groundwater Elevation (ft amsl)
- Groundwater Potentiometric Surface, dashed where inferred
- Unit 22 Dry Boundary, dashed where inferred (wells NW of this line are interpreted to be screened in the Deeper Sand)

Notes

1. Groundwater elevations from on-site wells are calculated using top of casing elevations reported in "Groundwater Sampling Report - Event 8 - August 2017" (AECOM, 2017). All on-site depth to water measurements were collected by Hydrologic Monitoring Inc. on February 7, 2024.
2. The off-site monitoring wells are shown for reference only. These wells are not included in the CCR semi-annual groundwater monitoring program.
3. ft amsl = feet above mean sea level.
4. Groundwater extraction wells were installed by GSI Environmental Inc., August 8-20, 2020.
5. Aerial imagery provided by Esri ArcGIS Online, July 2018.

Feet
0 250 500

Projected Coordinate System
Datum: NAD 83
State Plane Texas South Central
Units: Feet

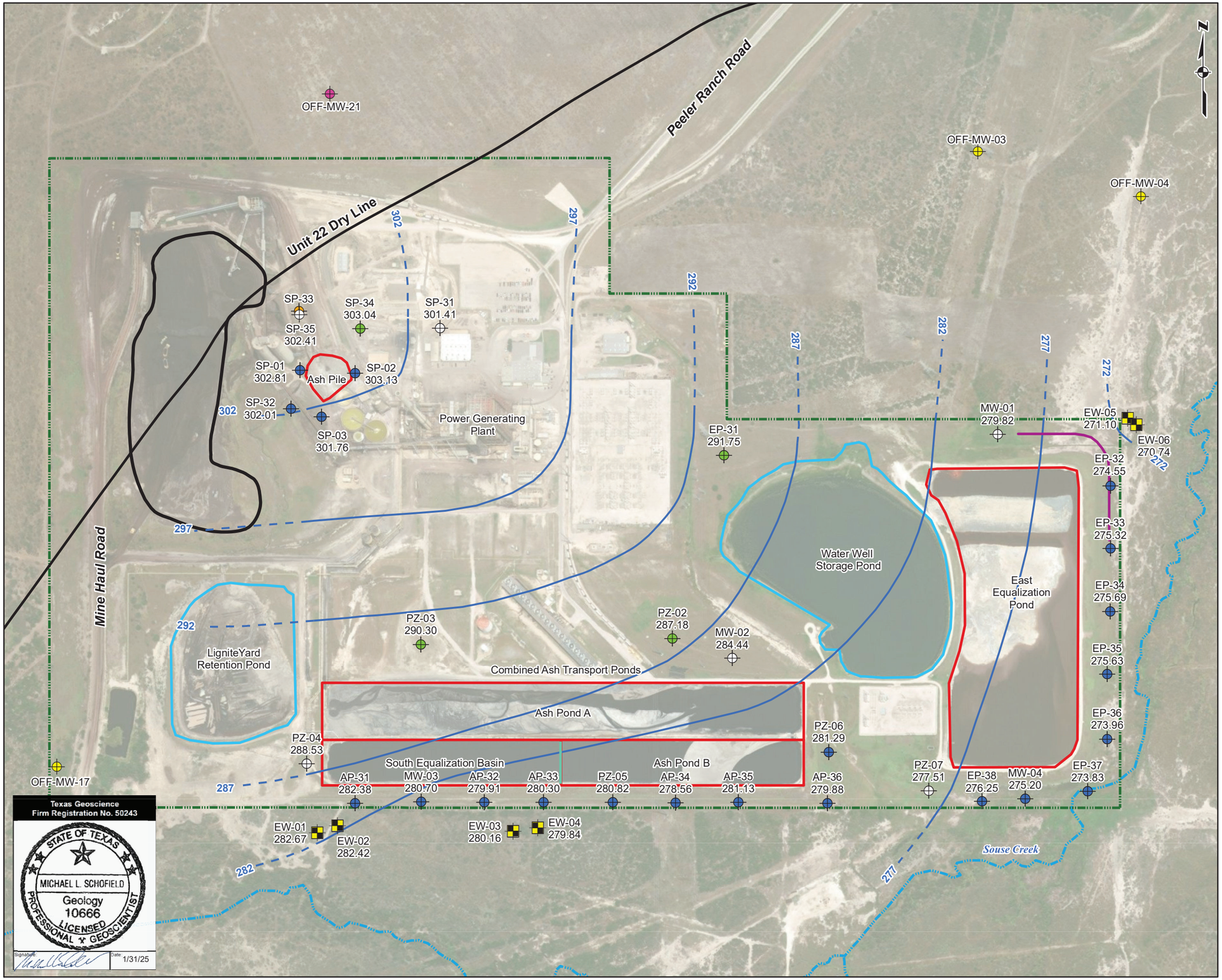
GSI ENVIRONMENTAL

UNIT 22 POTENTIOMETRIC SURFACE MAP - FEBRUARY 2024

San Miguel Electric Cooperative, Inc. Plant
Atascosa County, Texas

GSI Job No.	5076-109	Drawn By:	DM
Issued:	16-Jan-2025	Chk'd By:	MLS
Map ID:	SMEC_GWE_1224_Fig2	Appv'd By:	SDR

FIGURE 2



Texas Geoscience
Firm Registration No. 50243

STATE OF TEXAS
MICHAEL L. SCHOFIELD
Geology
10666
LICENSED
PROFESSIONAL GEOSCIENTIST

Signature: Date: 1/31/25

LEGEND

- Location of Groundwater Extraction Well
- Off-Site Unit 22 Assessment Monitoring Well
- Off-Site Deeper Sand Monitoring Well
- Upgradient Coal Combustion Residual (CCR) Monitoring Well
- Downgradient CCR Monitoring Well
- Unit 22 Groundwater Elevation Observation Well
- Shallower Sand Monitoring Well
- Approximate Plant Property Boundary
- CCR Unit
- Non-CCR Impoundment
- Lignite Storage Pile
- Interim Interceptor Trench
- 259.31 Groundwater Elevation (ft amsl)
- Groundwater Potentiometric Surface, dashed where inferred
- Unit 22 Dry Boundary, dashed where inferred (wells NW of this line are interpreted to be screened in the Deeper Sand)

Notes

1. Groundwater elevations from on-site wells are calculated using top of casing elevations reported in "Groundwater Sampling Report - Event 8 - August 2017" (AECOM, 2017). All on-site depth to water measurements were collected by GSI Environmental Inc. on August 14, 2024.
2. The off-site monitoring wells are shown for reference only. These wells are not included in the CCR semi-annual ground water monitoring program.
3. ft amsl = feet above mean sea level.
4. Groundwater extraction wells were installed by GSI Environmental Inc. August 8-20, 2020.
5. Aerial imagery provided by Esri Arc GIS Online, July 2018.

Feet
0 250 500

Projected Coordinate System
Datum: NAD 83
State Plane Texas South Central
Units: Feet

GSI ENVIRONMENTAL

UNIT 22 POTENTIOMETRIC SURFACE MAP - AUGUST 2024

San Miguel Electric Cooperative, Inc. Plant
Atascosa County, Texas

GSI Job No.	5076-109	Drawn By:	DM
Issued:	16-Jan-2025	Chk'd By:	MLS
Map ID:	SMEC_GWE_1224_Fig3	Appv'd By:	SDR

FIGURE 3

Job No. 5076
Issued: 31 January 2025

2024 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

San Miguel Electric Cooperative, Inc.
Christine, Atascosa County, Texas

Appendices

Appendix A Cumulative Groundwater Analytical Results for CCR Monitoring Network Wells

Appendix B Data Usability Summaries and Laboratory Analytical Reports

Appendix B.1 Data Usability Summaries – February 2024

Appendix B.2 Data Usability Summaries – August 2024

Appendix B.3 Laboratory NELAP Accreditation

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Christine, Atascosa County, Texas

Appendix A. Cumulative Groundwater Analytical Results for CCR

GSI ENVIRONMENTAL

APPENDIX A
Cumulative Groundwater Analytical Results for CCR Monitoring Network Wells

San Miguel Electric Cooperative, Inc.
Christine, Atascosa County, Texas

					Appendix III Constituents							Appendix IV Constituents															
				Analyte:	pH (field)	Boron	Calcium	Chloride	Fluoride*	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium	Radium-226	Radium-228	Combined Radium
				Units:	SU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pCi/L	pCi/L	pCi/L
Area	Well ID	Well Type	Sample Date	Type																						
Ash Pile	SP-34	Upgradient	10/26/2016	N	**3.6**	**12**	**715**	**2370**	**4.57**	**3070**	**8420**	<0.004	**0.0139 J**	**0.0535**	**0.164**	**0.161**	**0.0045 J**	**0.558**	**0.0089 J**	**1.17**	<0.00004	**0.0068 J**	**0.109**	**0.0127 J**	**1.03 ± 0.37**	**2.97 ± 0.87**	**4**
Ash Pile	SP-34	Upgradient	1/11/2017	N	**3.53**	**12.3**	**636**	**2300**	<0.1	**2790**	**8500**	**0.000948 J**	**0.0228**	**0.0337**	**0.141**	**0.162**	**0.0022 J**	**0.592**	**0.00718**	**1.07 J-**	<0.00008	**0.00426 J**	**0.17**	**0.0178**	**0.715 ± 0.204**	**5.16 ± 0.515**	**5.88**
Ash Pile	SP-34	Upgradient	2/14/2017	N	**2.23**	**11.9 J**	**670**	**2350**	**2.55**	**2730**	**8040**	<0.0008	**0.0234**	**0.0228**	**0.164**	**0.181**	**0.00306 J**	**0.648**	**0.00732**	**1.22**	<0.00008	<0.002	**0.216**	**0.0195**	**1.39 ± 0.57**	**6.46 ± 0.584**	**7.85**
Ash Pile	SP-34	Upgradient	3/21/2017	N	**3.09**	**12 J**	**602**	**1780**	**2.34**	**2690 J-**	**8080**	<0.0008	**0.0295**	**0.0335**	**0.119 J**	**0.171**	**0.00435 J**	**0.572**	**0.00827**	**0.966**	<0.00008	<0.002	**0.191 J**	**0.0197**	**0.796 ± 0.534 U**	**6.70 ± 0.624**	**7.5**
Ash Pile	SP-34	Upgradient	5/10/2017	N	**3.41**	**13.6 J**	**672**	**2140**	<0.1	**2560**	**8820**	<0.0008	**0.018**	**0.0168**	**0.148**	**0.189**	**0.00353 J**	**0.619**	**0.00427**	**1.29**	<0.00008	<0.002	**0.161**	**0.0187**	**1.33 ± 0.378**	**7.19 ± 0.543**	**8.52**
Ash Pile	SP-34	Upgradient	6/13/2017	N	**3.23**	**12.4**	**647**	**2370**	<0.5 J	**2860**	**7980**	<0.0008	**0.0177**	**0.0182**	**0.142**	**0.19**	**0.00452 J**	**0.649**	**0.00574**	**1.27**	<0.00008	<0.002	**0.176**	**0.0176**	**6.41 ± 0.694**	**7.00 ± 0.641**	**13.4**
Ash Pile	SP-34	Upgradient	7/25/2017	N	**3.34**	**21 J**	**758**	**2370**	**1.37 J**	**3900**	**8820**	<0.0008	**0.0238 J**	**0.0155**	**0.157**	**0.203**	**0.00627**	**0.602 J**	**0.00353**	**1.26**	<0.00008	<0.002	**0.21 J**	**0.0201**	**1.53 ± 0.449**	**7.84 ± 0.655**	**9.37**
Ash Pile	SP-34	Upgradient	8/22/2017	N	**3.26**	**10.5 J**	**656**	**2320**	**1.09 J**	**2880**	**8080**	<0.0008	**0.0343**	**0.0169**	**0.132 J**	**0.185**	**0.00604**	**0.605**	**0.0054**	**1.07**	<0.00008	<0.002	**0.203 J**	**0.0194**	**1.82 ± 0.520**	**6.33 ± 0.466**	**8.15**
Ash Pile	SP-34	Upgradient	3/21/2018	N	**3.03**	**12.1**	**691**	**2050 J+**	<10	**2910**	**7880**	<0.01	**0.0323**	**0.0211**	**0.172**	**0.195**	-	**0.682**	<0.01	**1.21**	<0.0002 J	<0.025	**0.244**	**0.0187**	**0.65 ± 0.31**	**6.1 ± 1.6**	**6.75**
Ash Pile	SP-34	Upgradient	6/7/2018	N	**3.2**	**12.9**	**651**	**2350**	**1.09**	**3210**	**7960**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-34	Upgradient	9/6/2018	N	**2.67**	**11.2**	**711**	**2120**	**4.98**	**2770**	**8420**	<0.01	**0.0139**	<0.02	**0.171**	**0.197**	<0.02	**0.702**	<0.01	**1.38**	**0.000262 J-**	<0.025	**0.122**	**0.0187**	-	-	-
Ash Pile	SP-34	Upgradient	2/19/2019	N	**3.56**	**14.4**	**758**	**2330**	**5.12**	**2690**	**8240**	**0.000789 J**	**0.016**	**0.02**	**0.146 JL**	**0.25**	**0.0087**	**0.772**	**0.00821**	**1.22**	<0.00003	<0.00049	**0.129**	**0.0231**	**0.87 ± 0.4 J**	**9.6 ± 2.3**	**10.47 ± 2.7 J**
Ash Pile	SP-34	Upgradient	8/19/2019	N	**2.93**	**9.43**	**804**	**3380**	**4.04**	**2670**	**9000**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-34	Upgradient	2/25/2020	N	**3.08**	**8.85**	**770**	**3340**	**3.4**	**2600**	**8740**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-34	Upgradient	7/30/2020	N	-	**10.8**	**825**	**2780**	**1.94 J**	**2400**	**8200**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-34	Upgradient	7/30/2020	Dup	-	**10.6**	**822**	**2860**	**1.74 J**	**2450**	**8340**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-34	Upgradient	8/4/2020	N	**2.91**	**10.3**	**827**	**2750**	**2.74**	**2610**	**8260**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-34	Upgradient	2/24/2021	N	**3.39**	**11.2**	**751**	**2730**	**3.99**	**2610**	**8300**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-34	Upgradient	8/18/2021	N	**2.07**	**10.4**	**812**	**2810**	**5.18 JH**	**2490**	**6430**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-34	Upgradient	10/7/2021	N	**2.98**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-34	Upgradient	2/8/2022	N	**2.71**	**10.7**	**812 J**	**3000**	**6.39**	**2930 B**	**9390**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-34	Upgradient	3/17/2022	N	**2.73**	-	-	-	-	-	**11200**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-34	Upgradient	4/20/2022	N	**3.26**	-	-	-	-	-	**8080**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-34	Upgradient	9/28/2022	N	**3.15**	**10**	**874**	**2910 B**	**5.3**	**2830**	**7260**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-34	Upgradient	11/2/2022	N	**3.13**	-	**814**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-34	Upgradient	2/21/2023	N	**3.15**	**10.6**	**804**	**3170**	<10	**5590**	**9400**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-34	Upgradient	5/5/2023	N	-	-	-	-	-	**2740**	**8960**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-34	Upgradient	9/6/2023	N	**3.01**	**9.81**	**794**	**3190**	**5.74**	**3130**	**9880**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-34	Upgradient	11/27/2023	N	-	-	-	-	-	-	**8980**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-34	Upgradient	2/7/2024	N	**2.6**	**12**	**842**	**2810**	<20	**2530**	**9700**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-34	Upgradient	3/12/2024	N	-	-	**864**	-	-	-	**8890**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-34	Upgradient	5/2/2024	N	**3.32**	-	**821**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-34	Upgradient	7/9/2024	N	**3.27**	**9.97**	**720**	**2750**	**4.24**	**2780**	**8610**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-34	Upgradient	8/14/2024	N	**3.88**	**13.3**	**771**	**2250**	<10	**2540 F1**	**8130**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-01	Downgradient	5/26/2016	N	**2.86**	**10.3**	**577**	**3330**	**22**	**7570**	**16900**	<0.004	**0.0387 J**	**0.0254 J**	**0.746**	**0.662**	**0.0115 J**	**3.01**	<0.006	**4.03**	<0.00004	<0.006	**0.0769**	**0.0162 J**	**0.66 ± 0.23**	**8.2 ± 2**	**8.86**
Ash Pile	SP-01	Downgradient	8/17/2016	N	**3.02**	**8.8**	**509**	**3270**	**15.4**	**7190**	**15600**	<0.002	**0.0344**	**0.0245 J**	**0.612**	**0.57**	**0.00713 J**	**2.82**	<0.003	**3.16**	<0.00004	<0.003	**0.0995**	**0.0167**	**0.87 ± 0.29**	**10.1 ± 2.4**	**10.97**
Ash Pile	SP-01	Downgradient	10/26/2016	N	**3.16**	**11.3**	**694**	**3470**	**8.14**	**6530**	**15100**	<0.004	**0.0435 J**	**0.0245 J**	**0.76**	**0.633**	**0.0101 J**	**3.24**	<0.006	**4.09**	<0.00004	<0.006	**0.132**	**0.0211**	**0.89 ± 0.32**	**11.3 ± 2.7**	**12.19**
Ash Pile	SP-01	Downgradient	1/10/2017	N	**3.21**	**8**	**525**	**3430**	<0.1	**6750**	**14500**	<0.0008	**0.0623**	**0.0228**	**0.437**	**0.524**	**0.007**	**3.17**	**0.00141**	**2.76 J-**	<0.00008	<0.002	**0.317**	**0.0182**	**2.37 ± 0.377**	**10.6 ± 0.566**	**13**
Ash Pile	SP-01	Downgradient	1/10/2017	Dup	-	**7.48**	**517**	**3290**	<0.1	**7200**	**16400**	<0.0008	**0.0649**	**0.0231**	**0.483**	**0.595**	**0.00595**	**3.37**	**0.00144**	**3.04 J-**	<0.00008	<0.002	**0.336**	**0.0184**	**2.32 ± 0.333**	**13.3 ± 0.632**	**15.6**
Ash Pile	SP-01	Downgradient	2/14/2017	N	**2.07**	**7.64 J**	**508**	**3190**	**16.8**	**7310**	**15300**	<0.0008	**0.0632**	**0.0209**	**0.504**	**0.637**	**0.00641**	**3.51**	**0.00129**	**3.03**	<0.00008	<0.002	**0.52**	**0.018**	**1.29 ± 0.510**	**12.5 ± 0.673**	**13.8**
Ash Pile	SP-01	Downgradient	2/14/2017	Dup	-	**7.76 J**	**503**	**3160**	**17**	**7630**	**15900**	<0.0008	**0.0646**	**0.0213**	**0.514**	**0.656**	**0.00786**	**3.47**	**0.00144**	**3**	<0.00008	<0.002	**0.527**	**0.0183**	**1.26 ± 0.51**	**12.9 ± 0.693**	**14.2**
Ash Pile	SP-01	Downgradient	3/21/2017	N	**2.95**	**7.56 J**	**461**	**3120**	**16.1**	**8200 J-**	**15600**	<0.0008	**0.0855**	**0.02**	**0.396 J**	**0.596**	**0.00707**	**3.29**	**0.00137 J+**	**3.09**	<0.00008	<0.002	**0.416 J**	**0.0191**	**1.01 ± 0.322**	**12.0 ± 0.688 J**	**13.0 J**
Ash Pile	SP-01	Downgradient	3/21/2017	Dup	-	**7.63 J**	**473**	**3170**	**16**	**8420 J-**	**15500**	<0.0008	**0.086**	**0.0197**	**0.398 J**	**0.598**	**0.00666**	**3.38**	**0.00136 J+**	**3.12**	<0.00008	<0.002	**0.417 J**	**0.0195**	**1.13 ± 0.284**	**14.1 ± 0.786 J**	**15.2 J**
Ash Pile	SP-01	Downgradient	5/9/2017	N	**3.43**	**7.71 J**	**537**	**3120**	**11.5**	**7270**	**16100**	<0.0008	**0.0599**	**0.0192**	**0.559**	**0.665**	**0.00607**	**3.35**	**0.00117**	**3.29**	<0.00008	<0.002	**0.412**	**0.018**	**1.33 ± 0.444**	**12.7 ± 0.715**	**14**
Ash Pile	SP-01	Downgradient	6/13/2017	N	**3.3**	**7.64**	**523**	**3200**	**8.53 J-**	**7060**	**15500**	<0.0008	**0.081**	**0.0189**	**0.568**	**0.646**	**0.0052**	**3.15**	<0.0003	**3.1**	<0.00008	<0.002	**0.565**	**0.0183**	**2.95 ± 0.472**	**14.8 ± 0.864**	**17.8**
Ash Pile	SP-01	Downgradient	7/25/2017	N	**3.3**	**11 J**	**640**	**3550**	<0.5	**8530**	**15700**	<0.0008	**0.088 J**	**0.0183**	**0.529**	**0.603**	**0.00695**	**2.21 J**	**0.00101**	**2.88**	<0.00008	<0.002	**0.659 J**	**0.0196**	**1.11 ± 0.408**	**14.1 ± 0.698**	**15.2**
Ash Pile	SP-01	Downgradient	8/22/2017	N	**3.16**	**7.65 J**	**529**	**3310**	**3.58**	**7680**	**15700**	<0.0008	**0.0981**	**0.0181**	**0.428 J**	**0.591**	**0.00412 J**	**3.14**	**0.00121**	**2.89**	<0.00008	<0.002	**0.486 J**	**0.0189**	**1.24 ± 0.414**	**15.2 ± 0.624**	**16.4**
Ash Pile	SP-01	Downgradient	3/21/2018	N	**5.52**	**3.88**	**280**	**3020 J+**	**11.9**	**6280**	**13900**	<0.01	**0.0518**	<0.02	**0.292**	**0.28**	-	**1.45**	<0.01	**1.58**	<0.0002 J	<0.025	**0.375**	<0.01	**0.65 ± 0.3**	**1.85 ± 0.67**	**2.5**
Ash Pile	SP-01	Downgradient	6/7/2018	N	**4.42**	**7.96**	**545**	**3690**	**1.25**	**7330**	**14500**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-01	Downgradient	9/6/2018	N	**3**	**5.3**	**423**	**2540**	**14**	**5340**	**11300**	<0.01	**0.0377**	<0.02	**0.348**	**0.413**	<0.02	**2.16**	<0.01	**1.82**	<0.0002 J	<0.025	**0.113**	**0.0113**	-	-	-
Ash Pile	SP-01	Downgradient	2/20/2019	N	**3.42**	**11.3**	**515**	**3220**	**17**	**7560**	**15800**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-01	Downgradient	8/19/2019	N	**2.95**	**8**	**486**	**3200**	**5.65**	**7780**	**15900**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-01	Downgradient	2/25/2020	N	**3.04**	**8.5**	**499**	**3400**	**2.54**	**7210**	**16000**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-01	Downgradient	7/30/2020	N	-	**7.61**	**580**	**3460**	**1.35 J**	**6620**	**14700**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-01	Downgradient	8/20/2020	N	**3.72**	**7.75**	**572**	**3140**	**1.23 J**	**7930**	**16200**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-01	Downgradient	2/25/2021	N	**4.33**	**7.8**	**547**	**3290**	**5.91**	**6950**	**15200**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-01	Downgradient	2/25/2021	Dup	-	**8.08**	**551**	**3280**	**6**	**7120**	**15500**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-01	Downgradient	8/18/2021	N	**2.19**	**4.79**	**581**	**3210**	**16.8 JH**	**7200**	**4960**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-01	Downgradient	10/7/2021	N	**2.99**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-01	Downgradient	2/8/2022	N	**2.73**	**4.85**	**553 J**	**3290**	**16.4**	**7430 B**	**15600**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-01	Downgradient	9/28/2022	N	**3.11**	**6.71**	**555**	**3070 B**	**16.1**	**7220 B**	**13800**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-01	Downgradient	2/21/2023	N	**3.09**	**7.92 JH**	**596**	**3130**	**17.9 J**	**7250**	**14700**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-01	Downgradient	9/6/2023	N	**3.03**	**7.99**	**569**	**2730**	**16.5**	**5170**	**14600 JL**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-01	Downgradient	2/7/2024	N	**3.08**	**8.76**	**737**	**3230**	<20	**5490**	**15400**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-01	Downgradient	3/12/2024	N	-	-	**677**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-01	Downgradient	8/14/2024	N	**3.28**	**8.84**	**576**	**3200**	**16.4 JH**	**7540**	**14900**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-02	Downgradient	5/27/2016	N	**5.68**	**8.01**	**1280**	**4980**	<0.5	**1660**	**15000**	<0.0004	**0.00229 J**	**0.0106**	**0.0173**	**0.0169**	**0.000806 J**	**0.000805 J**	<0.0006	**1.61**	**0.000469**	<0.0006	**0.0957**	**0.00287**	**0.81 ± 0.28**	**4.2 ± 1.1**	**5.01**
Ash Pile	SP-02	Downgradient	8/16/2016	N	**5.88**	**8.88**	**1210**	**5230**	<0.5	**1680**	**17100**	<0.002	<0.002	**0.0118 J**	**0.00684 J**	**0.0169**	<0.002	**0.00132 J**	<0.003	**0.623**	**0.000499**	<0.003	**0.0929**	**0.00315 J**	**0.82 ± 0.28**	**4.5 ± 1.2**	**5.32**
Ash Pile	SP-02	Downgradient	10/27/2016	N	**5.63**	**10.7**	**1420**	**4680**	**0.513 J**	**1560**	**14500**	<0.004	<0.004	<0.019	**0.00928 J**	**0.0182 J**	<0.004	<0.002	<0.006	**0.678**	**0.000529**	<0.006	**0.0973**	**0.0036 J**	**1.03 ± 0.36**	**5 ± 1.4**	**6.03**
Ash Pile	SP-02	Downgradient	1/11/2017	N	**5.74**	**9.33**	**1240**	**5320**	<0.1	**1660**	**12600**	<0.0008	**0.00252 J**	**0.0152**	**0.00827**	**0.0162**	<0.002	<0.003	**0.00189**	**0.572 J-**	**0.00125**	<0.002	**0.113**	**0.00342**	**0.909 ± 0.361**	**3.33 ± 0.455 U**	**4.24**
Ash Pile	SP-02	Downgradient	2/14/2017	N	**5.09**	**9.18 J**	**1190**	**4850**	<0.5	**1610**	**12500**	<0.0008	<0.002	**0.0111**	**0.00699**	**0.0156**	<0.002	<0.003	<0.0003	**0.596**	**0.000526**	<0.002	**0.101**	**0.00337**	**1.21 ± 0.704**	**5.14 ± 0.477**	**6.35**
Ash Pile	SP-02	Downgradient	3/22/2017	N	**5.54**	**8.14**	**1180**	**4770**	<0.5	**1610**	**12600**	<0.0008	<0.002	**0.0103**	**0.00653**	**0.0156**	<0.002	<0.003	<0.0003	**0.564 J-**	**0.000437**	<0.002	**0.104**	**0.00333**	**1.08 ± 0.355**	**3.31 ± 0.767**	**4.39**
Ash Pile	SP-02	Downgradient	5/10/2017	N	**5.66**	**10.5 J**	**1240**	**4720**	<0.2	**1570**	**11500**	<0.0008	<0.002	**0.0103**	**0.00809**	**0.0161**	<0.002	<0.003	<0.0003	**0.576**	**0.000459**	<0.002	**0.094**	**0.00326**	**1.20 ± 0.337**	**3.38 ± 0.577**	**4.58**
Ash Pile	SP-02	Downgradient	6/13/2017	N	**5.66**	**9.35**	**1210**	**4730**	<0.5 J	**1720**	**11000**	<0.0008	<0.002	**0.0103**	**0.00879**	**0.0164**	<0.002	<0.003	<0.0003	**0.642**	**0.000483**	<0.01	**0.1**	**0.00322**	**0.253 ± 0.226**	**4.72 ± 0.757**	**4.97**
Ash Pile	SP-02	Downgradient	7/25/2017	N	**5.65**	**11.7 J**	**1310**	**4950**	<0.5	**2580**	**11800**	<0.0008	<0.002 J	**0.0116**	**0.0102**	**0.0155**	<0.002	<0.003 J	<0.0003	**0.564**	**0.000401**	<0.002	**0.107 J**	**0.00346**	**0.833 ± 0.364**	**4.19 ± 0.626 U**	**5.02**
Ash Pile	SP-02	Downgradient	8/22/2017	N	**5.56**	**8.77 J**	**1190**	**4770**	<0.5	**1700**	**11700**	<0.0008	<0.002	**0.0113**	**0.0073 J**	**0.0145**	<0.002	<0.003	<0.0003	**0.533**	**0.000378**	<0.002	**0.107 J**	**0.00344**	**0.198 ± 0.206 U**	**3.64 ± 0.549**	**3.84**
Ash Pile	SP-02	Downgradient	3/21/2018	N	**5.65**	**9.13**	**1200**	**4430 J+**	<10	**1660**	**13100**	<0.01	<0.01	<0.02	**0.0116**	**0.0164**	-	<0.025	<0.01	**0.65**	**0.00101 J-**	<0.025	**0.107**	<0.01	**0.63 ± 0.44 U**	**4 ± 1.1**	**4**
Ash Pile	SP-02	Downgradient	6/7/2018	N	**5.68**	**10.6**	**1220**	**4980**	**0.163**	**1790**	**13100**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

APPENDIX A
Cumulative Groundwater Analytical Results for CCR Monitoring Network Wells

San Miguel Electric Cooperative, Inc.
Christine, Atascosa County, Texas

					Appendix III Constituents							Appendix IV Constituents														
				Analyte:	pH (field)	Boron	Calcium	Chloride	Fluoride*	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium	Radium-226	Radium-228	Combined Radium
				Units:	SU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pCi/L	pCi/L	pCi/L
Area	Well ID	Well Type	Sample Date	Type																						
Ash Pile	SP-02	Downgradient	9/6/2018	N	**5.21**	**8.92**	**1070**	**4420**	<0.5	**1710**	**13300**	<0.01	<0.01	<0.02	**0.0146**	**0.016**	<0.02	<0.025	<0.01	**0.646**	**0.000511 J-**	<0.025	**0.114**	<0.01	-	-	-
Ash Pile	SP-02	Downgradient	2/20/2019	N	**5.68**	**13.1**	**1180**	**4390**	<0.5	**1790**	**12300**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-02	Downgradient	2/20/2019	Dup	-	**10.9**	**1170**	**4140**	<0.5	**1700**	**12000**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-02	Downgradient	8/20/2019	N	**5.44**	**9.92**	**1060**	**4430**	<0.5	**1880**	**12200**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-02	Downgradient	2/25/2020	N	**5.58**	**10.7**	**986**	**4220**	<0.5	**1710**	**9600**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-02	Downgradient	7/31/2020	N	-	**10.6**	**1100**	**4060**	<0.5	**1830**	**9600**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-02	Downgradient	8/20/2020	N	**6.6**	**10.5**	**1140**	**4010**	<0.5	**1770**	**9160**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-02	Downgradient	2/25/2021	N	**6.46**	**10.5**	**1060**	**3830**	<0.5	**1810**	**9040**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-02	Downgradient	8/18/2021	N	**4.66**	**10.5**	**1060**	**3750**	<5	**1840**	**8740**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-02	Downgradient	8/18/2021	Dup	-	**10.4**	**1070**	**3770**	<5	**1830**	**8930**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-02	Downgradient	10/7/2021	N	**5.11**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-02	Downgradient	2/8/2022	N	**5.09**	**10.7**	**1010 J**	**3590**	<1	**2030 B**	**6660**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-02	Downgradient	2/8/2022	Dup	-	**11 B**	**2730 J**	**3500**	<1	**1980 B**	**7250**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-02	Downgradient	3/17/2022	N	-	-	**1210**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-02	Downgradient	9/28/2022	N	**5.64**	**9.16**	**923**	**3210 B**	<1	**2000 B**	**8380**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-02	Downgradient	9/28/2022	Dup	-	**9.2**	**952**	**3220 B**	<0.1	**2000 B**	**7920**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-02	Downgradient	2/21/2023	N	**5.14**	**10.9**	**911**	**3030**	<10	**1980 J**	**8840**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-02	Downgradient	2/21/2023	Dup	-	**12.9**	**964**	**3040**	**10.2 J**	**7020 J**	**8670**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-02	Downgradient	5/5/2023	N	-	-	-	-	**2.72**	**2160**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-02	Downgradient	9/6/2023	N	**5.39**	**11.9**	**944**	**2520**	<1.00	**1800**	**8930**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-02	Downgradient	9/6/2023	Dup	-	**11.7**	**855**	**2610**	<1.00	**1860**	**9090**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-02	Downgradient	2/7/2024	N	**4.32**	**12.9**	**950**	**4060**	<40	**2630 J**	**8470**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-02	Downgradient	2/7/2024	Dup	**4.32**	**13.5**	**965**	**3040**	<10	**1890 J**	**8930**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-02	Downgradient	3/12/2024	N	-	-	-	-	-	**1840**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-02	Downgradient	8/14/2024	N	**4.8**	**13.7**	**867**	**2800**	<1	**2100**	**8120**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-02	Downgradient	8/14/2024	Dup	**4.8**	**13.5**	**904**	**2860**	<1	**2130**	**7900**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-02	Downgradient	10/10/2024	N	**5.15**	**13.4**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-02	Downgradient	12/2/2024	N	-	**12.7**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-03	Downgradient	5/26/2016	N	**3.81**	**7.66**	**815**	**4260**	**1.09**	**2870**	**11500**	<0.004	**0.00481 J**	**0.031 J**	**0.0544**	**0.0589**	**0.0161 J**	**0.166**	<0.006	**1.94**	<0.00004	<0.006	**0.0335 J**	**0.00552 J**	**1.37 ± 0.41**	**8 ± 1.9**	**9.37**
Ash Pile	SP-03	Downgradient	8/17/2016	N	**5.15**	**7.12**	**693**	**4230**	**0.975 J**	**3040**	**13500**	<0.002	<0.002	**0.0252**	**0.0446**	**0.0479**	<0.002	**0.151**	<0.003	**1.73**	<0.00004	<0.003	**0.0357**	**0.00529 J**	**1.13 ± 0.35**	**7 ± 1.7**	**8.13**
Ash Pile	SP-03	Downgradient	10/26/2016	N	**4.65**	**7.54**	**826**	**3240**	**0.552 J**	**3010**	**9620**	<0.004	<0.004	**0.0269 J**	**0.0274**	**0.0324**	<0.004	**0.0952**	<0.006	**1.69**	<0.00004	<0.006	**0.0261 J**	**0.00554 J**	**0.8 ± 0.3**	**7.3 ± 1.8**	**8.1**
Ash Pile	SP-03	Downgradient	1/11/2017	N	**3.9**	**7.1**	**751**	**4230**	<0.1	**2750**	**11500**	<0.0008	**0.00584**	**0.0266**	**0.0402**	**0.0506**	**0.00214 J**	**0.171**	**0.000807 J**	**1.47 J-**	<0.00008	<0.002	**0.0595**	**0.00632**	**1.33 ± 0.491**	**7.28 ± 0.519**	**8.61**
Ash Pile	SP-03	Downgradient	2/14/2017	N	**3.3**	**6.41 J**	**732**	**4050**	**1.16 J**	**2610**	**10800**	<0.0008	**0.00502**	**0.0246**	**0.0381**	**0.0487**	**0.00224 J**	**0.163**	**0.000412 J**	**1.56**	<0.00008	<0.002	**0.0668**	**0.00627**	**1.04 ± 0.472**	**7.95 ± 0.578**	**8.99**
Ash Pile	SP-03	Downgradient	3/21/2017	N	**3.53**	**6.36 J**	**694**	**4110**	**0.905 J**	**3200 J-**	**10600**	<0.0008	**0.00645**	**0.0229**	**0.0303 J**	**0.0442**	<0.002	**0.154**	<0.0003	**1.23**	<0.00008	<0.002	**0.0613 J**	**0.00662**	**1.71 ± 0.415**	**5.70 ± 0.519**	**7.41**
Ash Pile	SP-03	Downgradient	5/10/2017	N	**3.89**	**6.6 J**	**781**	**3980**	<0.5	**2420**	**11500**	<0.0008	**0.0049 J**	**0.0221**	**0.0416**	**0.051**	<0.002	**0.165**	<0.0003	**1.65**	<0.00008	<0.002	**0.0615**	**0.00618**	**1.35 ± 0.358**	**6.20 ± 0.617**	**7.55**
Ash Pile	SP-03	Downgradient	6/13/2017	N	**3.92**	**6.52**	**767**	**4380**	<0.5 J	**2830**	**10800**	<0.0008	**0.00472 J**	**0.0218**	**0.0434**	**0.0519**	<0.002	**0.173**	<0.0003	**1.72**	<0.00008	<0.002	**0.064**	**0.00611**	**1.37 ± 0.263**	**6.26 ± 0.753**	**7.63**
Ash Pile	SP-03	Downgradient	6/13/2017	Dup	-	**6.95**	**765**	**4440**	<0.5 J	**2890**	**10800**	<0.0008	**0.00462 J**	**0.0216**	**0.0419**	**0.0513**	<0.002	**0.171**	<0.0003	**1.7**	<0.00008	<0.002	**0.0658**	**0.00594**	**1.57 ± 0.340**	**5.94 ± 0.555**	**7.51**
Ash Pile	SP-03	Downgradient	7/25/2017	N	**4.53**	**8 J**	**846**	**4100**	<0.5	**3600**	**11200**	<0.0008	**0.00528 J**	**0.0224**	**0.0417**	**0.0532**	**0.00413 J**	**0.156 J**	**0.00032 J**	**1.58**	<0.00008	<0.002	**0.0653 J**	**0.00657**	**1.39 ± 0.442**	**5.00 ± 0.527 J**	**6.39 J**
Ash Pile	SP-03	Downgradient	7/25/2017	Dup	-	**9 J**	**829**	**4360**	<0.5	**3730**	**11400**	<0.0008	**0.0055 J**	**0.024**	**0.0418**	**0.053**	**0.00383 J**	**0.156 J**	**0.000306 J**	**1.62**	<0.00008	<0.002	**0.0651 J**	**0.00639**	**1.24 ± 0.429**	**7.80 ± 0.524 J**	**9.04 J**
Ash Pile	SP-03	Downgradient	8/22/2017	N	**4.27**	**6.26 J**	**762**	**4150**	<0.5	**2660**	**11000**	<0.0008	**0.00726**	**0.0232**	**0.0328 J**	**0.0462**	<0.002	**0.158**	**0.000384 J**	**1.33**	<0.00008	<0.002	**0.0632 J**	**0.00619**	**1.74 ± 0.462**	**7.83 ± 0.565**	**9.57**
Ash Pile	SP-03	Downgradient	3/21/2018	N	**4.78**	**6.75**	**786**	**3960 J+**	<10	**2520**	**11100**	<0.01	<0.01	**0.0235**	**0.0491**	**0.0482**	-	**0.16**	<0.01	**2**	<0.0002 J	<0.025	**0.0897**	<0.01	**1.58 ± 0.52**	**7.6 ± 1.9**	**9.18**
Ash Pile	SP-03	Downgradient	6/7/2018	N	**3.83**	**7.34**	**761 J**	**4760**	**0.901**	**2930**	**11900**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-03	Downgradient	6/7/2018	Dup	-	**6.78**	**447 J**	**4810**	**0.854**	**2920**	**11400**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-03	Downgradient	9/6/2018	N	**4.9**	**6.7**	**876**	**4250**	**0.846**	**2680**	**11900**	<0.01	<0.01	**0.0251**	<0.1	**0.0525 J**	<0.02	**0.154 J**	<0.01	**1.59**	<0.0002 J	<0.025	**0.0464**	<0.01	-	-	-
Ash Pile	SP-03	Downgradient	9/6/2018	Dup	-	**7.71**	**791**	**3730**	**0.517**	**2700**	**11400**	<0.01	<0.01	**0.0229**	<0.1	**0.0339 J**	<0.02	**0.109 J**	<0.01	**1.37**	<0.0002	<0.025	**0.0367 J**	<0.01	-	-	-
Ash Pile	SP-03	Downgradient	2/20/2019	N	**3.91**	**7.56**	**880**	**4580**	**1.05**	**2680**	**11800**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-03	Downgradient	8/20/2019	N	**3.56**	**6.7**	**819**	**4600**	**0.655 J**	**2670**	**11800**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-03	Downgradient	2/25/2020	N	**3.51**	**7.46**	**761**	**4800**	<0.5	**2530**	**11300**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-03	Downgradient	7/30/2020	N	-	**7.72**	**873**	**4610**	<0.5	**2600**	**11800**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-03	Downgradient	8/20/2020	N	**4.46**	**7.56**	**924**	**4780**	<0.5	**2550**	**11500**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-03	Downgradient	2/25/2021	N	**3.79**	**7.32**	**838**	**4620**	<0.5	**2560**	**11700**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-03	Downgradient	8/18/2021	N	**2.76**	**6.97**	**913**	**4710**	<5	**2530**	**10100**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-03	Downgradient	10/7/2021	N	**3.32**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-03	Downgradient	2/8/2022	N	**3.28**	**7.11 B**	**2360 J**	**4850**	**1.31 J**	**2750 B**	**9150**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-03	Downgradient	3/17/2022	N	**3.37**	-	**975**	**4780**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-03	Downgradient	4/20/2022	N	**3.52**	-	**828**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-03	Downgradient	9/28/2022	N	**3.63**	**5.55**	**852**	**4320 B**	**1.24 JH**	**2720 B**	**9910**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-03	Downgradient	2/21/2023	N	**3.49**	**9.13 JH**	**940**	**4440**	<10	**2700**	**11200**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-03	Downgradient	5/5/2023	N	-	**6.02**	**813**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-03	Downgradient	9/6/2023	N	**3.56**	**7.31**	**1000**	**4020**	<1.00	**2360**	**12400**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-03	Downgradient	11/27/2023	N	-	-	**970**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-03	Downgradient	12/18/2023	N	-	-	**953**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-03	Downgradient	2/7/2024	N	**3.63**	**7.91**	**927**	**5250**	<40	**2890**	**12200**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-03	Downgradient	3/12/2024	N	-	-	**1060**	**4170**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-03	Downgradient	5/2/2024	N	**3.92**	-	**939**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-03	Downgradient	7/9/2024	N	**3.66**	**7.4**	**861**	**469**	**1.96**	**1270**	**12800**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-03	Downgradient	8/14/2024	N	**3.75**	**8.88**	**953**	**4750**	<1	**2670**	**11900**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-03	Downgradient	10/10/2024	N	**3.62**	-	**989**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-03	Downgradient	12/2/2024	N	-	-	**1020**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-32	Downgradient	5/26/2016	N	**3.45**	**11.1**	**468**	**1800**	**17.5**	**9370**	**16700**	<0.004	**0.0397 J**	**0.0248 J**	**0.537**	**0.434**	**0.0402 J**	**3.08**	<0.006	**4.36**	<0.00004	<0.006	**0.074**	**0.0117 J**	**0.93 ± 0.31**	**5.7 ± 1.4**	**6.63**
Ash Pile	SP-32	Downgradient	8/17/2016	N	**3.45**	**10.6**	**420**	**1700**	**13**	**9040**	**18600**	<0.002	**0.0362**	**0.0213 J**	**0.504**	**0.411**	**0.0602**	**2.94**	**0.00546 J**	**4.05**	<0.00004	<0.003	**0.0988**	**0.0126**	**0.63 ± 0.22**	**0.92 ± 0.39**	**1.55**
Ash Pile	SP-32	Downgradient	10/26/2016	N	**3.54**	**10.9**	**510**	**1780**	**9.38**	**9680**	**16100**	<0.004	**0.0438 J**	**0.0224 J**	**0.563**	**0.462**	**0.0549**	**3.19**	<0.006	**4.68**	<0.00004	<0.006	**0.117**	**0.014 J**	**1.6 ± 0.52**	**ND ± 0.48**	**1.6**
Ash Pile	SP-32	Downgradient	1/11/2017	N	**3.61**	**8.89**	**430**	**1650**	<0.1	**9760**	**16700**	<0.0008	**0.0703**	**0.0219**	**0.394**	**0.382**	**0.0506**	**3.54**	**0.0045**	**3.73 J-**	<0.00008	<0.002	**0.342**	**0.0156**	**0.949 ± 0.247**	**0.625 ± 0.413 U**	**1.57**
Ash Pile	SP-32	Downgradient	2/14/2017	N	**3.1**	**8.69 J**	**432**	**1620**	**4.08**	**9710**	**15900**	<0.0008	**0.0668**	**0.0167**	**0.394**	**0.401**	**0.043**	**3.62**	**0.00268**	**3.47**	<0.00008	<0.002	**0.527**	**0.0159**	**1.29 ± 0.449**	**1.54 ± 0.536**	**2.83**
Ash Pile	SP-32	Downgradient	3/21/2017	N	**3.15**	**8.18 J**	**393**	**1630**	**13.2**	**10700 J-**	**15900**	<0.0008	**0.0882**	**0.0139**	**0.311 J**	**0.364**	**0.0316**	**3.28**	**0.00204 J+**	**3.41**	<0.00008	<0.002	**0.404 J**	**0.0168**	**0.258 ± 0.161 U**	**1.18 ± 0.491**	**1.44**
Ash Pile	SP-32	Downgradient	5/10/2017	N	**3.55**	**9 J**	**434**	**1590**	**9.97**	**9550**	**16600**	<0.0008	**0.0626**	**0.0126**	**0.432**	**0.411**	**0.024**	**3.19**	**0.00177**	**3.73**	<0.00008	<0.002	**0.411**	**0.0155**	**0.860 ± 0.295**	**2.69 ± 0.555 J**	**3.55 J**
Ash Pile	SP-32	Downgradient	5/10/2017	Dup	-	**9.02 J**	**438**	**1540**	**10.3**	**9360**	**17000**	<0.0008	**0.0632**	**0.0128**	**0.435**	**0.419**	**0.0227**	**3.21**	**0.00186**	**3.66**	<0.00008	<0.002	**0.411**	**0.016**	**1.44 ± 0.489**	**4.20 ± 0.503 J**	**5.64 J**
Ash Pile	SP-32	Downgradient	6/13/2017	N	**3.49**	**9.07**	**437**	**1720**	**6.55 J-**	**9710**	**17400**	<0.0008	**0.0897**	**0.0125**	**0.459**	**0.417**	**0.0278**	**3.03**	<0.0003	**3.63**	<0.00008	<0.002	**0.601**	**0.016**	**0.438 ± 0.191**	**3.95 ± 0.494**	**4.39**

APPENDIX A
Cumulative Groundwater Analytical Results for CCR Monitoring Network Wells

San Miguel Electric Cooperative, Inc.
Christine, Atascosa County, Texas

					Appendix III Constituents							Appendix IV Constituents															
				Analyte:	pH (field)	Boron	Calcium	Chloride	Fluoride*	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium	Radium-226	Radium-228	Combined Radium
				Units:	SU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pCi/L	pCi/L	pCi/L
Area	Well ID	Well Type	Sample Date	Type																							
Ash Pile	SP-32	Downgradient	7/25/2017	N	**3.49**	**8.28 J**	**501**	**1750**	<0.5 J	**11800**	**16300**	<0.0008	**0.102 J**	**0.0128**	**0.44**	**0.43**	**0.0207**	**1.99 J**	**0.00148**	**3.77**	<0.00008	<0.002	**0.753 J**	**0.0166**	**0.430 ± 0.280**	**4.53 ± 0.497 U**	**4.96**
Ash Pile	SP-32	Downgradient	8/22/2017	N	**3.35**	**7.57 J**	**429**	**1640**	<0.5	**10100**	**16500**	<0.0008	**0.101**	**0.012**	**0.319 J**	**0.372**	**0.0194**	**2.1 J**	**0.00106**	**2.54**	<0.00008	<0.002	**0.467 J**	**0.0157**	**0.302 ± 0.356**	**3.46 ± 0.519 J**	**3.76**
Ash Pile	SP-32	Downgradient	8/22/2017	Dup	-	**7.6 J**	**434**	**1640**	<0.5	**10100**	**16400**	<0.0008	**0.1**	**0.0117**	**0.317 J**	**0.37**	**0.0187**	**2.1 J**	**0.00102**	**2.56**	<0.00008	<0.002	**0.468 J**	**0.0158**	**0.595 ± 0.369**	**4.61 ± 0.465 J**	**5.21**
Ash Pile	SP-32	Downgradient	3/21/2018	N	**3.13**	**8.54**	**431**	**1470 J+**	**11**	**9720**	**17600**	<0.01	**0.116**	<0.02	**0.449**	**0.402**	-	**2.55**	<0.01	**3.3**	<0.0002 J	<0.025	**0.806**	**0.0167**	**0.43 ± 0.25**	**1.86 ± 0.72**	**2.29**
Ash Pile	SP-32	Downgradient	6/7/2018	N	**3.19**	**9.2**	**422**	**1720**	**0.89**	**10100**	**16600**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-32	Downgradient	9/6/2018	N	**2.76**	**7.54**	**465**	**1560**	**15.2**	**9450**	**17900**	<0.01	**0.0589**	<0.02	**0.346**	**0.414**	<0.02	**2.66**	<0.01	**3.03**	<0.0002 J	<0.025	**0.169**	**0.0141**	-	-	-
Ash Pile	SP-32	Downgradient	2/20/2019	N	**3.48**	**8.1**	**428**	**1680**	**13.9**	**10700**	**16600**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-32	Downgradient	8/20/2019	N	**3.06**	**7.99**	**436**	**1930**	**4**	**10100**	**16700**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-32	Downgradient	8/20/2019	Dup	-	**7.88**	**464**	**1700**	**4.86**	**9550**	**16800**	<0.0008	**0.0721**	**0.0118**	**0.366**	**0.377**	**0.0107**	**1.76**	**0.000744 JH**	**3.31**	<0.00008	<0.002	**0.614**	**0.0157**	-	-	-
Ash Pile	SP-32	Downgradient	2/25/2020	N	**2.81**	**8.8**	**399**	**1770**	**1.42 J**	**9370**	**16400**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-32	Downgradient	7/30/2020	N	-	**8.58**	**476**	**1860**	**0.576 J**	**9760**	**16600**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-32	Downgradient	8/20/2020	N	**3.74**	**8.65**	**496**	**1890**	<0.5	**9660**	**15800**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-32	Downgradient	2/25/2021	N	**3.58**	**8.72**	**474**	**1930**	**4.22**	**9220**	**16000**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-32	Downgradient	8/18/2021	N	**2.74**	**7.92**	**497**	**1570**	**8.51 JH**	**6950**	**11800**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-32	Downgradient	10/7/2021	N	**3.48**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-32	Downgradient	2/8/2022	N	**3.09**	**6.22 B**	**1260 J**	**1510**	**10.3**	**6380 B**	**10000**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-32	Downgradient	3/17/2022	N	**3.18**	-	**537**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-32	Downgradient	4/20/2022	N	**3.5**	-	**453**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-32	Downgradient	9/28/2022	N	**3.57**	**11.8**	**534**	**1460 B**	**6.57**	**5670 B**	**9410**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-32	Downgradient	11/2/2022	N	**3.46**	**11.5 ^2**	**482**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-32	Downgradient	12/2/2022	N	-	**8**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-32	Downgradient	2/21/2023	N	**3.31**	**10.6**	**542**	**2170**	**18.8 J**	**7110**	**13500**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-32	Downgradient	5/5/2023	N	-	-	**465**	**820**	**1.17**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-32	Downgradient	9/6/2023	N	**3.94**	**13**	**574**	**1220**	**3.57**	**4170**	**9150 JL**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-32	Downgradient	11/27/2023	N	-	**11.4**	**569**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-32	Downgradient	12/18/2023	N	-	**9.58**	**756**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-32	Downgradient	2/7/2024	N	**3.8**	**13.5**	**567**	**1900**	<8	**5190**	**11000**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-32	Downgradient	3/12/2024	N	-	**9.26**	**821**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-32	Downgradient	5/2/2024	N	**4.36**	-	**604**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-32	Downgradient	7/9/2024	N	**3.57**	**7.89**	**517**	**988**	**0.125 J**	**520**	**12500**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-32	Downgradient	8/14/2024	N	**3.6**	**9.89**	**580**	**2450**	**6.97 JH**	**5880**	**11300**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-32	Downgradient	10/10/2024	N	**3.48**	-	**596**	**263**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Pile	SP-32	Downgradient	12/2/2024	N	-	-	**654**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ash Ponds	PZ-02	Upgradient	5/26/2016	N	**5.77**	**6.89**	**823**	**4050**	<0.5	**2830**	**11400**	<0.004	**0.00444 J**	**0.0293 J**	<0.002	<0.002	<0.004	<0.002	<0.006	**2.38**	<0.00004	<0.006	<0.011	<0.002	**0.91 ± 0.3**	**3.84 ± 0.98**	**4.75**
Ash Ponds	PZ-02	Upgradient	8/17/2016	N	**5.74**	**4.39**	**681**	**4040**	<0.5	**2840**	**12600**	<0.002	<0.002	**0.0259**	<0.001	<0.001	<0.002	**0.00157 J**	<0.003	**2.42**	<0.00004	<0.003	**0.00555 J**	<0.001	**0.83 ± 0.27**	**2.43 ± 0.68**	**3.26**
Ash Ponds	PZ-02	Upgradient	10/27/2016	N	**6.07**	**6.49**	**807**	**4140**	**0.563 J**	**2950**	**11000**	<0.004	**0.00503 J**	**0.0403 J**	<0.002	<0.002	**0.00436 J**	**0.00305 J**	<0.006	**2.27**	<0.00004	<0.006	**0.0128 J**	<0.002	**1.09 ± 0.35**	**3.6 ± 1**	**4.69**
Ash Ponds	PZ-02	Upgradient	2/15/2017	N	**4.73**	**5.45 J**	**741**	**3740**	<0.5	**2640**	**10500**	<0.0008	<0.002	**0.0265**	<0.0003	<0.0003	<0.002	<0.003	<0.0003	**1.77**	<0.00008	<0.002	<0.002	<0.0005	**0.657 ± 0.360 U**	**2.25 ± 0.500**	**2.91**
Ash Ponds	PZ-02	Upgradient	3/21/2017	N	**5.49**	**5.34 J**	**706**	**3820**	<0.5	**3120 J-**	**10300**	<0.0008	<0.002	**0.0275**	<0.0003 J	<0.0003	<0.002	<0.003	<0.0003	**1.41**	<0.00008	<0.002	<0.002 J	<0.0005	**2.05 ± 0.481**	**2.74 ± 0.475**	**4.79**
Ash Ponds	PZ-02	Upgradient	5/10/2017	N	**5.89**	**5.67 J**	**778**	**3880**	<0.1	**2720**	**10800**	<0.0008	<0.002	**0.0257**	<0.0003	<0.0003	<0.002	<0.003	<0.0003	**2.06**	<0.00008	<0.002	<0.002	<0.0005	**0.774 ± 0.299**	**3.21 ± 0.522**	**3.98**
Ash Ponds	PZ-02	Upgradient	7/26/2017	N	**6.11**	**5.43 J**	**790**	**4050**	<0.5	**3010**	**10000**	<0.0008	<0.002	**0.0257**	<0.0003 J	<0.0003	<0.002	<0.003	<0.0003	**1.88**	<0.00008	<0.002	<0.002	<0.0005	**2.29 ± 0.595**	**3.70 ± 0.507 U**	**5.99**
Ash Ponds	PZ-02	Upgradient	8/22/2017	N	**5.76**	**5.42**	**767**	**3830**	<0.5	**2720**	**10800**	<0.0008	<0.002	**0.027**	<0.0003	<0.0003	<0.002	<0.003	<0.0003	**1.82**	<0.00008	<0.002	<0.002	<0.0005	**0.704 ± 0.303**	**2.93 ± 0.460**	**3.63**
Ash Ponds	PZ-02	Upgradient	3/21/2018	N	**5.79**	**5.13**	**726**	**3000 J+**	<10	**2600**	**9760**	<0.01	<0.01	**0.0272**	<0.01	<0.01	-	<0.025	<0.01	**1.87**	<0.0002 J	<0.025	<0.01	<0.01	**0.34 ± 0.16 U**	**1.11 ± 0.56**	**1.11**
Ash Ponds	PZ-02	Upgradient	6/6/2018	N	**5.77**	**5.23**	**715**	**3790**	**0.26**	**2880**	**10200**	<0.01	<0.01	**0.0266**	<0.1	<0.01	-	<0.025	<0.01	**1.59**	<0.0002 J	<0.025	<0.01	<0.01	**0.46 ± 0.25 U**	**2.07 ± 0.62**	**2.53**
Ash Ponds	PZ-02	Upgradient	9/6/2018	N	**5.34**	**5.97**	**801**	**3600**	<0.5	**2660**	**10600**	<0.01	<0.01	**0.0309**	<0.1	<0.01	<0.02	<0.025	<0.01	**1.71**	<0.0002 J	<0.025	<0.01	<0.01	**0.6 ± 0.34 U**	**2.23 ± 0.7 U**	**2.83 U**
Ash Ponds	PZ-02	Upgradient	2/19/2019	N	**6.26**	**8.68**	**838**	**4040**	<0.5	**2970**	**10900**	<0.0053 JL	<0.0025	**0.0267 J**	<0.00091	<0.00077	<0.00251 JH	**0.00238 J**	<0.0012	**2.16**	<0.00003	<0.0049	<0.0086	<0.00125 JH	**0.73 ± 0.34 JH**	**3.14 ± 0.88**	**3.87 ± 1.22 JH**
Ash Ponds	PZ-02	Upgradient	8/19/2019	N	**5.85**	**6.35**	**764**	**3980**	<0.5	**2840**	**10700**	<0.0008	<0.002	**0.0284**	**0.000438 JH**	<0.0003 JH	<0.002	**0.003 JH**	**0.000632 JH**	**1.99 JL**	<0.00008	<0.002	<0.002	<0.0005	**0.676 ± 0.504 J**	**0.862 ± 0.487 JH**	**1.54 ± 0.991 JH**
Ash Ponds	PZ-02	Upgradient	2/26/2020	N	**5.85**	**7.79**	**763**	**3940**	<0.5	**2730**	**10800**	<0.0008	**0.00259 J**	**0.0421**	**0.000703 J**	<0.0003	**0.00423 J**	**0.00421 J**	**0.00316**	**1.84**	<0.00008	<0.002	<0.002	<0.0005	**0.717 ± 0.348**	**4.15 ± 0.658**	**4.87 ± 1.01**
Ash Ponds	PZ-02	Upgradient	8/11/2020	N	**6.04**	**7.57**	**816**	**4010**	<0.5	**2780**	**10700**	<0.0008	<0.002	**0.0286**	<0.0003	<0.0003	<0.002	<0.003	**0.000635 J**	**1.9**	<0.00008	<0.002	<0.002	<0.0005	**0.835 ± 0.392**	**2.6 ± 0.65 JH**	**3.43 ± 1.04 JH**
Ash Ponds	PZ-02	Upgradient	2/24/2021	N	**5.95**	**7.15**	**799**	**3900**	<0.5	**2620**	**10500**	<0.0008	**0.00513**	**0.0702**	**0.00285**	<0.0003	**0.0137**	**0.0132**	**0.00743**	**1.4**	<0.00008	<0.002	**0.00566**	**0.0017**	**0.596 ± 0.29 JH**	**-1.14 ± 0.377**	**0.596 ± 0.667 JH**
Ash Ponds	PZ-02	Upgradient	8/18/2021	N	**5.67**	**6.74**	**949**	**4010**	**0.11 J**	**2910**	**9970**	<0.00589	<0.0055	**0.0195 JL**	**0.00224 JL**	<0.00243	**0.0538**	**0.00881 J**	<0.00237 JL	**2.48**	<0.0000263	**0.00788 J**	<0.00439	<0.00621 JL	**11.6 ± 16.7**	**8.53 ± 28.6**	**20.13 ± 45.3**
Ash Ponds	PZ-02	Upgradient	2/8/2022	N	**5.73**	**7.18**	**790 B**	**4100**	**1.35 J**	**3090**	**9330**	<0.0589	<0.055	**0.0164 J**	<0.0049	<0.0243	<0.00811	<0.00673	<0.0237	**2.08**	<0.0000263	<0.0123	<0.0439	<0.0621	**0.55**	**2.97 ± 0.618 JH**	**3.52**
Ash Ponds	PZ-02	Upgradient	9/28/2022	N	**5.98**	**8.51**	**848**	**3890**	<1	**2800**	**9900**	<0.03	<0.024	**0.0304 J**	<0.0184	<0.013	<0.02	<0.0112	<0.0162	**2.21**	**0.00108**	<0.026	<0.0164	<0.0092	**0.56 JL**	**2.2 ± 0.604**	**2.76**
Ash Ponds	PZ-02	Upgradient	2/21/2023	N	**6.05**	**8.86**	**945**	**3830**	<1	**2910**	**10900**	<0.00484	<0.00141	**0.0304 J**	<0.00137	<0.00109	<0.00765	**0.00299**	<0.00188	**2.08**	<0.00013	<0.00305	<0.0037	<0.00236	**0.55 U**	**2.78 ± 0.771**	**2.78**
Ash Ponds	PZ-02	Upgradient	9/6/2023	N	**5.95**	**6.57**	**843**	**4680**	<1	**4070**	**11000**	<0.00967	<0.00282	<0.0314	<0.00274	<0.00217	<0.0153	**0.00455 J**	<0.00376	**1.74**	<0.00013	<0.0061	<0.00739	<0.00472	**0.9**	**2.02**	**2.92**
Ash Ponds	PZ-02	Upgradient	2/7/2024	N	**6.08**	**8**	**924**	**4150**	<20	**2730**	**10400**	<0.000967	**0.000906 J**	**0.0293**	**0.000317 J**	<0.000217	<0.00153	**0.00339**	<0.000376	**9.51**	<0.00013	<0.00061	<0.000739	<0.000472	**0.68 JH**	**1.78**	**2.46**
Ash Ponds	PZ-02	Upgradient	8/14/2024	N	**5.57**	**8.43**	**831**	**3860**	<1	**2730**	**9900**	<0.0967	<0.0563	<0.314	<0.0274	<0.0217	<0.153	<0.0261	<0.0376	**2.16**	<0.00013	<0.061	<0.153	<0.0472	**0.74**	**2.23**	**2.97**
Ash Ponds	PZ-03	Upgradient	5/26/2016	N	**3.17**	**13.5**	**635**	**4010**	**8.26**	**4590**	**13900**	<0.004	**0.026 J**	<0.019	**0.365**	**0.34**	**0.00485 J**	**1.89**	<0.006	**3.21**	<0.00004	<0.006	**0.0527**	**0.00309 J**	**0.35 ± 0.16**	**3.63 ± 0.96**	**3.98**
Ash Ponds	PZ-03	Upgradient	8/18/2016	N	**3.4**	**8.43**	**565**	**4140**	**7.41**	**4720**	**13700**	<0.002	**0.0248 J**	**0.0143 J**	**0.463**	**0.319**	**0.00448 J**	**1.66**	<0.003	**3.68**	<0.00004	<0.003	**0.0666**	**0.00291 J**	**0.5 ± 0.18**	**3.78 ± 0.98**	**4.28**
Ash Ponds	PZ-03	Upgradient	10/26/2016	N	**3.26**	**12.3**	**670**	**4210**	**5.56**	**4720**	**13400**	<0.004	**0.0324 J**	<0.019	**0.371**	**0.379**	**0.00514 J**	**1.92**	<0.006	**3.28**	<0.00004	<0.006	**0.093**	**0.00499 J**	**0.48 ± 0.2**	**3.9 ± 1.1**	**4.38**
Ash Ponds	PZ-03	Upgradient	2/14/2017	N	**2.78**	**9.67 J**	**590**	**3980**	**5.76**	**4410**	**12600**	<0.0008	**0.0588**	**0.0142**	**0.275**	**0.344**	**0.00416 J**	**1.84**	**0.000306 J**	**2.44**	<0.00008	<0.002	**0.424 J**	**0.00338**	**0.701 ± 0.417**	**3.57 ± 0.513**	**4.27**
Ash Ponds	PZ-03	Upgradient	3/22/2017	N	**3.16**	**9.82 J**	**567**	**4200**	**6.04**	**5120 J-**	**12500**	<0.0008	**0.058**	**0.015**	**0.295 J**	**0.326**	**0.00369 J**	**1.94**	**0.000355 J+**	**2.57**	<0.00008	<0.002	**0.265 J**	**0.00366**	**1.25 ± 0.296**	**4.38 ± 0.710**	**5.63**
Ash Ponds	PZ-03	Upgradient	5/10/2017	N	**3.47**	**10.3 J**	**630**	**4130**	<0.1	**4430**	**14100**	<0.0008	**0.0421**	**0.0137**	**0.294**	**0.371**	**0.00443 J**	**1.52**	<0.0003	**2.69**	<0.00008	<0.002	**0.274**	**0.00344**	**0.641 ± 0.282**	**3.41 ± 0.511**	**4.05**
Ash Ponds	PZ-03	Upgradient	7/24/2017	N	**3.42**	**10.1 J**	**709**	**4200**	**1.14 J**	**5630**	**13800**	<0.0008	**0.0606 J**	**0.0149**	**0.281**	**0.382**	**0.00555**	**1.42 J**	**0.00041 J**	**2.3**	<0.00008	<0.002	**0.453 J**	**0.00357**	**0.934 ± 0.346**	**3.92 ± 0.585**	**4.85**
Ash Ponds	PZ-03	Upgradient	8/21/2017	N	**3.49**	**9.16 J**	**633**	**4230**	**0.526 J**	**4470**	**13200**	<0.0008	**0.0684**	**0.0142**	**0.225 J**	**0.337**	**0.00375 J**	**1.53**	<0.0003	**1.98**	<0.00008	<0.002	**0.331 J**	**0.00337**	**0.565 ± 0.280**	**4.32 ± 0.472**	**4.89**
Ash Ponds	PZ-03	Upgradient	3/21/2018	N	**2.98**	**10.2**	**694**	**4390 J+**	<10	**4160**	**14000**	<0.01	**0.0743**	**0.0245**	**0.425**	**0.463**	-	**1.69**	<0.01	**3.57**	<0.0002 J	<0.025	**0.518**	<0.01	**0.54 ± 0.28**	**3.7 ± 1.1**	**4.24**
Ash Ponds	PZ-03	Upgradient	6/7/2018	N	**2.87**	**10.6**	**686**	**5050**	**1.44**	**4610**	**14100**	<0.01	**0.0838**	**0.399**	**0.289**	**0.501**	-	**1.78**	**0.109**	**2.41**	<0.0002	<0.025	**0.146**	<0.01	**0.54 ± 0.26**	**4.9 ± 1.2**	**5.44**
Ash Ponds	PZ-03	Upgradient	9/6/2018	N	**2.88**	**5.48**	**818**	**3500**	<0.5	**2650**	**10500**	<0.01	<0.01	**0.03**	<0.1	<0.01	<0.02	<0.025	<0.01	**1.68**	<0.0002 J	<0.025	<0.01	<0.01	**0.31 ± 0.21 U**	**0.79 ± 0.37 U**	**ND**
Ash Ponds	PZ-03	Upgradient	2/19/2019	N	**3.66**	**10.2**	**719**	**4910**	**7.12**	**3870**	**14900**	<0.0053 JL	**0.052**	**0.057**	**0.29**	**0.601**	**0.00571 JH**	**1.73**	**0.0175 J**	**2.85**	**0.00009 J**	<0.0049	**0.122**	**0.00672 J**	**0.62 ± 0.34 JH**	**3.8 ± 0.99**	**4.42 ± 1.33 JH**
Ash Ponds	PZ-03	Upgradient	8/19/2019	N	**3.07**	**9.66**	**727**	**5300**	**3.89**	**4180**	**14500**	<0.0008	**0.0515**	**0.0171**	**0.262**	**0.538**	**0.005**	**1.2**	**0.00145 JH**	**2.61 JL**	<0.00008	<0.002	**0.444**	**0.00402**	**1.93 ± 0.738 J**	**0.649 ± 0.44 JH**	**2.58 ± 1.18 B**
Ash Ponds	PZ-03	Upgradient	2/26/2020	N	**3.13**	**10.6**	**659**	**4780**	**3.35**	**4320**	**14200**	<0.0008	**0.0694**	**0.0483**	**0.222**	**0.42**	**0.0131**	**1.17**	**0.00966**	**2.58**	<0.00008	<0.002	**0.475**	**0.00389**	**1.06 ± 0.457**	**6.59 ± 0.649**	**7.66 ± 1.11**
Ash Ponds	PZ-03	Upgradient	8/11/2020	N	**3.37**	**10.8**	**790**	**5830**	<0.5	**3920**	**14100**	<0.0008	**0.0854**	**0.0183**	**0.23**	**0.512**	**0.0061**	**1.17**	**0.00142**	**2.71**	<0.00008	<0.002	**0.502**	**0.00496**	**0.767 ± 0.363**	**5.93 ± 0.725**	**6.69 ± 1.09**
Ash Ponds	PZ-03	Upgradient	2/24/2021	N	**3.24**	**9.49**	**798**	**5310**	**3.77**	**4010**	**14200**	<0.0008	**0.0678**	**0.0243**	**0.189**	**0.477**	**0.00424 J**	**1.48**	**0.0032**	**1.84**	<0.00008	<0.002	**0.711**	**0.00627**	**0.939 ± 0.38 JH**	**4.22 ± 0.39 JH**	**5.16 ± 0.77 JH**
Ash Ponds	PZ-03	Upgradient	8/18/2021	N	**3.06**	**7.48**	**979**	**5300**	**5.38**	**4120**	**12700**	**0.00762 J**	**0.0311**	**0.0141 JL**	**0.196 JL**	**0.428**	<0.000811	**1.09**	**0.0218 JL**	**2.2**	<0.0000263	**0.00939 J**	<0.00439	<0.00621 JL	**-17.3 ± 23.1**	**6.31 ± 17.1**	**-10.99 ± 40.2**
Ash Ponds	PZ-03	Upgradient	2/8/2022	N	**2.89**	**7.95**	**693**	**5410 E**	**6.85**	**4300**	**12700**	<0.00589 JL	**0.0468**	**0.00941 JL**	**0.199 JL**	**0.426**	**0.0118 JL**	**1.13**	**0.0109 JL**	**2.12**	<0.0000263	**0.00687 JL**	<0.00439	<0.00621 JL	**0.74**	**3.54 ± 0.616 JH**	**4.28**
Ash Ponds	PZ-03	Upgradient	9/28/2022	N	**3.27**	**10.1**	**822**	**5340**	**5.03**	**3850 B**	**16100**	<0.03	**0.0775**	**0.0294 J**	**0.264**	**0.616**	<0.02	**1.54**	<0.0162	**2.67**	**0.00116**	<0.026	**0.0753**	**0.0096 J**	**0.77 JL**	**2.3 ± 0.809**	**3.07**
Ash Ponds	PZ-03	Upgradient	2/21/2023	N	**3.45**	**11.4**	**864**	**5470**	**5.09**	**3940**	**14100**	<0.00484	**0.0821**	**0.021 J**	**0.257**	**0.529**	<0.00765	**1.55**	**0.00206 J**	**2.36**	**0.000404**	<0.00305	**0.0444**	**0.00952**	**0.68**	**4.67 ± 0.967**	**5.35**
Ash Ponds	PZ-03	Upgradient	9/6/2023	N	**3.33**	**9.86**	**921**	**5030**	**5.53**	**3690**	**14800**	<0.00967	**0.0885**	<0.0628	**0.244**	**0.495**	<0.0306	**1.41**	<0.00752	**2.21**	**0.000538**	<0.0122	**0.0438 J**	<0.00944	**2.35**	**4.31**	**6.66**
Ash Ponds	PZ-03	Upgradient	2/7/2024	N	**3.58**	**6.27**	**918**	**5620**	<40	**3430**	**16000**	<0.000967	**0.121**	**0.0229**	**0.274**	**0.493**	**0.00266**	**1.64**	**0.00177**	**2.5**	**0.00137**	<0.00061	**0.0473**	**0.00896**	**0.39 JH**	**1.73**	**2.12**

APPENDIX A
Cumulative Groundwater Analytical Results for CCR Monitoring Network Wells

San Miguel Electric Cooperative, Inc.
Christine, Atascosa County, Texas

					Appendix III Constituents							Appendix IV Constituents															
				Analyte:	pH (field)	Boron	Calcium	Chloride	Fluoride*	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium	Radium-226	Radium-228	Combined Radium
				Units:	SU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pCi/L	pCi/L	pCi/L
Area	Well ID	Well Type	Sample Date	Type																						
Ash Ponds	PZ-03	Upgradient	8/14/2024	N	**2.94**	**11.2**	**989**	**5850**	**4.26 JL**	**3700**	**15300**	<0.0967	**0.105**	<0.314	**0.262**	**0.617**	<0.153	**1.68**	<0.0376	**2.76**	**0.00244 F1**	<0.061	<0.153	<0.0472	**1.56**	**3.95**	**5.51**
Ash Ponds	AP-31	Downgradient	5/25/2016	N	**3.93**	**37.6**	**547**	**1550**	<0.5	**3310**	**7990**	<0.004	**0.00639 J**	<0.019	**0.0089 J**	**0.00403 J**	<0.004	**0.218**	<0.006	**0.757**	**0.000685**	<0.006	**0.0173 J**	<0.002	**0.21 ± 0.14**	**1.24 ± 0.47**	**1.45**
Ash Ponds	AP-31	Downgradient	8/17/2016	N	**3.75**	**35.5**	**505**	**1760**	**0.579 J**	**3590**	**9580**	<0.002	**0.00322 J**	**0.0128 J**	**0.011**	**0.00432 J**	**0.00286 J**	**0.237**	<0.003	**0.908**	**0.000766**	<0.003	**0.0258**	**0.00199 J**	**0.49 ± 0.18**	**2.37 ± 0.67**	**2.86**
Ash Ponds	AP-31	Downgradient	10/27/2016	N	**3.84**	**44.6**	**602**	**1550**	**0.725 J**	**3300**	**7820**	**0.00787 J**	**0.00542 J**	<0.019	**0.0107 J**	**0.00427 J**	<0.004	**0.219**	<0.006	**0.826**	**0.000689**	<0.006	**0.0309 J**	**0.00286 J**	**0.32 ± 0.16**	**1.15 ± 0.49**	**1.47**
Ash Ponds	AP-31	Downgradient	2/16/2017	N	**3.56**	**44.3**	**592**	**1560**	**0.288 J-**	**3190**	**7310**	<0.0008	**0.0115**	**0.0124 J**	**0.00834**	**0.00377**	**0.00243 J**	**0.235**	<0.0003	**0.717**	**0.000723**	<0.002	**0.0631 J+**	**0.00252**	**0.447 ± 0.313**	**0.540 ± 0.625 U**	**0.987 U**
Ash Ponds	AP-31	Downgradient	3/23/2017	N	**3.66**	**40.8**	**499**	**1550**	<0.5	**3310**	**7010**	<0.0008	**0.00806**	**0.0114**	**0.00805**	**0.00361**	**0.00236 J**	**0.214**	<0.0003	**0.739 J-**	**0.000814**	<0.002	**0.0609**	**0.00205**	**1.39 ± 0.384**	**0.512 ± 0.492 U**	**1.9**
Ash Ponds	AP-31	Downgradient	5/15/2017	N	**2.96**	**42.3 J**	**534**	**1580**	<0.1	**3180**	**7590**	<0.0008	**0.00779**	**0.0116**	**0.00938**	**0.00398**	**0.00236 J**	**0.225**	<0.0003	**0.814**	**0.000816**	<0.002	**0.0511**	**0.00213**	**0.623 ± 0.276**	**1.55 ± 0.899 U**	**2.17**
Ash Ponds	AP-31	Downgradient	7/26/2017	N	**3.98**	**45.1 J**	**510**	**1720**	<0.2	**3730**	**7740**	<0.0008	**0.0128**	**0.0119**	**0.00715**	**0.00369**	**0.00239 J**	**0.238**	<0.0003	**0.717**	**0.000665**	<0.002	**0.0579**	**0.00244**	**0.741 ± 0.318**	**1.20 ± 0.379 U**	**1.94 U**
Ash Ponds	AP-31	Downgradient	8/23/2017	N	**3.72**	**41.4**	**530**	**1680**	<0.2	**3260**	**7800**	<0.0008	**0.0113**	**0.013**	**0.00876**	**0.00392**	**0.00239 J**	**0.253**	<0.0003	**0.846**	**0.000681**	<0.002	**0.0704**	**0.00222**	**0.491 ± 0.260**	**2.40 ± 0.489 U**	**2.89**
Ash Ponds	AP-31	Downgradient	3/19/2018	N	**3.58**	**43.3**	**566**	**1570**	<5	**3260**	**7580**	<0.01	<0.01	<0.02	<0.02	<0.01	**-**	**0.253**	<0.02	**0.883**	**0.000505 J-**	<0.025	**0.0372**	<0.01	**0.44 ± 0.25**	**1.13 ± 0.54**	**1.57**
Ash Ponds	AP-31	Downgradient	6/5/2018	N	**3.89**	**43.1**	**562**	**1620**	**0.308**	**3220**	**7740**	<0.01	<0.01	<0.02	**0.0123**	<0.01	**-**	**0.234**	<0.01	**0.771**	**0.000457**	<0.025	**0.0329**	<0.01	**0.47 ± 0.29 U**	**0.99 ± 0.4**	**0.99**
Ash Ponds	AP-31	Downgradient	9/4/2018	N	**3.19**	**34.7**	**601**	**1550**	**0.406**	**3020**	**8220**	<0.01	<0.01	<0.02	**0.011 J**	<0.01 J	<0.02	**0.229 J**	<0.01	**0.947**	**0.000403**	<0.025	**0.0243 J**	<0.01	**0.35 ± 0.27 U**	**1.38 ± 0.53 U**	**1.73 U**
Ash Ponds	AP-31	Downgradient	2/21/2019	N	**3.94**	**58.2**	**476**	**1590**	**0.609 J**	**3090**	**7780**	<0.00106 JH	**0.00674**	**0.012**	**0.00893 J**	**0.00441**	**0.00255 JH**	**0.257**	<0.00024 JH	**0.871**	**0.000504**	<0.00098	**0.0285**	**0.00215 J**	**0.49 ± 0.28 JH**	**1.45 ± 0.52**	**1.94 ± 0.8 JH**
Ash Ponds	AP-31	Downgradient	2/21/2019	Dup	**-**	**60.2**	**399**	**1630**	**0.601 J**	**3140**	**7780**	<0.00106 JH	**0.00642**	**0.0123**	**0.00846 J**	**0.00494**	**0.0022 JH**	**0.247**	<0.00024 JH	**0.837**	**0.0005**	<0.00098	**0.025**	**0.00215 J**	**0.33 ± 0.26 JH**	**1.12 ± 0.47**	**1.45 ± 0.73 JH**
Ash Ponds	AP-31	Downgradient	8/20/2019	N	**3.52**	**48.1**	**534**	**1840**	**0.575 J**	**3320**	**7680**	<0.0008	**0.00966**	**0.013**	**0.0108**	**0.00492**	**0.00301 J**	**0.215**	<0.0003 JH	**0.981 JL**	**0.00055**	<0.002	**0.0662**	**0.00224**	**0.693 ± 0.556**	**2.45 ± 0.507 J**	**3.14 ± 1.06**
Ash Ponds	AP-31	Downgradient	2/24/2020	N	**3.59**	**50.1**	**500**	**1880**	<0.5	**3030**	**8060**	<0.0008	**0.0123**	**0.012**	**0.00963**	**0.004**	<0.002	**0.223**	<0.0003	**0.831**	**0.000467**	<0.002	**0.0734**	**0.00222**	**0.517 ± 0.328**	**1.47 ± 0.438**	**1.99 ± 0.766**
Ash Ponds	AP-31	Downgradient	8/11/2020	N	**3.81**	**51**	**588**	**1850**	<0.5	**3150**	**7860**	<0.0008	**0.0128**	**0.0137**	**0.0109**	**0.00508**	**0.002 J**	**0.244**	<0.0003	**0.919**	**0.000554**	<0.002	**0.087**	**0.00254**	**0.26 ± 0.23**	**1.02 ± 0.623 JH**	**1.28 ± 0.853 JH**
Ash Ponds	AP-31	Downgradient	8/11/2020	Dup	**-**	**51.1**	**583**	**1880**	<0.5	**3220**	**7920**	<0.0008	**0.0122**	**0.0137**	**0.0105**	**0.00467**	**0.00218 J**	**0.242**	<0.0003	**0.892**	**0.000563**	<0.002	**0.0866**	**0.00252**	**0.697 ± 0.406**	**0.479 ± 0.598 JH**	**1.18 ± 1 JH**
Ash Ponds	AP-31	Downgradient	2/24/2021	N	**3.68**	**47.6**	**586**	**1950**	<0.5	**3050**	**8000**	<0.0008	**0.0133**	**0.0135**	**0.00975**	**0.00487**	<0.002	**0.232**	**0.000361 J**	**0.679**	**0.000479**	<0.002	**0.129**	**0.00236**	**1.09 ± 0.39 JH**	**0.852 ± 0.349 JH**	**1.94 ± 0.739 JH**
Ash Ponds	AP-31	Downgradient	8/18/2021	N	**3.68**	**55.8**	**708**	**1960**	**0.45 J**	**3300**	**7150**	<0.00589	<0.0055	**0.00948 JL**	**0.0129 JL**	**0.00581**	**0.0341**	**0.242**	<0.00237	**1.25**	**0.000464**	**0.0157**	<0.00439	<0.00621 JL	**22.4 ± 17.9**	**3.69 ± 7.08**	**26.09 ± 24.98**
Ash Ponds	AP-31	Downgradient	2/8/2022	N	**3.84**	**52.6**	**584 B**	**2080**	<1	**3210**	**10600**	<0.0589	**0.083 J**	<0.0135	**0.012 J**	<0.0243	<0.00811	**0.251**	<0.0237	**0.79**	**0.000234**	<0.0123	<0.0439	<0.0621	**0.56**	**1.29 ± 0.356 JH**	**1.85**
Ash Ponds	AP-31	Downgradient	9/28/2022	N	**4.03**	**56.2**	**602**	**2020**	<1	**2970 B**	**6670**	<0.15	<0.12	<0.07	<0.092	<0.065	<0.1	**0.277**	<0.081	**0.823**	**0.00169**	<0.13	**0.097 J**	<0.046	**0.34 JL**	**1.55 ± 0.409**	**1.89**
Ash Ponds	AP-31	Downgradient	2/21/2023	N	**4.02**	**70.1**	**655**	**2040**	**0.211 J**	**3110**	**8400**	<0.00484	**0.0123**	<0.0157	**0.0136**	**0.00496 J**	<0.00765	**0.271**	<0.00188	**0.789**	**0.000482**	<0.00305	**0.0257**	**0.00263 J**	**0.34 U**	**1.39 ± 0.541**	**1.39**
Ash Ponds	AP-31	Downgradient	9/6/2023	N	**3.57**	**68.7**	**714**	**1750**	<0.1	**2420**	**8280**	<0.00967	<0.141	<1.57	<0.0274	<0.109	<0.765	**0.277**	<0.188	**0.987**	**0.000432**	<0.305	<0.37	<0.236	**0.57**	**1.91**	**2.48**
Ash Ponds	AP-31	Downgradient	2/7/2024	N	**3.74**	**66.5**	**688**	**2420**	<20	**2970**	**8350**	<0.000967	**0.0239**	**0.0142**	**0.0162**	**0.00487**	**0.00183 J**	**0.291**	<0.000376	**0.812**	**0.000439**	<0.00061	**0.0275**	**0.0023**	<0.46	**1.28**	**1.28**
Ash Ponds	AP-31	Downgradient	8/14/2024	N	**3.75**	**67.8**	**687**	**2230**	<1	**2820**	**7960**	<0.0967	<0.0563	<0.314	<0.0274	<0.0217	<0.153	**0.284**	<0.0376	**0.928**	**0.000776**	<0.061	<0.153	<0.0472	<0.37	**1.38**	**1.38**
Ash Ponds	AP-32	Downgradient	5/25/2016	N	**3.45**	**15.4**	**679**	**3120**	**1.42**	**3570**	**10200**	<0.004	**0.0154 J**	**0.0255 J**	**0.0588**	**0.077**	<0.004	**0.558**	<0.006	**1.71**	**0.000933**	<0.006	**0.0271 J**	**0.00414 J**	**1.28 ± 0.4**	**7.2 ± 1.8**	**8.48**
Ash Ponds	AP-32	Downgradient	8/17/2016	N	**3.49**	**14**	**589**	**3160**	**2.06**	**3500**	**10300**	<0.002	**0.0136 J**	**0.0181 J**	**0.068**	**0.0788**	<0.002	**0.553**	<0.003	**1.87**	**0.0019**	<0.003	**0.0404**	**0.004 J**	**0.32 ± 0.14**	**7.9 ± 1.9**	**8.22**
Ash Ponds	AP-32	Downgradient	10/26/2016	N	**3.75**	**15.8**	**698**	**3020**	**1.62**	**3360**	**9780**	<0.0004	**0.0134**	**0.0187**	**0.0548**	**0.0636**	<0.004	**0.411**	**0.000774 J**	**1.81**	**0.00156**	<0.0006	**0.0322**	**0.00331**	**0.82 ± 0.3**	**7.7 ± 1.9**	**8.52**
Ash Ponds	AP-32	Downgradient	2/17/2017	N	**3.31**	**15**	**726**	**2880**	**1.24 J-**	**3180**	**10400**	<0.0008	**0.0375**	**0.0184 J**	**0.0434**	**0.0707**	**0.00453 J**	**0.508**	**0.000478 J**	**1.56**	**0.00186**	<0.002	**0.188 J+**	**0.0048**	**1.64 ± 0.485**	**7.94 ± 0.596**	**9.58**
Ash Ponds	AP-32	Downgradient	3/23/2017	N	**3.4**	**19.8**	**636**	**2880**	**1.36 J**	**3210**	**8840**	<0.0008	**0.029**	**0.0182**	**0.0538**	**0.0797**	**0.00211 J**	**0.552**	**0.000447 J**	**1.34 J-**	**0.0028**	<0.002	**0.213**	**0.00446**	**1.95 ± 0.393**	**7.45 ± 0.637**	**9.4**
Ash Ponds	AP-32	Downgradient	5/15/2017	N	**2.7**	**15.2 J**	**658**	**2910**	<0.1	**3230**	**9600**	<0.0008	**0.0267**	**0.0179**	**0.053**	**0.0761**	<0.002	**0.525**	**0.000454 J**	**1.56**	**0.00197**	<0.002	**0.177**	**0.00414**	**0.775 ± 0.335**	**7.60 ± 0.927 U**	**8.38**
Ash Ponds	AP-32	Downgradient	7/26/2017	N	**3.75**	**16 J**	**637**	**2880**	<0.5	**3790**	**9760**	<0.0008	**0.0441**	**0.0177**	**0.0403**	**0.0712**	<0.002	**0.532**	**0.000436 J**	**1.25**	**0.00206**	<0.002	**0.203**	**0.0047**	**2.04 ± 0.513**	**7.97 ± 0.605**	**10**
Ash Ponds	AP-32	Downgradient	8/23/2017	N	**3.48**	**14.8**	**656**	**2960**	<0.5	**3320**	**9780**	<0.0008	**0.064**	**0.0186**	**0.0567**	**0.0769**	<0.002	**0.62**	**0.000436 J**	**1.62**	**0.00197**	<0.002	**0.282**	**0.00411**	**1.28 ± 0.438**	**8.33 ± 0.564**	**9.61**
Ash Ponds	AP-32	Downgradient	3/19/2018	N	**3.54**	**14**	**682**	**2730**	<10	**3240**	**9780**	<0.01	**0.0379**	<0.02	**0.0564**	**0.0817**	**-**	**0.559**	<0.02	**1.57**	**0.00194 J-**	<0.025	**0.116**	<0.01	**1.29 ± 0.52**	**9.6 ± 2.4**	**10.89**
Ash Ponds	AP-32	Downgradient	6/5/2018	N	**3.38**	**14.9**	**670**	**2870**	**0.383**	**3350**	**9720**	<0.01	**0.0191**	<0.02	<0.1	**0.0862**	**-**	**0.573**	<0.01	**1.36**	**0.00181**	<0.025	**0.0746**	<0.01	**0.61 ± 0.34**	**9.2 ± 2.2**	**9.81**
Ash Ponds	AP-32	Downgradient	9/4/2018	N	**2.91**	**19.3 J**	**673**	**2760**	**1.48**	**3230**	**10200**	<0.01	**0.0215**	<0.02	<0.1 J	**0.0859 J**	<0.02	**0.595 J**	<0.01	**1.51**	**0.00222**	<0.025	**0.0613 J**	<0.01	**0.99 ± 0.47 U**	**11.3 ± 2.7**	**12.29**
Ash Ponds	AP-32	Downgradient	9/4/2018	Dup	**-**	**15.6 J**	**718**	**2760**	**1.48**	**3210**	**10400**	<0.01	**0.0212**	<0.02	<0.2 J	**0.0917 J**	<0.02	**0.589 J**	<0.01	**1.35**	**0.00206**	<0.025	**0.0629 J**	<0.01	**1.29 ± 0.52 U**	**9.5 ± 2.3**	**10.79**
Ash Ponds	AP-32	Downgradient	2/21/2019	N	**3.64**	**19.3**	**700**	**2750**	**1.67**	**3230**	**9680**	<0.00265 JH	**0.0243**	**0.0185 J**	**0.0505**	**0.0893**	<0.00126 JH	**0.614**	<0.0006 JH	**1.71**	**0.00148**	<0.00245	**0.0613**	**0.00421 J**	**1.84 ± 0.66 JH**	**8.8 ± 2.1**	**10.64 ± 2.76 JH**
Ash Ponds	AP-32	Downgradient	8/20/2019	N	**3.22**	**14.8**	**654**	**2970**	**1.41 J**	**3420**	**9900**	<0.0008	**0.0318**	**0.0177**	**0.0518**	**0.0714**	<0.002	**0.403**	<0.0003 JH	**1.66 JL**	**0.00115**	<0.002	**0.23**	**0.00383**	**1.28 ± 0.611 J**	**10.8 ± 0.585 J**	**12 ± 1.2**
Ash Ponds	AP-32	Downgradient	2/24/2020	N	**3.31**	**15**	**591**	**2930**	**0.528 J**	**3260**	**9180**	<0.0008	**0.0418**	**0.0178**	**0.0435**	**0.0568**	<0.002	**0.421**	**0.000358 J**	**1.5**	**0.00105**	<0.002	**0.267**	**0.00378**	**1.3 ± 0.439**	**9.21 ± 0.537**	**10.5 ± 0.976**
Ash Ponds	AP-32	Downgradient	8/12/2020	N	**2.52**	**20.3**	**675**	**3000**	<0.5	**3390**	**10600**	<0.0008	**0.0452**	**0.0189**	**0.0509**	**0.0759**	<0.002	**0.495**	<0.0003	**1.51**	**0.00159**	<0.002	**0.33**	**0.00439**	**1.59 ± 0.529**	**10.4 ± 0.732**	**12 ± 1.26**
Ash Ponds	AP-32	Downgradient	2/24/2021	N	**3.35**	**19.7**	**677**	**2930**	**1.37 J**	**3290**	**9740**	<0.0008	**0.0484**	**0.0183**	**0.0457**	**0.0729**	<0.002	**0.471**	**0.00052 J**	**1.21**	**0.00164**	<0.002	**0.487**	**0.00448**	**1.13 ± 0.376 JH**	**8.46 ± 0.446**	**9.59 ± 0.822 JH**
Ash Ponds	AP-32	Downgradient	8/18/2021	N	**3.35**	**19.5**	**860**	**2850**	**1.46**	**3530**	**9080**	<0.00589	**0.0296**	**0.0101 JL**	**0.0517 JL**	**0.0719**	**0.0133**	**0.512**	**0.0159 JL**	**1.75**	**0.00566**	**0.00707 J**	<0.00439	<0.00621 JL	**15.7 ± 11.1**	**19.7 ± 23.4**	**35.4 ± 34.5**
Ash Ponds	AP-32	Downgradient	2/8/2022	N	**3.55**	**22.1**	**644 B**	**2920**	**1.38 J**	**3520**	**7330**	<0.0589	**0.145**	<0.0135	**0.056**	**0.0809**	<0.00811	**0.591**	<0.0237	**1.62**	**0.00233**	<0.0123	<0.0439	<0.0621	**0.8**	**10.2 ± 1.2 JH**	**11**
Ash Ponds	AP-32	Downgradient	9/28/2022	N	**3.83**	**23.3**	**689**	**2760**	**1.43 J**	**3350 B**	**8200**	<0.06	<0.048	<0.028	**0.0566 J**	**0.101**	<0.04	**0.624**	<0.0324	**1.74**	**0.0039**	<0.052	**0.0662**	<0.0184	**1.91**	**10.7 ± 1.34**	**12.61**
Ash Ponds	AP-32	Downgradient	2/21/2023	N	**3.5**	**22.2**	**707**	**2620**	**1.18 J**	**3430**	**9500**	<0.00484	**0.0564**	**0.0177 J**	**0.0559**	**0.081**	<0.00765	**0.6**	<0.00188	**1.55**	**0.00179**	<0.00305	**0.018 J**	**0.00423 J**	**1.33**	**12 ± 1.57**	**13.33**
Ash Ponds	AP-32	Downgradient	9/6/2023	N	**3.44**	**25.2**	**703**	**2270**	**1.38 J**	**2900**	**9880**	<0.00967	**0.0825 J**	<0.314	**0.0570 J**	**0.0758 J**	<0.153	**0.627**	<0.0376	**1.75**	**0.00151**	<0.061	<0.0739	<0.0472	**2.37**	**9.59**	**11.96**
Ash Ponds	AP-32	Downgradient	2/7/2024	N	**3.44**	**24.7**	**715**	**3000**	<20	**3690**	**9830**	<0.000967	**0.1**	**0.0182**	**0.0664**	**0.0733**	<0.00153	**0.642**	<0.000376	**1.67**	**0.00188**	<0.00061	**0.0172**	**0.00422**	**2.17**	**7.87**	**10.01**
Ash Ponds	AP-32	Downgradient	8/14/2024	N	**3.52**	**26.1**	**717**	**2670**	<1	**3300**	**8620**	<0.0967	<0.0563	<0.314	**0.0655 J**	**0.0893 J**	<0.153	**0.633**	<0.0376	**1.76**	**0.00175**	<0.061	<0.153	<0.0472	**1.16**	**9.65**	**10.81**
Ash Ponds	AP-33	Downgradient	5/25/2016	N	**2.94**	**62.4**	**752**	**4390**	**7.36**	**3270**	**13400**	<0.004	**0.0274 J**	**0.0193 J**	**0.342**	**0.124**	<0.004	**1.17**	<0.006	**1.23**	**0.00343**	<0.006	**0.0499 J**	**0.0049 J**	**0.2 ± 0.12**	**6.2 ± 1.5**	**6.4**
Ash Ponds	AP-33	Downgradient	8/17/2016	N	**3.31**	**56.7**	**708**	**4820**	**7.3**	**3660**	**13400**	<0.002	**0.0269**	**0.019 J**	**0.372**	**0.12**	**0.00268 J**	**1.12**	<0.003	**1.36**	**0.00389**	<0.003	**0.0711**	**0.00467 J**	**0.79 ± 0.25**	**6.2 ± 1.5**	**6.99**
Ash Ponds	AP-33	Downgradient	10/26/2016	N	**3.58**	**53.5**	**820**	**4490**	**6.15**	**3380**	**12900**	<0.0004	**0.0267**	**0.0176**	**0.333**	**0.121**	<0.004	**0.933**	<0.0006	**1.39**	**0.0041**	<0.0006	**0.0664**	**0.00451**	**0.9 ± 0.32**	**6.1 ± 1.5**	**7**
Ash Ponds	AP-33	Downgradient	2/17/2017	N	**3.13**	**69.1**	**857**	**4170**	**3.16 J-**	**3020**	**13500**	<0.0008	**0.0655**	**0.0189 J**	**0.252**	**0.118**	<0.002	**1.03**	**0.00106**	**1.2**	**0.00382**	<0.002	**0.344 J+**	**0.00618**	**0.662 ± 0.307**	**6.20 ± 0.561**	**6.86**
Ash Ponds	AP-33	Downgradient	3/23/2017	N	**3.24**	**64.8**	**737**	**4300**	**5.56**	**3160**	**12000**	<0.0008	**0.0479**	**0.0177**	**0.282**	**0.121**	<0.002	**0.987**	**0.000331 J**	**1.03 J-**	**0.00345**	<0.002	**0.378**	**0.00527**	**1.97 ± 0.487**	**6.10 ± 0.613**	**8.07**
Ash Ponds	AP-33	Downgradient	5/12/2017	N	**3.4**	**71.4 J**	**793**	**4530**	<0.1	**3330**	**10500**	<0.0008	**0.0453**	**0.018**	**0.29**	**0.127**	<0.002	**1.01**	**0.000358 J**	**1.29**	**0.00424**	<0.002	**0.319**	**0.00525**	**0.617 ± 0.195**	**7.08 ± 1.07**	**7.7**
Ash Ponds	AP-33	Downgradient	7/26/2017	N	**3.58**	**65.5 J**	**736**	**4310**	**1.3 J**	**4150**	**11900**	<0.0008	**0.0768**	**0.03 J**	**0.222**	**0.116**	**0.00368 J**	**1.08**	**0.00307 J**	**0.932**	**0.00775**	<0.002	**0.367**	**0.00593**	**3.75 ± 0.687**	**8.61 ± 0.622**	**12.4**
Ash Ponds	AP-33	Downgradient	7/26/2017	Dup	**-**	**68.9 J**	**761**	**4400**	**1.26 J**	**4170**	**12600**	<0.0008	**0.0781**	**0.0404 J**	**0.232**	**0.119**	**0.00507**	**1.08**	**0.00512 J**	**0.961**	**0.00925**	<0.002	**0.366**	**0.00611**	**2.94 ± 0.801**	**9.34 ± 0.559**	**12.3**
Ash Ponds	AP-33	Downgradient	8/23/2017	N	**3.28**	**64.9**	**800**	**4310**	**1.12 J**	**3170**	**12500**	<0.0008	**0.12**	**0.0194**	**0.322**	**0.129**	<0.002	**1.35**	**0.000474 J**	**1.27**	**0.00425**	<0.002	**0.552**	**0.00544**	**1.42 ± 0.438**	**7.63 ± 0.562**	**9.05**
Ash Ponds	AP-33	Downgradient	3/19/2018	N	**3.02**	**56.1**	**839**	**4380**	<10	**3240**	**12900**	<0.01	**0.0707**	<0.02	**0.302**	**0.131**	**-**	**1.2**	<0.02	**1.09**	**0.00381 J-**	<0.025	**0.234**	<0.01	**0.93 ± 0.33**	**8.5 ± 2.1**	**9.43**
Ash Ponds	AP-33	Downgradient	6/6/2018	N	**3.07**	**59.2**	**770**	**4840**	**0.853**	**3520**	**13000**	<0.01	**0.0355**	**0.0212**	**0.311**	**0.141**	**-**	**1.31**	<0.01	**1.13**	**0.00398**	<0.025	**0.144**	<0.01	**1.17 ± 0.52**	**7.3 ± 1.8**	**8.47**
Ash Ponds	AP-33	Downgradient	9/4/2018	N	**2.72**	**55.3**	**812**	**4350**	**6.82**	**3160**	**12900**	<0.01	**0.0406**	<0.02	**0.309 J**	**0.139 J**	<0.02	**1.36 J**	<0.01	**1.19**	**0.00412**	<0.025	**0.112 J**	<0.01	**0.43 ± 0.28 U**	**8.2 ± 2**	**8.63**
Ash Ponds	AP-33	Downgradient	2/21/2019	N	**3.49**	**69.8**	**879**	**4340**	**6.61**	**3110**	**12500**	<0.00265 JH	**0.0433**	**0.0182 J**	**0.328**	**0.141**	**0.00226 JH**	**1.43**	**0.000692 JH**	**1.33**	**0.00266**	<0.00245	**0.109**	**0.00545 J**	**0.62 ± 0.39 JH**	**7.4 ± 1.8**	**8.02 ± 2.19 JH**
Ash Ponds	AP-33	Downgradient	8/20/2019	N	**3.02**	**65.2**	**786**	**4610**	**4.45**	**3370**	**12700**	<0.0008	**0.0552**	**0.0186**	**0.302**	**0.134**	<0.002	**1.04**	**0.000335 JH**	**1.27 JL**	**0.00407**	<0.002	**0.435**	**0.00538**	**1 ± 0.47 J**	**8.2 ± 0.521**	**9.2 ± 0.991**
Ash Ponds	AP-33	Downgradient	2/24/2020	N	**3.13**	**67.9**	**716**	**4430**	**3.56**	**3280**	**12200**	<0.0008	**0.0754**	**0.0202**	**0.253**	**0.111**	**0.00201 J**	**1.07**	**0.000793 J**	**1.15**	**0.00477**	<0.002	**0.506**	**0.0054**	**1.53 ± 0.45**	**7.69 ± 0.528**	**9.23 ± 0.978**
Ash Ponds	AP-33	Downgradient	8/11/2020	N	**3.39**	**69.2**	**762**	**4320**	<0.5	**3290**	**12200**	<0.0008	**0.0711**	**0.0186**	**0.246**	**0.121**	<0.002	**1.16**	**0.000392 J**	**1.18**	**0.0057**	<0.002	**0.527**	**0.00539**	**1.11 ± 0.483**	**7.73 ± 0.649**	**8.83 ± 1.13**
Ash Ponds	AP-33	Downgradient	2/24/2021	N	**3.19**	**61.2**	**782**	**4500**	**3.88**	**3300**	**12200**	<0.0008	**0.0751**	**0.0186**	**0.214**	**0.114**	<0.002	**1.05**	**0.000578 J**	**0.873**	**0.00466**	<0.002	**0.772**	**0.00569**	**0.843 ± 0.361 JH**	**5.86 ± 0.447 JH**	**6.7 ± 0.808 JH**
Ash Ponds	AP-33	Downgradient	8/18/2021	N	**3.2**	**70.5**	**922**	**4360**	**1.78**	**3450 B**	**11000**	<0.00589	**0.0325**	**0.00827 JL**	**0.197 JL**	**0.0951**	<0.000811	**1.14**	**0.0233 JL**	**1.18**	**0.00667**	**0.00762 J**	<0.00439	<0.00621 JL	**38.2 ± 17.7**	**18.7 ± 25.6**	**56.9 ± 43.3**
Ash Ponds	AP-33	Downgradient	2/8/2022	N	**3.42**	**56.2**	**688 B**	**8200**	**13.6**	**7010**	**8490**	<0.0589	<0.055	<0.0135	**0.25**	**0.109**	<0.00811	**1.32**	<0.0237	**1.19**	**0.00531**	<0.0123	<0.0439	<0.0621	**1.2**	**7.83 ± 0.977 JH**	**9.03**
Ash Ponds	AP-33	Downgradient	9/28/2022	N	**3.69**	**53.5**	**734**	**4220**	**6.55**	**3580**	**11200**	<0.15	<0.12	<0.07	**0.272**	**0.119 J**	<0.1	**1.43**	<0.081	**1.21**	**0.00644**	<0.13	<0.082	<0.046	**1.21**	**6.82 ± 0.968**	**8.03**
Ash Ponds	AP-33	Downgradient	2/21/2023	N	**3.34**	**62**	**844**	**4040**	**5.68**	**3440**	**11600**	<0.00484	**0.0937**	**0.0191 J**	**0.287**	**0.118**	**0.0088 J**	**1.51**	<0.00188	**1.18**	**0.00384**	<0.00305	**0.027**	**0.00564**	**1.04**	**7.96 ± 1.27**	**9**
Ash Ponds	AP-33	Downgradient	9/6/2023	N	**3.79**	**59.8**	**681**	**3430**	**5.09**	**2980**	**11900**	<0.00967	**0.1**	<0.157	**0.291**	**0.11**	<0.0765	**1.38**	<0.0188	**1.21**	**0.00395**	<0.0305	<0.037	<0.0236	**0.5**	**6.17**	**6.67**
Ash Ponds	AP-33	Downgradient	2/7/2024	N	**3.32**	**57**	**783**	**4130**	<20	**3300**	**12600**	<0.000967	**0.153**	**0.0184**	**0.262**	**0.0959**	<0.00153	**1.38**	<0.000376	**1.26**	**0.00411**	<0.00061	**0.0316**	**0.00503**	**1.98**	**5.31**	**7.29**
Ash Ponds	AP-33	Downgradient	8/14/2024	N	**3.38**	**59.9**	**771**	**4300**	<10	**3670**	**11300**	<0.0967	<0.0563	<0.314	**0.273**	**0.117**	<0.153	**1.36**	<0.0376	**1.27**	**0.00473**	<0.061	<0.153	<0.0472	**0.71**	**7.89**	**8.6**
Ash Ponds	AP-33	Downgradient	8/14/2024	Dup	**3.38**	**44**	**455**	**2100 JH**	<1	**3130**	**8600**	<0.0967	<0.0563	<0.314	<0.0274	<0.0217	<0.153	<0.0261	<0.0376	**0.939**	<0.00013	<0.061	<0.153	<0.0472	**-**	**2.2 JH**	**2.2 JH**
Ash Ponds	AP-34	Downgradient	5/25/2016	N	**3.05**	**28.3**	**634**	**2700**	**7.72**	**3410**	**10100**	<0.004	**0.0185 J**	**0.025 J**	**0.232**	**0.0554**	**0.014 J**	**0.996**	<0.006	**1.31**	**0.000081 J**	<0.006	**0.0241 J**	<0.002	**0.51 ± 0.21**	**2.1 ± 0.63**	**2.61**
Ash Ponds	AP-34	Downgradient	8/17/2016	N	**3.32**	**27**	**610**	**2920**	**7.26**	**3790**	**9860**	<0.002	**0.0157 J**	**0.0171 J**	**0.288**	**0.0466**	**0.00518 J**	**0.996**	<0.003	**1.4**	**0.00177**	<0.003	**0.0367**	**0.00148 J**	**0.34 ± 0.14**	**2.8 ± 0.76**	**3.14**
Ash Ponds	AP-34	Downgradient	10/25/2016	N	**2.99**	**23**	**628**	**2790**	**5.71**	**3540**	**9780**	<0.0004	**0.0145**	**0.0142**	**0.221**	**0.0433**	**0.00403 J**	**0.799**	<0.0006	**1.31**	**0.0016**	<0.0006	**0.0319**	**0.00157 J**	**0.5 ± 0.22**	**2.42 ± 0.75**	**2.92**

APPENDIX A
Cumulative Groundwater Analytical Results for CCR Monitoring Network Wells

San Miguel Electric Cooperative, Inc.
Christine, Atascosa County, Texas

					Appendix III Constituents							Appendix IV Constituents														
				Analyte:	pH (field)	Boron	Calcium	Chloride	Fluoride*	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium	Radium-226	Radium-228	Combined Radium
				Units:	SU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pCi/L	pCi/L	pCi/L
Area	Well ID	Well Type	Sample Date	Type																						
Ash Ponds	AP-34	Downgradient	2/17/2017	N	3.16	32.4	719	2540	2.81 J-	3170	11000	<0.0008	0.0371	0.0155 J	0.181	0.0444	0.00442 J	0.959	0.000722 J	1.29	0.000917	<0.002	0.184 J+	0.00236	0.350 ± 0.295	2.22 ± 0.694	2.57
Ash Ponds	AP-34	Downgradient	3/23/2017	N	3.25	31	727	3340	3.29	2470	10200	<0.0008	0.0132	0.0239	0.114	0.0356	<0.002	0.283	0.00845	0.934 J-	0.000677	<0.002	0.103	0.00533	3.43 ± 0.533	14.7 ± 0.658	18.1
Ash Ponds	AP-34	Downgradient	5/11/2017	N	3.43	32.1 J	649	2780	<0.1	3430	10100	<0.0008	0.0256	0.015	0.215	0.0433	0.00429 J	0.909	0.000838 J	1.38	0.00135	<0.002	0.172	0.00201	0.486 ± 0.208	3.05 ± 0.736	3.54
Ash Ponds	AP-34	Downgradient	7/26/2017	N	3.6	30.3 J	628	2760	1.21 J	4520	9160	<0.0008	0.044	0.0142	0.18	0.0404	0.00584	0.987	0.000421 J	0.98	0.00134	<0.002	0.207	0.00202	0.963 ± 0.402	2.71 ± 0.496 U	3.67
Ash Ponds	AP-34	Downgradient	8/24/2017	N	3.56	26.6	634	2720	0.789 J	3490	9460	<0.0008	0.062	0.0166	0.25	0.0451	0.00455 J	1.14	0.000348 J	1.22	0.00177	<0.002	0.282	0.00185	0.498 ± 0.279	3.23 ± 0.458	3.73
Ash Ponds	AP-34	Downgradient	8/24/2017	Dup	-	26.7	630	2730	0.88 J	3480	9660	<0.0008	0.0613	0.0164	0.24	0.0446	0.00451 J	1.13	0.000407 J	1.21	0.0018	<0.002	0.271	0.0018	0.680 ± 0.321	2.92 ± 0.552	3.6
Ash Ponds	AP-34	Downgradient	3/20/2018	N	3	25	704	2310	<10	3190	9840	<0.01	0.041	<0.02	0.252	0.0461	-	1.18	<0.02	1.19	0.00358 J-	<0.025	0.129	<0.01	0.24 ± 0.18 U	2.87 ± 0.86	2.87
Ash Ponds	AP-34	Downgradient	6/6/2018	N	3.19	27.7	608	2960	1.04	3990	9620	<0.01	0.0205	<0.02	0.242	0.0399	-	1.09	<0.01	1.13	0.00302 J-	<0.025	0.0715	<0.01	0.35 ± 0.25 U	3.23 ± 0.87	3.58
Ash Ponds	AP-34	Downgradient	9/4/2018	N	2.75	77.1	1690	2520	7.78	3330	10900	<0.02	0.0243	<0.04	0.281 J	0.0394 J	<0.04	1.14 J	<0.02	1.37	0.00217	<0.05	0.068 J	<0.02	1.99 ± 0.8	3.37 ± 0.91 U	5.36 U
Ash Ponds	AP-34	Downgradient	2/21/2019	N	3.43	33.1	816	2940	4.63	2710	9160	<0.00265 JH	0.0139	0.0188 J	0.149	0.0353	0.00333 JH	0.468	0.00892 J	1.23	0.00288	<0.00245	0.034	0.00468 J	1.02 ± 0.5 JH	6.1 ± 1.5	7.12 ± 2 JH
Ash Ponds	AP-34	Downgradient	8/20/2019	N	2.98	28.8	656	2910	5.5	3500	9780	<0.0008	0.0346	0.0143	0.266	0.0308	0.00392 J	0.908	0.000776 JH	1.32 JL	0.00186	<0.002	0.267	0.00198	0.493 ± 0.428 J	5.85 ± 0.457	6.34 ± 0.885
Ash Ponds	AP-34	Downgradient	2/26/2020	N	3.16	27.3	595	2870	4.59	3450	9820	<0.0008	0.0497	0.014	0.255	0.0247	0.00409 J	0.96	0.000424 J	1.2	0.00212	<0.002	0.344	0.00178	0.477 ± 0.306	3.74 ± 0.488	4.22 ± 0.794
Ash Ponds	AP-34	Downgradient	8/7/2020	N	2.48	23.6	732	3010	4.48	3540	9680	<0.0008	0.0504	0.0149	0.258	0.0269	0.00436 J	0.987	<0.0003	1.25	0.00206	<0.002	0.365	0.00191	0.552 ± 0.344	4.02 ± 0.703	4.58 ± 1.05
Ash Ponds	AP-34	Downgradient	2/25/2021	N	4.49	24.1	693	2950	4.58	3350	8980	<0.0008	0.0544	0.0139	0.218	0.0242	0.00418 J	0.963	<0.0003	0.988	0.00265	<0.002	0.583	0.00203	0.267 ± 0.23 JH	3.86 ± 0.43	4.12 ± 0.66 JH
Ash Ponds	AP-34	Downgradient	8/18/2021	N	3.15	18.4	848	2990	1.57	3470 B	9590	<0.00589	0.026	0.00839 JL	0.23 JL	0.0222	<0.000811	0.962	0.0166 JL	1.35	0.0106	0.0118	<0.00439	<0.00621 JL	27.8 ± 18.5	11.6 ± 33	39.4 ± 51.5
Ash Ponds	AP-34	Downgradient	2/8/2022	N	3.41	22.3	647 B	2930	8.7	3520	10200	0.102 J	<0.055	<0.0135	0.271	<0.0243	<0.00811	1.15	<0.0237	1.36	0.00319	<0.0123	<0.0439	<0.0621	0.76	3.88 ± 0.701 JH	4.64
Ash Ponds	AP-34	Downgradient	9/28/2022	N	3.69	21.1	709	2860	7.49	3400 B	8270	<0.06	0.0578	0.0286 J	0.29	0.0278 J	<0.04	1.26	<0.0324	1.26	0.00376	<0.052	0.0612	<0.0184	1.18	4.3 ± 0.798	5.48
Ash Ponds	AP-34	Downgradient	2/21/2023	N	3.65	24.1	706	2750	1.98	3520	9420	<0.00484	0.0611	<0.0157	0.27	0.0232	<0.00765	1.21	<0.00188	1.3	0.00221	<0.00305	0.0159 J	<0.00236	0.46	4.26 ± 0.902	4.72
Ash Ponds	AP-34	Downgradient	9/6/2023	N	3.63	23	703	2510	6.8	3000	10100	<0.00967	0.0773	<0.0314	0.289	0.022	<0.0153	1.23	<0.00376	1.43	0.00338	<0.0061	0.0178 J	<0.00472	<0.28	3.5	3.5
Ash Ponds	AP-34	Downgradient	2/7/2024	N	3.36	24.3	744	3210	<20	3610	11000	<0.000967	0.112	0.0142	0.271	0.0186	0.00428	1.28	<0.000376	1.48	0.00211	<0.00061	0.0204	0.00172	1.11 JH	2.1	3.21
Ash Ponds	AP-34	Downgradient	8/14/2024	N	3.19	24.6	735	2850	6.06 JL	3300	9800	<0.0967	0.0664 J	<0.314	0.28	0.0251 J	<0.153	1.23	<0.0376	1.51	0.00283	<0.061	<0.153	<0.0472	1	4.15	5.15
Ash Ponds	AP-35	Downgradient	5/25/2016	N	3.22	41.5	628	2050	1.31	2710	8040	<0.004	0.00784 J	<0.019	0.0678	0.0198 J	<0.004	0.135	<0.006	1	0.0035	<0.006	0.0201 J	0.00709 J	4.5 ± 1.2	25 ± 5.8	29.5
Ash Ponds	AP-35	Downgradient	8/17/2016	N	3.61	37.5	538	2300	2.08	2890	7960	<0.002	0.00247 J	0.0149 J	0.0674	0.0188	<0.002	0.136	0.00416 J	1.01	0.00544	<0.003	0.0222 J	0.00612 J	4.4 ± 1.2	27.1 ± 6.3	31.5
Ash Ponds	AP-35	Downgradient	10/25/2016	N	3.76	38.1	688	2120	1.85	2740	7680	<0.0004	0.00448 J	0.0139	0.0647	0.0179	<0.004	0.129	0.00411 J	0.99	0.00552	<0.0006	0.0157	0.00583	4.1 ± 1.1	26.5 ± 6.2	30.6
Ash Ponds	AP-35	Downgradient	2/17/2017	N	3.26	48.2	677	1880	1.12 J-	2320	7200	<0.0008	0.00979	0.0153 J	0.0536	0.0181	<0.002	0.146	0.00532	1.01	0.0061	<0.002	0.0508 J+	0.00803	4.34 ± 1.02	20.6 ± 0.906	24.9
Ash Ponds	AP-35	Downgradient	3/23/2017	N	3.42	45.6	581	2060	1.3	2610	6540	<0.0008	0.00713	0.0144	0.0594	0.0181	<0.002	0.136	0.00473	0.884 J-	0.00685	<0.002	0.0514	0.00692	4.93 ± 0.565	21.6 ± 0.728	26.5
Ash Ponds	AP-35	Downgradient	5/11/2017	N	3.6	46.5 J	619	2120	<0.1	2630	6940	<0.0008	0.00698	0.0154	0.0592	0.0193	<0.002	0.139	0.00478	1.05	0.00635	<0.002	0.0456	0.00689	5.11 ± 0.65	24.6 ± 1.05	29.7
Ash Ponds	AP-35	Downgradient	7/26/2017	N	3.83	44.6 J	589	2070	<0.2	3590	6830	<0.0008	0.0112	0.0153	0.0514	0.0179	<0.002	0.149	0.00527	0.801	0.00565	<0.002	0.0534	0.00787	4.60 ± 0.823	20.8 ± 0.768	25.4
Ash Ponds	AP-35	Downgradient	8/24/2017	N	3.78	41.4	609	2100	<0.2	2610	7600	<0.0008	0.0105	0.0167	0.0675	0.0206	<0.002	0.157	0.00503	0.995	0.00595	<0.002	0.0619	0.00736	4.61 ± 0.783	28.0 ± 0.868	32.6
Ash Ponds	AP-35	Downgradient	3/20/2018	N	3.36	41.1	645	2000	<5	2670	7460	<0.01	<0.01	<0.02	0.0665	0.0195	-	0.148	<0.02	0.896	0.00972 J-	<0.025	0.0325	<0.01	5.1 ± 1.4	31.2 ± 7.3	36.3
Ash Ponds	AP-35	Downgradient	6/6/2018	N	3.47	47.1	631	2280	1.26	2970	7300	<0.01	<0.01	<0.02	0.0737 J	0.0213 J	<0.02	0.148 J	<0.01	1.17	0.0083	<0.025	0.0203 J	<0.01	3.4 ± 1.1	30.1 ± 7	33.5
Ash Ponds	AP-35	Downgradient	9/5/2018	N	3.05	44.4	652	1940	1.5	2470	8540	<0.01	<0.01	<0.02	0.0737 J	0.0213 J	<0.02	0.148 J	<0.01	1.17	0.0083	<0.025	0.0203 J	<0.01	3.4 ± 1.1	30.1 ± 7	33.5
Ash Ponds	AP-35	Downgradient	2/21/2019	N	3.81	55.3	676	2050	1.56	2590	7540	<0.00265 JH	0.00673 J	0.0162 J	0.0679	0.0229	<0.00126 JH	0.163	0.00512 J	1.13	0.00552	<0.00245	0.0226	0.00761 J	4.5 ± 1.3	26.9 ± 6.3	31.4 ± 7.6
Ash Ponds	AP-35	Downgradient	6/28/2019	N	-	74.3	687	1990	1.58	2520	7250	<0.00053	0.00597	0.0165	0.0756	0.021	0.00065 J	0.171	0.0056	1.19 n	0.00249	<0.00049	0.0174	0.00788	6.1 ± 1.8	28 ± 6.5	34.1 ± 8.3
Ash Ponds	AP-35	Downgradient	8/20/2019	N	3.25	49.5	617	2310	1.4 J	2700	7720	<0.0008	0.00849	0.0165	0.0665	0.0212	<0.002	0.13	0.00483	1.11 JL	0.0062	<0.002	0.0621	0.00717	5.73 ± 1.08 J	29.1 ± 0.822	34.9 ± 1.9
Ash Ponds	AP-35	Downgradient	2/26/2020	N	3.41	50.8	586	2260	0.714 J	2590	7700	<0.0008	0.0113	0.0159	0.0629	0.0181	<0.002	0.138	0.00513	0.992	0.00565	<0.002	0.0706	0.00733	4.81 ± 0.788	30.1 ± 0.742	34.9 ± 1.53
Ash Ponds	AP-35	Downgradient	8/7/2020	N	2.72	7.24	692	2270	6.28	3480	8540	<0.0008	0.0157	0.0219	0.0925	0.00253	0.00652	0.204	0.00607	1.56	0.00402	<0.002	0.102	0.00729	6.35 ± 0.847	29.5 ± 1	35.8 ± 1.85
Ash Ponds	AP-35	Downgradient	2/25/2021	N	4.72	26.1	629	2200	3.82	2900	8300	<0.0008	0.0177	0.0218	0.147	0.00906	<0.002	0.13	0.00517	0.989	0.00149	<0.002	0.183	0.00666	6.4 ± 1.03	23.2 ± 0.641	29.6 ± 1.67
Ash Ponds	AP-35	Downgradient	2/25/2021	Dup	-	28.8	632	2220	4.33	2900	8300	<0.0008	0.017	0.0206	0.134	0.00938	<0.002	0.133	0.00486	0.996	0.000935	<0.002	0.189	0.00675	3.05 ± 0.694	23.3 ± 0.647	26.3 ± 1.34
Ash Ponds	AP-35	Downgradient	8/18/2021	N	2.56	55.5	810	2250	0.868	2670 B	6640	<0.00589	<0.0055	0.0115 JL	0.0673 JL	0.0218	0.0362	0.157	<0.00237	1.48	0.0192	0.0064 J	<0.00439	<0.00621 JL	32.9 ± 20.9	31.2 ± 29.5	64.1 ± 50.4
Ash Ponds	AP-35	Downgradient	2/8/2022	N	3.59	5.65	573 B	2400	13.3	3630	7540	<0.0589	0.124	<0.0135	0.317	<0.0243	0.0101 J	0.0681 J	<0.0237	1.61	0.00053	<0.0123	<0.0439	<0.0621	6.68	24.7 ± 2.52 JH	31.38
Ash Ponds	AP-35	Downgradient	9/28/2022	N	3.58	5.75	628	2230	12.1	3390	786	<0.03	0.0299	0.0274 J	0.367	<0.013	<0.02	0.0483 J	<0.0162	1.87	0.00163	<0.026	0.0258	<0.0092	5.58	18.9 ± 2.09	24.48
Ash Ponds	AP-35	Downgradient	2/21/2023	N	3.9	45.2	704	2120	1.11	2810	8010	<0.00484	0.0133	0.0182 J	0.0789	0.0225	<0.00765	0.162	0.00548	1.04	0.00113	<0.00305	0.00968 J	0.00732	3.18	24.6 ± 2.7	27.78
Ash Ponds	AP-35	Downgradient	9/6/2023	N	3.6	5.61	549	2190	11.6	3190	9300	<0.00967	0.0224	<0.0314	0.309	<0.00217	<0.0153	0.0388	<0.00376	1.63	0.00296	<0.0061	0.0128 J	<0.00472	3.22	18.3	21.52
Ash Ponds	AP-35	Downgradient	2/7/2024	N	3.67	5.5	610	2400	<10	3050	8400	<0.000967	0.0428	0.0214	0.319	<0.000217	0.00214	0.0305	0.00193	1.81	<0.00013	<0.00061	0.011	0.00389	7.95	15.3	23.25
Ash Ponds	AP-35	Downgradient	8/14/2024	N	3.72	6.4 J	677	2300	9.41 JL	3230	11300	<0.0967	<0.0563	<0.314	0.28	<0.0217	<0.153	0.036 J	<0.0376	1.84	0.000468 JH	<0.061	<0.153	<0.0472	3.55	15.3	18.85
Ash Ponds	AP-36	Downgradient	5/25/2016	N	4.32	4.38	697	2180	0.55 J	2610	7920	<0.004	0.00885 J	0.0389 J	0.02 J	<0.002	<0.004	0.072	<0.006	1.03	<0.00004	<0.006	<0.011	<0.002	1.11 ± 0.37	2.58 ± 0.72	3.69
Ash Ponds	AP-36	Downgradient	8/16/2016	N	4.43	3.68	613	2320	1.13	2770	9200	<0.002	0.00482 J	0.0268	0.022	<0.001	<0.002	0.067	<0.003	1.07	<0.00004	<0.003	0.0162 J	<0.001	1.24 ± 0.37	2.52 ± 0.72	3.76
Ash Ponds	AP-36	Downgradient	10/25/2016	N	4.22	2.26	725	2150	1.11	2550	7420	<0.0004	0.00755	0.022	0.022	<0.0002	<0.004	0.0622	<0.0006	0.997	<0.00004	<0.0006	0.00687	0.000903 J	0.71 ± 0.28	2.18 ± 0.72	2.89
Ash Ponds	AP-36	Downgradient	2/17/2017	N	3.63	2.45	734	1970	0.517 J-	2350	6600	<0.0008	0.0111	0.0222 J	0.0177	<0.0003	<0.002	0.0695	0.00039 J	0.984	<0.00008	<0.002	0.0274 J+	0.00114 J	0.647 ± 0.405	1.38 ± 0.564	2.03
Ash Ponds	AP-36	Downgradient	3/23/2017	N	3.84	2.25	626	2000	0.658 J	2490	6540	<0.0008	0.00902	0.0222	0.0179	<0.0003	<0.002	0.0675	0.000389 J	0.977 J-	<0.00008	<0.002	0.0298	0.000956 J	0.482 ± 0.188 U	2.29 ± 0.475 U	2.77
Ash Ponds	AP-36	Downgradient	5/11/2017	N	3.97	3.19 J	672	2040	<0.1	2490	6510	<0.0008	0.00829	0.0216	0.0192	<0.0003	<0.002	0.0674	0.000363 J	0.938	<0.00008	<0.002	0.0262	0.00104 J	0.432 ± 0.205 U	2.07 ± 0.663	2.5
Ash Ponds	AP-36	Downgradient	7/27/2017	N	3.95	2.44 J	676	1980	<0.2	2400	6420	<0.0008	0.011	0.021	0.0152	<0.0003	<0.002	0.0695	0.000401 J	0.804	<0.00008	<0.002	0.0282	0.00111 J	0.844 ± 0.324	4.02 ± 0.596 U	4.86
Ash Ponds	AP-36	Downgradient	8/24/2017	N	4.15	2.32	647	2020	<0.2	2530	7010	<0.0008	0.011	0.0231	0.0202	<0.0003	<0.002	0.0715	0.0004 J	0.997	<0.00008	<0.002	0.0356	0.00106 J	0.475 ± 0.261	4.73 ± 0.569	5.21
Ash Ponds	AP-36	Downgradient	3/20/2018	N	3.8	2.28	650	1800	<10	2510	7280	<0.01	<0.01	<0.02	<0.02	<0.01	-	0.0689	<0.02	0.983	<0.0002 J	<0.025	<0.01	<0.01	0.81 ± 0.33	3.41 ± 0.97	4.22
Ash Ponds	AP-36	Downgradient	6/6/2018	N	4.03	3.23	678	1970	0.681	2700	6780	<0.01	<0.01	0.0217	<0.1	<0.01	-	0.0665	<0.01	0.888	<0.0002 J	<0.025	0.0119	<0.01	0.44 ± 0.32 U	2.93 ± 0.81	2.93
Ash Ponds	AP-36	Downgradient	9/5/2018	N	3.53	4.05	661	1730	0.652	2420	7760	<0.01	<0.01	0.0247	0.0187 J	<0.01	<0.02	0.0663 J	<0.01	1.18	<0.0002	<0.025	<0.01	<0.01	0.4 ± 0.3 U	3.21 ± 0.86 U	3.61 U
Ash Ponds	AP-36	Downgradient	2/21/2019	N	4.21	4.1	665	1800	0.775 J	2620	7000	<0.00265 JH	0.00691 J	0.0195 J	0.016 J	0.000412 J	<0.00126 JH	0.0759	0.000611 JH	1.11	<0.00003	<0.00245	0.00713 J	<0.00125 JH	0.81 ± 0.42 JH	2.66 ± 0.74	3.47 ± 1.16 JH
Ash Ponds	AP-36	Downgradient	8/20/2019	N	3.77	2.45	614	1870	<0.5	2710	7360	<0.0008	0.00619	0.0194	0.013	0.000337 JH	0.00202 J	0.0576 JH	0.000484 JH	1 JL	<0.00008	<0.002	0.0231	0.00102 J	0.622 ± 0.427 J	4.49 ± 0.475	5.11 ± 0.902
Ash Ponds	AP-36	Downgradient	2/27/2020	N	3.6	2.41	553	1870	<0.5	2610	6840	<0.0008	0.00701	0.0194	0.0122	0.000313 J	<0.002	0.0593	0.000425 JH	0.953	<0.00008	<0.002	0.0277	0.000967 J	0.676 ± 0.324	2.82 ± 0.492	3.5 ± 0.816
Ash Ponds	AP-36	Downgradient	8/7/2020	N	3.31	2.47	689	1920	<0.5	2780	6890	<0.0008	0.00701	0.0208	0.014	0.000343 J	<0.002	0.0648	0.000396 J	0.951	<0.00008	<0.002	0.0329	0.00114 J	0.517 ± 0.29	2.64 ± 0.661	3.16 ± 0.951
Ash Ponds	AP-36	Downgradient	2/25/2021	N	5.2	2.38	629	1780	1.06 J	2640	6760	<0.0008	0.0069	0.0185	0.00818	0.000383 J	<0.002	0.0592	0.000386 J	0.744	<0.00008	<0.002	0.0444	0.000937 J	0.863 ± 0.371 JH	2.66 ± 0.443	3.53 ± 0.814 JH
Ash Ponds	AP-36	Downgradient	8/18/2021	N	3.27	2.27	782	1720	0.171 J	2730	6280	<0.00589	0.00725 J	0.0137 JL	0.0117 JL	<0.00243	0.0313	0.069	<0.00237	1.49	<0.0000263	0.00541 J	<0.00439	<0.00621 JL	-29.5 ± 17.7	34.7 ± 23.8	5.2 ± 41.5
Ash Ponds	AP-36	Downgradient	2/8/2022	N	4.28	2.21	591	1740	0.747	2890 B	8290	<0.0589	<0.055	<0.0135	0.0102 J	<0.0243	<0.00811	0.0536 J	<0.0237	1.04	<0.0000263	<0.0123	<0.0439	<0.0621	0.62	3.66 ± 0.57 JH	4.28
Ash Ponds	AP-36	Downgradient	9/28/2022	N	4.17	2.05	618	1610	<1	2840	6490	<0.015	<0.012	0.0196 J	0.0096 J	<0.0065	<0.01	0.0638	<0.0081	1.07	0.00294	<0.013	<0.0082	<0.0046	0.5 UJL	4.26 ± 0.692	4.76
Ash Ponds	AP-36	Downgradient	2/21/2023	N	4.5	2.23	656	1540	0.324 J	2910	6620	<0.00484	0.00585	0.019 J	0.00992	<0.00109	<0.00765	0.0647	<0.00188	0.953	<0.00013	<0.00305	<0.0037	<0.00236	0.46	5.03 ± 0.885	5.49
Ash Ponds	AP-36	Downgradient	9/6/2023	N	4.2	2.16	577	1400	0.634	2570	6780	<0.00967	0.00367 J	<0.0314	0.00749 J	<0.00217	<0.0153	0.0529	<0.00376	0.882	<0.00013	<0.0061	<0.00739	<0.00472	0.61	3.26	3.87
Ash Ponds	AP-36	Downgradient	2/7/2024	N	4.46	2.43	623	3590	<10	6160	6890	<0.000967	0.00955	0.0185	0.0101	0.000368 J	<0.00153	0.0618	<0.000376	0.935	<0.00013	<0.00061	0.00129 J	0.000838 J	1.77 JH	3.14	4.91
Ash Ponds	AP-36	Downgradient	8/14/2024	N	4.22	<6.01	616	1520	<1	2780	6540	<0.0967	<0.0563	<0.314	<0.0274	<0.0217	<0.153	0.0624	<0.0376	1.15	<0.00013	<0.061	<0.153	<0.0472	<0.18	4.63	4.63
Ash Ponds	MW-03	Downgradient	5/25/2016	N	3.18	15.6	535	2070	1.05	4260	9810	<0.004	0.00805 J	<0.019	0.0279	0.061	<0.004	0.328	<0.006	1.99	<0.00004	<0.006	0.0177 J	<0.002	0.56 ± 0.22	3.57 ± 0.94	4.13
Ash Ponds	MW-03	Downgradient	8/17/2016	N	3.56	13.9	478	2200	1.59	4560	9780	<0.002	0.00544 J	<0.0095	0.0343	0.0556	<0.002	0.325	<0.003	2.12	<0.00004	<0.003	0.0295	0.00178 J	0.41 ± 0.16	3.72 ± 0.99	4.13
Ash Ponds	MW-03	Downgradient	10/27/2016	N	3.66	17.8	563	1990	1.19	4270	9440	<0.004	0.00836 J	<0.019	0.0297	0.0625	<0.004	0.338	<0.006	2.13	<0.00004	<0.006	0.0278 J	<0.002	0.44 ± 0.19	3.7 ± 1	4.14
Ash Ponds	MW-03	Downgradient	2/16/2017	N	3.34	14.9	573	1980	0.54 J-	3990	9780	<0.0008	0.019	0.01 J	0.0211	0.0507	<0.002	0.321	<0.0003	1.87	<0.00008	<0.002	0.0928 J+	0.00229	0.263 ± 0.278 U	3.42 ± 0.508	3.68
Ash Ponds	MW-03	Downgradient	3/23/2017	N	3.45	15.5	488	1950	0.8 J	4110	9480	<0.0008	0.0142	0.00892 J	0.0226	0.052	<0.002	0.321	<0.0003	1.45 J-	<0.00008	<0.002	0.0991	0.00197	0.494 ± 0.394 U	2.45 ± 0.532 U	2.94
Ash Ponds	MW-03	Downgradient	5/15/2017	N	2.79	14.2 J	486	1880	<0.1	3990	9780	<0.0008	0.0138	0.00988 J	0.026	0.0558	<0.002	0.325	<0.0003	1.65	<0.00008	<0.002	0.0898	0.00204	0.241 ± 0.203 U	4.66 ± 0.877 U	4.9
Ash Ponds	MW-03	Downgradient	7/26/2017	N	3.82	16 J	515	1860	<0.1	4650	9200	<0.0008	0.0236	0.0101	0.0214	0.0529	<0.002	0.353	<0.0003	1.46	<0.00008	<0.002	0.102	0.00237	1.08 ± 0.391	3.89 ± 0.751 U	4.97
Ash Ponds	MW-03	Downgradient	8/23/2017	N	3.59	15.2	521	1870	<0.2	4100	9120	<0.0008	0.0318	0.0112	0.026 J	0.0629	<0.002	0.386	<0.0003	1.71	<0.00008	<0.002	0.133	0.00231	0.577 ± 0.277	4.68 ± 0.568	5.26

APPENDIX A
Cumulative Groundwater Analytical Results for CCR Monitoring Network Wells

San Miguel Electric Cooperative, Inc.
Christine, Atascosa County, Texas

					Appendix III Constituents							Appendix IV Constituents														
				Analyte:	pH (field)	Boron	Calcium	Chloride	Fluoride*	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium	Radium-226	Radium-228	Combined Radium
				Units:	SU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pCi/L	pCi/L	pCi/L
Area	Well ID	Well Type	Sample Date	Type																						
Ash Ponds	MW-03	Downgradient	3/19/2018	N	3.36	14.3	528	1720	<10	4010 J	9100	<0.01	0.0196	<0.02	0.0299	0.055	-	0.343	<0.02	1.6 J	<0.0002 J	<0.025	0.0409 J	<0.01	0.44 ± 0.27	5 ± 1.3	5.44
Ash Ponds	MW-03	Downgradient	3/19/2018	Dup	-	14.5	524	1530 J+	<10	3130 J	7780	<0.01	0.0226	<0.02	0.0337	0.0625	-	0.356	<0.01	2.08 J	0.000523 J-	<0.025	0.148 J	<0.01	0.62 ± 0.28	3.5 ± 1	4.12
Ash Ponds	MW-03	Downgradient	6/5/2018	N	3.46	17	528	1790	0.481	4180	9220	<0.01	0.0101 J	<0.02	0.0379	0.0633	-	0.37	<0.01	1.64	<0.0002	<0.025	0.0321	<0.01	0.76 ± 0.33	4.9 ± 1.2 J	5.66
Ash Ponds	MW-03	Downgradient	6/5/2018	Dup	-	15.3	489	1870	0.411	4310	9940	<0.01	<0.01 J	<0.02	<0.1	0.0541	-	0.332	<0.01	1.58	<0.0002 J	<0.025	0.0347	<0.01	0.44 ± 0.32	1.59 ± 0.53 J	2.03 J
Ash Ponds	MW-03	Downgradient	9/4/2018	N	2.99	13	518	1750	0.817	4150	9620	<0.01	0.0108	<0.02	0.0318 J	0.063 J	<0.02	0.355 J	<0.01	1.88	<0.0002	<0.025	0.0312 J	<0.01	0.54 ± 0.38 U	5 ± 1.3 U	5 U
Ash Ponds	MW-03	Downgradient	2/21/2019	N	3.67	17.4	575	1830	0.959 J	4100	9260	0.0037 JH	0.0124	0.0104 JH	0.023 J	0.0602	<0.00126 JH	0.371	<0.0006 JH	1.89	<0.00003	<0.00245	0.0336	0.00224 J	<0.32 ± 0.27 JH	4.8 ± 1.2	4.8 ± 1.47 JH
Ash Ponds	MW-03	Downgradient	8/20/2019	N	3.33	16.4	515	2010	0.951 J	4270	9540	<0.0008	0.0167	0.0108	0.0258	0.0549	<0.002	0.282	<0.0003 JH	1.74 JL	<0.00008	<0.002	0.118	0.00208	0.418 ± 0.386	6.01 ± 0.565 J	6.42 ± 0.951
Ash Ponds	MW-03	Downgradient	2/24/2020	N	3.41	16.1	467	1940	<0.5	4060	9080	<0.0008	0.0233	0.0107	0.024	0.0481	<0.002	0.315	<0.0003	1.59	<0.00008	<0.002	0.146	0.00204	0.434 ± 0.303	5.16 ± 0.46	5.6 ± 0.763
Ash Ponds	MW-03	Downgradient	8/12/2020	N	2.6	16.2	539	1890	<0.5	4140	9260	<0.0008	0.0236	0.0113	0.024	0.0526	<0.002	0.32	<0.0003	1.68	<0.00008	<0.002	0.158	0.00212	0.725 ± 0.383	5.84 ± 0.674 JH	6.56 ± 1.06 JH
Ash Ponds	MW-03	Downgradient	2/24/2021	N	3.49	12.8	555	1990	1.39 J	4170	9280	<0.0008	0.0246	0.012	0.0189	0.048	<0.002	0.294	0.000398 J	1.41	<0.00008	<0.002	0.23	0.00211	0.809 ± 0.356 JH	3.89 ± 0.389 JH	4.7 ± 0.745 JH
Ash Ponds	MW-03	Downgradient	8/18/2021	N	3.48	12.3	632	1860	<5	4040	7980	<0.00589	0.00985 J	0.00533 JL	0.0251 JL	0.0519	0.0195	0.326	<0.00237	2	0.000055 J	0.0047 J	<0.00439	<0.00621 JL	-27.7 ± 19.4	7.02 ± 20.6	-20.68 ± 40
Ash Ponds	MW-03	Downgradient	8/18/2021	Dup	-	11.8	709	2070	<5	4150	8610	<0.00589	0.0164	0.00691 JL	0.0239 JL	0.0505	0.021	0.316	<0.00237	2.23	0.000085 J	0.00448 J	<0.00439	<0.00621 JL	37.8 ± 18.7	7.57 ± 11.9	45.37 ± 30.6
Ash Ponds	MW-03	Downgradient	2/8/2022	N	3.69	10.9	508	1950	<1	4190 B	10500	<0.0589	<0.055	<0.0135	0.0208 J	0.0458 J	<0.00811	0.29	<0.0237	1.76	0.000034 J	<0.0123	<0.0439	<0.0621	0.77	5.53 ± 0.818 JH	6.3
Ash Ponds	MW-03	Downgradient	2/8/2022	Dup	-	12.3	497	1990	1.13 J	4390 B	10200	<0.0589	<0.055	<0.0135	0.024 J	0.0519	0.0412 J B	0.332	<0.0237	1.74	0.000035 J	<0.0123	<0.0439	<0.0621	1.19	4.22 ± 0.612 JH	5.41
Ash Ponds	MW-03	Downgradient	9/28/2022	N	3.95	12.2	543	1170 J	0.683	2690 J	8420	<0.03	<0.024	<0.014	0.0285 J	0.0631	<0.02	0.372	<0.0162	1.98	0.00144	<0.026	0.0183 J	<0.0092	0.62	4.12 ± 0.706	4.74
Ash Ponds	MW-03	Downgradient	9/28/2022	Dup	-	12.1	538	1800 J	0.735	4100 J	8500	<0.03	<0.024	0.0153 J	0.0245 J	0.0646	<0.02	0.365	<0.0162	1.98	0.00144	<0.026	0.0171 J	<0.0092	0.83	5.34 ± 0.834	6.17
Ash Ponds	MW-03	Downgradient	2/21/2023	N	3.65	61.3 J	604	1750	0.331 J	4410	8990	<0.00484	0.0286	<0.0157	0.0283	0.0602	<0.00765 J	0.4	<0.00188	1.87	<0.00013	<0.00305	0.0113 J	<0.00236	0.95 J	5.08 ± 0.883	6.03
Ash Ponds	MW-03	Downgradient	2/21/2023	Dup	-	14.2 J	552	1740	0.775 J	4380	8990	<0.00484	0.0256	<0.0157	0.0258	0.0555	0.0116 J	0.357	<0.00188	1.69	<0.00013	<0.00305	0.00969 J	<0.00236	0.54 J	4.68 ± 0.807	5.22
Ash Ponds	MW-03	Downgradient	9/6/2023	N	3.56	14.6	601	1560	0.797	3530	9090	<0.00967	0.0324 J	<0.157	0.0291 J	0.0537	<0.0765	0.388	<0.0188	1.94	<0.00013	<0.0305	<0.037	<0.0236	1.04	4.14	5.18
Ash Ponds	MW-03	Downgradient	9/6/2023	Dup	-	14.4	578	1520	1.32	3560	9400	<0.00967	0.0323 J	<0.157	0.0294 J	0.0657	<0.0765	0.41	<0.0188	1.83	<0.00013	<0.0305	<0.037	<0.0236	0.97	5	5.97
Ash Ponds	MW-03	Downgradient	2/7/2024	N	3.59	12.4	544	2060	<10	4310	9700	<0.000967	0.0456	0.0112	0.0267	0.045	0.0114	0.357	<0.000376	2	<0.00013	<0.00061	0.0101	0.00179	1.74 JH	3.4 JH	5.14
Ash Ponds	MW-03	Downgradient	2/7/2024	Dup	3.59	13.3	545	1990	<10	4120	9510	<0.000967	0.0464	0.0116	0.0294	0.0489	0.0091	0.375	<0.000376	1.92	<0.00013	<0.00061	0.0106	0.00186	1.42 JH	3.32	4.74
Ash Ponds	MW-03	Downgradient	8/14/2024	N	3.66	13.8	571	1790	<1	4010	9420	<0.0967	<0.0563	<0.314	0.0304 J	0.0594 J	<0.153	0.366	<0.0376	1.94	<0.00013	<0.061	<0.153	<0.0472	1.33	5.27	6.6
Ash Ponds	MW-03	Downgradient	8/14/2024	Dup	3.66	14.1	566	1750	<1	4030	9480	<0.0967	<0.0563	<0.314	0.0304 J	0.0728 J	<0.153	0.415	<0.0376	1.99	<0.00013	<0.061	<0.153	<0.0472	1.14	4.97	6.11
Ash Ponds	PZ-05	Downgradient	5/25/2016	N	3.29	46.5	663	2900	4.73	2870	9640	<0.004	0.0137 J	0.0219 J	0.282	0.0359	0.00489 J	0.569	<0.006	0.679	0.000086 J	<0.006	0.0259 J	0.00241 J	0.41 ± 0.18	3.24 ± 0.86	3.65
Ash Ponds	PZ-05	Downgradient	8/17/2016	N	3.51	42.8	651	3100	4.86	3020	11300	0.00878 J	0.0114 J	0.0193 J	0.321	0.0472	0.00393 J	0.686	<0.003	0.81	0.000198 J	<0.003	0.0351	0.00298 J	0.28 ± 0.14	3.16 ± 0.84	3.44
Ash Ponds	PZ-05	Downgradient	10/26/2016	N	3.63	41.2	724	3060	3.66	2950	9160	<0.0004	0.0125	0.0175	0.282	0.0394	<0.004	0.564	<0.0006	0.701	0.000153 J	<0.0006	0.0317	0.00251	0.73 ± 0.28	2.85 ± 0.84	3.58
Ash Ponds	PZ-05	Downgradient	2/17/2017	N	3.22	50.4	752	2770	3.4 J-	2660	9900	<0.0008	0.03	0.0169 J	0.279	0.0366	0.00304 J	0.713	0.000731 J	0.742 J	0.000146 J	<0.002	0.169 J+	0.00315	0.151 ± 0.241 U	3.67 ± 0.590	3.82
Ash Ponds	PZ-05	Downgradient	2/17/2017	Dup	-	51.9	768	2720	1.34 J-	2600	8780	<0.0008	0.0296	0.0172 J	0.215	0.0369	0.00289 J	0.619	0.000725 J	0.569 J	0.000142 J	<0.002	0.165 J+	0.00303	-0.048 ± 0.251 U	2.89 ± 0.552	2.89
Ash Ponds	PZ-05	Downgradient	3/23/2017	N	3.37	48.8	632	2790	3.24	2760	8600	<0.0008	0.0206	0.0157	0.223	0.0328	0.00281 J	0.564	0.000648 J	0.605 J-	0.000117 J	<0.002	0.166	0.00251	0.656 ± 0.318 U	3.67 ± 0.696 U	4.33
Ash Ponds	PZ-05	Downgradient	3/23/2017	Dup	-	49	637	2840	3.23	2800	9040	<0.0008	0.0204	0.016	0.228	0.0328	0.00278 J	0.566	0.00066 J	0.618 J-	0.000128 J	<0.002	0.169	0.00256	0.848 ± 0.343 U	4.11 ± 0.522 U	4.96
Ash Ponds	PZ-05	Downgradient	5/11/2017	N	3.5	50.5 J	699	2950	<0.1	2860	8220	<0.0008	0.0223	0.0164	0.251	0.0439	0.00307 J	0.65	0.000719 J	0.83	0.000268	<0.002	0.164	0.00274	0.203 ± 0.125 U	2.59 ± 0.730	2.79
Ash Ponds	PZ-05	Downgradient	7/26/2017	N	3.71	48.6 J	686	2920	<0.2	3720	8360	<0.0008	0.0358	0.0169	0.195	0.0372	0.00292 J	0.62	0.00102	0.578	0.000179 J	<0.002	0.181	0.00302	0.606 ± 0.290	2.88 ± 0.492 U	3.49
Ash Ponds	PZ-05	Downgradient	8/23/2017	N	3.42	43.3	685	2970	<0.2	2910	9080	<0.0008	0.0516	0.0185	0.267	0.0505	0.00318 J	0.766	0.000929 J	0.751	0.000273	<0.002	0.26	0.0029	0.217 ± 0.201	3.80 ± 0.609	4.02
Ash Ponds	PZ-05	Downgradient	3/20/2018	N	3.1	45	718	2710	<10	2880	9760	<0.01	0.0332	<0.02	0.232	0.0458	-	0.659	<0.02	0.724	0.000249 J-	<0.025	0.111	<0.01	0.28 ± 0.2 U	3.3 ± 0.94	3.3
Ash Ponds	PZ-05	Downgradient	6/6/2018	N	3.25	41.7	695	2910	0.891	2980	9620	<0.01	0.0197	<0.02	0.246	0.0496	-	0.718	<0.01	0.708	0.000287 J-	<0.025	0.0722	<0.01	0.44 ± 0.26 U	3.14 ± 0.85	3.58
Ash Ponds	PZ-05	Downgradient	9/4/2018	N	2.86	37.1	682	2680	3.56	2760	9980	<0.01	0.0202	<0.02	0.26 J	0.0462 J	<0.02	0.705 J	<0.01	0.82	0.00033	<0.025	0.0622 J	<0.01	0.24 ± 0.2 U	3.69 ± 0.98 U	3.69 U
Ash Ponds	PZ-05	Downgradient	2/21/2019	N	3.45	52.5	768	2710	3.74	2840	8880	<0.00265 JH	0.0225	0.0159 J	0.272	0.0478	0.00359 JH	0.717	0.000656 JH	0.876	0.000148 J	<0.00245	0.063	0.00289 J	0.43 ± 0.29 JH	3.42 ± 0.9	3.85 ± 1.19 JH
Ash Ponds	PZ-05	Downgradient	8/20/2019	N	3.13	33.8	636	2730	3.53	3030	9020	<0.0008	0.0317	0.0148	0.252	0.0645	0.00338 J	0.763	<0.0003 JH	0.945 JL	0.000681	<0.002	0.279	0.0025	0.488 ± 0.331 J	3.56 ± 0.48	4.04 ± 0.811
Ash Ponds	PZ-05	Downgradient	2/26/2020	N	3.29	30.6	578	2610	2.12	2930	8680	<0.0008	0.0406	0.0142	0.196	0.0567	0.00266 J	0.746	<0.0003	0.879	0.000321	<0.002	0.313	0.00253	0.268 ± 0.244	3.41 ± 0.458	3.68 ± 0.702
Ash Ponds	PZ-05	Downgradient	8/11/2020	N	3.59	27.4	664	2480	1.26 J	2950	8600	<0.0008	0.0409	0.0146	0.191	0.0715	0.00288 J	0.811	<0.0003	0.959	0.000746	<0.002	0.351	0.00271	1.06 ± 0.407	2.73 ± 0.706 JH	3.78 ± 1.11 JH
Ash Ponds	PZ-05	Downgradient	2/24/2021	N	3.32	26.4	651	2480	1.09 J	2930	8360	<0.0008	0.0438	0.0173	0.159	0.0659	0.00302 J	0.782	0.000747 J	0.756	0.000745	<0.002	0.519	0.0027	0.548 ± 0.289 JH	2.94 ± 0.385 JH	3.48 ± 0.674 JH
Ash Ponds	PZ-05	Downgradient	8/18/2021	N	3.31	33.9	733	2700	7.45 J	41200	7140	<0.00589	0.0236	0.0102 JL	0.188 JL	0.0518	0.00793 J	0.737	0.013 JL	1.03	0.00121	0.00519 J	<0.00439	<0.00621 JL	82.9 ± 22.4	42.8 ± 18.8	125.7 ± 41.2
Ash Ponds	PZ-05	Downgradient	2/8/2022	N	3.56	24.2	601	2510	4.62 J	3230 B	8200	<0.0589	<0.055	<0.0135	0.184	0.0716	0.0113 J B	0.882	<0.0237	1.01	0.000472	<0.0123	0.125 J	<0.0621	0.73	2.71 ± 0.494 JH	3.44
Ash Ponds	PZ-05	Downgradient	9/28/2022	N	3.83	27.7	644	2430	2.44	3070	8400	<0.06	<0.048	<0.028	0.235	0.0786 J	<0.04	0.965	<0.0324	0.989	<0.00015	<0.052	0.0572	<0.0184	0.48	4.09 ± 0.696	4.57
Ash Ponds	PZ-05	Downgradient	2/21/2023	N	3.62	28.9	677	2280	1.24	3260	8280	<0.00484	0.052	<0.0157	0.223	0.0727	<0.00765	1.01	<0.00188	0.966	0.00029	<0.00305	0.0152 J	0.00244 J	0.62	3.12 ± 0.664	3.74
Ash Ponds	PZ-05	Downgradient	9/6/2023	N	3.87	<6.01	<12.7	1820	3.84	2540	8750	<0.00967	<0.0282	<0.314	<0.0274	<0.0217	<0.153	<0.0261	<0.0376	<0.129	0.000199 J	<0.061	<0.0739	<0.0472	1.38	3.42	4.8
Ash Ponds	PZ-05	Downgradient	2/7/2024	N	3.54	32.3	710	2540	<20	3230	8660	<0.000967	0.0911	0.0135	0.217	0.0536	0.00227	0.994	<0.000376	0.884	0.000197 J	<0.00061	0.0175	0.00228	1.89	2.67	4.56
Ash Ponds	PZ-05	Downgradient	8/14/2024	N	3.34	27.4	670	2160	1.63 JL	3000	8510	<0.0967	<0.0563	<0.314	0.177	0.0733 J	<0.153	0.955	<0.0376	1.12	0.000171 JH	<0.061	<0.153	<0.0472	0.87	3.46	4.33
Ash Ponds	PZ-06	Downgradient	5/25/2016	N	5.65	5.94	598	1600	<0.5	3230	7560	<0.004	0.00418 J	<0.019	<0.002	<0.002	<0.004	<0.002	<0.006	0.932	<0.00004	<0.006	<0.011	<0.002	0.47 ± 0.2	3.04 ± 0.81	3.51
Ash Ponds	PZ-06	Downgradient	8/16/2016	N	5.95	3.86	557	1610	0.669 J	3130	9020	0.00208 J	<0.002	0.019 J	0.00391 J	<0.001	<0.002	0.00341 J	<0.003	0.961	<0.00004	<0.003	0.00667 J	<0.001	0.34 ± 0.15	2.19 ± 0.63	2.53
Ash Ponds	PZ-06	Downgradient	10/25/2016	N	5.98	3.13	653	1540	0.726 J	3030	7560	<0.0004	0.000719 J	0.0184	0.00266 J	<0.0002	<0.004	0.00211 J	<0.0006	0.911	<0.00004	<0.0006	0.00111 J	<0.0002	0.87 ± 0.31	1.94 ± 0.72	2.81
Ash Ponds	PZ-06	Downgradient	2/17/2017	N	5.36	3.44	674	1420	<0.2 J	2760	6450	<0.0008	<0.002	0.0187 J	0.00215	<0.0003	<0.002	<0.003	<0.0003	0.919	<0.00008	<0.002	<0.002 J	<0.0005	0.096 ± 0.263 U	-1.05 ± 1.19 U	0.096 U
Ash Ponds	PZ-06	Downgradient	3/21/2017	N	5.45	3.56 J	538	1480	0.316 J	3180 J-	6120	<0.0008	<0.002	0.0194	0.00135 J	<0.0003	<0.002	<0.003	<0.0003	0.714	<0.00008	<0.002	<0.002 J	<0.0005	0.297 ± 0.387 U	1.87 ± 0.484	2.17
Ash Ponds	PZ-06	Downgradient	5/11/2017	N	5.71	5.5 J	592	1460	<0.1	2970	6500	<0.0008	<0.002	0.0173	0.00241	<0.0003	<0.002	<0.003	<0.0003	0.923	<0.00008	<0.002	<0.002	<0.0005	0.520 ± 0.226	0.429 ± 0.689 U	0.949 U
Ash Ponds	PZ-06	Downgradient	5/11/2017	Dup	-	5.17 J	588	1550	<0.1	3090	6440	<0.0008	<0.002	0.0181	0.00268	<0.0003	<0.002	<0.003	<0.0003	0.985	<0.00008	<0.002	<0.002	<0.0005	0.451 ± 0.258 U	2.29 ± 0.550 J	2.74 J
Ash Ponds	PZ-06	Downgradient	7/27/2017	N	5.75	3.34 J	610	1550	<0.2	3030	7360	<0.0008	<0.002	0.0183	0.0022	<0.0003	<0.002	<0.003	<0.0003	0.749	<0.00008	<0.002	<0.002	<0.0005	0.351 ± 0.213	2.06 ± 0.506 U	2.41
Ash Ponds	PZ-06	Downgradient	8/24/2017	N	5.87	2.93	582	1550	<0.2	3160	6780	<0.0008	<0.002	0.0197	0.00207	<0.0003	<0.002	<0.003	<0.0003	0.905	<0.00008	<0.002	<0.002	<0.0005	0.613 ± 0.318	2.21 ± 0.673 U	2.82
Ash Ponds	PZ-06	Downgradient	3/20/2018	N	5.92	2.93	578	1340	<10	2890	7260	<0.01	<0.01	<0.02	<0.02	<0.01	-	<0.025	<0.02	0.921	<0.0002 J	<0.025	<0.01	<0.01	0.47 ± 0.21	1.93 ± 0.68	2.4
Ash Ponds	PZ-06	Downgradient	6/6/2018	N	5.8	3.38	569	1620	0.468	3390	6820	<0.01	<0.01	<0.02	<0.1	<0.01	-	<0.025	<0.01	0.842	<0.0002 J	<0.025	<0.01	<0.01	0.23 ± 0.15 U	1.89 ± 0.58	1.89
Ash Ponds	PZ-06	Downgradient	9/5/2018	N	5.59	4.17	637	1370	<0.5	2850	7700	<0.01	<0.01	<0.02	<0.01	<0.01	<0.02	<0.025	<0.01	1.07	<0.0002	<0.025	<0.01	<0.01	0.25 ± 0.21 U	1.88 ± 0.58 U	2.12 U
Ash Ponds	PZ-06	Downgradient	2/21/2019	N	6.05	4.51	649	1420	0.523 J	2860	7240	<0.00265 JH	<0.00125	0.0186 J	0.00218 J	<0.000385	0.00136 JH	0.00284 J	<0.0006 JH	1.08	<0.00003	<0.00245	<0.0043	<0.00125 JH	0.41 ± 0.31 JH	2.01 ± 0.62	2.42 ± 0.93 JH
Ash Ponds	PZ-06	Downgradient	8/19/2019	N	5.74	3	610	1680	<0.5	3070	7140	<0.0008	<0.002	0.0212	0.00289	0.000565 J	<0.002	0.00502 JH	0.000426 JH	1.01 JL	<0.00008	<0.002	<0.002	<0.0005	0.726 ± 0.391 J	2.41 ± 0.49 J	3.14 ± 0.881
Ash Ponds	PZ-06	Downgradient	2/27/2020	N	5.22	3.18	541	1740	<0.5	2800	7040	<0.0008	<0.002	0.0207	0.00586	<0.0003	<0.002	0.00622	<0.0003 JH	1.02	<0.00008	<0.002	<0.002	<0.0005	0.302 ± 0.218	1.31 ± 0.42	1.61 ± 0.638
Ash Ponds	PZ-06	Downgradient	8/7/2020	N	5.22	3.01	655	1780	<0.5	3040	7040	<0.0008	<0.002	0.0197	0.00363	<0.0003	0.00261 J	0.00322 J	<0.0003	0.968	<0.00008	<0.002	<0.002	<0.0005	0.791 ± 0.329	2.81 ± 0.708	3.6 ± 1.04
Ash Ponds	PZ-06	Downgradient	2/25/2021	N	6.71	2.79	648	1720	1.07 J	2840	7090	<0.0008	<0.002	0.0208	0.00181	<0.0003	<0.002	<0.003	0.000303 J	0.771	<0.00008	<0.002	<0.002	<0.0005	0.328 ± 0.25 JH	2.22 ± 0.384	2.55 ± 0.634 JH
Ash Ponds	PZ-06	Downgradient	8/18/2021	N	5.39	2.66	773	1810	<5	3170	6550	<0.00589	<0.0055	0.0168 JL	0.00331 JL	<0.00243	0.0456	0.00713 J	<0.00237 JL	1.48	<0.0000263	0.00417 JH	<0.00439	<0.00621 JL	25.5 ± 18.7	14.2 ± 22.7	39.7 ± 41.4
Ash Ponds	PZ-06	Downgradient	2/8/2022	N	5.2	2.67	638	1960	<1	3130 B	8800	<0.0589	0.057 J	<0.0135	<0.0049	<0.0243	<0.00811	<0.00673	<0.0237	0.953	<0.0000263	<0.0123	<0.0439	<0.0621	0.57	2.1 ± 0.421 JH	2.67
Ash Ponds	PZ-06	Downgradient	9/28/2022	N	5.9	2.5	700	1910	0.357 J	2940	6940	<0.015	<0.012	0.0318	<0.0092	<0.0065	<0.01	<0.0056	<0.0081	1.19	<0.00015	<0.013	<0.0082	<0.0046	0.51	3.18 ± 0.591	3.69
Ash Ponds	PZ-06	Downgradient	2/21/2023	N	6.09	4.26	707	1910	0.1 J	3070	8440	<0.00484	<0.00141	0.0223 J	<0.00137	<0.00109	<0.00765	<0.00131	<0.00188	1.06	<0.00013	<0.00305	<0.0037	<0.00236	0.37	1.94 ± 0.549	2.31
Ash Ponds	PZ-06	Downgradient	9/6/2023	N	5.87	<3.01	740	1710	<0.1	2410	8100	<0.00967	<0.0141	<0.157	<0.0137	<0.0109	<0.0765	<0.0131	<0.0188	1.19	<0.00013	<0.0305	<0.037	<0.0236	<0.23	2.58	2.58
Ash Ponds	PZ-06	Downgradient	2/7/2024	N	6.11	3.19	752	2120	<20	2600	8040	<0.00967	0.000384 J	0.0233	0.00325	<0.000217	<0.00153	0.00323	<0.000376	1.28	<0.00013	<0.00061	<0.000739	<0.000472	1.8	1.72	3.52
Ash Ponds	PZ-06	Downgradient	8/14/2024	N	5.9	<6.01	703	2090	<1	2740	7970	<0.0967	<0.0563	<0.314	<0.0274	<0.0217	<0.153	<0.0261	<0.0376	1.27	<0.00013	<0.061	<0.153	<0.0472	0.24	2.88	3.12
East Equalization Pond	EP-31	Upgradient	5/26/2016	N	3.56	4.14	438	156	2.65	3260	5820	<0.0004	0.00758	0.0139	0.0737	0.0181	0.0016 J	0.123	<0.0006	0.616	<0.00004	<0.0006	0.00934	0.00112 J	0.41 ± 0.17	1.38 ± 0.46	1.79
East Equalization Pond	EP-31	Upgradient	8/17/2016	N	3.8	4.49	410	139	2.04	3430	7060	<0.0004	0.00918	0.00734	0.128	0.016	0.000816 J	0.107	0.000608 J	0.95	<0.00004	<0.0006	0.00903	0.00116 J	0.31 ± 0.2	1.28 ± 0.56	1.59
East Equalization Pond	EP-31	Upgradient	10/25/2016	N	3.49	3.88	462	243	3.03	3180	5600	<0.0004	0.0103	0.0068	0.0818	0.0291	0.000872 J	0.146	0.000991 J	0.693	<0.00004	<0.0006	0.0148	0.00107 J	ND ± 0.13	0.76 ± 0.34	0.76
East Equalization Pond	EP-31	Upgradient	2/13/2017	N	3.43	4.15 J	406	113	1.87	3100	4420	<0.0008	0.0115	0.00647 J	0.0699	0.0145	<0.002	0.111	0.000439 J	0.571	<0.00008	<0.002	0.0571	0.00126 J	0.253 ± 0.375	-0.188 ± 0.474 U	0.253 U

GSI ENVIRONMENTAL

APPENDIX A
Cumulative Groundwater Analytical Results for CCR Monitoring Network Wells

San Miguel Electric Cooperative, Inc.
Christine, Atascosa County, Texas

					Appendix III Constituents							Appendix IV Constituents															
				Analyte:	pH (field)	Boron	Calcium	Chloride	Fluoride*	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium	Radium-226	Radium-228	Combined Radium
				Units:	SU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pCi/L	pCi/L	pCi/L
Area	Well ID	Well Type	Sample Date	Type																							
East Equalization Pond	EP-31	Upgradient	3/21/2017	N	**3.5**	**4.39 J**	**394**	**115**	**1.73**	**3660 J-**	**4360**	<0.0008	**0.015**	**0.00596 J**	**0.0571 J**	**0.0147**	<0.002	**0.106**	**0.000313 J**	**0.481**	<0.00008	<0.002	**0.0463 J**	**0.00134 J**	**0.521 ± 0.202 U**	**0.929 ± 0.517**	**1.45**
East Equalization Pond	EP-31	Upgradient	5/9/2017	N	**3.8**	**4.34 J**	**426**	**107**	<0.1	**2950**	**4930**	<0.0008	**0.0114**	**0.00493 J**	**0.0738**	**0.0152**	<0.002	**0.107**	<0.0003	**0.572**	<0.00008	<0.002	**0.0448**	**0.00125 J**	**0.184 ± 0.169**	**0.907 ± 0.515**	**1.09**
East Equalization Pond	EP-31	Upgradient	7/26/2017	N	**4.09**	**4.26 J**	**425**	**115**	**1.4 J**	**3420**	**4640**	<0.0008	**0.0163**	**0.00494 J**	**0.0611**	**0.0143**	<0.002	**0.109**	<0.0003	**0.499**	<0.00008	<0.002	**0.0583**	**0.00138 J**	**0.160 ± 0.250 U**	**0.837 ± 0.463 U**	**1 U**
East Equalization Pond	EP-31	Upgradient	7/26/2017	Dup	**-**	**4.53 J**	**425**	**124**	**1.42 J**	**3590**	**4580**	<0.0008	**0.0162**	**0.00493 J**	**0.0625**	**0.0141**	<0.002	**0.11**	<0.0003	**0.505**	<0.00008	<0.002	**0.0569**	**0.0014 J**	**0.188 ± 0.195 U**	**1.25 ± 0.488 U**	**1.44 U**
East Equalization Pond	EP-31	Upgradient	8/22/2017	N	**3.71**	**4.12 J**	**437**	**122**	**0.549 J**	**3220**	**4980**	<0.0008	**0.0155**	**0.00511 J**	**0.0596 J**	**0.0144**	<0.002	**0.102**	<0.0003	**0.464**	<0.00008	<0.002	**0.0462 J**	**0.00127 J**	**0.054 ± 0.139**	**0.817 ± 0.450**	**0.871**
East Equalization Pond	EP-31	Upgradient	3/21/2018	N	**3.58**	**4.15**	**451**	**108 J+**	<5	**3160**	**4770**	<0.01	**0.0191**	<0.02	**0.0766**	**0.0156**	**-**	**0.112**	<0.01	**0.624**	<0.0002 J	<0.025	**0.0794**	<0.01	**0.23 ± 0.17 U**	**1.04 ± 0.48 U**	**ND**
East Equalization Pond	EP-31	Upgradient	3/21/2018	Dup	**-**	**4.3**	**428**	**104 J+**	<5	**3050**	**4830**	<0.01	**0.0166**	<0.02	**0.0735**	**0.015**	**-**	**0.112**	<0.01	**0.587**	<0.0002 J	<0.025	**0.0699**	<0.01	**0.28 ± 0.19**	**0.92 ± 0.45 U**	**0.28**
East Equalization Pond	EP-31	Upgradient	6/7/2018	N	**3.75**	**4.25**	**439**	**172**	**1.6**	**3520**	**4990**	<0.01	<0.01	<0.02	<0.1	**0.0162**	**-**	**0.1**	<0.01	**0.517**	<0.0002 J	<0.025	**0.0183**	<0.01	**0.24 ± 0.19 U**	**0.94 ± 0.4**	**0.94**
East Equalization Pond	EP-31	Upgradient	9/6/2018	N	**3.27**	**4.46**	**411**	**146**	**1.79**	**3110**	**4920**	<0.002	**0.0118**	**0.00488**	<0.1	**0.0156 J**	<0.004	**0.101 J**	<0.002	**0.56**	<0.0002 J	<0.005	**0.0176 J**	<0.002	**0.39 ± 0.23 U**	**0.95 ± 0.44 U**	**ND**
East Equalization Pond	EP-31	Upgradient	2/19/2019	N	**4.17**	**5.34**	**427**	**258**	**2.22**	**3360**	**4960**	<0.00265 JL	**0.0187**	**0.00705 J**	**0.0886**	**0.0258**	<0.00126 JH	**0.142**	**0.00161 J**	**0.827**	**0.000039 J**	<0.00245	**0.0196**	**0.00175 J**	**0.4 ± 0.28 J**	<0.54 ± 0.35	**0.4 ± 0.63 J**
East Equalization Pond	EP-31	Upgradient	8/20/2019	N	**3.52**	**5.2**	**417**	**352**	**2.09**	**3340**	**5180**	<0.0008	**0.0195**	**0.00634 J**	**0.0804**	**0.0245**	<0.002	**0.122**	**0.000775 JH**	**0.833 JL**	**0.0000883 J**	<0.002	**0.0838**	**0.00172**	**0.0362 ± 0.159**	**1.25 ± 0.415 JH**	**1.29 ± 0.574 JH**
East Equalization Pond	EP-31	Upgradient	1/21/2020	N	**-**	**5.46**	**432**	**266**	**0.74**	**3180**	**6100**	<0.0008	**0.0352**	**0.0107**	**0.0677**	**0.0215**	<0.002	**0.133**	**0.00157**	**0.633**	<0.00008	<0.002	**0.183**	**0.0017**	**0.261 ± 0.283**	**1.12 ± 0.437**	**1.38 ± 0.72**
East Equalization Pond	EP-31	Upgradient	2/26/2020	N	**3.45**	**5.13**	**419**	**206**	**1.11 J**	**3110**	**5140**	<0.0008	**0.0191**	**0.0076 J**	**0.071**	**0.0149**	<0.002	**0.101**	**0.000775 J**	**0.674**	<0.00008	<0.002	**0.0788**	**0.00144 J**	**0.341 ± 0.224 JH**	**-0.0197 ± 0.549 JH**	**0.341 ± 0.773 JH**
East Equalization Pond	EP-31	Upgradient	8/5/2020	N	**3.57**	**5.56**	**501**	**449**	**1.61 J**	**3190**	**5250**	<0.0008	**0.0167**	**0.00626 J**	**0.0779**	**0.0224**	<0.002	**0.119**	<0.0003	**0.808**	<0.00008	<0.002	**0.0855**	**0.00214**	**0.204 ± 0.207**	**0.615 ± 0.567 B**	**0.819 ± 0.774 B**
East Equalization Pond	EP-31	Upgradient	2/24/2021	N	**3.9**	**5.75**	**492**	**191**	**1.42 J**	**3070**	**5340**	<0.0008	**0.0206**	**0.00606 J**	**0.0865**	**0.0255**	<0.002	**0.125**	**0.00225**	**0.904**	<0.00008	<0.002	**0.147**	**0.00212**	**0.349 ± 0.244**	**1.36 ± 0.437B**	**1.71 ± 0.681 B**
East Equalization Pond	EP-31	Upgradient	8/18/2021	N	**3.37**	**5.4 B**	**645**	**217**	**2.01**	**3190**	**4890**	<0.00589	**0.0465**	**0.00175 J**	**0.07**	**0.0182**	<0.000811	**0.114**	**0.00427 J**	**0.664**	<0.0000526	**0.0102**	<0.00439	<0.00621	**-6.08 ± 31**	**11.5 ± 30.2**	**5.42 ± 61.2**
East Equalization Pond	EP-31	Upgradient	2/8/2022	N	**3.07**	**5.49**	**510 B**	**196**	**2.16 JH**	**3370**	**4720**	<0.00589	**0.0353**	<0.00135	**0.0676**	**0.0162**	<0.000811	**0.111**	<0.00237	**0.737**	<0.0000263	**0.00726 J**	<0.00439	<0.00621	**0.37**	**0.477 ± 0.713 U G**	**0.847**
East Equalization Pond	EP-31	Upgradient	9/28/2022	N	**3.76**	**0.69 B**	**111**	**166**	**1.74**	**3270**	**5140**	<0.015	<0.006	<0.0035	**0.068**	**0.00408 J**	<0.005	**0.0268**	<0.00405	**0.684**	**0.0017**	<0.0065	<0.0041	<0.0023	**0.69 JL**	**1.99 ± 0.688**	**2.68**
East Equalization Pond	EP-31	Upgradient	2/21/2023	N	**3.98**	**6.11**	**498**	**178**	<10	**3170**	**5210**	<0.00484	**0.0193**	<0.0157	**0.0656**	**0.014**	<0.00765	**0.1**	<0.00188	**0.644**	<0.00013	<0.00305	**0.00666 J**	**0.0028 J**	**0.26**	**1.5 ± 0.609 JH**	**1.76**
East Equalization Pond	EP-31	Upgradient	9/6/2023	N	**3.81**	**5**	**456**	**142**	**1.18**	**2720**	**3640**	<0.0193	**0.0171**	**0.00585 J**	**0.0635**	**0.0119**	<0.00153	**0.0969**	**0.00108**	**0.6**	<0.00013	<0.00061	**0.00327 J**	**0.00262**	**0.95**	**1.9**	**2.85**
East Equalization Pond	EP-31	Upgradient	2/7/2024	N	**3.88**	**5.92**	**445**	**150**	**1.15 J**	**3200 JH**	**5350**	<0.000967	**0.027**	**0.00554 J**	**0.0657**	**0.0133**	<0.00153	**0.103**	**0.00042 J**	**0.6**	<0.00013	<0.00061	**0.00804**	**0.00245**	**0.86**	**2.08 JH**	**2.94**
East Equalization Pond	EP-31	Upgradient	8/14/2024	N	**3.59**	**6.19 J**	**490**	**11.7 JH**	<1	**310 F1**	**5020**	<0.0967	<0.0563	<0.314	**0.0712 J**	<0.0217	<0.153	**0.0991**	<0.0376	**0.7**	<0.00013	<0.061	<0.153	<0.0472	**0.93**	**1.35 JH**	**2.28**
East Equalization Pond	EP-32	Downgradient	5/25/2016	N	**6.76**	**29.1**	**501**	**2340**	<0.5	**4640**	**10600**	<0.004	**0.00771 J**	**0.0345 J**	<0.002	<0.002	<0.004	<0.002	<0.006	**0.949**	<0.00004	**0.0189 J**	<0.011	<0.002	**0.52 ± 0.21**	**1.85 ± 0.55**	**2.37**
East Equalization Pond	EP-32	Downgradient	8/18/2016	N	**6.66**	**29.8**	**431**	**2290**	**0.709 J**	**4640**	**10200**	<0.002	<0.002	**0.0183 J**	<0.001	<0.001	<0.002	<0.001	<0.003	**0.915**	<0.00004	**0.023 J**	<0.0055	<0.001	**0.42 ± 0.24**	**2.17 ± 0.69**	**2.59**
East Equalization Pond	EP-32	Downgradient	10/26/2016	N	**6.77**	**24.9**	**557**	**2280**	**0.765 J**	**4390**	**9960**	<0.004	<0.004	<0.019	<0.002	<0.002	<0.004	<0.002	<0.006	**0.948**	<0.00004	**0.0246 J**	<0.011	<0.002	**0.51 ± 0.23**	**2.58 ± 0.79**	**3.09**
East Equalization Pond	EP-32	Downgradient	2/15/2017	N	**6.46**	**31.8 J**	**464**	**2210**	<0.2	**3950**	**9640**	<0.0008	<0.002	**0.0162**	<0.0003	<0.0003	**0.00328 J**	<0.003	<0.0003	**0.874**	<0.00008	**0.022**	<0.002	<0.0005	**1.76 ± 1.050**	**2.38 ± 0.435**	**4.14**
East Equalization Pond	EP-32	Downgradient	3/22/2017	N	**6.45**	**29.8**	**436**	**2260**	**0.372 J**	**3990**	**9300**	<0.0008	<0.002	**0.0173**	<0.0003	<0.0003	<0.002	<0.003	<0.0003	**0.909**	<0.00008	**0.0193**	<0.002	<0.0005	**1.34 ± 0.288**	**1.93 ± 0.613**	**3.27**
East Equalization Pond	EP-32	Downgradient	5/11/2017	N	**6.54**	**29.2 J**	**446**	**2230**	<0.1	**4070**	**9540**	<0.0008	<0.002	**0.0153**	<0.0003	<0.0003	<0.002	<0.003	<0.0003	**0.944**	<0.00008	**0.0192**	<0.002	<0.0005	**0.750 ± 0.268**	**2.75 ± 0.444**	**3.5**
East Equalization Pond	EP-32	Downgradient	7/25/2017	N	**6.61**	**30.8 J**	**509**	**2170**	<0.5	**4360**	**9800**	<0.0008	<0.002 J	**0.0161**	<0.0003	<0.0003	**0.00365 J**	<0.003 J	<0.0003	**0.958**	<0.00008	**0.0177**	<0.002 J	<0.0005	**0.668 ± 0.291**	**1.65 ± 0.797 U**	**2.32**
East Equalization Pond	EP-32	Downgradient	8/22/2017	N	**6.42**	**29.5 J**	**450**	**2090**	<0.5	**3930**	**9780**	<0.0008	<0.002	**0.0157**	<0.0003 J	<0.0003	<0.002	<0.003	<0.0003	**0.785**	<0.00008	**0.015**	<0.002 J	<0.0005	**0.710 ± 0.335**	**2.84 ± 0.537**	**3.55**
East Equalization Pond	EP-32	Downgradient	8/22/2017	Dup	**-**	**30.6 J**	**447**	**2200**	<0.5	**4120**	**9800**	<0.0008	<0.002	**0.0156**	<0.0003 J	<0.0003	<0.002	<0.003	<0.0003	**0.783**	<0.00008	**0.0149**	<0.002 J	<0.0005	**0.417 ± 0.272**	**2.76 ± 0.448**	**3.18**
East Equalization Pond	EP-32	Downgradient	3/20/2018	N	**7.16**	**28.6**	**454**	**2060 J+**	<10	**3770**	**9720**	<0.01	<0.01	<0.02 J	<0.02	<0.01	**-**	<0.025	<0.02	**1.01 J**	<0.0002 J	<0.025	<0.01	<0.02	**1.09 ± 0.4**	**3.49 ± 0.99 J**	**4.58 J**
East Equalization Pond	EP-32	Downgradient	3/20/2018	Dup	**-**	**27**	**455**	**2070 J+**	<10	**3700**	**9700**	<0.01	<0.01	**0.0223 J**	<0.01	<0.01	**-**	<0.025	<0.01	**1.33 J**	<0.0002 J	<0.025	<0.01	<0.01	**0.4 ± 0.23**	**1.24 ± 0.58 J**	**1.64 J**
East Equalization Pond	EP-32	Downgradient	6/7/2018	N	**6.75**	**25.4**	**450**	**2420**	**0.442**	**4220**	**10000**	<0.01	<0.01	<0.02	<0.01	<0.01	**-**	<0.025	<0.01	**1.02**	<0.0002 J	<0.025	<0.01	<0.01	**0.78 ± 0.35**	**2.04 ± 0.62**	**2.82**
East Equalization Pond	EP-32	Downgradient	9/5/2018	N	**6.38**	**28.7**	**458**	**2120**	<0.5	**3510**	**9300**	<0.01	<0.01	<0.02	<0.1	<0.01	<0.02	<0.025	<0.01	**1.05**	<0.0002 J	<0.025	<0.01	<0.01	**0.45 ± 0.31 U**	**1.76 ± 0.56 U**	**1.76 U**
East Equalization Pond	EP-32	Downgradient	2/21/2019	N	**6.44**	**41.5**	**471**	**2060**	**0.519 J**	**3650**	**9740**	**0.0128 J**	**0.00175 J**	**0.0158 J**	**0.00055 J**	**0.000542 J**	**0.00176 JH**	**0.00069 J**	<0.0006 JH	**1.23**	<0.00003	**0.0162 J**	<0.0043	<0.00125	**0.53 ± 0.38**	**1.81 ± 0.58**	**2.34 ± 0.96**
East Equalization Pond	EP-32	Downgradient	8/20/2019	N	**6.3**	**40.6**	**421**	**2280**	<0.5	**4110**	**10100**	<0.0008	<0.002	**0.0148**	<0.0003	<0.0003 JH	**0.00283 J**	<0.003 JH	<0.0003 JH	**1.19 JL**	<0.00008	**0.0156**	<0.002	<0.0005	**0.599 ± 0.353**	**3.61 ± 0.44**	**4.21 ± 0.793**
East Equalization Pond	EP-32	Downgradient	1/21/2020	N	**-**	**37.4**	**402**	**2220**	<0.2	**3710**	**10000**	<0.0008	<0.002	**0.018**	<0.0003	<0.0003	<0.002	<0.003	**0.000434 J**	**0.864**	<0.00008	**0.0168**	<0.002	<0.0005	**0.693 ± 0.346**	**3.63 ± 0.452**	**4.32 ± 0.798**
East Equalization Pond	EP-32	Downgradient	2/26/2020	N	**6.2**	**36.6**	**394**	**2360**	<0.5	**3950**	**10100**	<0.0008	<0.002	**0.0169**	<0.0003	<0.0003	**0.00213 J**	<0.003	<0.0003	**1.14**	<0.00008	**0.0073**	<0.002	<0.0005	**1.62 ± 0.51**	**4.16 ± 0.492 JH**	**5.77 ± 1 JH**
East Equalization Pond	EP-32	Downgradient	8/5/2020	N	**6.36**	**36.6**	**441**	**2260**	<0.5	**3850**	**9960**	<0.0008	<0.002	**0.0154**	<0.0003	<0.0003	<0.002	<0.003	<0.0003	**1.1**	<0.00008	**0.0173**	<0.002	<0.0005	**0.378 ± 0.265**	**3.17 ± 0.559**	**3.54 ± 0.824**
East Equalization Pond	EP-32	Downgradient	2/24/2021	N	**6.89**	**20.9**	**406**	**1820**	<0.5	**4300**	**9800**	<0.0008	<0.002	**0.0147**	<0.0015	<0.0003	<0.002	<0.003	<0.0003	**1.09**	<0.00008	**0.0112**	<0.002	<0.0005	**1.05 ± 0.39**	**4.19 ± 0.439 B**	**5.23 ± 0.829 B**
East Equalization Pond	EP-32	Downgradient	2/24/2021	Dup	**-**	**23.6**	**428**	**1900**	**1.01 J**	**4290**	**9480**	<0.0008	<0.002	**0.0135**	<0.0015	<0.0003	<0.002	<0.003	<0.0003	**1.05**	<0.00008	**0.0127**	<0.002	<0.0005	**0.884 ± 0.407**	**2.31 ± 0.537 B**	**3.2 ± 0.944 B**
East Equalization Pond	EP-32	Downgradient	8/18/2021	N	**6.6**	**28.3 B**	**660**	**3220**	<0.1	**4310**	**12100**	<0.00589	<0.0055	**0.0101**	**0.00122 J**	<0.00243	<0.000811	**0.00584 J**	<0.00237	**1.27**	<0.0000263	**0.0116**	<0.00439	<0.00621	**25.7 ± 15.9**	**16.9 ± 24.2**	**42.6 ± 40.1**
East Equalization Pond	EP-32	Downgradient	2/8/2022	N	**6.79**	**19.7**	**438 B**	**2350**	**3.09 J**	**4740**	**8330**	<0.0589	<0.055	<0.0135	<0.0049	<0.0243	<0.00811	<0.00673	<0.0237	**0.984**	<0.0000263	<0.0123	<0.0439	<0.0621	**0.74**	**3.96 ± 0.931**	**4.7**
East Equalization Pond	EP-32	Downgradient	9/28/2022	N	**6.95**	**15.3**	**526**	**3060**	<0.1	**4300**	**12100**	<0.06	<0.048	<0.028	<0.0368	<0.026	<0.04	<0.0224	<0.0324	**1.26**	**0.00163**	<0.052	<0.0328	<0.0184	**0.12 UJL**	**5.7 ± 0.944**	**5.82**
East Equalization Pond	EP-32	Downgradient	2/21/2023	N	**6.49**	**21.5**	**476**	**1720**	<10	**4140**	**9430**	<0.00484	<0.00141	**0.017 J**	<0.00137	<0.00109	<0.00765	<0.00131	<0.00188	**1.15**	<0.00013	**0.00883 J**	<0.0037	<0.00236	**0.73**	**6.14 ± 0.936**	**6.87**
East Equalization Pond	EP-32	Downgradient	9/6/2023	N	**6.94**	**23.6**	**478**	**1860**	<1	**3700**	**10300**	<0.0193	**0.000573 J**	**0.013**	<0.000274	<0.000217	<0.00153	<0.000261	<0.000376	**0.987**	<0.00013	**0.00551**	**0.000741 J**	<0.000472	**0.94**	**5.75**	**6.69**
East Equalization Pond	EP-32	Downgradient	2/7/2024	N	**7.12**	**26.4**	**401**	**2190**	<8	**4080 JH**	**9080**	<0.000967	**0.000557 J**	**0.013**	<0.000274	<0.000217	<0.00153	<0.000261	<0.000376	**1.27**	<0.00013	**0.00675**	**0.002 J**	<0.000472	**0.63**	**3.38 JH**	**4.01**
East Equalization Pond	EP-32	Downgradient	8/14/2024	N	**6.43**	**22**	**425**	**1510 JH**	<1	**3930**	**9190**	<0.0967	<0.0563	<0.314	<0.0274	<0.0217	<0.153	<0.0261	<0.0376	**1.33**	<0.00013	<0.061	<0.153	<0.0472	**1.29**	**3.82 JH**	**5.11**
East Equalization Pond	EP-33	Downgradient	5/25/2016	N	**6.69**	**68**	**598**	**2830**	<0.5	**3290**	**10300**	<0.004	**0.0113 J**	**0.0284 J**	<0.002	<0.002	<0.004	**0.00236 J**	<0.006	**0.439**	<0.00004	**0.0676**	**0.0128 J**	<0.002	**0.61 ± 0.24**	**0.75 ± 0.34**	**1.36**
East Equalization Pond	EP-33	Downgradient	8/18/2016	N	**6.81**	**68.2**	**531**	**2980**	**0.781 J**	**3360**	**9940**	<0.002	<0.002	**0.0153 J**	<0.001	<0.001	<0.002	<0.001	<0.003	**0.403**	<0.00004	**0.0468**	<0.0055	<0.001	**0.53 ± 0.22**	**1.51 ± 0.57**	**2.04**
East Equalization Pond	EP-33	Downgradient	10/26/2016	N	**6.88**	**57**	**608**	**2890**	**0.916 J**	**3320**	**9560**	<0.004	<0.004	<0.019	<0.002	<0.002	<0.004	<0.002	<0.006	**0.414**	<0.00004	**0.0401 J**	<0.011	<0.002	**0.45 ± 0.2**	**ND ± 0.42**	**0.45**
East Equalization Pond	EP-33	Downgradient	2/15/2017	N	**6.53**	**69.9 J**	**577**	**2940**	<0.2	**2770**	**9440**	<0.0008	<0.002	**0.0159**	<0.0003	<0.0003	**0.00206 J**	<0.003	<0.0003	**0.544**	<0.00008	**0.0233**	<0.002	<0.0005	**0.646 ± 0.451 U**	**0.235 ± 0.456 U**	**0.88 U**
East Equalization Pond	EP-33	Downgradient	3/22/2017	N	**6.57**	**69.3**	**587**	**3110**	**0.378 J**	**2880**	**9260**	<0.0008	<0.002	**0.0161**	<0.0003	<0.0003	<0.002	<0.003	<0.0003	**0.557 J-**	<0.00008	**0.0199**	<0.002	<0.0005	**1.03 ± 0.349**	**1.64 ± 0.440**	**2.67**
East Equalization Pond	EP-33	Downgradient	5/11/2017	N	**6.69**	**78.3 J**	**618**	**3370**	<0.1	**2900**	**9960**	<0.0008	<0.002	**0.0178**	<0.0003	<0.0003	<0.002	<0.003	<0.0003	**0.8**	<0.00008	**0.0161**	<0.002	<0.0005	**0.358 ± 0.224**	**0.735 ± 0.544 U**	**1.09**
East Equalization Pond	EP-33	Downgradient	7/25/2017	N	**6.66**	**69.9 J**	**709**	**3290**	<0.5	**3610**	**10200**	<0.0008	<0.002 J	**0.0165**	<0.0003	<0.0003	**0.0027 J**	<0.003 J	<0.0003	**0.745**	<0.00008	**0.0133**	<0.002 J	<0.0005	**0.326 ± 0.148**	**1.63 ± 0.545 U**	**1.96**
East Equalization Pond	EP-33	Downgradient	8/23/2017	N	**6.47**	**70.2**	**605**	**3020**	<0.5	**3100**	**9860**	<0.0008	<0.002	**0.0157**	<0.0003	<0.0003	<0.002	<0.003	<0.0003	**0.712**	<0.00008	**0.0125**	<0.002	<0.0005	**0.237 ± 0.228**	**1.40 ± 0.521 U**	**1.64**
East Equalization Pond	EP-33	Downgradient	3/20/2018	N	**7.16**	**85.8**	**577**	**2720 J+**	<10	**2760**	**9800**	<0.01	<0.01	<0.02	<0.01	<0.01	**-**	<0.025	<0.01	**0.696**	<0.0002 J	**0.0284**	<0.01	<0.01	**0.37 ± 0.22**	**1.18 ± 0.55**	**1.55**
East Equalization Pond	EP-33	Downgradient	6/7/2018	N	**6.78**	**72.4**	**596**	**3250**	**0.442**	**3180**	**9820**	<0.01	<0.01	<0.02	<0.1	<0.01	**-**	<0.025	<0.01	**0.613**	<0.0002 J	**0.0427**	**0.0161**	<0.01	**0.3 ± 0.2**	**0.89 ± 0.39**	**1.19**
East Equalization Pond	EP-33	Downgradient	9/5/2018	N	**6.3**	**63.8**	**660**	**2970**	<0.5	**2780**	**10300**	<0.01	<0.01	<0.02	<0.01	<0.01	<0.02	<0.025	<0.01	**0.718**	<0.0002 J	**0.0588**	<0.01	<0.01	**0.42 ± 0.28 UJ**	**0.97 ± 0.43 U**	**0.97 UJ**
East Equalization Pond	EP-33	Downgradient	9/5/2018	Dup	**-**	**70.4**	**639**	**3480**	<0.5	**2930**	**10300**	<0.01	<0.01	<0.02	<0.01	<0.01	<0.02	<0.025	<0.01	**0.712**	<0.0002	**0.0588**	<0.01	<0.01	**2.15 ± 0.79 J**	**1.46 ± 0.55 U**	**3.61 J**
East Equalization Pond	EP-33	Downgradient	2/21/2019	N	**6.8**	**98.2**	**650**	**2890**	**0.511 J**	**2950**	**10200**	<0.00265 JH	<0.00125	**0.0153 J**	<0.000455	<0.000385	**0.00187 JH**	**0.000382 JH**	<0.0006 JH	**0.734**	<0.00003	**0.0499**	<0.0043	<0.00125	**0.85 ± 0.39**	**0.79 ± 0.43**	**1.64 ± 0.82**
East Equalization Pond	EP-33	Downgradient	8/21/2019	N	**6.41**	**100**	**624**	**3110**	**0.707 J**	**2830**	**10500**	<0.0008	<0.002	**0.0183**	<0.0003	<0.0003 JH	**0.00266 J**	<0.003 JH	**0.00245**	**0.595**	<0.00008	**0.0491**	**0.00331 J**	<0.0005	**0.972 ± 0.466**	**2.2 ± 0.481 J**	**3.17 ± 0.947**
East Equalization Pond	EP-33	Downgradient	2/26/2020	N	**6.96**	**93.4**	**507**	**3190**	<0.5	**2930**	**10500**	<0.0008	<0.002	**0.014**	<0.0003	<0.0003	**0.00218 J**	<0.003	**0.00143**	**0.589**	<0.00008	**0.0556**	<0.002	<0.0005	**0.158 ± 0.234 JH**	**1.01 ± 0.407 JH**	**1.17 ± 0.641 JH**
East Equalization Pond	EP-33	Downgradient	2/26/2020	Dup	**-**	**94.7**	**506**	**3250**	<0.5	**2990**	**10500**	<0.0008	<0.002	**0.0142**	<0.0003	<0.0003	**0.00245 J**	<0.003	**0.00145**	**0.598**	<0.00008	**0.0561**	<0.002	<0.0005	**0.291 ± 0.251 JH**	**0.49 ± 1.26 JH**	**0.78 ± 1.51 JH**
East Equalization Pond	EP-33	Downgradient	8/5/2020	N	**6.54**	**82.7**	**580**	**3360**	<0.5	**3120**	**10500**	<0.0008	<0.002	**0.0162**	<0.0003	<0.0003	**0.00288 J**	<0.003	<0.0003	**0.629**	<0.00008	**0.0494**	<0.002	<0.0005	**0.472 ± 0.264**	**2.81 ± 0.615**	**3.28 ± 0.879**
East Equalization Pond	EP-33	Downgradient	2/24/2021	N	**7.01**	**82.7**	**556**	**3210**	**1.36 J**	**2970**	**10200**	<0.0008	<0.002	**0.0165**	<0.0015	<0.0003	<0.002	<0.003	<0.0003	**0.594**	<0.00008	**0.0363**	**0.00226 J**	<0.0005	**0.501 ± 0.285**	**1.48 ± 0.457 B**	**1.98 ± 0.742 B**
East Equalization Pond	EP-33	Downgradient	8/18/2021	N	**6.45**	**93.7 B**	**721**	**2980**	**0.235 J**	**3330**	**9210**	<0.00589	**0.00972 J**	**0.00932 J**	**0.00136 J**	<0.00243	<0.000811	**0.00627 J**	<0.00237	**0.672**	<0.0000263	**0.0267**	<0.00439	<0.00621	**33.3 ± 17.2**	**13.6 ± 21.9**	**46.9 ± 39.1**
East Equalization Pond	EP-33	Downgradient	8/18/2021	Dup	**-**	**95.7 B**	**788**	**2920**	**0.231 J**	**3270**	**9110**	<0.00589	**0.00618 J**	**0.0098 J**	**0.00145 J**	<0.00243	<0.000811	**0.00683 J**	<0.00237	**0.707**	<0.0000263	**0.0299**	<0.00439	<0.00621	**11.5 ± 18.4**	**8.82 ± 24.2**	**20.32 ± 42.6**
East Equalization Pond	EP-33	Downgradient	2/8/2022	N	**6.58**	**55**	**446 B**	**2620**	**5.8**	**3220**	**10900**	<0.0589	**0.0628 J**	<0.0135	<0.0049	<0.0243	<0.00811	<0.00673	<0.0237	**0.671**	<0.0000263	<0.0123	<0.0439	<0.0621	**0.77**	**3.1 ± 0.818**	**3.87**
East Equalization Pond	EP-33	Downgradient	2/8/2022	Dup	**-**	**58.6**	**480 B**	**2590**	<1	**3210**	**12100**	<0.0589	<0.055	<0.0135	<0.0049	<0.0243	<0.00811	<0.00673	<0.0237	**0.51**	<0.0000263	**0.0133 J**	<0.0439	<0.0621	**0.62**	**2.17 ± 0.727**	**2.79**
East Equalization Pond	EP-33	Downgradient	9/28/2022	N	**6.61**	**61**	**449**	**2290**	**0.154 J**	**3200**	**8110**	<0.15	<0.12	<0.07 J	<0.092	<0.065	<0.1 J	<0.056	<0.081	**0.542 J**	**0.00103**	<0.13 J	<0.082	<0.046	**0.45**	**1.88 ± 0.578**	**2.33**
East Equalization Pond	EP-33	Downgradient	9/28/2022	Dup	**-**	**70.5 B**	**475**	**2300**	<1	**3180**	**8850**	<0.0075 J	<0.006	**0.0182 J**	<0.0046	<0.00325	**0.00765 J**	<0.0028	<0.00405	**0.791 J**	**0.00103**	**0.0112 J**	<0.0041	<0.0023	**0.4**	**2.71 ± 0.602**	**3.11**
East Equalization Pond	EP-33	Downgradient	2/21/2023	N	**6.52**	**63.7**	**521**	**2190**	<10	**3170**	**8930**	<0.00484	<0.00141	**0.0158 J**	<0.00137	<0.00109	<0.00765	<0.00131	<0.00188	**0.736**	<0.00013	**0.0119 J**	<0.0037	<0.00236	**0.95**	**2.76 ± 0.628 JH**	**3.71**
East Equalization Pond	EP-33	Downgradient	2/21/2023	Dup	**-**	**57.3**	**467**	**2220**	<10	**4230**	**8510**	<0.00484	<0.00141	<0.0157	<0.00137	<0.00109	<0.00765	<0.00131	<0.00188	**0.669**	<0.00013	**0.0108 J**	<0.0037	<0.00236	**0.88**	**1.46 ± 0.457 JH**	**2.34**
East Equalization Pond	EP-33	Downgradient	9/6/2023	N	**6.6**	**61.7**	**512**	**1950**	<0.1	**2890**	**9370**	<0.0193	**0.000647 J**	**0.0131**	<0.000274	<0.000217	**0.00195 J**	**0.000273 J**	<0.000376	**0.692**	<0.00013	**0.0186**	**0.00157 J**	<0.000472	<0.28	**1.89**	**1.89**
East Equalization Pond	EP-33	Downgradient	9/6/2023	Dup	**-**	**55.2**	**500**	**1870**	**0.475 J**	**2860**	**9480**	<0.0193	**0.000661 J**	**0.0125**	<0.000274	<0.000217	<0.00153	<0.000261	<0.000376	**0.729**	<0.00013	**0.0131**	**0.00145 J**	<0.000472	**0.93**	**1.14**	**2.07**
East Equalization Pond	EP-33	Downgradient	2/7/2024	N	**6.71**	**52.6**	**481**	**2380**	<8	**3210 JH**	**8600**	<0.000967	**0.000869 J**	**0.0134**	<0.000274	<0.000217	<0.00153	<0.000261	<0.000376	**0.812 J**	<0.00013	**0.0062**	**0.00275 J**	<0.000472	**1.21**	**2.71 JH**	**3.92**

APPENDIX A
Cumulative Groundwater Analytical Results for CCR Monitoring Network Wells

San Miguel Electric Cooperative, Inc.
Christine, Atascosa County, Texas

					Appendix III Constituents							Appendix IV Constituents															
				Analyte:	pH (field)	Boron	Calcium	Chloride	Fluoride*	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium	Radium-226	Radium-228	Combined Radium
				Units:	SU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pCi/L	pCi/L	pCi/L
Area	Well ID	Well Type	Sample Date	Type																						
East Equalization Pond	EP-33	Downgradient	2/7/2024	Dup	**6.71**	**47.4**	**477**	**2320**	<8	**3100 JL**	**9520**	<0.000967	**0.000755 J**	**0.0137**	<0.000274	<0.000217	<0.0306	<0.000261	<0.000376	**0.529 J**	<0.00013	**0.00611**	**0.00219 J**	<0.000472	**1.22**	**2.19 JH**	**3.47**
East Equalization Pond	EP-33	Downgradient	8/14/2024	N	**6.48**	**46.8**	**476**	**2110 JH**	<1	**3140**	**7800**	<0.0967	<0.0563	<0.314	<0.0274	<0.0217	<0.153	<0.0261	<0.0376	**0.919**	<0.00013	<0.061	<0.153	<0.0472	**0.81**	**1.99 JH**	**2.8**
East Equalization Pond	EP-34	Downgradient	5/24/2016	N	**6.79**	**50.2**	**517**	**3640**	<0.5	**2910**	**10800**	<0.004	**0.00596 J**	**0.0294 J**	<0.002	<0.002	<0.004	<0.002	<0.006	**0.874**	<0.00004	**0.0227 J**	<0.011	<0.002	**0.7 ± 0.26**	**1.51 ± 0.47**	**2.21**
East Equalization Pond	EP-34	Downgradient	8/18/2016	N	**6.66**	**74.6**	**483**	**3900**	**0.589 J**	**3000**	**10700**	<0.002	<0.002	**0.0227 J**	<0.001	<0.001	<0.002	**0.00174 J**	<0.003	**0.698**	<0.00004	**0.029**	<0.0055	<0.001	**0.7 ± 0.29**	**1.79 ± 0.62**	**2.49**
East Equalization Pond	EP-34	Downgradient	10/26/2016	N	**6.74**	**61.6**	**533**	**3780**	**0.651 J**	**3150**	**10700**	<0.004	<0.004	<0.019	<0.002	<0.002	<0.004	<0.002	<0.006	**0.78**	<0.00004	**0.0249 J**	<0.011	<0.002	**0.76 ± 0.3**	**1.61 ± 0.6**	**2.37**
East Equalization Pond	EP-34	Downgradient	2/15/2017	N	**6.37**	**51.7 J**	**448**	**3660**	<0.5	**3100**	**11300**	<0.0008	<0.002	**0.02**	<0.0003	<0.0003	**0.00298 J**	<0.003	<0.0003	**0.852**	<0.00008	**0.0174**	<0.002	<0.0005	**1.17 ± 0.464 U**	**5.11 ± 0.541**	**6.28**
East Equalization Pond	EP-34	Downgradient	2/15/2017	Dup	**-**	**54.6 J**	**457**	**3670**	<0.5	**3090**	**10700**	<0.0008	<0.002	**0.0189**	<0.0003	<0.0003	<0.002	<0.003	<0.0003	**0.823**	<0.00008	**0.0187**	<0.002	<0.0005	**0.721 ± 0.372 U**	**4.33 ± 0.476**	**5.05**
East Equalization Pond	EP-34	Downgradient	3/22/2017	N	**6.41**	**53.5**	**447**	**3670**	<0.5	**3030**	**10300**	<0.0008	<0.002	**0.0164**	<0.0003	<0.0003	<0.002	<0.003	<0.0003	**0.727 J-**	<0.00008	**0.0175**	<0.002	<0.0005	**1.61 ± 0.489**	**3.21 ± 0.549**	**4.82**
East Equalization Pond	EP-34	Downgradient	3/22/2017	Dup	**-**	**50.2**	**427**	**3710**	<0.5	**3110**	**12300**	<0.0008	<0.002	**0.0163**	<0.0003	<0.0003	<0.002	<0.003	<0.0003	**0.721 J-**	<0.00008	**0.0171**	<0.002	<0.0005	**1.51 ± 0.419**	**2.41 ± 0.574**	**3.92**
East Equalization Pond	EP-34	Downgradient	5/11/2017	N	**6.49**	**52.1 J**	**476**	**3740**	<0.1	**3230**	**11100**	<0.0008	<0.002	**0.0168**	<0.0003	<0.0003	<0.002	<0.003	<0.0003	**0.983**	<0.00008	**0.0154**	<0.002	<0.0005	**0.696 ± 0.269**	**3.60 ± 0.632**	**4.3**
East Equalization Pond	EP-34	Downgradient	7/25/2017	N	**6.59**	**55.8 J**	**510**	**3860**	<0.5	**3500**	**11400**	<0.0008	<0.002 J	**0.0173**	<0.0003	<0.0003	**0.00322 J**	<0.003 J	<0.0003	**0.862**	<0.00008	**0.0118**	<0.002 J	<0.0005	**0.971 ± 0.288**	**2.24 ± 0.618**	**3.21**
East Equalization Pond	EP-34	Downgradient	8/23/2017	N	**6.46**	**53.5**	**489**	**3700**	<0.5	**3210**	**11300**	<0.0008	<0.002	**0.0172**	<0.0003	<0.0003	<0.002	<0.003	<0.0003	**0.887**	<0.00008 J	**0.0111**	<0.002	<0.0005	**0.574 ± 0.324**	**3.03 ± 0.459**	**3.6**
East Equalization Pond	EP-34	Downgradient	3/20/2018	N	**6.62**	**50.8**	**483**	**3430 J+**	<10	**3160**	**11500**	<0.01	<0.01	**0.0208**	<0.01	<0.01	**-**	<0.025	<0.01	**1**	<0.0002 J	<0.025	<0.01	<0.01	**1.5 ± 0.5**	**4.9 ± 1.3**	**6.4**
East Equalization Pond	EP-34	Downgradient	6/7/2018	N	**6.76**	**48.5**	**484**	**4130**	**0.169**	**3780**	**11500**	<0.01	<0.01	**0.0203**	<0.1	<0.01	**-**	<0.025	<0.1	**0.813**	<0.0002 J	<0.025	**0.0126**	<0.1	**1.78 ± 0.59**	**5 ± 1.3**	**6.78**
East Equalization Pond	EP-34	Downgradient	9/5/2018	N	**6.37**	**46.9**	**492**	**3610**	<0.5	**3280**	**11500**	<0.01	<0.01	<0.02	<0.01	<0.01	<0.02	<0.025	<0.01	**0.961**	<0.0002 J	<0.025	<0.01	<0.01	**1.42 ± 0.6 U**	**5.4 ± 1.4 U**	**6.82 U**
East Equalization Pond	EP-34	Downgradient	2/20/2019	N	**8.24**	**57.1**	**441**	**3890**	<0.5	**3640**	**11100**	<0.0053	<0.0025	**0.0193 J**	<0.00091	<0.00077	**0.00424 J**	<0.0004 JH	<0.0012	**1.15**	<0.00003	**0.00536 J**	<0.0086	<0.00125	**1.16 ± 0.48**	**6.1 ± 1.5**	**7.26 ± 1.98**
East Equalization Pond	EP-34	Downgradient	6/28/2019	N	**-**	**95.5**	**509**	**3490**	**0.135 J**	**2930**	**11400**	<0.00053	**0.00178 J**	**0.0193**	<0.000455	<0.000077	**0.00218 J**	**0.000305 J**	<0.0006	**1.03 n**	<0.00003	**0.0165**	**0.0024**	<0.00025	**1.23 ± 0.58**	**3.6 ± 0.96**	**4.83 ± 1.54**
East Equalization Pond	EP-34	Downgradient	8/21/2019	N	**6.28**	**52.6**	**488**	**3530**	<0.5	**2850**	**11600**	<0.0008	<0.002	**0.016**	<0.0003	<0.0003 JH	<0.002	<0.003 JH	<0.0003 JH	**0.909**	<0.00008	**0.00585**	<0.002	<0.0005	**0.893 ± 0.404**	**4.44 ± 0.654 J**	**5.33 ± 1.06**
East Equalization Pond	EP-34	Downgradient	2/26/2020	N	**6.11**	**71.6**	**441**	**3870**	<0.5	**3170**	**11500**	<0.0008	<0.002	**0.0177**	<0.0003	<0.0003	<0.002	<0.003	<0.0003	**0.838**	<0.00008	**0.00822**	<0.002	<0.0005	**0.996 ± 0.418**	**3.42 ± 0.486 JH**	**4.41 ± 0.904 JH**
East Equalization Pond	EP-34	Downgradient	8/6/2020	N	**5.6**	**67.7**	**515**	**3890**	<0.5	**3070**	**11200**	<0.0008	<0.002	**0.0171**	<0.0003	<0.0003	<0.002	<0.003	<0.0003	**0.847**	<0.00008	**0.0164**	<0.002	<0.0005	**1.04 ± 0.443**	**4.6 ± 0.654**	**5.64 ± 1.1**
East Equalization Pond	EP-34	Downgradient	2/24/2021	N	**6.64**	**66.3**	**489**	**3790**	**1.58 J**	**2960**	**11100**	<0.0008	<0.002	**0.0173**	<0.0015	<0.0003	<0.002	<0.003	<0.0003	**0.799**	<0.00008	**0.0229**	<0.002	<0.0005	**1.31 ± 0.473**	**6.04 ± 0.423**	**7.35 ± 0.896**
East Equalization Pond	EP-34	Downgradient	8/18/2021	N	**6.81**	**32.4 B**	**668**	**4070**	<0.1	**3600**	**11400**	<0.00589	<0.0055	**0.0123**	**0.00123 J**	<0.00243	<0.000811	**0.00646 J**	<0.00237	**1.22**	<0.0000263	**0.00911 J**	<0.00439	<0.00621	**-5.62 ± 7.73**	**20.3 ± 30**	**14.68 ± 37.73**
East Equalization Pond	EP-34	Downgradient	2/8/2022	N	**6.81**	**27.6**	**461 B**	**4320**	<1	**3740**	**10800**	<0.0589	<0.055	<0.0135	<0.0049	<0.0243	<0.00811	<0.00673	<0.0237	**1.25**	<0.0000263	<0.0123	<0.0439	<0.0621	**1.41**	**6.36 ± 1.27 G**	**7.77**
East Equalization Pond	EP-34	Downgradient	9/28/2022	N	**6.84**	**39.2**	**515**	**4000**	<0.1	**3220**	**11000**	<0.06	<0.048	**0.0292 J**	<0.0368	<0.026	<0.04	<0.0224	<0.0324	**1.09**	**0.00117**	<0.052	<0.0328	<0.0184	**0.65**	**8.33 ± 1.23**	**8.98**
East Equalization Pond	EP-34	Downgradient	2/21/2023	N	**6.74**	**55.8**	**588**	**3880**	<10	**3600**	**11400**	<0.00484	<0.00141	**0.0222 J**	<0.00137	<0.00109	<0.00765	<0.00131	<0.00188	**1.06**	<0.00013	**0.0109 J**	<0.0037	<0.00236	**1.76**	**7.53 ± 1.09**	**9.29**
East Equalization Pond	EP-34	Downgradient	9/6/2023	N	**6.9**	**22**	**489**	**3210**	<1	**2810**	**11600**	<0.0193	**0.000497 J**	**0.0145**	<0.00548	<0.000217	<0.00153	<0.000261	<0.000376	**1.24**	<0.00013	**0.00323 J**	<0.000739	<0.000472	**2.53**	**6.01**	**8.54**
East Equalization Pond	EP-34	Downgradient	2/7/2024	N	**6.84**	**45.7**	**519**	**4040**	<20	**2910 JH**	**11600**	<0.000967	**0.000289 J**	**0.0171**	<0.000274	<0.000217	<0.00153	<0.000261	<0.000376	**1.17**	<0.00013	**0.0065**	**0.00141 J**	<0.000472	**2.96**	**6.4**	**9.36**
East Equalization Pond	EP-34	Downgradient	8/14/2024	N	**6.78**	**34.5**	**474**	**3920 JH**	<1	**3200**	**11200**	<0.0967	<0.0563	<0.314	<0.0274	<0.0217	<0.153	<0.0261	<0.0376	**1.31**	<0.00013	<0.061	<0.153	<0.0472	**1.55**	**5.93**	**7.48**
East Equalization Pond	EP-35	Downgradient	5/24/2016	N	**6.27**	**23.4**	**367**	**3170**	<0.5	**3450**	**10700**	<0.004	**0.0191 J**	**0.0392 J**	<0.002	<0.002	**0.00425 J**	**0.00554 J**	<0.006	**1.08**	<0.00004	**0.00701 J**	<0.011	<0.002	**0.77 ± 0.27**	**1.23 ± 0.41**	**2**
East Equalization Pond	EP-35	Downgradient	8/18/2016	N	**6.48**	**33.7**	**276**	**3410**	<0.5	**3340**	**10100**	<0.002	**0.00211 J**	**0.0199 J**	<0.001	<0.001	<0.002	**0.00104 J**	<0.003	**1.16**	<0.00004	**0.00426 J**	<0.0055	<0.001	**0.61 ± 0.22**	**1.1 ± 0.4**	**1.71**
East Equalization Pond	EP-35	Downgradient	10/26/2016	N	**6.51**	**25.2**	**298**	**3440**	**0.536 J**	**3340**	**9960**	<0.004	<0.004	**0.02 J**	<0.002	<0.002	<0.004	<0.002	<0.006	**1.02**	<0.00004	<0.006	<0.011	<0.002	**0.47 ± 0.22**	**1.19 ± 0.51**	**1.66**
East Equalization Pond	EP-35	Downgradient	2/15/2017	N	**6.05**	**35.2 J**	**283**	**3130**	<0.2	**2870**	**9600**	<0.0008	**0.00263 J**	**0.0184**	<0.0003	<0.0003	<0.002	<0.003	<0.0003	**1.06**	<0.00008	**0.00407 J**	<0.002	<0.0005	**0.345 ± 0.305 U**	**1.65 ± 0.495**	**2 U**
East Equalization Pond	EP-35	Downgradient	3/22/2017	N	**6.22**	**34.1**	**269**	**3230**	<0.5	**3170**	**10600**	<0.0008	<0.002	**0.0167**	<0.0003	<0.0003	<0.002	<0.003	<0.0003	**0.937 J-**	<0.00008	**0.00359 J**	<0.002	<0.0005	**1.36 ± 0.298**	**1.55 ± 0.440**	**2.91**
East Equalization Pond	EP-35	Downgradient	5/11/2017	N	**6.35**	**36.7 J**	**294**	**3270**	<0.1	**3040**	**9720**	<0.0008	<0.002	**0.0174**	<0.0003	<0.0003	**0.00209 J**	<0.003	<0.0003	**1.06**	<0.00008	**0.00349 J**	<0.002	<0.0005	**0.544 ± 0.240**	**1.20 ± 0.539**	**1.74**
East Equalization Pond	EP-35	Downgradient	5/11/2017	Dup	**-**	**36.1 J**	**283**	**3320**	<0.1	**3010**	**10200**	<0.0008	<0.002	**0.0168**	<0.0003	<0.0003	**0.00212 J**	<0.003	<0.0003	**1**	<0.00008	**0.00363 J**	<0.002	<0.0005	**0.606 ± 0.262**	**0.737 ± 0.510 U**	**1.34**
East Equalization Pond	EP-35	Downgradient	7/25/2017	N	**6.4**	**34.6 J**	**265**	**3460**	<0.5	**3130**	**9860**	<0.0008	<0.002	**0.0176**	<0.0003	<0.0003	<0.002	<0.003	<0.0003	**0.893**	<0.00008	**0.00374 J**	<0.002	<0.0005	**0.708 ± 0.309**	**0.845 ± 0.459 U**	**1.55**
East Equalization Pond	EP-35	Downgradient	8/23/2017	N	**6.27**	**32.8**	**271**	**3310**	<0.5	**2890**	**9660**	<0.0008	<0.002	**0.0161**	<0.0003	<0.0003	<0.002	<0.003	<0.0003	**1.06**	<0.00008	**0.00301 J**	<0.002	<0.0005	**0.299 ± 0.247**	**2.09 ± 0.537 U**	**2.39**
East Equalization Pond	EP-35	Downgradient	3/21/2018	N	**6.6**	**32.3**	**273**	**3040 J+**	<10	**2610**	**10200**	<0.01	<0.01	<0.02	<0.01	<0.01	-	<0.025	<0.01	**1.23**	<0.0002 J	<0.025	<0.01	<0.01	**0.63 ± 0.27**	**0.92 ± 0.46 U**	**0.63**
East Equalization Pond	EP-35	Downgradient	6/7/2018	N	**6.42**	**34.5**	**272**	**4000**	**0.174**	**3370**	**10200**	<0.01	<0.01	**0.0248**	<0.1	<0.01	-	<0.025	<0.01	**1.01**	<0.0002 J	<0.025	**0.013**	<0.01	**0.45 ± 0.27**	**1.54 ± 0.51**	**1.99**
East Equalization Pond	EP-35	Downgradient	9/6/2018	N	**6.06**	**30.1**	**306**	**3310**	<0.5	**2730**	**10200**	<0.01	<0.01	**0.0221**	<0.2	<0.01	<0.02	<0.025	<0.01	**0.951**	<0.0002 J	<0.025	<0.01	<0.01	**0.57 ± 0.39 U**	**0.86 ± 0.46 U**	**0.57 U**
East Equalization Pond	EP-35	Downgradient	2/20/2019	N	**8.03**	**41.1**	**325**	**3540**	<0.5	**3220**	**11100**	<0.0053	**0.00439 J**	**0.0574**	**0.00103 J**	<0.00077	**0.00635 J**	**0.00263 J**	**0.00699 J**	**1.24**	<0.00003	<0.0049	<0.0086	<0.00125	**0.75 ± 0.38**	**2.26 ± 0.65**	**3.01 ± 1.03**
East Equalization Pond	EP-35	Downgradient	8/21/2019	N	**6.13**	**32.2**	**347**	**3480**	<0.5	**2860**	**10600**	<0.0008	<0.002	**0.0183**	<0.0003	<0.0003 JH	<0.002	<0.003 JH	<0.0003 JH	**1.16**	<0.00008	<0.002	<0.002	<0.0005	**0.498 ± 0.268**	**5.63 ± 0.684 J**	**6.13 ± 0.952**
East Equalization Pond	EP-35	Downgradient	2/27/2020	N	**6.76**	**36.9**	**295**	**3790**	<0.5	**3080**	**10900**	<0.0008	**0.0038 J**	**0.117**	**0.000946 J**	<0.0003	**0.00729**	<0.003	**0.00752**	**1.09**	<0.00008	**0.00226 J**	**0.00277 J**	<0.0005	**0.703 ± 0.341 JH**	**3.5 ± 0.618 JH**	**4.2 ± 0.959 JH**
East Equalization Pond	EP-35	Downgradient	8/6/2020	N	**5.5**	**40.9**	**352**	**3780**	<0.5	**3090**	**9400**	<0.0008	<0.002	**0.0196**	<0.0003	<0.0003	**0.00301 J**	<0.003	**0.000536 J**	**1.13**	<0.00008	**0.00216 J**	<0.002	<0.0005	**0.929 ± 0.386**	**1.86 ± 0.664**	**2.79 ± 1.05**
East Equalization Pond	EP-35	Downgradient	8/6/2020	Dup	**-**	**34.4**	**350**	**3810**	<0.5	**3060**	**11000**	<0.0008	<0.002	**0.021**	<0.0003	<0.0003	**0.0029 J**	<0.003	**0.000712 J**	**1.14**	<0.00008	**0.00221 J**	<0.002	<0.0005	**0.768 ± 0.349**	**2.41 ± 0.609**	**3.18 ± 0.958**
East Equalization Pond	EP-35	Downgradient	2/24/2021	N	**6.54**	**40**	**343**	**3670**	**1.65 J**	**2940**	**11000**	<0.0008	<0.002	**0.0193**	<0.0015	<0.0003	<0.002	<0.003	**0.000316 J**	**1.12**	<0.00008	<0.002	<0.002	<0.0005	**0.686 ± 0.308**	**1.1 ± 0.421 B**	**1.78 ± 0.729 B**
East Equalization Pond	EP-35	Downgradient	8/18/2021	N	**6.28**	**43.4 B**	**433**	**3710**	<0.1	**3170**	**10000**	<0.00589	<0.0055	**0.0202**	**0.00114 J**	<0.00243	<0.000811	**0.00438 J**	<0.00237	**1.17**	<0.0000263	**0.00321 J**	<0.00439	<0.00621	**77.4 ± 23.7**	**6.61 ± 18.5**	**84.01 ± 42.2**
East Equalization Pond	EP-35	Downgradient	2/8/2022	N	**6.21**	**32.8**	**330 B**	**3930**	<1	**3420**	**13600**	<0.0589	<0.055	**0.0164 J**	<0.0049	<0.0243	**0.0149 J**	<0.00673	<0.0237	**1.12**	<0.0000263	<0.0123	<0.0439	<0.0621	**0.51**	**1.99 ± 0.643**	**2.5**
East Equalization Pond	EP-35	Downgradient	9/28/2022	N	**6.39**	**33.2**	**399**	**3550**	<0.1	**3120**	**10300**	<0.06	<0.048	<0.028	<0.0368	<0.026	<0.04	<0.0224	<0.0324	**1.26**	**0.000606**	<0.052	<0.0328	<0.0184	**0.87**	**3.64 ± 0.75**	**4.51**
East Equalization Pond	EP-35	Downgradient	2/21/2023	N	**6.42**	**41.6**	**505**	**3580**	<10	**3470**	**11000**	<0.00484	<0.00141	**0.0242 J**	<0.00137	<0.00109	<0.00765	<0.00131	<0.00188	**1.32**	<0.00013	<0.00305	<0.0037	<0.00236	**0.77**	**1.97 ± 0.739 JH**	**2.74**
East Equalization Pond	EP-35	Downgradient	9/6/2023	N	**6.48**	**35.3**	**419**	**2990**	<1	**2850**	**11300**	<0.0193	**0.000599 J**	**0.0171**	<0.000274	<0.000217	<0.00153	<0.000261	<0.000376	**0.974**	<0.00013	**0.00169 J**	<0.000739	<0.000472	**0.76**	**2.29**	**3.05**
East Equalization Pond	EP-35	Downgradient	2/7/2024	N	**6.51**	**40**	**457**	**3880**	<8	**3210 JH**	**11300**	<0.000967	**0.000584 J**	**0.0197**	**0.000358 J**	<0.000217	<0.00765	<0.000261	<0.000376	**1.3**	<0.00013	**0.00214 J**	**0.00165 J**	<0.000472	**0.89**	**1.78 JH**	**2.67**
East Equalization Pond	EP-35	Downgradient	8/14/2024	N	**6.38**	**33.7**	**451**	**3520 JH**	<1	**3280**	**10900**	<0.0967	<0.0563	<0.314	<0.0274	<0.0217	<0.153	<0.0261	<0.0376	**1.24**	<0.00013	<0.061	<0.153	<0.0472	<0.16	**1.87 JH**	**1.87 JH**
East Equalization Pond	EP-36	Downgradient	5/24/2016	N	**6.27**	**17.6**	**439**	**3350**	<0.5	**2470**	**10200**	<0.004	**0.014 J**	**0.0604**	<0.002	<0.002	<0.004	**0.00218 J**	<0.006	**1.26**	<0.00004	<0.006	<0.011	<0.002	**0.97 ± 0.32**	**2.07 ± 0.62**	**3.04**
East Equalization Pond	EP-36	Downgradient	8/18/2016	N	**6.22**	**22.3**	**353**	**3810**	<0.5	**2600**	**9820**	<0.002	**0.00389 J**	**0.0239 J**	<0.001	<0.001	<0.002	<0.001	<0.003	**1.34**	<0.00004	<0.003	<0.0055	<0.001	**0.77 ± 0.3**	**1.47 ± 0.56**	**2.24**
East Equalization Pond	EP-36	Downgradient	10/26/2016	N	**6.5**	**16.2**	**397**	**3740**	<0.5	**2580**	**9720**	<0.004	**0.00456 J**	**0.0232 J**	<0.002	<0.002	<0.004	<0.002	<0.006	**1.19**	<0.00004	<0.006	<0.011	<0.002	**0.93 ± 0.35**	**2.43 ± 0.76**	**3.36**
East Equalization Pond	EP-36	Downgradient	2/16/2017	N	**5.88**	**24.6**	**434**	**3600**	<0.5 J	**2450**	**10700**	<0.0008	**0.00333 J**	**0.0224 J**	<0.0003	<0.0003	<0.002	<0.003	<0.0003	**1.2**	<0.00008	<0.002	<0.002 J	<0.0005	**0.368 ± 0.648**	**2.09 ± 0.699**	**2.46**
East Equalization Pond	EP-36	Downgradient	3/22/2017	N	**6.04**	**23.4**	**382**	**3570**	<0.5	**2540**	**11000**	<0.0008	**0.00259 J**	**0.0231**	<0.0003	<0.0003	<0.002	<0.003	<0.0003	**1.11 J-**	<0.00008	<0.002	<0.002	<0.0005	**0.485 ± 0.374 U**	**1.81 ± 0.467**	**2.3**
East Equalization Pond	EP-36	Downgradient	5/11/2017	N	**6.08**	**25.9 J**	**418**	**3650**	<0.1	**2530**	**9800**	<0.0008	**0.00228 J**	**0.0217**	<0.0003	<0.0003	<0.002	<0.003	<0.0003	**1.3**	<0.00008	<0.002	<0.002	<0.0005	**0.959 ± 0.288**	**2.67 ± 0.534**	**3.63**
East Equalization Pond	EP-36	Downgradient	7/25/2017	N	**6.2**	**22.8 J**	**416**	**3830**	<0.5	**2700**	**9220**	<0.0008	**0.00238 J**	**0.0222**	<0.0003	<0.0003	<0.002	<0.003	<0.0003	**1.01**	<0.00008	<0.002	<0.002	<0.0005	**1.03 ± 0.359**	**1.13 ± 0.544 U**	**2.16**
East Equalization Pond	EP-36	Downgradient	8/23/2017	N	**6.09**	**22.4**	**420**	**3660**	<0.5	**2520**	**10000**	<0.0008	<0.002	**0.0216**	<0.0003	<0.0003	<0.002	<0.003	<0.0003	**1.23**	<0.00008	<0.002	<0.002	<0.0005	**0.618 ± 0.288**	**1.54 ± 0.529 U**	**2.16**
East Equalization Pond	EP-36	Downgradient	3/21/2018	N	**6.31**	**21.5**	**456**	**3500 J+**	<10	**2510**	**10200**	<0.01	<0.01	**0.0305**	<0.01	<0.01	-	<0.025	<0.01	**1.45**	<0.0002 J	<0.025	<0.01	<0.01	**0.89 ± 0.36**	**2.3 ± 0.79**	**3.19**
East Equalization Pond	EP-36	Downgradient	6/7/2018	N	**6.28**	**21.5**	**435**	**3620**	**0.176**	**2580**	**10100**	<0.01	<0.01	**0.0251**	<0.1	<0.01	-	<0.025	<0.01	**1.07**	<0.0002 J	<0.025	<0.01	<0.01	**0.35 ± 0.27 U**	**3.46 ± 0.93**	**3.46**
East Equalization Pond	EP-36	Downgradient	9/6/2018	N	**6.01**	**20.3**	**475**	**3850**	<0.5	**2720**	**10300**	<0.01	<0.01	**0.0245**	<0.2	<0.01	<0.02	<0.025	<0.01	**1.11**	<0.0002 J	<0.025	<0.01	<0.01	**0.94 ± 0.51 U**	**2.7 ± 0.78 U**	**3.64 U**
East Equalization Pond	EP-36	Downgradient	2/20/2019	N	**7.25**	**33.2**	**439**	**3810**	<0.5	**2610**	**10300**	<0.0053	<0.0025	**0.0214 J**	<0.00091	<0.00077	**0.00395 J**	**0.000602 JH**	<0.0012	**1.35**	<0.00003	<0.0049	<0.0086	**0.00469 J**	**0.4 ± 0.3**	**2.26 ± 0.66**	**2.66 ± 0.96**
East Equalization Pond	EP-36	Downgradient	6/20/2019	N	**-**	**29**	**450**	**3470**	<0.1	**2490**	**9420**	<0.00265	**0.00449 J**	**0.0285**	<0.000455	<0.000385	<0.00126	**0.000605 J**	**0.00451 J**	**1.09 n**	**0.00003 U**	<0.00245	<0.0043	<0.00125	**0.74 ± 0.52**	**2.55 ± 0.73**	**3.29 ± 1.25**
East Equalization Pond	EP-36	Downgradient	8/20/2019	N	**6.01**	**26.1**	**455**	**3530**	<0.5	**2450**	**10600**	<0.0008	<0.002	**0.0238**	<0.0003	<0.0003 JH	<0.002	<0.003 JH	<0.0003 JH	**1.25**	<0.00008	<0.002	<0.002	<0.0005	**0.899 ± 0.46**	**4.03 ± 0.524 J**	**4.93 ± 0.984**
East Equalization Pond	EP-36	Downgradient	2/27/2020	N	**6.75**	**27.2**	**387**	**3960**	<0.5	**2710**	**10800**	<0.0008	<0.002	**0.0241**	<0.0003	<0.0003	<0.002	<0.003	**0.00407**	**1.19**	<0.00008	<0.002	<0.002	<0.0005	**0.837 ± 0.375**	**4.46 ± 0.418 JH**	**5.3 ± 0.793 JH**
East Equalization Pond	EP-36	Downgradient	8/6/2020	N	**5.58**	**25.7**	**462**	**3920**	<0.5	**2720**	**10600**	<0.0008	<0.002	**0.025**	<0.0003	<0.0003	<0.002	<0.003	<0.0003	**1.18**	<0.00008	<0.002	<0.002	<0.0005	**0.649 ± 0.343**	**2.92 ± 0.645**	**3.57 ± 0.988**
East Equalization Pond	EP-36	Downgradient	2/24/2021	N	**6.57**	**24.2**	**436**	**3830**	<0.5	**2490**	**10500**	<0.0008	<0.002	**0.0222**	<0.0015	<0.0003	<0.002	<0.003	**0.000386 J**	**1.17**	<0.00008	<0.002	<0.002	<0.0005	**0.686 ± 0.323**	**3.47 ± 0.385 B**	**4.15 ± 0.708 B**
East Equalization Pond	EP-36	Downgradient	8/18/2021	N	**6.22**	**40.1 B**	**596**	**3900**	<0.1	**2520**	**8700**	<0.00589	**0.00972 J**	**0.0188**	**0.0013 J**	<0.00243	<0.000811	**0.00586 J**	<0.00237	**1.22**	<0.0000263	**0.00266 J**	<0.00439	<0.00621	**65.2 ± 23.9 JH**	**15.5 ± 25.5**	**80.7 ± 49.4 JH**
East Equalization Pond	EP-36	Downgradient	2/8/2022	N	**6.24**	**28.5**	**423 B**	**3900**	**1.44 J**	**2730**	**10700**	**0.0617 J**	<0.055	**0.0152 J**	<0.0049	<0.0243	<0.00811	<0.00673	<0.0237	**1.23**	<0.0000263	<0.0123	<0.0439	<0.0621	**1.12**	**3.3 ± 0.882**	**4.42**
East Equalization Pond	EP-36	Downgradient	9/28/2022	N	**6.31**	**22.9**	**497**	**2170**	<1	**1570**	**9060**	<0.06	<0.048	**0.0394 J**	<0.0368	<0.026	<0.04	<0.0224	<0.0324	**1.1**	<0.00015	<0.052	<0.0328	<0.0184	**0.72**	**4.53 ± 0.841**	**5.25**
East Equalization Pond	EP-36	Downgradient	2/21/2023	N	**6.36**	**28.6**	**544**	**3530**	<10	**2610**	**9880**	<0.00484	<0.00141	**0.0274 J**	<0.00137	<0.00109	<0.00765	<0.00131	<0.00188	**1.18**	<0.00013	<0.00305	<0.0037	<0.00236	**0.37**	**4.27 ± 0.867**	**4.64**
East Equalization Pond	EP-36	Downgradient	9/6/2023	N	**6.19**	**31.5**	**492**	<2.5	<1	<2	**9430**	<0.0193	**0.000458 J**	**0.0226**	<0.000274	<0.000217	**0.00155 J**	<0.000261	<0.000376	**1.18**	<0.00013	<0.00061	<0.000739	<0.000472	**0.54**	**3.06**	**3.06**
East Equalization Pond	EP-36	Downgradient	2/7/2024	N	**6.59**	**36.2**	**501**	**3630**	<8	**2240 JH**	**8650**	<0.000967	**0.00038 J**	**0.023**	<0.000274	<0.000217	<0.00153	<0.000261	<0.000376	**1.17**	<0.00013	<0.00061	**0.00087 J**	<0.000472	**1.42**	**3.52 JH**	**4.94**
East Equalization Pond	EP-36	Downgradient	8/14/2024	N	**6.32**	**40.1**	**555**	**3440 JH**	<1	**2420**	**9600**	<0.0967	<0.0563	<0.314	<0.0274	<0.0217	<0.153	<0.0261	<0.0376	**1.28**	<0.00013	<0.061	<0.153	<0.0472	**0.78**	**3.76 JH**	**4.54**
East Equalization Pond	EP-37	Downgradient	5/24/2016	N	**6.56**	**7.15**	**534**	**4270**	<0.5	**3130**	**11700**	<0.004	**0.0092 J**	**0.0412 J**	<0.002	<0.002	<0.004	**0.00318 J**	<0.006	**1.46**	<0.00004	<0.006	<0.011	<0.002	**0.89 ± 0.29**	**3.67 ± 0.96**	**4.56**

APPENDIX A
Cumulative Groundwater Analytical Results for CCR Monitoring Network Wells

San Miguel Electric Cooperative, Inc.
Christine, Atascosa County, Texas

					Appendix III Constituents							Appendix IV Constituents														
				Analyte:	pH (field)	Boron	Calcium	Chloride	Fluoride*	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium	Radium-226	Radium-228	Combined Radium
				Units:	SU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pCi/L	pCi/L	pCi/L
Area	Well ID	Well Type	Sample Date	Type																						
East Equalization Pond	EP-37	Downgradient	8/18/2016	N	**6.3**	**9.47**	**479**	**4500**	<0.5	**3040**	**11300**	<0.002	**0.00233 J**	**0.0232 J**	<0.001	<0.001	<0.002	<0.001	<0.003	**1.64**	<0.00004	<0.003	<0.0055	<0.001	**0.65 ± 0.27**	**0.85 ± 0.45**	**1.5**
East Equalization Pond	EP-37	Downgradient	10/24/2016	N	**6.47**	**7.48**	**518**	**4340**	**0.528 J**	**3010**	**11300**	<0.004	<0.004	**0.0259 J**	<0.002	<0.002	<0.004	<0.002	<0.006	**1.47**	<0.00004	<0.006	<0.011	<0.002	**0.68 ± 0.29**	**1.95 ± 0.66**	**2.63**
East Equalization Pond	EP-37	Downgradient	2/16/2017	N	**6.06**	**7.52**	**540**	**4040**	<0.5 J	**2750**	**11500**	<0.0008	**0.00269 J**	**0.0263 J**	<0.0003	<0.0003	<0.002	<0.003	**0.000346 J**	**1.35**	<0.00008	<0.002	<0.002 J	<0.0005	**0.460 ± 0.294**	**3.13 ± 0.482**	**3.59**
East Equalization Pond	EP-37	Downgradient	3/22/2017	N	**6.17**	**7.69**	**481**	**4190**	<0.5	**2850**	**12500**	<0.0008	<0.002	**0.0216**	<0.0003	<0.0003	<0.002	<0.003	<0.0003	**1.14 J-**	<0.00008	<0.002	<0.002	<0.0005	**0.753 ± 0.341**	**3.61 ± 0.518**	**4.36**
East Equalization Pond	EP-37	Downgradient	5/10/2017	N	**6.34**	**7.24 J**	**500**	**4120**	<0.1	**2770**	**9840**	<0.0008	<0.002	**0.0219**	<0.0003	<0.0003	<0.002	<0.003	<0.0003	**1.37**	<0.00008	<0.002	<0.002	<0.0005	**1.09 ± 0.326**	**3.27 ± 0.409**	**4.36**
East Equalization Pond	EP-37	Downgradient	7/26/2017	N	**6.32**	**6.72 J**	**491**	**4330**	<0.5	**2990**	**9240**	<0.0008	<0.002	**0.0218**	<0.0003	<0.0003	<0.002	<0.003	<0.0003	**1.09**	<0.00008	<0.002	<0.002	<0.0005	**1.62 ± 0.499**	**2.62 ± 0.537 U**	**4.24**
East Equalization Pond	EP-37	Downgradient	8/23/2017	N	**6.23**	**6.7**	**488**	**4070**	<0.5	**2810**	**11300**	<0.0008	<0.002	**0.0213**	<0.0003	<0.0003	<0.002	<0.003	<0.0003	**1.35**	<0.00008	<0.002	<0.002	<0.0005	**0.633 ± 0.286**	**3.90 ± 0.474**	**4.53**
East Equalization Pond	EP-37	Downgradient	3/21/2018	N	**6.54**	**7.59**	**531**	**4040 J+**	<10	**2840**	**11200**	<0.01	<0.01	**0.0242**	<0.01	<0.01	-	<0.025	<0.01	**1.73**	<0.0002 J	<0.025	<0.01	<0.01	**0.63 ± 0.28**	**2.81 ± 0.89**	**3.44**
East Equalization Pond	EP-37	Downgradient	6/7/2018	N	**6.51**	**8.94**	**495**	**4280**	**0.188**	**3090**	**10900**	<0.01	<0.01	**0.0238**	<0.1	<0.01	-	<0.025	<0.01	**1.32**	<0.0002 J	<0.025	<0.01	<0.01	**0.66 ± 0.28**	**3.53 ± 0.93**	**4.19**
East Equalization Pond	EP-37	Downgradient	9/6/2018	N	**6.71**	**21**	**471**	**3410**	<0.5	**2480**	**10400**	<0.01	<0.01	**0.0251**	<0.2	<0.01	<0.02	<0.025	<0.01	**1.11**	<0.0002 J	<0.025	<0.01	<0.01	**0.57 ± 0.38 U**	**3.22 ± 0.88 U**	**3.79 U**
East Equalization Pond	EP-37	Downgradient	2/20/2019	N	**7.3**	**8.22**	**473**	**4220**	<0.5	**3000**	**11600**	<0.0053	<0.0025	**0.0221 J**	<0.00091	<0.00077	**0.0168 J**	<0.0004 JH	<0.0012	**1.41**	<0.00003	<0.0049	<0.0086	<0.00125	**0.86 ± 0.42**	<0.6 ± 0.41	**0.86 ± 0.83**
East Equalization Pond	EP-37	Downgradient	2/20/2019	Dup	**-**	**7.84**	**483**	**4210**	<0.5	**2970**	**11300**	<0.0053	<0.0025	**0.0215 J**	<0.00091	<0.00077	**0.0148 J**	<0.0004 JH	<0.0012	**1.43**	<0.00003	<0.0049	<0.0086	<0.0025	**1 ± 0.47**	**4.2 ± 1.1**	**5.2 ± 1.57**
East Equalization Pond	EP-37	Downgradient	8/21/2019	N	**6.09**	**7.36**	**495**	**3860**	<0.5	**2630**	**11200**	<0.0008	<0.002	**0.0202**	<0.0003	<0.0003 JH	<0.002	<0.003 JH	<0.0003 JH	**1.4**	<0.00008	<0.002	<0.002	<0.0005	**0.613 ± 0.389**	**3.83 ± 1.2 J**	**4.44 ± 1.59**
East Equalization Pond	EP-37	Downgradient	2/27/2020	N	**6.95**	**8.72**	**404**	**3950**	<0.5	**2760**	**11100**	<0.0008	<0.002	**0.021**	<0.0003	<0.0003	<0.002	<0.003	<0.0003	**1.29**	<0.00008	<0.002	<0.002	<0.0005	**0.488 ± 0.33 JH**	**5.48 ± 0.506 JH**	**5.97 ± 0.836 JH**
East Equalization Pond	EP-37	Downgradient	8/12/2020	N	**5.55**	**8.12**	**452**	**3910**	<0.5	**2800**	**10800**	<0.0008	<0.002	**0.0215**	<0.0003	<0.0003	<0.002	<0.003	<0.0003	**1.37**	<0.00008	<0.002	<0.002	<0.0005	**0.967 ± 0.412**	**3.75 ± 0.632 JH**	**4.72 ± 1.04 JH**
East Equalization Pond	EP-37	Downgradient	2/25/2021	N	**6.65**	**7.8**	**426**	**3750**	**2.39**	**2740**	**10300**	<0.0008	<0.002	**0.0194**	<0.0015	<0.0003	<0.002	<0.003	<0.0003	**1.3**	<0.00008	<0.002	<0.002	<0.0005	**0.798 ± 0.389**	**3.83 ± 0.687 B**	**4.63 ± 1.08 B**
East Equalization Pond	EP-37	Downgradient	8/18/2021	N	**6.36**	**7.74 B**	**557**	**3570**	<0.1	**2810**	**9110**	<0.00589	**0.0116**	**0.0246**	**0.0013 J**	<0.00243	<0.000811	**0.0056 J**	<0.00237	**1.34**	<0.0000263	**0.00387 J**	<0.00439	<0.00621	**31.3 ± 21.5**	**21.1 ± 25.6**	**52.4 ± 47.1**
East Equalization Pond	EP-37	Downgradient	2/8/2022	N	**6.46**	**7.14**	**394 B**	**3570**	<1	**2810**	**10000**	<0.0589	<0.055	<0.0135	<0.0049	<0.0243	<0.00811	<0.00673	<0.0237	**1.09**	<0.0000263	<0.0123	<0.0439	<0.0621	**1.12**	**7.11 ± 1.25**	**8.23**
East Equalization Pond	EP-37	Downgradient	9/28/2022	N	**6.36**	**6.78**	**432**	**3280**	<0.1	**2670**	**9250**	<0.0075 J	<0.006	**0.0234**	<0.0046	<0.00325	**0.0063 J**	<0.0028	<0.00405	**1.46**	**0.000726**	<0.0065	<0.0041	<0.0023	**0.58**	**3.77 ± 0.69**	**4.35**
East Equalization Pond	EP-37	Downgradient	2/21/2023	N	**6.29**	**7.74**	**472**	**3190**	<10	**5480**	**9360**	<0.00484	<0.00141	**0.0207 J**	<0.00137	<0.00109	<0.00765	<0.00131	<0.00188	**1.34**	<0.00013	<0.00305	<0.0037	<0.00236	**0.48 U**	**3.61 ± 0.757 JH**	**3.61**
East Equalization Pond	EP-37	Downgradient	9/6/2023	N	**6.15**	**8.86**	**419**	<2.5	<1	**7.78**	**9440**	<0.0193	**0.000417 J**	**0.0167**	<0.000274	<0.000217	<0.00153	<0.000261	<0.000376	**1.32**	<0.00013	<0.00061	<0.000739	<0.000472	<0.44	**3.15**	**3.15**
East Equalization Pond	EP-37	Downgradient	2/7/2024	N	**6.09**	**8.66**	**403**	**2990**	<20	**2390 JH**	**9490**	<0.000967	**0.000409 J**	**0.0177**	<0.000274	<0.000217	<0.00153	<0.000261	<0.000376	**1.23**	<0.00013	<0.00061	<0.000739	<0.000472	**2.22**	**3.63**	**5.85**
East Equalization Pond	EP-37	Downgradient	8/14/2024	N	**6.16**	**10.8**	**401**	**2920 JH**	<1	**2640**	**8930**	<0.0967	<0.0563	<0.314	**0.179**	<0.0217	<0.153	<0.0261	<0.0376	**1.29**	<0.00013	<0.061	<0.153	<0.0472	**0.99**	**3.81 JH**	**4.8**
East Equalization Pond	EP-38	Downgradient	5/25/2016	N	**5.8**	**3.82**	**337**	**1380**	<0.5	**2140**	**5800**	<0.004	**0.00733 J**	**0.0306 J**	<0.002	<0.002	<0.004	**0.00311 J**	<0.006	**0.654**	<0.00004	<0.006	<0.011	<0.002	**0.65 ± 0.24**	**1.26 ± 0.42**	**1.91**
East Equalization Pond	EP-38	Downgradient	8/18/2016	N	**5.92**	**2.71**	**307**	**1380**	<0.5	**2200**	**5420**	<0.002	**0.00205 J**	**0.0168 J**	<0.001	<0.001	<0.002	**0.00121 J**	<0.003	**0.683**	<0.00004	<0.003	<0.0055	<0.001	**0.53 ± 0.2**	**0.97 ± 0.38**	**1.5**
East Equalization Pond	EP-38	Downgradient	10/25/2016	N	**5.9**	**2.49**	**286**	**1300**	**0.521 J**	**2070**	**5420**	<0.004	<0.004	<0.019	<0.002	<0.002	<0.004	<0.002	<0.006	**0.64**	<0.00004	<0.006	<0.011	<0.002	**0.18 ± 0.13**	**0.87 ± 0.47**	**1.05**
East Equalization Pond	EP-38	Downgradient	2/15/2017	N	**5.48**	**3.06 J**	**291**	**1070**	<0.2	**1780**	**4690**	<0.0008	<0.002	**0.0147**	<0.0003	<0.0003	<0.002	<0.003	<0.0003	**0.65**	<0.00008	<0.002	<0.002	<0.0005	**0.218 ± 0.318 U**	**0.483 ± 0.461 U**	**0.701 U**
East Equalization Pond	EP-38	Downgradient	3/22/2017	N	**5.58**	**2.72**	**289**	**1180**	<0.2	**2110**	**4840**	<0.0008	<0.002	**0.0138**	<0.0003	<0.0003	<0.002	<0.003	<0.0003	**0.589 J-**	<0.00008	<0.002	<0.002	<0.0005	**1.23 ± 0.310**	**1.17 ± 0.444 U**	**2.4**
East Equalization Pond	EP-38	Downgradient	5/10/2017	N	**5.7**	**2.74 J**	**279**	**1100**	<0.1	**1780**	**7510**	<0.0008	<0.002	**0.0139**	<0.0003	<0.0003	<0.002	<0.003	<0.0003	**0.668**	<0.00008	<0.002	<0.002	<0.0005	**0.597 ± 0.292**	**0.912 ± 0.384**	**1.51**
East Equalization Pond	EP-38	Downgradient	7/27/2017	N	**5.64**	**2.61 J**	**292**	**1140**	<0.2	**2240**	**4400**	<0.0008	<0.002	**0.0131**	<0.0003	<0.0003	<0.002	<0.003	<0.0003	**0.522**	<0.00008	<0.002	<0.002	<0.0005	**0.145 ± 0.205 U**	**0.668 ± 0.472 U**	**0.813 U**
East Equalization Pond	EP-38	Downgradient	8/24/2017	N	**5.82**	**2.32**	**287**	**1130**	<0.2	**1970**	**4820**	<0.0008	<0.002	**0.0142**	<0.0003	<0.0003	<0.002	<0.003	<0.0003	**0.614**	<0.00008	<0.002	<0.002	<0.0005	**0.278 ± 0.194**	**0.656 ± 0.410 U**	**0.934**
East Equalization Pond	EP-38	Downgradient	3/20/2018	N	**5.81**	**2.42**	**239**	**1030**	<5	**1910**	**4780**	<0.01	<0.01	<0.02	<0.01	<0.01	-	<0.025	<0.01	**0.591**	<0.0002 J	<0.025	<0.01	<0.01	**0.53 ± 0.24**	**0.94 ± 0.52 U**	**0.53**
East Equalization Pond	EP-38	Downgradient	6/6/2018	N	**5.74**	**2.5**	**302**	**1170**	**0.235**	**1920**	**4780**	<0.01	<0.01	<0.02	<0.1	<0.01	-	<0.025	<0.01	**0.573**	<0.0002 J	<0.025	<0.01	<0.01	**0.71 ± 0.42**	**1.57 ± 0.53**	**2.28**
East Equalization Pond	EP-38	Downgradient	9/5/2018	N	**5.42**	**3.21**	**310**	**1130**	<0.5	**1840**	**4950**	<0.01	<0.01	<0.02	<0.01	<0.01	<0.02	<0.025	<0.01	**0.685**	<0.0002	<0.025	<0.01	<0.01	**0.61 ± 0.37 U**	**1.22 ± 0.46 U**	**1.83 U**
East Equalization Pond	EP-38	Downgradient	2/20/2019	N	**6.61**	**2.55**	**361**	**1220**	<0.5	**2050**	**5140**	<0.0053	<0.0025	**0.0164 J**	<0.00091	<0.00077	**0.0157 J**	**0.00126 J**	<0.0012	**0.767**	<0.00003	<0.0049	<0.0086	<0.00125	**0.47 ± 0.31**	**1.07 ± 0.47**	**1.54 ± 0.78**
East Equalization Pond	EP-38	Downgradient	8/21/2019	N	**5.32**	**2.25**	**369**	**1290**	<0.5	**2000**	**5380**	<0.0008	<0.002	**0.0148**	**0.000414 J**	<0.0003 JH	<0.002	<0.003 JH	<0.0003 JH	**0.694**	<0.00008	<0.002	<0.002	<0.0005	**0.341 ± 0.23**	**2.05 ± 0.451 J**	**2.39 ± 0.681**
East Equalization Pond	EP-38	Downgradient	2/27/2020	N	**5.15**	**2.15**	**358**	**1640**	<0.5	**2030**	**5720**	<0.0008	<0.002	**0.0144**	<0.0003	<0.0003	<0.002	<0.003	<0.0003 JH	**0.66**	<0.00008	<0.002	<0.002	<0.0005	**0.749 ± 0.349**	**3.83 ± 0.49 JH**	**4.57 ± 0.839 JH**
East Equalization Pond	EP-38	Downgradient	8/12/2020	N	**4.9**	**2.24**	**415**	**1540**	<0.5	**2080**	**5700**	<0.0008	<0.002	**0.0148**	**0.000333 J**	<0.0003	<0.002	<0.003	<0.0003	**0.694**	<0.00008	<0.002	<0.002	<0.0005	**0.442 ± 0.351**	**0.431 ± 0.578 JH**	**0.873 ± 0.929 JH**
East Equalization Pond	EP-38	Downgradient	2/25/2021	N	**5.87**	**2.48**	**437**	**1600**	**0.728 J**	**2070**	**5830**	<0.0008	<0.002	**0.016**	<0.0015	<0.0003	<0.002	<0.003	<0.0003	**0.718**	<0.00008	<0.01	<0.002	<0.0005	**0.521 ± 0.304**	**-1.05 ± 0.647 B**	**0.521 ± 0.951 JB**
East Equalization Pond	EP-38	Downgradient	8/18/2021	N	**5.84**	**2.4 B**	**556**	**1320**	**0.121 J**	**2300**	**5120**	<0.00589	**0.324 J**	**0.0156**	**0.00197 J**	<0.00243	<0.000811	**0.00699 J**	<0.00237	**0.693**	<0.0000263	**0.00527 J**	<0.00439	<0.00621	**31.5 ± 18.6**	**14.1 ± 23.5**	**45.6 ± 42.1**
East Equalization Pond	EP-38	Downgradient	2/8/2022	N	**5.58**	**2.42**	**344 B**	**1130**	**0.276 J**	**2280**	**4790**	<0.0589	<0.055	<0.0135	<0.0049	<0.0243	**0.00855 J**	<0.00673	<0.0237	**0.453**	<0.0000263	<0.0123	<0.0439	<0.0621	**0.44**	**1.69 ± 0.724**	**2.13**
East Equalization Pond	EP-38	Downgradient	9/28/2022	N	**5.65**	**2.09 B**	**359**	**1070**	<1	**2190**	**4740**	<0.015	<0.012	**0.0138 J**	<0.0092	<0.0065	<0.01	<0.0056	<0.0081	**0.696**	**0.000808**	<0.013	<0.0082	<0.0046	**0.13 U**	**1.74 ± 0.481**	**1.87**
East Equalization Pond	EP-38	Downgradient	2/21/2023	N	**5.62**	**2.57**	**447**	**1140**	<10	**2350**	**5110**	<0.00484	<0.00141	<0.0157	<0.00137	<0.00109	<0.00765	<0.00131	<0.00188	**0.754**	<0.00013	<0.00305	<0.0037	<0.00236	**0.69**	**1.21 ± 0.468 JH**	**1.9**
East Equalization Pond	EP-38	Downgradient	9/6/2023	N	**5.49**	**2.44**	**469**	**1050**	<0.1	**1990**	**5570**	<0.0193	**0.000582 J**	**0.0142**	<0.000274	<0.000217	<0.00153	**0.00142**	<0.000376	**0.774**	<0.00013	<0.00061	<0.000739	<0.000472	**0.91**	**1.06**	**1.97**
East Equalization Pond	EP-38	Downgradient	2/7/2024	N	**5.23**	**2.83**	**434**	**1450**	<4	**2380 JH**	**5390**	<0.000967	**0.000408 J**	**0.0145**	**0.000344 J**	<0.000217	<0.00153	**0.00136**	<0.000376	**0.719**	<0.00013	<0.00061	<0.000739	<0.000472	**1.45**	**1.45 JH**	**2.90**
East Equalization Pond	EP-38	Downgradient	8/14/2024	N	**5.7**	<6.01	**442**	**1260 JH**	<1	**2360**	**5460**	<0.0967	<0.0563	<0.314	<0.0274	<0.0217	<0.153	<0.0261	<0.0376	**0.843**	<0.00013	<0.061	<0.153	<0.0472	**0.9**	**1.21 JH**	**2.11**
East Equalization Pond	MW-04	Downgradient	5/25/2016	N	**6.13**	**11**	**314**	**2050**	<0.5	**2510**	**7200**	<0.004	**0.00415 J**	<0.019	<0.002	<0.002	<0.004	<0.002	<0.006	**0.734**	<0.00004	<0.006	<0.011	<0.002	**0.85 ± 0.3**	**2.02 ± 0.58**	**2.87**
East Equalization Pond	MW-04	Downgradient	8/18/2016	N	**6.29**	**11.7**	**303**	**2190**	<0.5	**2550**	**7280**	<0.002	<0.002	**0.0118 J**	<0.001	<0.001	<0.002	<0.001	<0.003	**0.767**	<0.00004	<0.003	<0.0055	<0.001	**0.78 ± 0.27**	**2.04 ± 0.6**	**2.82**
East Equalization Pond	MW-04	Downgradient	10/24/2016	N	**6.32**	**10.8**	**366**	**2130**	**0.541 J**	**2520**	**6920**	<0.004	<0.004	<0.019	<0.002	<0.002	<0.004	<0.002	<0.006	**0.795**	<0.00004	<0.006	<0.011	<0.002	**0.44 ± 0.21**	**1.81 ± 0.64**	**2.25**
East Equalization Pond	MW-04	Downgradient	2/15/2017	N	**5.85**	**10.6 J**	**325**	**1940**	<0.2	**2290**	**6730**	<0.0008	<0.002	**0.0132**	<0.0003	<0.0003	<0.002	<0.003	<0.0003	**0.752**	<0.00008	<0.002	<0.002	<0.0005	**0.350 ± 0.271 U**	**2.05 ± 0.476**	**2.4**
East Equalization Pond	MW-04	Downgradient	3/23/2017	N	**5.85**	**9.72**	**296**	**1930**	<0.2	**2460**	**5850**	<0.0008	<0.002	**0.0125**	<0.0003	<0.0003	<0.002	<0.003	<0.0003	**0.683 J-**	<0.00008	<0.002	<0.002	<0.0005	**0.602 ± 0.227 U**	**0.743 ± 0.546 U**	**1.35 U**
East Equalization Pond	MW-04	Downgradient	5/10/2017	N	**6.1**	**10.7 J**	**327**	**1770**	<0.1	**2130**	**4500**	<0.0008	<0.002	**0.0124**	<0.0003	<0.0003	<0.002	<0.003	<0.0003	**0.832**	<0.00008	<0.002	<0.002	<0.0005	**1.12 ± 0.349**	**1.87 ± 0.513**	**2.99**
East Equalization Pond	MW-04	Downgradient	7/27/2017	N	**6.06**	**10.7 J**	**314**	**1740**	<0.1	**2650**	**4860**	<0.0008	<0.002	**0.0119**	<0.0003	<0.0003	<0.002	<0.003	<0.0003	**0.613 J-**	<0.00008	<0.002	<0.002	<0.0005	**0.447 ± 0.273**	**1.72 ± 0.485 U**	**2.17**
East Equalization Pond	MW-04	Downgradient	8/24/2017	N	**6.22**	**9.15**	**297**	**1810**	<0.2	**2310**	**6460**	<0.0008	<0.002	**0.0136**	<0.0003	<0.0003	<0.002	<0.003	<0.0003	**0.709**	<0.00008	<0.002	<0.002	<0.0005	**0.471 ± 0.259**	**1.13 ± 0.493 U**	**1.6**
East Equalization Pond	MW-04	Downgradient	3/20/2018	N	**6.3**	**8.91**	**278**	**1650**	<5	**2250**	**5940**	<0.01	<0.01	<0.02	<0.02	<0.01	-	<0.025	<0.02	**0.663**	<0.0002 J	<0.025	<0.01	<0.01	**0.34 ± 0.23**	**1.84 ± 0.66**	**2.18**
East Equalization Pond	MW-04	Downgradient	6/6/2018	N	**6.2**	**8.17**	**297**	**1830**	**0.132**	**2440**	**6150**	<0.01	<0.01	<0.02	<0.1	<0.01	-	<0.025	<0.01	**0.619**	<0.0002 J	<0.025	<0.01 J	<0.01	**0.44 ± 0.25 U**	**2.9 ± 0.8**	**3.34**
East Equalization Pond	MW-04	Downgradient	6/6/2018	Dup	**-**	**7.82**	**301**	**1780**	**0.128**	**2380**	**6120**	<0.01	<0.01	<0.02	<0.1	<0.01	-	<0.025	<0.01	**0.632**	**0.00181 J-**	<0.025	**0.0109 J**	<0.01	**0.51 ± 0.28 U**	**3.8 ± 1**	**4.31**
East Equalization Pond	MW-04	Downgradient	9/5/2018	N	**5.9**	**8.82**	**309**	**1570**	<0.5	**2110**	**6460**	<0.01	<0.01	<0.02	<0.01	<0.01	<0.02	<0.025	<0.01	**0.737**	<0.0002 J	<0.025	<0.01	<0.01	**0.42 ± 0.29 U**	**1.92 ± 0.61 U**	**1.92 U**
East Equalization Pond	MW-04	Downgradient	2/20/2019	N	**7.48**	**9.32**	**315**	**1810**	<0.5	**2480**	**6360**	<0.0053	<0.0025	**0.0137 J**	<0.00091	<0.00077	**0.00329 J**	**0.000533 JH**	**0.00143 J**	**0.787**	<0.00003	<0.0049	<0.0086	<0.00125	**0.32 ± 0.22**	**2.56 ± 0.74**	**2.88 ± 0.96**
East Equalization Pond	MW-04	Downgradient	8/21/2019	N	**5.85**	**7.64**	**344**	**1740**	<0.5	**2180**	**6440**	<0.0008	<0.002	**0.0142**	**0.000705 J**	**0.000578 JH**	<0.002	<0.003 JH	**0.00069 JH**	**0.748**	<0.00008	<0.002	<0.002	**0.000641 J**	**0.629 ± 0.316**	**2.8 ± 0.509 J**	**3.42 ± 0.825**
East Equalization Pond	MW-04	Downgradient	2/27/2020	N	**5.64**	**8.7**	**289**	**1900**	<0.5	**2320**	**6540**	<0.0008	<0.002	**0.0116**	<0.0003	<0.0003	<0.002	<0.003	<0.0003 JH	**0.709**	<0.00008	<0.002	<0.002	<0.0005	**0.633 ± 0.37**	**3.71 ± 0.443 JH**	**4.35 ± 0.813 JH**
East Equalization Pond	MW-04	Downgradient	8/12/2020	N	**5.42**	**8.42**	**320**	**1790**	<0.5	**2280**	**6430**	<0.0008	<0.002	**0.0131**	<0.0003	<0.0003	<0.002	<0.003	<0.0003	**0.735**	<0.00008	<0.002	<0.002	<0.0005	**1.14 ± 0.467**	**1.14 ± 0.607 JH**	**2.28 ± 1.07 JH**
East Equalization Pond	MW-04	Downgradient	2/25/2021	N	**6.46**	**8.63**	**326**	**1920**	**1.32 J**	**2330**	**6610**	<0.0008	<0.002	**0.0151**	<0.0015	<0.0003	<0.002	<0.003	**0.000806 J**	**0.766**	<0.00008	<0.01	<0.002	<0.0005	**0.545 ± 0.298**	**4.96 ± 0.586 B**	**5.5 ± 0.884 B**
East Equalization Pond	MW-04	Downgradient	8/18/2021	N	**6.22**	**8.62 B**	**445**	**1690**	**0.122 J**	**2400**	**6220**	<0.00589	<0.0055	**0.017 JH**	**0.00138 J**	<0.00243	<0.000811	**0.00357 JH**	<0.00237	**0.789**	<0.0000263	**0.00337 J**	<0.00439	<0.00621	**36 ± 19.3 JH**	**17.5 ± 28.3**	**53.5 ± 47.6 JH**
East Equalization Pond	MW-04	Downgradient	2/8/2022	N	**6.15**	**7.31**	**285 B**	**1710**	**0.215 JH**	**2550**	**7300**	<0.0589	<0.055	<0.0135	<0.0049	<0.0243	<0.00811	<0.00673	<0.0237	**0.663**	<0.0000263	<0.0123	<0.0439	<0.0621	**0.86**	**3.06 ± 0.846**	**3.92**
East Equalization Pond	MW-04	Downgradient	9/28/2022	N	**6.2**	**8.78**	**299**	**1570**	<1	**2310**	**5660**	<0.0075 J	<0.006	<0.0035	<0.0046	<0.00325	**0.00565 J**	<0.0028	<0.00405	**0.771**	<0.00015	<0.0065	**0.00858**	<0.0023	**0.39**	**2.58 ± 0.592**	**2.97**
East Equalization Pond	MW-04	Downgradient	2/21/2023	N	**6.14**	**12.4**	**356**	**1620**	<10	**2330**	**5940**	<0.00484	<0.00141	<0.0157	<0.00137	<0.00109	<0.00765	<0.00131	<0.00188	**0.775**	<0.00013	<0.00305	<0.0037	<0.00236	**0.7**	**2.14 ± 0.616 JH**	**2.84**
East Equalization Pond	MW-04	Downgradient	9/6/2023	N	**6.01**	**11.6**	**321**	**1400**	<0.1	**2040**	**6330**	<0.0193	**0.000616 J**	**0.0123**	<0.000274	<0.000217	<0.00153	**0.000834**	<0.000376	**0.695**	<0.00013	**0.00226 J**	<0.000739	<0.000472	<0.15	**2.45**	**2.45**
East Equalization Pond	MW-04	Downgradient	2/7/2024	N	**5.99**	**7.71**	**316**	**1650**	<8	**2160 JL**	**5930**	<0.000967	<0.000282	**0.0112**	<0.000274	<0.000217	<0.00153	**0.000651**	<0.000376	**0.662**	<0.00013	**0.00267 J**	<0.000739	<0.000472	<0.39	**2.09**	**2.09**
East Equalization Pond	MW-04	Downgradient	8/14/2024	N	**6.2**	**12.7**	**320**	**1580 JH**	<1	**2240**	**5530**	<0.0967	<0.0563	<0.314	<0.0274	<0.0217	<0.153	<0.0261	<0.0376	**0.81**	<0.00013	<0.061	<0.153	<0.0472	<0.18	**8.14**	**8.14**

Notes:
1. This table includes cumulative groundwater monitoring results (Appendix III and IV) from all CCR groundwater monitoring network wells.
2. Fluoride is included in both Appendix III and Appendix IV analyte lists.
3. TDS = Total Dissolved Solids; mg/L = milligrams per liter; SU = standard units; SDL = sample detection limit; RL = reporting limit.
4. N = normal sample; Dup = field duplicate; "U or <" = not detected at the SDL; J = analyte detected between the SDL and RL.
5. B = analyte detetced in method blank; JH or J+ = estimated result is biased high; JL or J- = estimated result is biased low; UJ = analyte was analyzed for but was not detected above the reported SDL, the associated value is an estimate and may be inaccurate or imprecise; Dash ("-") = not available or not applicable.
6. ^2 = calibration blank is outside acceptance limits; E = result exceeded calibration range; G = sample minimum detectable concentration is greater than the requested RL; F1 = MS and/or MSD recovery exceeds control limits.

Job No. 5076
Issued: 31 January 2025

2024 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

San Miguel Electric Cooperative, Inc.
Christine, Atascosa County, Texas

Appendix B. Data Usability Summaries and Laboratory Analytical Reports

Appendix B.1 Data Usability Summaries – February 2024

Appendix B.2 Data Usability Summaries – August 2024

Appendix B.3 Laboratory NELAP Accreditation

Job No. 5076
Issued: 31 January 2025

2024 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

San Miguel Electric Cooperative, Inc.
Christine, Atascosa County, Texas

Appendix B.1 Data Usability Summaries – February 2024

GSI ENVIRONMENTAL

DATA USABILITY SUMMARY

February 2024 Sampling Event (Job ID: 860-67554-1)

OVERVIEW

GSI Environmental Inc. (GSI) reviewed one data package from Eurofins Houston located in Stafford, Texas (EET HOU) for the analysis of **seven groundwater samples collected at the Ash Pile on 7 February 2024**[1] at the San Miguel Electric Cooperative, Inc., Christine, Atascosa County, Texas site. Data were reviewed for i) conformance to the requirements of the guidance document *Review and Reporting of COC Concentration Data* (RG-366/TRRP-13) and ii) adherence to project objectives (e.g., GSI 2019). The alkalinity and total dissolved solids analyses were conducted by EET HOU, while the metals analyses were conducted by the Eurofins Pittsburgh, Pennsylvania (EET PIT) laboratory and the anions analyses were conducted by the Eurofins Savannah, Georgia (EET SAV) laboratory. GSI certifies that at the time the laboratory data were generated for the project, EET HOU, EET PIT and EET SAV were National Environmental Laboratory Accreditation Program (NELAP)-accredited under the Texas Laboratory Accreditation Program (Certification Number: T104704215, T104704528 and T1047004185 respectively) for the matrices, analytes, and methods of analysis requested on the chain-of-custody documentation. A copy of EET HOU, EET PIT and EET SAV's NELAP certificates applicable to the period during which the laboratory generated the data in this report is included as Attachment A. No radiochemistry analyses were performed because the Ash Pile is in detection monitoring.

Intended Use of Data

Samples were collected to provide current data on groundwater conditions at the test location. Analyses requested included:

- Method 6020A - Metals (Inductively Coupled Plasma (ICP)/Mass Spectrometry)
- Method 300.0 – Anions, Ion Chromatography
- Method SM2320B - Alkalinity
- Method SM2540C - Total Dissolved Solids (TDS)

Data were reviewed and validated, as described in *Review and Reporting of COC Concentration Data* (RG-366/TRRP-13), and the results are discussed in this Data Usability Summary (DUS). The following laboratory submittals and field data were examined:

- the reportable data (i.e., results provided in the laboratory data package),
- the laboratory review checklists and associated exception reports, and
- the field notes with respect to field instrument calibrations, filtering procedures (if applicable), and sampling procedures.

[1] Five samples plus one field duplicate and one field blank.

The results of supporting quality control (QC) analyses were summarized in the laboratory case narrative (LCN), which was included in this review. The case narrative and reportable data included in this review are attached to this DUS as Attachment B.

INTRODUCTION

Seven (7) water samples were submitted to the laboratory, and all requested analyses were completed. Table 1 lists the sample identifications cross-referenced to laboratory identifications.

PROJECT MEASUREMENT QUALITY OBJECTIVES

The following criteria were used in this review:

	MS/MSD		**LCS/LCSD**		**Lab Dup**	**Field Precision**
Analytes	% R	RPD	% R	RPD	RPD	RPD
Metals	75 – 125	20	80 – 120	-	-	≤ 30%
Inorganic Anions	80 – 120	15	90 – 110	15	-	≤ 30%
Alkalinity	-	-	85 – 115	20	20	≤ 30%
Total Dissolved Solids (TDS)	-	-	80 – 120	10	-	≤ 30%

DATA REVIEW / VALIDATION RESULTS

Analytical Results

Results from these samples may be considered usable with the limitations and exceptions described in this section. Sample data qualified as a result of this DUS, if any, are listed in Table 3. Non-detected results are reported as less than the value of the method detection limit (MDL). Results between the MDL and reporting (RL) are J-flagged.

Finding: All requested analyses were completed, and results were reported as requested.

Preservation and Holding Times

The samples were evaluated for agreement with the chain-of-custody (C-O-C). The samples were received by the laboratory in the appropriate containers and in good condition, with proper completion of the C-O-C documentation. Samples receipt temperature was within the acceptance criteria, and field preservation was done as specified in the Sampling and Analysis Plan [SAP] (GSI, 2019). Samples were prepared and analyzed within method-specified holding times, with exceptions noted below. Items related to the C-O-C are also listed below.

- The sample identified as DUP-01 on the C-O-C is a field duplicate of sample SP-02.

Items related to sample preparation are listed below.

- Samples SP-01, SP-34 and DUP-01 by Method 300.0 were diluted to bring the concentration of target analytes within the calibration range. Elevated RLs are provided.

- Samples SP-01, SP-02, SP-03, SP-32, SP-34, DUP-01, and FB-01 by Method 6020A were diluted to bring the concentration of target analytes within the calibration range. Elevated RLs are provided.

Finding: No qualifiers were added per this evaluation.

Calibrations

The following issues were noted with the laboratory calibrations:

- The continuing calibration verification (CCV 680-824755/48) fails high for chloride at 114%. The batch matrix spike/matrix spike duplicate recoveries were within acceptable limits and may be used to evaluate matrix performance.

Finding: No qualifiers were added per this evaluation.

Blanks

Method (Laboratory) Blanks

The following issues were noted with the laboratory blanks:

- For Method SM2320B, the instrument blank for analytical batch 860-145687 contained Total Alkalinity greater than the MDL, and were not reanalyzed because associated sample results were greater than 10X the value found in the instrument blank/CCB. No qualifiers were added as part of this data review.
- For Method SM2320B, the instrument blank for analytical batch 860-145982 contained Total Alkalinity greater than the MDL, and were not reanalyzed because associated sample results were greater than 10X the value found in the instrument blank/CCB. No qualifiers were added as part of this data review.

Field Blanks

The following issues were noted with the blank collected in the field:

- Sulfate, Chloride, Calcium, Sodium, Magnesium, Alkalinity and TDS were detected in the Field Blank at concentrations above the MDL. The field blank sample (FB-01) consists of distilled water that is exposed to ambient air on the day of sample collection. All field samples collected contained concentrations of Sulfate, Chloride, Calcium, Sodium, Magnesium and TDS that were greater than 5X the associated field blank concentration and did not require qualifiers. Samples SP-02 and DUP-01 contained concentrations of Total Alkalinity and Bicarbonate Alkalinity as CaCO3 within 5X the associated field blank concentration and were qualified.

Finding: “JH” flags were added to the Total Alkalinity and Bicarbonate Alkalinity as CaCO3 results for samples SP-02 and DUP-01 per this evaluation.

Internal Standard and Surrogate Recoveries (VOCs and SVOCs Only)

Not applicable.

Laboratory Control Samples

The following issues were noted with the Laboratory Control Sample (LCS)/Laboratory Control Sample Duplicate (LCSD) recoveries:

- For Method 300.0, the LCS/LCD recoveries associated with analytical batch 680-824755 were outside acceptance criteria for Fluoride (LCS/LCSD) and Chloride (LCS/LCSD). Recoveries of Fluoride in the LCS/LCSD samples were 113%, above the desired range of 90-110%. Recoveries of Chloride in the LCS/LCSD samples were 112%, above the desired range of 90-110%. The batch matrix spike/matrix spike duplicate recoveries were within acceptable limits and may be used to evaluate matrix performance.

Finding: No qualifiers were added per this evaluation.

Matrix Spike/Matrix Spike Duplicates and Laboratory Duplicates

The LCN and lab report indicated the following issues with matrix spike (MS)/matrix spike duplicate (MSD) data:

- The recoveries for analytical batch 459868 and preparation batch 459508 analyzed using sample SP-34 were outside control limits for Boron (MS), Calcium (MS/MSD), and Sodium (MS/MSD). Recoveries of Boron in the MS sample was 50%, below the desired range of 75-125%. Recoveries of Calcium in the MS/MSD samples were 214% and 134%, respectively, above the desired range of 75-125%. Recoveries of Sodium in the MS/MSD samples were 266% and 217%, respectively, above the desired range of 75-125%. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample/laboratory control sample duplicate (LCS/LCSD) recoveries were within acceptance limits. In addition, the spiking amounts were less than 4 times the result in the unspiked parent sample. As a result, no additional qualifiers were added as part of this evaluation.

Finding: No qualifiers were added per this evaluation.

Field Duplicates (Field Precision)

One field duplicate, identified as DUP-01, was collected with sample SP-02. Results indicate that, RPDs between the parent and duplicate sample results were less than the TCEQ-recommended maximum of 40% (organics) or 30% (metals) for concentrations greater than five times the MQL, or the difference between concentrations was less than twice the MQL for analytes with concentrations less than five times the MQL for the majority of analyses. The RPD of Sulfate in samples SP-02 and DUP-01 was greater than 30%, the results have been qualified. A comparison of the field sample and the duplicate sample are shown in Table 2.

Finding: "J" flags were added to the Sulfate results for samples SP-02 and DUP-01 per this evaluation.

Field Procedures

Sample collection and documentation was done in accordance with the Groundwater Sampling and Analysis Plan (SAP; GSI, 2019).

Finding: Field activities were consistent with the SAP.

SUMMARY

The analytical data are usable for the purpose of characterizing groundwater conditions. In addition, qualifiers were added based on this review and evaluation (see Table 3).

REFERENCES

GSI Environmental, Inc., 2019, Groundwater Sampling and Analysis Plan, San Miguel Electric Cooperative, Inc., December 26.

TCEQ 2010. Review and Reporting of COC Concentration Data under TRRP, RG-366/TRRP-13 https://www.tceq.texas.gov/assets/public/comm_exec/pubs/rg/rg-366-trrp-13.pdf

TABLES

TABLE 1
Cross-Reference Field Sample and Laboratory Identifications

Sample Date	Lab	Lab Sample ID	Field Sample ID	Matrix
02/07/2024	EET HOU/EET PIT/EET SAV	860-67554-1	SP-01	Water
02/07/2024	EET HOU/EET PIT/EET SAV	860-67554-2	SP-02	Water
02/07/2024	EET HOU/EET PIT/EET SAV	860-67554-3	SP-03	Water
02/07/2024	EET HOU/EET PIT/EET SAV	860-67554-4	SP-32	Water
02/07/2024	EET HOU/EET PIT/EET SAV	860-67554-5	Sp-34	Water
02/07/2024	EET HOU/EET PIT/EET SAV	860-67554-6	DUP-01	Water
02/07/2024	EET HOU/EET PIT/EET SAV	860-67554-7	FB-01	Water

Notes:
1. EET HOU: Eurofins Houston, Stafford, Texas; EET PIT: Eurofins Pittsburgh, Pittsburgh, Pennsylvania; EET SAV: Eurofins Savannah, Savannah, Georgia

TABLE 2
Field Duplicate Detections

Analyte	MDL (mg/L)	Primary Sample Result (mg/L)	Field Duplicate Result (mg/L)	Relative Percent Difference (RPD)
Sulfate	400	2630	1890	32.7
Fluoride	40.0	0	0	0.0
Chloride	200	4060	3040	28.7
Boron	3.01	12.9	13.5	4.5
Calcium	6.35	950	965	1.6
Sodium	9.20	1910	1940	1.6
Magnesium	0.0498	38.7	38.4	0.8
Total Alkalinity	4.00	55.8	57.5	3.0
Bicarbonate Alkalinity as CaCO3	4.00	56.9	57.5	1.0
Total Dissolved Solids	100	0	0	0.9

Notes:
1. MDL: Method Detection Limit
2. mg/L: milligrams per liter
3. RPD = ABS(PR-FD)/AVERAGE(PR+FD)*100), where PR is the Primary Sample and FD is the Field Duplicate, where the MDL is substituted for results below detection.
4. U = analyte not detected at the stated limit
5. CaCO3: Calcium carbonate

TABLE 3
Qualifiers Added During Data Usability Review

Sample ID	Analyte	Lab Result	Unit	DUS Qualifier or Bias Code	Reason for Qualification	Analysis Batch Number	Report Number
SP-02	Total Alkalinity	55.8	mg/L	JH	<5X field blank results	145982	860-67554-1
SP-02	Bicarbonate Alkalinity as CaCO3	56.9	mg/L	JH	<5X field blank results	145982	860-67554-1
DUP-01	Total Alkalinity	57.5	mg/L	JH	<5X field blank results	145982	860-67554-1
DUP-01	Bicarbonate Alkalinity as CaCO3	57.5	mg/L	JH	<5X field blank results	145982	860-67554-1
SP-02	Sulfate	2630	mg/L	J	FD RPD > 30%	824755	860-67554-1
DUP-01	Sulfate	1890	mg/L	J	FD RPD > 30%	824545	860-67554-1

Notes:
1. mg/L: milligrams per liter.
2. JH: estimated value, biased high; J: estimated value.
3. LCS/LCSD: laboratory control sample/laboratory control sample duplicate.
4. FD RPD: field duplicate relative percent difference

Attachment A

TCEQ NELAP-Recognized Laboratory Accreditation Certificates

Texas Commission on Environmental Quality

NELAP-Recognized Laboratory Accreditation is hereby awarded to

Eurofins Houston

4147 Greenbriar Dr.
Stafford, TX 77477

in accordance with Texas Water Code Chapter 5, Subchapter R, Title 30 Texas Administrative Code Chapter 25, and the National Environmental Laboratory Accreditation Program.

The laboratory's scope of accreditation includes the fields of accreditation that accompany this certificate. Continued accreditation depends upon successful ongoing participation in the program. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current location(s) and accreditation status for particular methods and analyses (www.tceq.texas.gov/goto/lab). Accreditation does not imply that a product, process, system or person is approved by the Texas Commission on Environmental Quality.

Certificate Number: T104704215-23-53
Effective Date: 8/31/2023
Expiration Date: 6/30/2024

Executive Director Texas Commission on Environmental Quality

Texas Commission on Environmental Quality

NELAP-Recognized Laboratory Accreditation is hereby awarded to

Eurofins Pittsburgh

301 Alpha Drive
Pittsburgh, PA 15238-2907

in accordance with Texas Water Code Chapter 5, Subchapter R, Title 30 Texas Administrative Code Chapter 25, and the National Environmental Laboratory Accreditation Program.

The laboratory's scope of accreditation includes the fields of accreditation that accompany this certificate. Continued accreditation depends upon successful ongoing participation in the program. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current location(s) and accreditation status for particular methods and analyses (www.tceq.texas.gov/goto/lab). Accreditation does not imply that a product, process, system or person is approved by the Texas Commission on Environmental Quality.

Erin E. Chancellor

Executive Director Texas Commission on Environmental Quality

Certificate Number: T104704528-23-12
Effective Date: 4/1/2023
Expiration Date: 3/31/2024

Texas Commission on Environmental Quality

NELAP-Recognized Laboratory Accreditation is hereby awarded to

Eurofins Savannah

5102 LaRoche Avenue
Savannah, GA 31404-6019

in accordance with Texas Water Code Chapter 5, Subchapter R, Title 30 Texas Administrative Code Chapter 25, and the National Environmental Laboratory Accreditation Program.

The laboratory's scope of accreditation includes the fields of accreditation that accompany this certificate. Continued accreditation depends upon successful ongoing participation in the program. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current location(s) and accreditation status for particular methods and analyses (www.tceq.texas.gov/goto/lab). Accreditation does not imply that a product, process, system or person is approved by the Texas Commission on Environmental Quality.

Certificate Number: T104704185-23-22
Effective Date: 12/1/2023
Expiration Date: 11/30/2024

Executive Director Texas Commission on Environmental Quality

Attachment B

Eurofins Houston – Stafford, Texas

Analytical Report

Job ID.: 860-67554-1

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mike Schofield
GSI Environmental Inc
9600 Great Hills Trail
Suite 350E
Austin, Texas 78759

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JOB DESCRIPTION

Ash Pile

JOB NUMBER

860-67554-1

Eurofins Houston
4145 Greenbriar Dr
Stafford TX 77477

See page two for job notes and contact information.

my EOL

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.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

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Authorized for release by
Sachin Kudchadkar, Senior Project Manager
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(281)748-9025

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Qualifiers

HPLC/IC

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
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.

General Chemistry

Qualifier	Qualifier Description
^2	Calibration Blank (ICB and/or CCB) is outside acceptance limits.
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.
¤	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)
TNTC	Too Numerous To Count

Job Narrative
860-67554-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 2/8/2024 10:24 AM. 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 time was 1.7°C.

HPLC/IC
Method 300_ORGFM_28D: The following samples were diluted to bring the concentration of target analytes within the calibration range: SP-01 (860-67554-1), SP-34 (860-67554-5) and DUP-01 (860-67554-6). Elevated reporting limits (RLs) are provided.

Method 300_ORGFM_28D: The laboratory control sample and laboratory control sample duplicate (LCS/LCSD) associated with analytical batch 680-824755 was outside acceptance criteria for chloride and sulfate. The data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 300_ORGFM_28D: CCV fails high for chloride at 114%. Data has been reported.

(CCV 680-824755/48)

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

Metals
Method 6020A - Total Recoverable: The post digestion spike % recovery for Boron associated with batch 180-459868 was outside of control limits. The associated sample is: (860-67554-A-5-A PDS ^50).

Method 6020A - Total Recoverable: The following samples were diluted to bring the concentration of target analytes within the calibration range: SP-01 (860-67554-1), SP-02 (860-67554-2), SP-03 (860-67554-3), SP-32 (860-67554-4), SP-34 (860-67554-5), DUP-01 (860-67554-6) and FB-01 (860-67554-7). Elevated reporting limits (RLs) are provided.

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

General Chemistry
Method 2320B: The instrument blank for analytical batch 860-145687 contained Total Alkalinity greater than the reporting limit (RL), and were not reanalyzed because sample results are 10x the blank or have a 0.00 result. The data have been qualified and reported.

Method 2320B: The instrument blank for analytical batch 860-145982 contained Total Alkalinity greater than the reporting limit (RL), and were not reanalyzed because result is ND or 10x higher than the blank. The data have been qualified and reported.

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

Detection Summary

Client: GSI Environmental Inc
Project/Site: Ash Pile

Job ID: 860-67554-1

Client Sample ID: SP-01 — Lab Sample ID: 860-67554-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	5490		500	200	mg/L	500		300.0-1993 R2.1	Total/NA
Chloride	3230		250	100	mg/L	500		300.0-1993 R2.1	Total/NA
Boron	8.76		1.60	1.20	mg/L	20		EPA 6020A	Total Recoverable
Calcium	737		10.0	2.54	mg/L	20		EPA 6020A	Total Recoverable
Sodium	2740		10.0	3.68	mg/L	20		EPA 6020A	Total Recoverable
Magnesium	225		0.500	0.0498	mg/L	1		EPA 6020A	Total Recoverable
Total Dissolved Solids	15400		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SP-02 — Lab Sample ID: 860-67554-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	2630		1000	400	mg/L	1000		300.0-1993 R2.1	Total/NA
Chloride	4060	*+	500	200	mg/L	1000		300.0-1993 R2.1	Total/NA
Boron	12.9		4.00	3.01	mg/L	50		EPA 6020A	Total Recoverable
Calcium	950		25.0	6.35	mg/L	50		EPA 6020A	Total Recoverable
Sodium	1910		25.0	9.20	mg/L	50		EPA 6020A	Total Recoverable
Magnesium	38.7		0.500	0.0498	mg/L	1		EPA 6020A	Total Recoverable
Total Alkalinity	55.8	^2	4.00	4.00	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	56.9		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	8470		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SP-03 — Lab Sample ID: 860-67554-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	2890		1000	400	mg/L	1000		300.0-1993 R2.1	Total/NA
Chloride	5250	*+	500	200	mg/L	1000		300.0-1993 R2.1	Total/NA
Boron	7.91		1.60	1.20	mg/L	20		EPA 6020A	Total Recoverable
Calcium	927		10.0	2.54	mg/L	20		EPA 6020A	Total Recoverable
Sodium	3060		10.0	3.68	mg/L	20		EPA 6020A	Total Recoverable
Magnesium	99.2		0.500	0.0498	mg/L	1		EPA 6020A	Total Recoverable
Total Dissolved Solids	12200		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SP-32 — Lab Sample ID: 860-67554-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	5190		200	80.0	mg/L	200		300.0-1993 R2.1	Total/NA
Chloride	1900	*+	100	40.0	mg/L	200		300.0-1993 R2.1	Total/NA
Boron	13.5		4.00	3.01	mg/L	50		EPA 6020A	Total Recoverable
Calcium	567		0.500	0.127	mg/L	1		EPA 6020A	Total Recoverable
Sodium	2340		25.0	9.20	mg/L	50		EPA 6020A	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: SP-32 (Continued) — Lab Sample ID: 860-67554-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	142		0.500	0.0498	mg/L	1		EPA 6020A	Total Recoverable
Total Dissolved Solids	11000		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SP-34 — Lab Sample ID: 860-67554-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	2530		500	200	mg/L	500		300.0-1993 R2.1	Total/NA
Chloride	2810		250	100	mg/L	500		300.0-1993 R2.1	Total/NA
Boron	12.0		4.00	3.01	mg/L	50		EPA 6020A	Total Recoverable
Calcium	842		25.0	6.35	mg/L	50		EPA 6020A	Total Recoverable
Sodium	1820		25.0	9.20	mg/L	50		EPA 6020A	Total Recoverable
Magnesium	89.8		0.500	0.0498	mg/L	1		EPA 6020A	Total Recoverable
Total Dissolved Solids	9700		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: DUP-01 — Lab Sample ID: 860-67554-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	1890		250	100	mg/L	250		300.0-1993 R2.1	Total/NA
Chloride	3040		125	50.0	mg/L	250		300.0-1993 R2.1	Total/NA
Boron	13.5		4.00	3.01	mg/L	50		EPA 6020A	Total Recoverable
Calcium	965		25.0	6.35	mg/L	50		EPA 6020A	Total Recoverable
Sodium	1940		25.0	9.20	mg/L	50		EPA 6020A	Total Recoverable
Magnesium	38.4		0.500	0.0498	mg/L	1		EPA 6020A	Total Recoverable
Total Alkalinity	57.5		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	57.5		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	8930		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: FB-01 — Lab Sample ID: 860-67554-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	2.63		1.00	0.400	mg/L	1		300.0-1993 R2.1	Total/NA
Chloride	8.27		0.500	0.200	mg/L	1		300.0-1993 R2.1	Total/NA
Calcium	0.688		0.500	0.127	mg/L	1		EPA 6020A	Total Recoverable
Sodium	4.10		2.50	0.920	mg/L	5		EPA 6020A	Total Recoverable
Magnesium	0.0882	J	0.500	0.0498	mg/L	1		EPA 6020A	Total Recoverable
Total Alkalinity	21.5		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	21.5		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	23.0		5.00	5.00	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SP-01

Lab Sample ID: 860-67554-1

Date Collected: 02/07/24 10:10

Matrix: Water

Date Received: 02/08/24 10:24

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**5490**		500	200	mg/L			02/26/24 17:39	500
Fluoride	20.0	U	50.0	20.0	mg/L			02/26/24 17:39	500
Chloride	**3230**		250	100	mg/L			02/26/24 17:39	500

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**8.76**		1.60	1.20	mg/L		02/13/24 11:40	02/15/24 12:45	20
Calcium	**737**		10.0	2.54	mg/L		02/13/24 11:40	02/15/24 12:45	20
Sodium	**2740**		10.0	3.68	mg/L		02/13/24 11:40	02/15/24 12:45	20
Magnesium	**225**		0.500	0.0498	mg/L		02/13/24 11:40	02/14/24 13:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/16/24 05:46	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/16/24 05:46	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/16/24 05:46	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/16/24 05:46	1
Total Dissolved Solids (SM 2540C)	**15400**		100	100	mg/L			02/13/24 11:51	1

Client Sample ID: SP-02

Lab Sample ID: 860-67554-2

Date Collected: 02/07/24 10:35

Matrix: Water

Date Received: 02/08/24 10:24

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**2630**		1000	400	mg/L			02/27/24 18:32	1000
Fluoride	40.0	U *+	100	40.0	mg/L			02/27/24 18:32	1000
Chloride	**4060**	*+	500	200	mg/L			02/27/24 18:32	1000

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**12.9**		4.00	3.01	mg/L		02/13/24 11:40	02/15/24 12:59	50
Calcium	**950**		25.0	6.35	mg/L		02/13/24 11:40	02/15/24 12:59	50
Sodium	**1910**		25.0	9.20	mg/L		02/13/24 11:40	02/15/24 12:59	50
Magnesium	**38.7**		0.500	0.0498	mg/L		02/13/24 11:40	02/14/24 13:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	**55.8**	^2	4.00	4.00	mg/L			02/16/24 05:40	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**56.9**		4.00	4.00	mg/L			02/17/24 01:35	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/16/24 05:40	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/16/24 05:40	1
Total Dissolved Solids (SM 2540C)	**8470**		100	100	mg/L			02/13/24 11:51	1

Client: GSI Environmental Inc
Project/Site: Ash Pile

Job ID: 860-67554-1

Client Sample ID: SP-03

Lab Sample ID: 860-67554-3

Date Collected: 02/07/24 08:45

Matrix: Water

Date Received: 02/08/24 10:24

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**2890**		1000	400	mg/L			02/27/24 19:17	1000
Fluoride	40.0	U *+	100	40.0	mg/L			02/27/24 19:17	1000
Chloride	**5250**	*+	500	200	mg/L			02/27/24 19:17	1000

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**7.91**		1.60	1.20	mg/L		02/13/24 11:40	02/15/24 13:02	20
Calcium	**927**		10.0	2.54	mg/L		02/13/24 11:40	02/15/24 13:02	20
Sodium	**3060**		10.0	3.68	mg/L		02/13/24 11:40	02/15/24 13:02	20
Magnesium	**99.2**		0.500	0.0498	mg/L		02/13/24 11:40	02/14/24 13:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/16/24 05:34	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/16/24 05:34	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/16/24 05:34	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/16/24 05:34	1
Total Dissolved Solids (SM 2540C)	**12200**		100	100	mg/L			02/13/24 11:51	1

Client Sample ID: SP-32

Lab Sample ID: 860-67554-4

Date Collected: 02/07/24 09:35

Matrix: Water

Date Received: 02/08/24 10:24

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**5190**		200	80.0	mg/L			02/27/24 19:28	200
Fluoride	8.00	U *+	20.0	8.00	mg/L			02/27/24 19:28	200
Chloride	**1900**	*+	100	40.0	mg/L			02/27/24 19:28	200

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**13.5**		4.00	3.01	mg/L		02/13/24 11:40	02/15/24 13:04	50
Calcium	**567**		0.500	0.127	mg/L		02/13/24 11:40	02/14/24 14:03	1
Sodium	**2340**		25.0	9.20	mg/L		02/13/24 11:40	02/15/24 13:04	50
Magnesium	**142**		0.500	0.0498	mg/L		02/13/24 11:40	02/14/24 14:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/16/24 05:28	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/16/24 05:28	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/16/24 05:28	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/16/24 05:28	1
Total Dissolved Solids (SM 2540C)	**11000**		100	100	mg/L			02/13/24 11:51	1

Client Sample ID: SP-34

Lab Sample ID: 860-67554-5

Date Collected: 02/07/24 09:30

Matrix: Water

Date Received: 02/08/24 10:24

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**2530**		500	200	mg/L			02/26/24 12:24	500
Fluoride	20.0	U	50.0	20.0	mg/L			02/26/24 12:24	500
Chloride	**2810**		250	100	mg/L			02/26/24 12:24	500

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**12.0**		4.00	3.01	mg/L		02/13/24 11:40	02/15/24 13:07	50
Calcium	**842**		25.0	6.35	mg/L		02/13/24 11:40	02/15/24 13:07	50
Sodium	**1820**		25.0	9.20	mg/L		02/13/24 11:40	02/15/24 13:07	50
Magnesium	**89.8**		0.500	0.0498	mg/L		02/13/24 11:40	02/14/24 14:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/16/24 04:33	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/16/24 04:33	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/16/24 04:33	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/16/24 04:33	1
Total Dissolved Solids (SM 2540C)	**9700**		100	100	mg/L			02/13/24 11:51	1

Client Sample ID: DUP-01

Lab Sample ID: 860-67554-6

Date Collected: 02/07/24 10:00

Matrix: Water

Date Received: 02/08/24 10:24

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**1890**		250	100	mg/L			02/26/24 13:32	250
Fluoride	10.0	U	25.0	10.0	mg/L			02/26/24 13:32	250
Chloride	**3040**		125	50.0	mg/L			02/26/24 13:32	250

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**13.5**		4.00	3.01	mg/L		02/13/24 11:40	02/15/24 13:32	50
Calcium	**965**		25.0	6.35	mg/L		02/13/24 11:40	02/15/24 13:32	50
Sodium	**1940**		25.0	9.20	mg/L		02/13/24 11:40	02/15/24 13:32	50
Magnesium	**38.4**		0.500	0.0498	mg/L		02/13/24 11:40	02/14/24 14:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	**57.5**		4.00	4.00	mg/L			02/17/24 01:48	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**57.5**		4.00	4.00	mg/L			02/17/24 01:48	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/17/24 01:48	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/17/24 01:48	1
Total Dissolved Solids (SM 2540C)	**8930**		100	100	mg/L			02/13/24 11:51	1

Client: GSI Environmental Inc
Project/Site: Ash Pile

Job ID: 860-67554-1

Client Sample ID: FB-01

Date Collected: 02/07/24 08:55
Date Received: 02/08/24 10:24

Lab Sample ID: 860-67554-7

Matrix: Water

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**2.63**		1.00	0.400	mg/L			02/26/24 13:43	1
Fluoride	0.0400	U	0.100	0.0400	mg/L			02/26/24 13:43	1
Chloride	**8.27**		0.500	0.200	mg/L			02/26/24 13:43	1

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.301	U	0.400	0.301	mg/L		02/13/24 11:40	02/15/24 13:35	5
Calcium	**0.688**		0.500	0.127	mg/L		02/13/24 11:40	02/14/24 14:23	1
Sodium	**4.10**		2.50	0.920	mg/L		02/13/24 11:40	02/15/24 13:35	5
Magnesium	**0.0882**	**J**	0.500	0.0498	mg/L		02/13/24 11:40	02/14/24 14:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	**21.5**		4.00	4.00	mg/L			02/17/24 01:42	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**21.5**		4.00	4.00	mg/L			02/17/24 01:42	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/17/24 01:42	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/17/24 01:42	1
Total Dissolved Solids (SM 2540C)	**23.0**		5.00	5.00	mg/L			02/13/24 11:58	1

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 680-824545/2
Matrix: Water
Analysis Batch: 824545

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	0.400	U	1.00	0.400	mg/L			02/26/24 11:26	1
Fluoride	0.0400	U	0.100	0.0400	mg/L			02/26/24 11:26	1
Chloride	0.200	U	0.500	0.200	mg/L			02/26/24 11:26	1

Lab Sample ID: LCS 680-824545/4
Matrix: Water
Analysis Batch: 824545

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	20.0	19.02		mg/L		95	90 - 110
Fluoride	1.00	1.035		mg/L		103	90 - 110
Chloride	5.00	5.077		mg/L		102	90 - 110

Lab Sample ID: LCSD 680-824545/5
Matrix: Water
Analysis Batch: 824545

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	20.0	20.99		mg/L		105	90 - 110	10	15
Fluoride	1.00	1.081		mg/L		108	90 - 110	4	15
Chloride	5.00	5.323		mg/L		106	90 - 110	5	15

Lab Sample ID: 860-67554-5 MS
Matrix: Water
Analysis Batch: 824545

Client Sample ID: SP-34
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	2530		2500	5041		mg/L		101	80 - 120
Fluoride	20.0	U	500	535.2		mg/L		107	80 - 120
Chloride	2810		2500	5621		mg/L		112	80 - 120

Lab Sample ID: 860-67554-5 MSD
Matrix: Water
Analysis Batch: 824545

Client Sample ID: SP-34
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	2530		2500	4805		mg/L		91	80 - 120	5	15
Fluoride	20.0	U	500	489.9		mg/L		98	80 - 120	9	15
Chloride	2810		2500	5342		mg/L		101	80 - 120	5	15

Lab Sample ID: MB 680-824755/33
Matrix: Water
Analysis Batch: 824755

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	0.400	U	1.00	0.400	mg/L			02/27/24 17:58	1
Fluoride	0.0400	U	0.100	0.0400	mg/L			02/27/24 17:58	1
Chloride	0.200	U	0.500	0.200	mg/L			02/27/24 17:58	1

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 680-824755/34
Matrix: Water
Analysis Batch: 824755

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfate			20.0	21.24		mg/L		106	90 - 110		
Fluoride			1.00	1.125	*+	mg/L		113	90 - 110		
Chloride			5.00	5.576	*+	mg/L		112	90 - 110		

Lab Sample ID: LCSD 680-824755/35
Matrix: Water
Analysis Batch: 824755

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate			20.0	21.19		mg/L		106	90 - 110	0	15
Fluoride			1.00	1.128	*+	mg/L		113	90 - 110	0	15
Chloride			5.00	5.607	*+	mg/L		112	90 - 110	1	15

Lab Sample ID: 860-67554-2 MS
Matrix: Water
Analysis Batch: 824755

Client Sample ID: SP-02
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfate	2630		5000	7593		mg/L		99	80 - 120		
Fluoride	40.0	U *+	1000	1082		mg/L		108	80 - 120		
Chloride	4060	*+	5000	9533		mg/L		110	80 - 120		

Lab Sample ID: 860-67554-2 MSD
Matrix: Water
Analysis Batch: 824755

Client Sample ID: SP-02
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	2630		5000	7062		mg/L		89	80 - 120	7	15
Fluoride	40.0	U *+	1000	1016		mg/L		102	80 - 120	6	15
Chloride	4060	*+	5000	8971		mg/L		98	80 - 120	6	15

Method: EPA 6020A - Metals (ICP/MS)

Lab Sample ID: MB 180-459508/1-A
Matrix: Water
Analysis Batch: 459696

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 459508

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	0.127	U	0.500	0.127	mg/L		02/13/24 11:40	02/14/24 13:41	1
Sodium	0.184	U	0.500	0.184	mg/L		02/13/24 11:40	02/14/24 13:41	1
Magnesium	0.0498	U	0.500	0.0498	mg/L		02/13/24 11:40	02/14/24 13:41	1

Lab Sample ID: MB 180-459508/1-A
Matrix: Water
Analysis Batch: 459868

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 459508

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.0601	U	0.0800	0.0601	mg/L		02/13/24 11:40	02/15/24 12:39	1

Method: EPA 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 180-459508/2-A
Matrix: Water
Analysis Batch: 459696

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 459508

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	25.0	27.76		mg/L		111	80 - 120
Sodium	25.0	27.03		mg/L		108	80 - 120
Magnesium	25.0	26.60		mg/L		106	80 - 120

Lab Sample ID: LCS 180-459508/2-A
Matrix: Water
Analysis Batch: 459868

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 459508

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.25	1.229		mg/L		98	80 - 120

Lab Sample ID: 860-67554-5 MS
Matrix: Water
Analysis Batch: 459696

Client Sample ID: SP-34
Prep Type: Total Recoverable
Prep Batch: 459508

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Magnesium	89.8		25.0	115.1		mg/L		101	75 - 125

Lab Sample ID: 860-67554-5 MS
Matrix: Water
Analysis Batch: 459868

Client Sample ID: SP-34
Prep Type: Total Recoverable
Prep Batch: 459508

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	12.0		1.25	12.59	4	mg/L		50	75 - 125
Calcium	842		25.0	895.0	4	mg/L		214	75 - 125
Sodium	1820		25.0	1890	4	mg/L		266	75 - 125

Lab Sample ID: 860-67554-5 MSD
Matrix: Water
Analysis Batch: 459696

Client Sample ID: SP-34
Prep Type: Total Recoverable
Prep Batch: 459508

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Magnesium	89.8		25.0	114.6		mg/L		99	75 - 125	0	20

Lab Sample ID: 860-67554-5 MSD
Matrix: Water
Analysis Batch: 459868

Client Sample ID: SP-34
Prep Type: Total Recoverable
Prep Batch: 459508

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	12.0		1.25	12.96	4	mg/L		80	75 - 125	3	20
Calcium	842		25.0	875.0	4	mg/L		134	75 - 125	2	20
Sodium	1820		25.0	1878	4	mg/L		217	75 - 125	1	20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-145687/66
Matrix: Water
Analysis Batch: 145687

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	4.00	U	4.00	4.00	mg/L			02/16/24 02:29	1
Bicarbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			02/16/24 02:29	1
Carbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			02/16/24 02:29	1
Hydroxide Alkalinity	4.00	U	4.00	4.00	mg/L			02/16/24 02:29	1

Lab Sample ID: LCS 860-145687/67
Matrix: Water
Analysis Batch: 145687

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity	250	259.9		mg/L		104	85 - 115

Lab Sample ID: LCSD 860-145687/68
Matrix: Water
Analysis Batch: 145687

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Alkalinity	250	263.8		mg/L		106	85 - 115	1	20

Lab Sample ID: 860-67554-5 DU
Matrix: Water
Analysis Batch: 145687

Client Sample ID: SP-34
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Alkalinity	4.00	U	4.00	U	mg/L		NC	20
Bicarbonate Alkalinity as CaCO3	4.00	U	4.00	U	mg/L		NC	20
Carbonate Alkalinity as CaCO3	4.00	U	4.00	U	mg/L		NC	20
Hydroxide Alkalinity	4.00	U	4.00	U	mg/L		NC	20

Lab Sample ID: MB 860-145982/88
Matrix: Water
Analysis Batch: 145982

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	4.00	U	4.00	4.00	mg/L			02/16/24 23:36	1
Bicarbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			02/16/24 23:36	1
Carbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			02/16/24 23:36	1
Hydroxide Alkalinity	4.00	U	4.00	4.00	mg/L			02/16/24 23:36	1

Lab Sample ID: LCS 860-145982/89
Matrix: Water
Analysis Batch: 145982

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity	250	267.7		mg/L		107	85 - 115

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: LCSD 860-145982/90
Matrix: Water
Analysis Batch: 145982

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Alkalinity			250	269.3		mg/L		108	85 - 115	1	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 860-145110/1
Matrix: Water
Analysis Batch: 145110

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5.00	U	5.00	5.00	mg/L			02/13/24 11:51	1

Lab Sample ID: LCS 860-145110/2
Matrix: Water
Analysis Batch: 145110

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			1000	1003		mg/L		100	80 - 120		

Lab Sample ID: LCSD 860-145110/3
Matrix: Water
Analysis Batch: 145110

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids			1000	1008		mg/L		101	80 - 120	0	10

Lab Sample ID: LLCS 860-145110/4
Matrix: Water
Analysis Batch: 145110

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

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			5.00	6.500		mg/L		130	50 - 150		

Lab Sample ID: MB 860-145111/1
Matrix: Water
Analysis Batch: 145111

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5.00	U	5.00	5.00	mg/L			02/13/24 11:58	1

Lab Sample ID: LCS 860-145111/2
Matrix: Water
Analysis Batch: 145111

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			1000	1003		mg/L		100	80 - 120		

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: LCSD 860-145111/3
Matrix: Water
Analysis Batch: 145111

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids			1000	983.0		mg/L		98	80 - 120	2	10

Lab Sample ID: LLCS 860-145111/4
Matrix: Water
Analysis Batch: 145111

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

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			5.00	6.000		mg/L		120	50 - 150		

HPLC/IC

Analysis Batch: 824545

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-67554-1	SP-01	Total/NA	Water	300.0-1993 R2.1	
860-67554-5	SP-34	Total/NA	Water	300.0-1993 R2.1	
860-67554-6	DUP-01	Total/NA	Water	300.0-1993 R2.1	
860-67554-7	FB-01	Total/NA	Water	300.0-1993 R2.1	
MB 680-824545/2	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 680-824545/4	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
LCSD 680-824545/5	Lab Control Sample Dup	Total/NA	Water	300.0-1993 R2.1	
860-67554-5 MS	SP-34	Total/NA	Water	300.0-1993 R2.1	
860-67554-5 MSD	SP-34	Total/NA	Water	300.0-1993 R2.1	

Analysis Batch: 824755

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-67554-2	SP-02	Total/NA	Water	300.0-1993 R2.1	
860-67554-3	SP-03	Total/NA	Water	300.0-1993 R2.1	
860-67554-4	SP-32	Total/NA	Water	300.0-1993 R2.1	
MB 680-824755/33	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 680-824755/34	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
LCSD 680-824755/35	Lab Control Sample Dup	Total/NA	Water	300.0-1993 R2.1	
860-67554-2 MS	SP-02	Total/NA	Water	300.0-1993 R2.1	
860-67554-2 MSD	SP-02	Total/NA	Water	300.0-1993 R2.1	

Metals

Prep Batch: 459508

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-67554-1	SP-01	Total Recoverable	Water	3005A	
860-67554-2	SP-02	Total Recoverable	Water	3005A	
860-67554-3	SP-03	Total Recoverable	Water	3005A	
860-67554-4	SP-32	Total Recoverable	Water	3005A	
860-67554-5	SP-34	Total Recoverable	Water	3005A	
860-67554-6	DUP-01	Total Recoverable	Water	3005A	
860-67554-7	FB-01	Total Recoverable	Water	3005A	
MB 180-459508/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-459508/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
860-67554-5 MS	SP-34	Total Recoverable	Water	3005A	
860-67554-5 MSD	SP-34	Total Recoverable	Water	3005A	

Analysis Batch: 459696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-67554-1	SP-01	Total Recoverable	Water	EPA 6020A	459508
860-67554-2	SP-02	Total Recoverable	Water	EPA 6020A	459508
860-67554-3	SP-03	Total Recoverable	Water	EPA 6020A	459508
860-67554-4	SP-32	Total Recoverable	Water	EPA 6020A	459508
860-67554-5	SP-34	Total Recoverable	Water	EPA 6020A	459508
860-67554-6	DUP-01	Total Recoverable	Water	EPA 6020A	459508
860-67554-7	FB-01	Total Recoverable	Water	EPA 6020A	459508
MB 180-459508/1-A	Method Blank	Total Recoverable	Water	EPA 6020A	459508
LCS 180-459508/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020A	459508
860-67554-5 MS	SP-34	Total Recoverable	Water	EPA 6020A	459508
860-67554-5 MSD	SP-34	Total Recoverable	Water	EPA 6020A	459508

Metals

Analysis Batch: 459868

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-67554-1	SP-01	Total Recoverable	Water	EPA 6020A	459508
860-67554-2	SP-02	Total Recoverable	Water	EPA 6020A	459508
860-67554-3	SP-03	Total Recoverable	Water	EPA 6020A	459508
860-67554-4	SP-32	Total Recoverable	Water	EPA 6020A	459508
860-67554-5	SP-34	Total Recoverable	Water	EPA 6020A	459508
860-67554-6	DUP-01	Total Recoverable	Water	EPA 6020A	459508
860-67554-7	FB-01	Total Recoverable	Water	EPA 6020A	459508
MB 180-459508/1-A	Method Blank	Total Recoverable	Water	EPA 6020A	459508
LCS 180-459508/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020A	459508
860-67554-5 MS	SP-34	Total Recoverable	Water	EPA 6020A	459508
860-67554-5 MSD	SP-34	Total Recoverable	Water	EPA 6020A	459508

General Chemistry

Analysis Batch: 145110

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-67554-1	SP-01	Total/NA	Water	SM 2540C	
860-67554-2	SP-02	Total/NA	Water	SM 2540C	
860-67554-3	SP-03	Total/NA	Water	SM 2540C	
860-67554-4	SP-32	Total/NA	Water	SM 2540C	
860-67554-5	SP-34	Total/NA	Water	SM 2540C	
860-67554-6	DUP-01	Total/NA	Water	SM 2540C	
MB 860-145110/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-145110/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-145110/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
LLCS 860-145110/4	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 145111

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-67554-7	FB-01	Total/NA	Water	SM 2540C	
MB 860-145111/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-145111/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-145111/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
LLCS 860-145111/4	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 145687

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-67554-1	SP-01	Total/NA	Water	SM 2320B	
860-67554-2	SP-02	Total/NA	Water	SM 2320B	
860-67554-3	SP-03	Total/NA	Water	SM 2320B	
860-67554-4	SP-32	Total/NA	Water	SM 2320B	
860-67554-5	SP-34	Total/NA	Water	SM 2320B	
MB 860-145687/66	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-145687/67	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-145687/68	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
860-67554-5 DU	SP-34	Total/NA	Water	SM 2320B	

Analysis Batch: 145982

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-67554-2	SP-02	Total/NA	Water	SM 2320B	
860-67554-6	DUP-01	Total/NA	Water	SM 2320B	

General Chemistry (Continued)

Analysis Batch: 145982 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-67554-7	FB-01	Total/NA	Water	SM 2320B	
MB 860-145982/88	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-145982/89	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-145982/90	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Lab Chronicle

Client: GSI Environmental Inc
Project/Site: Ash Pile

Job ID: 860-67554-1

Client Sample ID: SP-01

Lab Sample ID: 860-67554-1

Date Collected: 02/07/24 10:10

Matrix: Water

Date Received: 02/08/24 10:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		500	2 mL	2 mL	824545	02/26/24 17:39	UI	EET SAV
Total Recoverable	Prep	3005A			25 mL	25 mL	459508	02/13/24 11:40	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			459696	02/14/24 13:46	MRG	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459508	02/13/24 11:40	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		20			459868	02/15/24 12:45	MRG	EET PIT
Total/NA	Analysis	SM 2320B		1			145687	02/16/24 05:46	YG	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	145110	02/13/24 11:51	YG	EET HOU

Client Sample ID: SP-02

Lab Sample ID: 860-67554-2

Date Collected: 02/07/24 10:35

Matrix: Water

Date Received: 02/08/24 10:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1000	2 mL	2 mL	824755	02/27/24 18:32	GE	EET SAV
Total Recoverable	Prep	3005A			25 mL	25 mL	459508	02/13/24 11:40	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			459696	02/14/24 13:49	MRG	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459508	02/13/24 11:40	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		50			459868	02/15/24 12:59	MRG	EET PIT
Total/NA	Analysis	SM 2320B		1			145687	02/16/24 05:40	YG	EET HOU
Total/NA	Analysis	SM 2320B		1			145982	02/17/24 01:35	YG	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	145110	02/13/24 11:51	YG	EET HOU

Client Sample ID: SP-03

Lab Sample ID: 860-67554-3

Date Collected: 02/07/24 08:45

Matrix: Water

Date Received: 02/08/24 10:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1000	2 mL	2 mL	824755	02/27/24 19:17	GE	EET SAV
Total Recoverable	Prep	3005A			25 mL	25 mL	459508	02/13/24 11:40	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			459696	02/14/24 13:52	MRG	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459508	02/13/24 11:40	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		20			459868	02/15/24 13:02	MRG	EET PIT
Total/NA	Analysis	SM 2320B		1			145687	02/16/24 05:34	YG	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	145110	02/13/24 11:51	YG	EET HOU

Client Sample ID: SP-32

Lab Sample ID: 860-67554-4

Date Collected: 02/07/24 09:35

Matrix: Water

Date Received: 02/08/24 10:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		200	2 mL	2 mL	824755	02/27/24 19:28	GE	EET SAV
Total Recoverable	Prep	3005A			25 mL	25 mL	459508	02/13/24 11:40	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			459696	02/14/24 14:03	MRG	EET PIT

Lab Chronicle

Client: GSI Environmental Inc
Project/Site: Ash Pile

Job ID: 860-67554-1

Client Sample ID: SP-32

Date Collected: 02/07/24 09:35
Date Received: 02/08/24 10:24

Lab Sample ID: 860-67554-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			25 mL	25 mL	459508	02/13/24 11:40	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		50			459868	02/15/24 13:04	MRG	EET PIT
Total/NA	Analysis	SM 2320B		1			145687	02/16/24 05:28	YG	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	145110	02/13/24 11:51	YG	EET HOU

Client Sample ID: SP-34

Date Collected: 02/07/24 09:30
Date Received: 02/08/24 10:24

Lab Sample ID: 860-67554-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		500	2 mL	2 mL	824545	02/26/24 12:24	UI	EET SAV
Total Recoverable	Prep	3005A			25 mL	25 mL	459508	02/13/24 11:40	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			459696	02/14/24 14:06	MRG	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459508	02/13/24 11:40	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		50			459868	02/15/24 13:07	MRG	EET PIT
Total/NA	Analysis	SM 2320B		1			145687	02/16/24 04:33	YG	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	145110	02/13/24 11:51	YG	EET HOU

Client Sample ID: DUP-01

Date Collected: 02/07/24 10:00
Date Received: 02/08/24 10:24

Lab Sample ID: 860-67554-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		250	2 mL	2 mL	824545	02/26/24 13:32	UI	EET SAV
Total Recoverable	Prep	3005A			25 mL	25 mL	459508	02/13/24 11:40	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			459696	02/14/24 14:20	MRG	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459508	02/13/24 11:40	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		50			459868	02/15/24 13:32	MRG	EET PIT
Total/NA	Analysis	SM 2320B		1			145982	02/17/24 01:48	YG	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	145110	02/13/24 11:51	YG	EET HOU

Client Sample ID: FB-01

Date Collected: 02/07/24 08:55
Date Received: 02/08/24 10:24

Lab Sample ID: 860-67554-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	2 mL	2 mL	824545	02/26/24 13:43	UI	EET SAV
Total Recoverable	Prep	3005A			25 mL	25 mL	459508	02/13/24 11:40	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			459696	02/14/24 14:23	MRG	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459508	02/13/24 11:40	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		5			459868	02/15/24 13:35	MRG	EET PIT
Total/NA	Analysis	SM 2320B		1			145982	02/17/24 01:42	YG	EET HOU
Total/NA	Analysis	SM 2540C		1	200 mL	200 mL	145111	02/13/24 11:58	YG	EET HOU

Lab Chronicle

Client: GSI Environmental Inc
Project/Site: Ash Pile

Job ID: 860-67554-1

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

EET PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: GSI Environmental Inc
Project/Site: Ash Pile

Job ID: 860-67554-1

Laboratory: Eurofins Houston

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215	02-20-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
SM 2320B		Water	Bicarbonate Alkalinity as CaCO3
SM 2320B		Water	Carbonate Alkalinity as CaCO3
SM 2320B		Water	Hydroxide Alkalinity

Laboratory: Eurofins Pittsburgh

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

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	06-27-24
California	State	2891	04-30-24
Connecticut	State	PH-0688	09-30-24
Florida	NELAP	E871008	06-30-24
Georgia	State	PA 02-00416	04-30-24
Illinois	NELAP	004375	06-30-24
Kansas	NELAP	E-10350	01-31-25
Kentucky (UST)	State	162013	04-30-23 *
Kentucky (WW)	State	KY98043	12-31-23 *
Louisiana	NELAP	04041	06-30-22 *
Louisiana (All)	NELAP	04041	06-30-24
Maine	State	PA00164	03-06-24
Minnesota	NELAP	042-999-482	12-31-24
New Hampshire	NELAP	2030	04-04-24
New Jersey	NELAP	PA005	06-30-24
New York	NELAP	11182	04-01-24
North Carolina (WW/SW)	State	434	12-31-24
North Dakota	State	R-227	04-30-24
Oregon	NELAP	PA-2151	02-06-24 *
Pennsylvania	NELAP	02-00416	04-30-24
Rhode Island	State	LAO00362	12-31-22 *
South Carolina	State	89014	04-30-25
Texas	NELAP	T104704528	03-31-24
US Fish & Wildlife	US Federal Programs	058448	03-31-24
USDA	US Federal Programs	P330-16-00211	04-11-26
Utah	NELAP	PA001462019-8	05-31-24
Virginia	NELAP	10043	07-14-24
West Virginia DEP	State	142	01-31-25
Wisconsin	State	998027800	08-31-24

Laboratory: Eurofins Savannah

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

Authority	Program	Identification Number	Expiration Date
	AFCEE	SAVLAB	
Alabama	State	41450	06-30-24
ANAB	Dept. of Defense ELAP	L2463	09-22-24
Arkansas (DW)	State	GA00006	06-30-24

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification Summary

Client: GSI Environmental Inc
Project/Site: Ash Pile

Job ID: 860-67554-1

Laboratory: Eurofins Savannah (Continued)

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

Authority	Program	Identification Number	Expiration Date
California	State	2939	06-30-24
Florida	NELAP	E87052	06-30-24
Georgia	State	E87052	06-30-24
Georgia (DW)	State	803	06-30-24
Guam	State	19-007R	04-17-24
Hawaii	State	<cert No.>	06-30-24
Illinois	NELAP	200022	11-30-24
Indiana	State	C-GA-02	06-30-24
Iowa	State	353	07-01-25
Kentucky (UST)	State	NA	06-30-24
Louisiana	NELAP	30690	06-30-24
Louisiana (All)	NELAP	30690	06-30-24
Louisiana (DW)	State	LA009	12-31-24
Maine	State	GA00006	09-25-24
Maryland	State	250	12-31-24
Massachusetts	State	M-GA006	06-30-24
Michigan	State	9925	06-30-24
Mississippi	State	<cert No.>	06-30-24
Nebraska	State	NE-OS-7-04	06-30-24
New Jersey	NELAP	GA769	06-30-24
New Mexico	State	GA00006	06-30-24
North Carolina (DW)	State	13701	07-31-24
North Carolina (WW/SW)	State	269	12-31-24
Pennsylvania	NELAP	68-00474	06-30-24
Puerto Rico	State	GA00006	01-01-25
South Carolina	State	98001	06-30-24
Tennessee	State	TN02961	06-30-24
Texas	NELAP	T1047004185	11-30-24
Texas	TCEQ Water Supply	T104704185	06-30-24
USDA	US Federal Programs	P330-18-00313	09-03-24
Virginia	NELAP	460161	06-14-24
Wyoming	State	8TMS-L	06-30-24

Method Summary

Client: GSI Environmental Inc
Project/Site: Ash Pile

Job ID: 860-67554-1

Method	Method Description	Protocol	Laboratory
300.0-1993 R2.1	Anions, Ion Chromatography	MCAWW	EET SAV
EPA 6020A	Metals (ICP/MS)	SW846	EET PIT
SM 2320B	Alkalinity	SM	EET HOU
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET HOU
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET PIT

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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 HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

EET PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Sample Summary

Client: GSI Environmental Inc
Project/Site: Ash Pile

Job ID: 860-67554-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-67554-1	SP-01	Water	02/07/24 10:10	02/08/24 10:24
860-67554-2	SP-02	Water	02/07/24 10:35	02/08/24 10:24
860-67554-3	SP-03	Water	02/07/24 08:45	02/08/24 10:24
860-67554-4	SP-32	Water	02/07/24 09:35	02/08/24 10:24
860-67554-5	SP-34	Water	02/07/24 09:30	02/08/24 10:24
860-67554-6	DUP-01	Water	02/07/24 10:00	02/08/24 10:24
860-67554-7	FB-01	Water	02/07/24 08:55	02/08/24 10:24

Eurofins Xenco, Stafford
4147 Greenbriar Dr
Stafford, TX 77477
Phone (281) 240-4200

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: Scott Ude + Hunt Team	Lab PM: Kudchadkar Sachin G	Carrier Tracking No(s):	COC No: 860-3614-1220.1
Client Contact: Mike Schofield	Phone: 832-347-4521	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: TX	Page: Page 1 of 1
Company: GSI Environmental, Inc	PWSID:			Job #:
Address: 9600 Great Hills Trail Suite 350E	Due Date Requested:			
City: Austin	TAT Requested (days): 5 DAY TAT			
State, Zip: TX, 78759	Compliance Project: Δ Yes Δ No			
Phone: 512-346-4474(Tel) 512-346-4476(Fax)	PO #:			
Email: mlschofield@gsi-net.com	WO #:			
Project Name: San Miguel Electrical Co-Op GW	Project #: 86001746			
Site: Ash Pile	SSOW#:			

Analysis Requested

Preservation Codes:

A	HCL	M	Hexane
B	NaOH	N	None
C	Zn Acetate	O	AsNaO2
D	Nitric Acid	P	Na2O4S
E	NaHSO4	Q	Na2SO3
F	MeOH	R	Na2S2O3
G	Amchlor	S	H2SO4
H	Ascorbic Acid	T	TSP Dodecahydrate
I	Ice	U	Acetone
J	DI Water	V	MCAA
K	EDTA	W	pH 4-5
L	EDA	Z	other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2320B, Alkalinity	6020A -B, Ca Eurofins Pittsburg + Na, Mg	2540C_TDS	300- Cl, F, SO4	O = ms/msd vol. provided	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	D	N	N			
SP-01	2-7-24	1010	G	Water			✓	✓	✓	✓			
SP-02		1035		Water			✓	✓	✓	✓			
SP-03		845		Water			✓	✓	✓	✓			
SP-32		935		Water			✓	✓	✓	✓			
SP-34		930		Water	Y		✓	✓	✓	✓			
DUP-01		1000		Water			✓	✓	✓	✓			
FB-01		855		Water			✓	✓	✓	✓			
				Water									
				Water									
				Water									
				Water									

860-67554 Chain of Custody

Temp 1.7 IR ID HOU-369
C/F -0.0
Corrected Temp: 1.7

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I II III IV Other (specify)

Special Instructions/QC Requirements.

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: Cons Drop off			
Relinquished by:	Date/Time: 2-8-24 1024	Company: GMI	Received by:	Date/Time:	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	
Relinquished by:	Date/Time:	Company	Received by: CG	Date/Time: 2824 1024	Company E	

Custody Seals Intact. Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

2/28/2024

ORIGIN ID:SGRA (281) 240-4200
ADMINISTRATIVE OFFICES
XENCO HOUSTON
4145 GREENBRIAR DR

STAFFORD, TX 77477
UNITED STATES US

SHIP DATE: 08FEB24
ACTWGT: 10.00 LB
CAD: 110189707/INET4700

BILL SENDER

TO SHIPPING AND RECEIVING
EUROFINS TEST AMERICA, PITTSBURGH
301 ALPHA DRIVE RIDC PARK

PITTSBURGH PA 15238
(412) 963-7058 REF
INV
PO DEPT

583J5/EC2B/9AE3

Uncorrected temp 1.8 21 C
Thermometer ID
CF 0.0 Initials RB
PT-WI-SR-001 effective 11/8/18

FedEx Express

J241024011001uv

FRI - 09 FEB 10:30A
PRIORITY OVERNIGHT

TRK# 0201 7751 2496 3670

NX AGCA

15238
PA-US PIT

ORIGIN ID:SGRA (281) 240-4200
ADMINISTRATIVE OFFICES
XENCO HOUSTON
4145 GREENBRIAR DR

STAFFORD, TX 77477
UNITED STATES US

SHIP DATE: 08FEB24
ACTWGT: 10.00 LB
CAD. 110189707/INET4700

BILL SENDER

TO SHIPPING AND RECEIVING
EUROFINS TEST AMERICA, PITTSBURGH
301 ALPHA DRIVE RIDC PARK

PITTSBURGH PA 15238
(412) 963-7058 REF
INV
PO DEPT

583J5/EC2B/9AE3

Uncorrected temp 4.9 21 C
Thermometer ID
CF 0.0 Initials RB
PT-WI-SR-001 effective 11/8/18

FedEx Express

J241024011001uv

FRI - 09 FEB 10:30A
PRIORITY OVERNIGHT

TRK# 0201 7751 2562 2770

NX AGCA

15238
PA-US PIT

860-67554 Waybill

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone 281-240-4200

Chain of Custody Record

eurofins

Client Information (Sub Contract Lab)	Sampler	Lab PM	Carrier Tracking No(s)	COC No
		Kudchadkar, Sachin G		860-94989 1
Client Contact: Shipping/Receiving	Phone	E-Mail: Sachin.Kudchadkar@et.eurofinsus.com	State of Origin: Texas	Page: Page 1 of 1
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): NELAP - Texas		Job #: 860-67554-1
Address: 301 Alpha Drive, RIDC Park,	Due Date Requested: 2/16/2024			
City: Pittsburgh	TAT Requested (days):			
State, Zip: PA, 15238				
Phone: 412-963-7058(Tel) 412-963-2468(Fax)	PO #:			
Email	WO #:			
Project Name: San Miguel Electrical Co-Op 2H23 GW	Project #: 86001746			
Site	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

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)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020A/3005A (MOD) Copy Analytes	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
SP-01 (860-67554-1)	2/7/24	10 10 Central		Water			X	1	Please analyze at the lowest possible dilution
SP-02 (860-67554-2)	2/7/24	10 35 Central		Water			X	1	Please analyze at the lowest possible dilution
SP-03 (860-67554-3)	2/7/24	08 45 Central		Water			X	1	Please analyze at the lowest possible dilution
SP-32 (860-67554-4)	2/7/24	09 35 Central		Water			X	1	Please analyze at the lowest possible dilution
SP-34 (860-67554-5)	2/7/24	09 30 Central		Water			X	1	Please analyze at the lowest possible dilution
SP-34 (860-67554-5MS)	2/7/24	09 30 Central	MS	Water			X	1	Please analyze at the lowest possible dilution
SP-34 (860-67554-5MSD)	2/7/24	09 30 Central	MSD	Water			X	1	Please analyze at the lowest possible dilution
DUP-01 (860-67554-6)	2/7/24	10 00 Central		Water			X	1	Please analyze at the lowest possible dilution
FB-01 (860-67554-7)	2/7/24	08 55 Central		Water			X	1	Please analyze at the lowest possible dilution

860-67554 Chain of Custody

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) — Primary Deliverable Rank: 2	Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
[signature]	2/8/24		[signature]	2/9/24 0930	EST
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks

Ver: 06/08/2021

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-96612.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@et.eurofinsus.com	State of Origin: Texas	Page: Page 1 of 1
Company: Eurofins Environment Testing Southeast,		Accreditations Required (See note): NELAP - Texas		Job #: 860-67554-1
Address: 5102 LaRoche Avenue, ,	Due Date Requested: 2/15/2024			
City: Savannah	TAT Requested (days):			
State, Zip: GA, 31404				
Phone: 912-354-7858(Tel) 912-352-0165(Fax)	PO #:			
Email:	WO #:			
Project Name: Ash Pile	Project #: 86001746			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

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)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D/ (MOD) Any Three Anions	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
SP-01 (860-67554-1)	2/7/24	10:10 Central		Water			X	1	
SP-02 (860-67554-2)	2/7/24	10:35 Central		Water			X	1	
SP-03 (860-67554-3)	2/7/24	08:45 Central		Water			X	1	
SP-32 (860-67554-4)	2/7/24	09:35 Central		Water			X	1	
SP-34 (860-67554-5)	2/7/24	09:30 Central		Water			X	1	
SP-34 (860-67554-5MS)	2/7/24	09:30 Central	MS	Water			X	1	
SP-34 (860-67554-5MSD)	2/7/24	09:30 Central	MSD	Water			X	1	
DUP-01 (860-67554-6)	2/7/24	10:00 Central		Water			X	1	
FB-01 (860-67554-7)	2/7/24	08:55 Central		Water			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

2-16-24 1000 (Relinquished by: Date/Time)

2/17/24 0952 (Received by: Date/Time)

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.3/1.3

Login Sample Receipt Checklist

Client: GSI Environmental Inc

Job Number: 860-67554-1

Login Number: 67554
List Number: 1
Creator: Torrez, Lisandra

List Source: Eurofins Houston

Question	Answer	Comment
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	

Login Sample Receipt Checklist

Client: GSI Environmental Inc

Job Number: 860-67554-1

Login Number: 67554
List Number: 2
Creator: Mullins, Plumm A

List Source: Eurofins Pittsburgh
List Creation: 02/09/24 05:09 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are 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?	N/A	
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	

Login Sample Receipt Checklist

Client: GSI Environmental Inc

Job Number: 860-67554-1

Login Number: 67554
List Number: 3
Creator: Kirkland, Bernard C

List Source: Eurofins Savannah
List Creation: 02/17/24 12:11 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are 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 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	

GSI ENVIRONMENTAL

DATA USABILITY SUMMARY

February 2024 Sampling Event (Job ID: 860-67555-1)

OVERVIEW

GSI Environmental Inc. (GSI) reviewed one data package from Eurofins Houston located in Stafford, Texas (EET HOU) for the analysis of **two groundwater samples collected from the observation wells at the Ash Pile on 7 February 2024** at the San Miguel Electric Cooperative, Inc., Christine, Atascosa County, Texas site. Data were reviewed for i) conformance to the requirements of the guidance document *Review and Reporting of COC Concentration Data* (RG-366/TRRP-13) and ii) adherence to project objectives (e.g., GSI 2019). The alkalinity and total dissolved solids analyses were conducted by EET HOU, while the metals and mercury analyses were conducted by the Eurofins Pittsburgh, Pennsylvania (EET PIT) laboratory and the anions analyses were conducted by the Eurofins Savannah, Georgia (EET SAV) laboratory. GSI certifies that at the time the laboratory data were generated for the project, EET HOU, EET PIT and EET SAV were National Environmental Laboratory Accreditation Program (NELAP)-accredited under the Texas Laboratory Accreditation Program (Certification Number: T104704215, T104704528 and T1047004185 respectively) for the matrices, analytes, and methods of analysis requested on the chain-of-custody documentation. A copy of EET HOU, EET PIT and EET SAV's NELAP certificates applicable to the period during which the laboratory generated the data in this report is included as Attachment A.

Intended Use of Data

Samples were collected to provide current data on groundwater conditions at the test location. Analyses requested included:

- Method 6020A - Metals (Inductively Coupled Plasma (ICP)/Mass Spectrometry)
- Method 7470A – Mercury (Cold Vapor Atomic Absorption [CVAA] Spectroscopy)
- Method 300.0 – Anions, Ion Chromatography
- Method SM2320B - Alkalinity
- Method SM2540C - Total Dissolved Solids (TDS)

Data were reviewed and validated, as described in *Review and Reporting of COC Concentration Data* (RG-366/TRRP-13), and the results are discussed in this Data Usability Summary (DUS). The following laboratory submittals and field data were examined:

- the reportable data (i.e., results provided in the laboratory data package),
- the laboratory review checklists and associated exception reports, and
- the field notes with respect to field instrument calibrations, filtering procedures (if applicable), and sampling procedures.

The results of supporting quality control (QC) analyses were summarized in the laboratory case narrative (LCN), which was included in this review. The case narrative and reportable data included in this review are attached to this DUS as Attachment B.

INTRODUCTION

Two (2) water samples were submitted to the laboratory, and all requested analyses were completed. Table 1 lists the sample identifications cross-referenced to laboratory identifications.

PROJECT MEASUREMENT QUALITY OBJECTIVES

The following criteria were used in this review:

Analytes	LCS/LCSD % R	LCS/LCSD RPD	Lab Dup RPD
Metals	80 – 120	-	-
Mercury	80 – 120	-	-
Inorganic Anions	90 – 110	15	-
Alkalinity	85 – 115	20	20
Total Dissolved Solids (TDS)	80 – 120	10	-

DATA REVIEW / VALIDATION RESULTS

Analytical Results

Results from these samples may be considered usable with the limitations and exceptions described in this section. Sample data qualified as a result of this DUS, if any, are listed in Table 2. Non-detected results are reported as less than the value of the method detection limit (MDL). Results between the MDL and reporting (RL) are J-flagged.

Finding: All requested analyses were completed, and results were reported as requested.

Preservation and Holding Times

The samples were evaluated for agreement with the chain-of-custody (C-O-C). The samples were received by the laboratory in the appropriate containers and in good condition, with proper completion of the C-O-C documentation. Samples receipt temperature was within the acceptance criteria, and field preservation was done as specified in the Sampling and Analysis Plan [SAP] (GSI, 2019). Samples were prepared and analyzed within method-specified holding times. Items related to sample preparation are listed below.

- Samples SP-33 and SP-31 by Method 300.0 were diluted to bring the concentration of target analytes within the calibration range. Elevated RLs are provided.

- Samples SP-33 and SP-31 by Method 6020A were diluted to bring the concentration of target analytes within the calibration range. Elevated RLs are provided.

Finding: No qualifiers were added per this evaluation.

Calibrations

The following issues were noted with the laboratory calibrations:

- The linear range check (LRC) standard recovery associated with preparation batch 180-459508 and analytical batch 180-460366 was outside the acceptance criteria for Antimony. The concentration of Antimony is below that found in the calibration standard. The sample results have been reported.

Finding: No qualifiers were added per this evaluation.

Blanks

Method (Laboratory) Blanks

The following issues were noted with the laboratory blanks:

- For Method SM2320B, the instrument blank for analytical batch 860-145982 contained Total Alkalinity greater than the MDL, and were not reanalyzed because associated sample results were greater than 10X the value found in the instrument blank/CCB or non-detect. No qualifiers were added as part of this data review.

Finding: No qualifiers were added per this evaluation.

Internal Standard and Surrogate Recoveries (VOCs and SVOCs Only)

Not applicable.

Laboratory Control Samples

The LCN and lab report did not indicate any issues with the Laboratory Control Sample (LCS)/Laboratory Control Sample Duplicate (LCSD) recoveries.

Finding: No qualifiers were added per this evaluation.

Matrix Spike/Matrix Spike Duplicates and Laboratory Duplicates

The LCN and lab report did not indicate any issues with the laboratory duplicate data. No matrix spike analyses were performed.

Finding: No qualifiers were added per this evaluation.

Field Duplicates (Field Precision)

Not applicable.

Field Procedures

Sample collection and documentation was done in accordance with the Groundwater Sampling and Analysis Plan (SAP; GSI, 2019).

Finding: Field activities were consistent with the SAP.

SUMMARY

The analytical data are usable for the purpose of characterizing groundwater conditions. No qualifiers were added based on this review and evaluation.

REFERENCES

GSI Environmental, Inc., 2019, Groundwater Sampling and Analysis Plan, San Miguel Electric Cooperative, Inc., December 26.

TCEQ 2010. Review and Reporting of COC Concentration Data under TRRP, RG-366/TRRP-13 https://www.tceq.texas.gov/assets/public/comm_exec/pubs/rg/rg-366-trrp-13.pdf

TABLES

TABLE 1
Cross-Reference Field Sample and Laboratory Identifications

Sample Date	Lab	Lab Sample ID	Field Sample ID	Matrix
02/07/2024	EET HOU/EET PIT/EET SAV	860-67555-1	SP-33	Water
02/07/2024	EET HOU/EET PIT/EET SAV	860-67555-2	SP-31	Water

Notes:
1. EET HOU: Eurofins Houston, Stafford, Texas; EET PIT: Eurofins Pittsburgh, Pittsburgh, Pennsylvania; EET SAV: Eurofins Savannah, Savannah, Georgia

Attachment A

TCEQ NELAP-Recognized Laboratory Accreditation Certificates

Texas Commission on Environmental Quality

NELAP-Recognized Laboratory Accreditation is hereby awarded to

Eurofins Houston

4147 Greenbriar Dr.
Stafford, TX 77477

in accordance with Texas Water Code Chapter 5, Subchapter R, Title 30 Texas Administrative Code Chapter 25, and the National Environmental Laboratory Accreditation Program.

The laboratory's scope of accreditation includes the fields of accreditation that accompany this certificate. Continued accreditation depends upon successful ongoing participation in the program. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current location(s) and accreditation status for particular methods and analyses (www.tceq.texas.gov/goto/lab). Accreditation does not imply that a product, process, system or person is approved by the Texas Commission on Environmental Quality.

Certificate Number: T104704215-23-53
Effective Date: 8/31/2023
Expiration Date: 6/30/2024

Executive Director Texas Commission on Environmental Quality

Texas Commission on Environmental Quality

NELAP-Recognized Laboratory Accreditation is hereby awarded to

Eurofins Pittsburgh

301 Alpha Drive
Pittsburgh, PA 15238-2907

in accordance with Texas Water Code Chapter 5, Subchapter R, Title 30 Texas Administrative Code Chapter 25, and the National Environmental Laboratory Accreditation Program.

The laboratory's scope of accreditation includes the fields of accreditation that accompany this certificate. Continued accreditation depends upon successful ongoing participation in the program. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current location(s) and accreditation status for particular methods and analyses (www.tceq.texas.gov/goto/lab). Accreditation does not imply that a product, process, system or person is approved by the Texas Commission on Environmental Quality.

Erin E. Chancellor

Executive Director Texas Commission on Environmental Quality

Certificate Number: T104704528-23-12
Effective Date: 4/1/2023
Expiration Date: 3/31/2024

Texas Commission on Environmental Quality

NELAP-Recognized Laboratory Accreditation is hereby awarded to

Eurofins Savannah

5102 LaRoche Avenue
Savannah, GA 31404-6019

in accordance with Texas Water Code Chapter 5, Subchapter R, Title 30 Texas Administrative Code Chapter 25, and the National Environmental Laboratory Accreditation Program.

The laboratory's scope of accreditation includes the fields of accreditation that accompany this certificate. Continued accreditation depends upon successful ongoing participation in the program. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current location(s) and accreditation status for particular methods and analyses (www.tceq.texas.gov/goto/lab). Accreditation does not imply that a product, process, system or person is approved by the Texas Commission on Environmental Quality.

Certificate Number: T104704185-23-22
Effective Date: 12/1/2023
Expiration Date: 11/30/2024

Executive Director Texas Commission on Environmental Quality

Attachment B

Eurofins Houston – Stafford, Texas

Analytical Report

Job ID.: 860-67555-1

eurofins | Environment Testing

1 2 3 4 5 6 7 8 9 10 11 12 13 14

ANALYTICAL REPORT

PREPARED FOR

Attn: Mike Schofield
GSI Environmental Inc
9600 Great Hills Trail
Suite 350E
Austin, Texas 78759

Generated 2/27/2024 5:52:19 PM

JOB DESCRIPTION

San Miguel Electrical Co-Op 1H24 GW

JOB NUMBER

860-67555-1

Eurofins Houston
4145 Greenbriar Dr
Stafford TX 77477

See page two for job notes and contact information.

my EOL

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.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

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2/27/2024 5:52:19 PM

Authorized for release by
Sachin Kudchadkar, Senior Project Manager
Sachin.Kudchadkar@et.eurofinsus.com
(281)748-9025

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Definitions/Glossary

Client: GSI Environmental Inc
Job ID: 860-67555-1
Project/Site: San Miguel Electrical Co-Op 1H24 GW

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
^5+	Linear Range Check (LRC) is outside acceptance limits, high biased.
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.

General Chemistry

Qualifier	Qualifier Description
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.
¤	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)
TNTC	Too Numerous To Count

Job Narrative
860-67555-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 2/8/2024 10:24 AM. 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 time was 3.0°C.

HPLC/IC
Method 300_ORGFM_28D: The following samples were diluted to bring the concentration of target analytes within the calibration range: SP-33 (860-67555-1) and SP-31 (860-67555-2). 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.

Metals
Method 6020A - Total Recoverable: The following samples were diluted to bring the concentration of target analytes within the calibration range: SP-33 (860-67555-1), SP-31 (860-67555-2) and (860-67554-A-5-A ^50). Elevated reporting limits (RLs) are provided.

Method 6020A - Total Recoverable: The linear range check (LRC) standard recovery associated with preparation batch 180-459508 and analytical batch 180-460366 is outside the acceptance criteria for the following analytes: Antimony. The concentration of these analytes are below those found in the calibration standard. The sample results have been reported.

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

General Chemistry
Method 2320B: The instrument blank for analytical batch 860-145982 contained Total Alkalinity greater than the reporting limit (RL), and were not reanalyzed because result is ND or 10x higher than the blank. The data have been qualified and reported.

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

Detection Summary

Client: GSI Environmental Inc
Job ID: 860-67555-1
Project/Site: San Miguel Electrical Co-Op 1H24 GW

Client Sample ID: SP-33 — Lab Sample ID: 860-67555-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	1910		400	160	mg/L	400		300.0-1993 R2.1	Total/NA
Chloride	5670		200	80.0	mg/L	400		300.0-1993 R2.1	Total/NA
Arsenic	0.00538		0.00100	0.000282	mg/L	1		EPA 6020A	Total Recoverable
Boron	6.45		1.60	1.20	mg/L	20		EPA 6020A	Total Recoverable
Barium	0.0370		0.0100	0.00314	mg/L	1		EPA 6020A	Total Recoverable
Beryllium	0.0255		0.00100	0.000274	mg/L	1		EPA 6020A	Total Recoverable
Calcium	1410		10.0	2.54	mg/L	20		EPA 6020A	Total Recoverable
Cadmium	0.0155		0.00100	0.000217	mg/L	1		EPA 6020A	Total Recoverable
Chromium	0.226		0.00200	0.00153	mg/L	1		EPA 6020A	Total Recoverable
Cobalt	0.0883		0.000500	0.000261	mg/L	1		EPA 6020A	Total Recoverable
Magnesium	59.0		0.500	0.0498	mg/L	1		EPA 6020A	Total Recoverable
Sodium	2130		10.0	3.68	mg/L	20		EPA 6020A	Total Recoverable
Lead	0.000590	J	0.00100	0.000376	mg/L	1		EPA 6020A	Total Recoverable
Thallium	0.00879		0.00100	0.000472	mg/L	1		EPA 6020A	Total Recoverable
Selenium	0.0312		0.00500	0.000739	mg/L	1		EPA 6020A	Total Recoverable
Lithium	0.855		0.00500	0.00129	mg/L	1		EPA 6020A	Total Recoverable
Total Dissolved Solids	9750		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SP-31 — Lab Sample ID: 860-67555-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	4750		50.0	20.0	mg/L	50		300.0-1993 R2.1	Total/NA
Fluoride	7.88		5.00	2.00	mg/L	50		300.0-1993 R2.1	Total/NA
Chloride	281		25.0	10.0	mg/L	50		300.0-1993 R2.1	Total/NA
Arsenic	0.0378		0.00100	0.000282	mg/L	1		EPA 6020A	Total Recoverable
Boron	4.66		1.60	1.20	mg/L	20		EPA 6020A	Total Recoverable
Barium	0.0188		0.0100	0.00314	mg/L	1		EPA 6020A	Total Recoverable
Beryllium	0.242		0.00100	0.000274	mg/L	1		EPA 6020A	Total Recoverable
Calcium	457		0.500	0.127	mg/L	1		EPA 6020A	Total Recoverable
Cadmium	0.121		0.00100	0.000217	mg/L	1		EPA 6020A	Total Recoverable
Chromium	0.00201		0.00200	0.00153	mg/L	1		EPA 6020A	Total Recoverable
Cobalt	0.592		0.000500	0.000261	mg/L	1		EPA 6020A	Total Recoverable
Magnesium	172		0.500	0.0498	mg/L	1		EPA 6020A	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: SP-31 (Continued)
Lab Sample ID: 860-67555-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	1100		10.0	3.68	mg/L	20		EPA 6020A	Total Recoverable
Lead	0.00574		0.00100	0.000376	mg/L	1		EPA 6020A	Total Recoverable
Thallium	0.00107		0.00100	0.000472	mg/L	1		EPA 6020A	Total Recoverable
Selenium	0.0144		0.00500	0.000739	mg/L	1		EPA 6020A	Total Recoverable
Lithium	2.16		0.100	0.0258	mg/L	20		EPA 6020A	Total Recoverable
Total Dissolved Solids	6300		40.0	40.0	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SP-33
Lab Sample ID: 860-67555-1
Date Collected: 02/07/24 11:10
Matrix: Water
Date Received: 02/08/24 10:24

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**1910**		400	160	mg/L			02/26/24 13:55	400
Fluoride	16.0	U	40.0	16.0	mg/L			02/26/24 13:55	400
Chloride	**5670**		200	80.0	mg/L			02/26/24 13:55	400

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.00538**		0.00100	0.000282	mg/L		02/13/24 11:40	02/14/24 14:26	1
Boron	**6.45**		1.60	1.20	mg/L		02/13/24 11:40	02/15/24 13:38	20
Barium	**0.0370**		0.0100	0.00314	mg/L		02/13/24 11:40	02/14/24 14:26	1
Beryllium	**0.0255**		0.00100	0.000274	mg/L		02/13/24 11:40	02/14/24 14:26	1
Calcium	**1410**		10.0	2.54	mg/L		02/13/24 11:40	02/15/24 13:38	20
Cadmium	**0.0155**		0.00100	0.000217	mg/L		02/13/24 11:40	02/14/24 14:26	1
Chromium	**0.226**		0.00200	0.00153	mg/L		02/13/24 11:40	02/15/24 16:01	1
Cobalt	**0.0883**		0.000500	0.000261	mg/L		02/13/24 11:40	02/14/24 14:26	1
Magnesium	**59.0**		0.500	0.0498	mg/L		02/13/24 11:40	02/14/24 14:26	1
Molybdenum	0.000610	U	0.00500	0.000610	mg/L		02/13/24 11:40	02/14/24 14:26	1
Sodium	**2130**		10.0	3.68	mg/L		02/13/24 11:40	02/15/24 13:38	20
Lead	**0.000590**	**J**	0.00100	0.000376	mg/L		02/13/24 11:40	02/14/24 14:26	1
Antimony	0.000967	U	0.00200	0.000967	mg/L		02/13/24 11:40	02/14/24 14:26	1
Thallium	**0.00879**		0.00100	0.000472	mg/L		02/13/24 11:40	02/14/24 14:26	1
Selenium	**0.0312**		0.00500	0.000739	mg/L		02/13/24 11:40	02/14/24 14:26	1
Lithium	**0.855**		0.00500	0.00129	mg/L		02/13/24 11:40	02/14/24 14:26	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.130	U	0.200	0.130	ug/L		02/12/24 09:32	02/12/24 14:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/17/24 01:28	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/17/24 01:28	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/17/24 01:28	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/17/24 01:28	1
Total Dissolved Solids (SM 2540C)	**9750**		100	100	mg/L			02/13/24 11:58	1

Client Sample ID: SP-31
Lab Sample ID: 860-67555-2
Date Collected: 02/07/24 10:10
Matrix: Water
Date Received: 02/08/24 10:24

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**4750**		50.0	20.0	mg/L			02/26/24 14:06	50
Fluoride	**7.88**		5.00	2.00	mg/L			02/26/24 14:06	50
Chloride	**281**		25.0	10.0	mg/L			02/26/24 14:06	50

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0378**		0.00100	0.000282	mg/L		02/13/24 11:40	02/14/24 14:28	1
Boron	**4.66**		1.60	1.20	mg/L		02/13/24 11:40	02/15/24 13:41	20

Client Sample ID: SP-31
Lab Sample ID: 860-67555-2
Date Collected: 02/07/24 10:10
Matrix: Water
Date Received: 02/08/24 10:24

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.0188**		0.0100	0.00314	mg/L		02/13/24 11:40	02/14/24 14:28	1
Beryllium	**0.242**		0.00100	0.000274	mg/L		02/13/24 11:40	02/14/24 14:28	1
Calcium	**457**		0.500	0.127	mg/L		02/13/24 11:40	02/14/24 14:28	1
Cadmium	**0.121**		0.00100	0.000217	mg/L		02/13/24 11:40	02/14/24 14:28	1
Chromium	**0.00201**		0.00200	0.00153	mg/L		02/13/24 11:40	02/15/24 16:04	1
Cobalt	**0.592**		0.000500	0.000261	mg/L		02/13/24 11:40	02/14/24 14:28	1
Magnesium	**172**		0.500	0.0498	mg/L		02/13/24 11:40	02/14/24 14:28	1
Molybdenum	0.000610	U	0.00500	0.000610	mg/L		02/13/24 11:40	02/14/24 14:28	1
Sodium	**1100**		10.0	3.68	mg/L		02/13/24 11:40	02/15/24 13:41	20
Lead	**0.00574**		0.00100	0.000376	mg/L		02/13/24 11:40	02/14/24 14:28	1
Antimony	0.000967	U ^5+	0.00200	0.000967	mg/L		02/13/24 11:40	02/21/24 16:38	1
Thallium	**0.00107**		0.00100	0.000472	mg/L		02/13/24 11:40	02/14/24 14:28	1
Selenium	**0.0144**		0.00500	0.000739	mg/L		02/13/24 11:40	02/14/24 14:28	1
Lithium	**2.16**		0.100	0.0258	mg/L		02/13/24 11:40	02/15/24 13:41	20

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.130	U	0.200	0.130	ug/L		02/12/24 09:32	02/12/24 14:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/17/24 01:03	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/17/24 01:03	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/17/24 01:03	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/17/24 01:03	1
Total Dissolved Solids (SM 2540C)	**6300**		40.0	40.0	mg/L			02/13/24 11:58	1

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 680-824545/2
Matrix: Water
Analysis Batch: 824545

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	0.400	U	1.00	0.400	mg/L			02/26/24 11:26	1
Fluoride	0.0400	U	0.100	0.0400	mg/L			02/26/24 11:26	1
Chloride	0.200	U	0.500	0.200	mg/L			02/26/24 11:26	1

Lab Sample ID: LCS 680-824545/4
Matrix: Water
Analysis Batch: 824545

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	20.0	19.02		mg/L		95	90 - 110
Fluoride	1.00	1.035		mg/L		103	90 - 110
Chloride	5.00	5.077		mg/L		102	90 - 110

Lab Sample ID: LCSD 680-824545/5
Matrix: Water
Analysis Batch: 824545

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	20.0	20.99		mg/L		105	90 - 110	10	15
Fluoride	1.00	1.081		mg/L		108	90 - 110	4	15
Chloride	5.00	5.323		mg/L		106	90 - 110	5	15

Method: EPA 6020A - Metals (ICP/MS)

Lab Sample ID: MB 180-459508/1-A
Matrix: Water
Analysis Batch: 459696

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 459508

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.000282	U	0.00100	0.000282	mg/L		02/13/24 11:40	02/14/24 13:41	1
Barium	0.00314	U	0.0100	0.00314	mg/L		02/13/24 11:40	02/14/24 13:41	1
Beryllium	0.000274	U	0.00100	0.000274	mg/L		02/13/24 11:40	02/14/24 13:41	1
Calcium	0.127	U	0.500	0.127	mg/L		02/13/24 11:40	02/14/24 13:41	1
Cadmium	0.000217	U	0.00100	0.000217	mg/L		02/13/24 11:40	02/14/24 13:41	1
Cobalt	0.000261	U	0.000500	0.000261	mg/L		02/13/24 11:40	02/14/24 13:41	1
Magnesium	0.0498	U	0.500	0.0498	mg/L		02/13/24 11:40	02/14/24 13:41	1
Molybdenum	0.000610	U	0.00500	0.000610	mg/L		02/13/24 11:40	02/14/24 13:41	1
Sodium	0.184	U	0.500	0.184	mg/L		02/13/24 11:40	02/14/24 13:41	1
Lead	0.000376	U	0.00100	0.000376	mg/L		02/13/24 11:40	02/14/24 13:41	1
Antimony	0.000967	U	0.00200	0.000967	mg/L		02/13/24 11:40	02/14/24 13:41	1
Thallium	0.000472	U	0.00100	0.000472	mg/L		02/13/24 11:40	02/14/24 13:41	1
Selenium	0.000739	U	0.00500	0.000739	mg/L		02/13/24 11:40	02/14/24 13:41	1
Lithium	0.00129	U	0.00500	0.00129	mg/L		02/13/24 11:40	02/14/24 13:41	1

Lab Sample ID: MB 180-459508/1-A
Matrix: Water
Analysis Batch: 459868

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 459508

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.0601	U	0.0800	0.0601	mg/L		02/13/24 11:40	02/15/24 12:39	1

Method: EPA 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 180-459508/1-A
Matrix: Water
Analysis Batch: 459868

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 459508

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	0.00153	U	0.00200	0.00153	mg/L		02/13/24 11:40	02/15/24 12:39	1

Lab Sample ID: LCS 180-459508/2-A
Matrix: Water
Analysis Batch: 459696

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 459508

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	1.00	1.041		mg/L		104	80 - 120
Barium	1.00	1.028		mg/L		103	80 - 120
Beryllium	0.500	0.5029		mg/L		101	80 - 120
Calcium	25.0	27.76		mg/L		111	80 - 120
Cadmium	0.500	0.5193		mg/L		104	80 - 120
Cobalt	0.500	0.5114		mg/L		102	80 - 120
Magnesium	25.0	26.60		mg/L		106	80 - 120
Molybdenum	0.500	0.5203		mg/L		104	80 - 120
Sodium	25.0	27.03		mg/L		108	80 - 120
Lead	0.500	0.5194		mg/L		104	80 - 120
Antimony	0.250	0.2674		mg/L		107	80 - 120
Thallium	1.00	1.063		mg/L		106	80 - 120
Selenium	1.00	1.029		mg/L		103	80 - 120
Lithium	0.500	0.4936		mg/L		99	80 - 120

Lab Sample ID: LCS 180-459508/2-A
Matrix: Water
Analysis Batch: 459868

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 459508

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.25	1.229		mg/L		98	80 - 120
Chromium	0.500	0.5018		mg/L		100	80 - 120

Method: EPA 7470A - Mercury (CVAA)

Lab Sample ID: MB 180-459411/1-A
Matrix: Water
Analysis Batch: 459448

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 459411

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.130	U	0.200	0.130	ug/L		02/12/24 09:32	02/12/24 13:58	1

Lab Sample ID: LCS 180-459411/2-A
Matrix: Water
Analysis Batch: 459448

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 459411

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	2.50	2.604		ug/L		104	80 - 120

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-145982/88
Matrix: Water
Analysis Batch: 145982

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	4.00	U	4.00	4.00	mg/L			02/16/24 23:36	1
Bicarbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			02/16/24 23:36	1
Carbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			02/16/24 23:36	1
Hydroxide Alkalinity	4.00	U	4.00	4.00	mg/L			02/16/24 23:36	1

Lab Sample ID: LCS 860-145982/89
Matrix: Water
Analysis Batch: 145982

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Alkalinity			250	267.7		mg/L		107	85 - 115		

Lab Sample ID: LCSD 860-145982/90
Matrix: Water
Analysis Batch: 145982

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Alkalinity			250	269.3		mg/L		108	85 - 115	1	20

Lab Sample ID: 860-67555-2 DU
Matrix: Water
Analysis Batch: 145982

Client Sample ID: SP-31
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Alkalinity	4.00	U		4.00	U	mg/L				NC	20
Bicarbonate Alkalinity as CaCO3	4.00	U		4.00	U	mg/L				NC	20
Carbonate Alkalinity as CaCO3	4.00	U		4.00	U	mg/L				NC	20
Hydroxide Alkalinity	4.00	U		4.00	U	mg/L				NC	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 860-145111/1
Matrix: Water
Analysis Batch: 145111

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5.00	U	5.00	5.00	mg/L			02/13/24 11:58	1

Lab Sample ID: LCS 860-145111/2
Matrix: Water
Analysis Batch: 145111

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			1000	1003		mg/L		100	80 - 120		

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: LCSD 860-145111/3
Matrix: Water
Analysis Batch: 145111

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids			1000	983.0		mg/L		98	80 - 120	2	10

Lab Sample ID: LLCS 860-145111/4
Matrix: Water
Analysis Batch: 145111

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

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			5.00	6.000		mg/L		120	50 - 150		

HPLC/IC

Analysis Batch: 824545

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-67555-1	SP-33	Total/NA	Water	300.0-1993 R2.1	
860-67555-2	SP-31	Total/NA	Water	300.0-1993 R2.1	
MB 680-824545/2	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 680-824545/4	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
LCSD 680-824545/5	Lab Control Sample Dup	Total/NA	Water	300.0-1993 R2.1	

Metals

Prep Batch: 459411

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-67555-1	SP-33	Total/NA	Water	7470A	
860-67555-2	SP-31	Total/NA	Water	7470A	
MB 180-459411/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-459411/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 459448

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-67555-1	SP-33	Total/NA	Water	EPA 7470A	459411
860-67555-2	SP-31	Total/NA	Water	EPA 7470A	459411
MB 180-459411/1-A	Method Blank	Total/NA	Water	EPA 7470A	459411
LCS 180-459411/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	459411

Prep Batch: 459508

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-67555-1	SP-33	Total Recoverable	Water	3005A	
860-67555-2	SP-31	Total Recoverable	Water	3005A	
MB 180-459508/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-459508/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 459696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-67555-1	SP-33	Total Recoverable	Water	EPA 6020A	459508
860-67555-2	SP-31	Total Recoverable	Water	EPA 6020A	459508
MB 180-459508/1-A	Method Blank	Total Recoverable	Water	EPA 6020A	459508
LCS 180-459508/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020A	459508

Analysis Batch: 459868

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-67555-1	SP-33	Total Recoverable	Water	EPA 6020A	459508
860-67555-1	SP-33	Total Recoverable	Water	EPA 6020A	459508
860-67555-2	SP-31	Total Recoverable	Water	EPA 6020A	459508
860-67555-2	SP-31	Total Recoverable	Water	EPA 6020A	459508
MB 180-459508/1-A	Method Blank	Total Recoverable	Water	EPA 6020A	459508
LCS 180-459508/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020A	459508

Analysis Batch: 460366

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-67555-2	SP-31	Total Recoverable	Water	EPA 6020A	459508

QC Association Summary

Client: GSI Environmental Inc
Job ID: 860-67555-1
Project/Site: San Miguel Electrical Co-Op 1H24 GW

General Chemistry

Analysis Batch: 145111

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-67555-1	SP-33	Total/NA	Water	SM 2540C	
860-67555-2	SP-31	Total/NA	Water	SM 2540C	
MB 860-145111/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-145111/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-145111/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
LLCS 860-145111/4	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 145982

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-67555-1	SP-33	Total/NA	Water	SM 2320B	
860-67555-2	SP-31	Total/NA	Water	SM 2320B	
MB 860-145982/88	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-145982/89	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-145982/90	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
860-67555-2 DU	SP-31	Total/NA	Water	SM 2320B	

Lab Chronicle

Client: GSI Environmental Inc
Job ID: 860-67555-1
Project/Site: San Miguel Electrical Co-Op 1H24 GW

Client Sample ID: SP-33
Lab Sample ID: 860-67555-1
Date Collected: 02/07/24 11:10
Matrix: Water
Date Received: 02/08/24 10:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		400	2 mL	2 mL	824545	02/26/24 13:55	UI	EET SAV
Total Recoverable	Prep	3005A			25 mL	25 mL	459508	02/13/24 11:40	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			459696	02/14/24 14:26	MRG	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459508	02/13/24 11:40	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		20			459868	02/15/24 13:38	MRG	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459508	02/13/24 11:40	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			459868	02/15/24 16:01	MRG	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	459411	02/12/24 09:32	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			459448	02/12/24 14:23	RJR	EET PIT
Total/NA	Analysis	SM 2320B		1			145982	02/17/24 01:28	YG	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	145111	02/13/24 11:58	YG	EET HOU

Client Sample ID: SP-31
Lab Sample ID: 860-67555-2
Date Collected: 02/07/24 10:10
Matrix: Water
Date Received: 02/08/24 10:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		50	2 mL	2 mL	824545	02/26/24 14:06	UI	EET SAV
Total Recoverable	Prep	3005A			25 mL	25 mL	459508	02/13/24 11:40	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			459696	02/14/24 14:28	MRG	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459508	02/13/24 11:40	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		20			459868	02/15/24 13:41	MRG	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459508	02/13/24 11:40	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			459868	02/15/24 16:04	MRG	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459508	02/13/24 11:40	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			460366	02/21/24 16:38	MRG	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	459411	02/12/24 09:32	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			459448	02/12/24 14:24	RJR	EET PIT
Total/NA	Analysis	SM 2320B		1			145982	02/17/24 01:03	YG	EET HOU
Total/NA	Analysis	SM 2540C		1	25 mL	200 mL	145111	02/13/24 11:58	YG	EET HOU

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

EET PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: GSI Environmental Inc
Job ID: 860-67555-1
Project/Site: San Miguel Electrical Co-Op 1H24 GW

Laboratory: Eurofins Houston

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215	02-20-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
SM 2320B		Water	Bicarbonate Alkalinity as CaCO3
SM 2320B		Water	Carbonate Alkalinity as CaCO3
SM 2320B		Water	Hydroxide Alkalinity

Laboratory: Eurofins Pittsburgh

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

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	06-27-24
California	State	2891	04-30-24
Connecticut	State	PH-0688	09-30-24
Florida	NELAP	E871008	06-30-24
Georgia	State	PA 02-00416	04-30-24
Illinois	NELAP	004375	06-30-24
Kansas	NELAP	E-10350	01-31-25
Kentucky (UST)	State	162013	04-30-23 *
Kentucky (WW)	State	KY98043	12-31-23 *
Louisiana	NELAP	04041	06-30-22 *
Louisiana (All)	NELAP	04041	06-30-24
Maine	State	PA00164	03-06-24
Minnesota	NELAP	042-999-482	12-31-24
New Hampshire	NELAP	2030	04-04-24
New Jersey	NELAP	PA005	06-30-24
New York	NELAP	11182	04-01-24
North Carolina (WW/SW)	State	434	12-31-24
North Dakota	State	R-227	04-30-24
Oregon	NELAP	PA-2151	02-06-24 *
Pennsylvania	NELAP	02-00416	04-30-24
Rhode Island	State	LAO00362	12-31-22 *
South Carolina	State	89014	04-30-25
Texas	NELAP	T104704528	03-31-24
US Fish & Wildlife	US Federal Programs	058448	03-31-24
USDA	US Federal Programs	P330-16-00211	04-11-26
Utah	NELAP	PA001462019-8	05-31-24
Virginia	NELAP	10043	07-14-24
West Virginia DEP	State	142	01-31-25
Wisconsin	State	998027800	08-31-24

Laboratory: Eurofins Savannah

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

Authority	Program	Identification Number	Expiration Date
	AFCEE	SAVLAB	
Alabama	State	41450	06-30-24
ANAB	Dept. of Defense ELAP	L2463	09-22-24
Arkansas (DW)	State	GA00006	06-30-24

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification Summary

Client: GSI Environmental Inc
Job ID: 860-67555-1
Project/Site: San Miguel Electrical Co-Op 1H24 GW

Laboratory: Eurofins Savannah (Continued)

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

Authority	Program	Identification Number	Expiration Date
California	State	2939	06-30-24
Florida	NELAP	E87052	06-30-24
Georgia	State	E87052	06-30-24
Georgia (DW)	State	803	06-30-24
Guam	State	19-007R	04-17-24
Hawaii	State	<cert No.>	06-30-24
Illinois	NELAP	200022	11-30-24
Indiana	State	C-GA-02	06-30-24
Iowa	State	353	07-01-25
Kentucky (UST)	State	NA	06-30-24
Louisiana	NELAP	30690	06-30-24
Louisiana (All)	NELAP	30690	06-30-24
Louisiana (DW)	State	LA009	12-31-24
Maine	State	GA00006	09-25-24
Maryland	State	250	12-31-24
Massachusetts	State	M-GA006	06-30-24
Michigan	State	9925	06-30-24
Mississippi	State	<cert No.>	06-30-24
Nebraska	State	NE-OS-7-04	06-30-24
New Jersey	NELAP	GA769	06-30-24
New Mexico	State	GA00006	06-30-24
North Carolina (DW)	State	13701	07-31-24
North Carolina (WW/SW)	State	269	12-31-24
Pennsylvania	NELAP	68-00474	06-30-24
Puerto Rico	State	GA00006	01-01-25
South Carolina	State	98001	06-30-24
Tennessee	State	TN02961	06-30-24
Texas	NELAP	T1047004185	11-30-24
Texas	TCEQ Water Supply	T104704185	06-30-24
USDA	US Federal Programs	P330-18-00313	09-03-24
Virginia	NELAP	460161	06-14-24
Wyoming	State	8TMS-L	06-30-24

Method Summary

Client: GSI Environmental Inc
Job ID: 860-67555-1
Project/Site: San Miguel Electrical Co-Op 1H24 GW

Method	Method Description	Protocol	Laboratory
300.0-1993 R2.1	Anions, Ion Chromatography	MCAWW	EET SAV
EPA 6020A	Metals (ICP/MS)	SW846	EET PIT
EPA 7470A	Mercury (CVAA)	SW846	EET PIT
SM 2320B	Alkalinity	SM	EET HOU
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET HOU
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET PIT
7470A	Preparation, Mercury	SW846	EET PIT

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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 HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

EET PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Sample Summary

Client: GSI Environmental Inc
Job ID: 860-67555-1
Project/Site: San Miguel Electrical Co-Op 1H24 GW

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-67555-1	SP-33	Water	02/07/24 11:10	02/08/24 10:24
860-67555-2	SP-31	Water	02/07/24 10:10	02/08/24 10:24

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins Environment Testing

2/27/2024

Client Information	Sampler: Scott Hde + HMT Team	Lab PM: Kudchadkar Sachin G	Carrier Tracking No(s):	COC No: 860-26213-5715.1
Client Contact: Mike Schofield	Phone: 832-347-4521	E-Mail: Sachin.Kudchadkar@et.eurofinsus.com	State of Origin: TX	Page: Page 1 of 1
Company: GSI Environmental Inc	PWSID:			Job #:
Address: 9600 Great Hills Trail Suite 350E	Due Date Requested:			
City: Austin	TAT Requested (days): 5 DAY TAT			
State, Zip: TX, 78759	Compliance Project: Δ Yes Δ No			
Phone: 512-346-4474(Tel) 512-346-4476(Fax)	PO #: Purchase Order Requested			
Email: mlschofield@gsi-net.com	WO #:			
Project Name: San Miguel Electrical Co-Op ~~2H24~~ 1H24 GW (Additional)	Project #: 86001746			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Y Trizma, Z other (specify)
Other

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2320B, 300_ORGFM_28D	8260C (MOD) Custom List 6020A Par GSI + Na, Mg	2540C_Calcd Local Method	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	D SM	N		
SP-33	2-7-24	1110	G	Water			✓	✓	✓		
SP-31	↓	1010	G	Water			✓	✓	✓		

860-67555 Chain of Custody

Temp: 3.0 IR ID: HOU-369
C/F -0.0
Corrected Temp: 3.0

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I II III IV Other (specify)

Special Instructions/QC Requirements.

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: Cars Dropoff

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
[signature]	2-8-24 1024	HMT			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: [signature]	Date/Time: 2824 1024	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.

Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone 281-240-4200

Chain of Custody Record

eurofins

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-94989 1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@et.eurofinsus.com	State of Origin: Texas	Page: Page 1 of 1
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): NELAP - Texas		Job #: 860-67555-1
Address: 301 Alpha Drive, RIDC Park,	Due Date Requested: 3/4/2024			
City: Pittsburgh	TAT Requested (days):			
State, Zip: PA, 15238				
Phone: 412-963-7058(Tel) 412-963-2468(Fax)	PO #:			
Email:	WO #:			
Project Name: San Miguel Electrical Co-Op 2H23 GW	Project #: 86001746			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

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)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020A/3005A (MOD) Custom List	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
SP-33 (860-67555-1)	2/7/24	11 10 Central		Water			X	1	Please analyze at the lowest possible dilution
SP-31 (860-67555-2)	2/7/24	10 10 Central		Water			X	1	Please analyze at the lowest possible dilution

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification: Unconfirmed	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) — Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company
1	[signature]	2/8/24		[signature]	2/9/24 0930	[illegible]
2	Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company
3	Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-96612.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@et.eurofinsus.com	State of Origin: Texas	Page: Page 1 of 1
Company: Eurofins Environment Testing Southeast,		Accreditations Required (See note): NELAP - Texas		Job #: 860-67555-1
Address: 5102 LaRoche Avenue, ,	Due Date Requested: 2/15/2024			
City: Savannah	TAT Requested (days):			
State, Zip: GA, 31404				
Phone: 912-354-7858(Tel) 912-352-0165(Fax)	PO #:			
Email:	WO #:			
Project Name: San Miguel Electrical Co-Op	Project #: 86001746			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

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)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D/ (MOD) Any Three Anions	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
SP-33 (860-67555-1)	2/7/24	11:10 Central		Water			X	1	
SP-31 (860-67555-2)	2/7/24	10:10 Central		Water			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	2-16-24 1800				
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: C. Mino	Date/Time: 2/17/24 0952	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.3/1.3

Login Sample Receipt Checklist

Client: GSI Environmental Inc

Job Number: 860-67555-1

Login Number: 67555
List Number: 1
Creator: Torrez, Lisandra

List Source: Eurofins Houston

Question	Answer	Comment
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	

Login Sample Receipt Checklist

Client: GSI Environmental Inc

Job Number: 860-67555-1

Login Number: 67555
List Number: 2
Creator: Mullins, Plumm A

List Source: Eurofins Pittsburgh
List Creation: 02/09/24 05:09 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are 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?	N/A	
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	

Login Sample Receipt Checklist

Client: GSI Environmental Inc

Job Number: 860-67555-1

Login Number: 67555
List Number: 3
Creator: Munro, Caroline

List Source: Eurofins Savannah
List Creation: 02/17/24 12:59 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are 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 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.	N/A	
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").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

GSI ENVIRONMENTAL

DATA USABILITY SUMMARY

February 2024 Sampling Event (Job ID: 860-67548-1)

OVERVIEW

GSI Environmental Inc. (GSI) reviewed one data package from Eurofins Houston located in Stafford, Texas (EET HOU) for the analysis of **fourteen groundwater samples collected at the Ash Pond on 7 February 2024**[1] at the San Miguel Electric Cooperative, Inc., Christine, Atascosa County, Texas site. Data were reviewed for i) conformance to the requirements of the guidance document *Review and Reporting of COC Concentration Data* (RG-366/TRRP-13) and ii) adherence to project objectives (e.g., GSI 2019). The alkalinity and total dissolved solids analyses were conducted by EET HOU, while the metals and mercury analyses were conducted by the Eurofins Pittsburgh, Pennsylvania (EET PIT) laboratory and the anions analyses were conducted by the Eurofins Savannah, Georgia (EET SAV) laboratory. GSI certifies that at the time the laboratory data were generated for the project, EET HOU, EET PIT and EET SAV were National Environmental Laboratory Accreditation Program (NELAP)-accredited under the Texas Laboratory Accreditation Program (Certification Number: T104704215, T104704528 and T1047004185 respectively) for the matrices, analytes, and methods of analysis requested on the chain-of-custody documentation. A copy of EET HOU, EET PIT and EET SAV's NELAP certificates applicable to the period during which the laboratory generated the data in this report is included as Attachment A.

Intended Use of Data

Samples were collected to provide current data on groundwater conditions at the test location. Analyses requested included:

- Method 6020A - Metals (Inductively Coupled Plasma (ICP)/Mass Spectrometry)
- Method 7470A – Mercury (Cold Vapor Atomic Absorption [CVAA] Spectroscopy)
- Method 300.0 – Anions, Ion Chromatography
- Method SM2320B - Alkalinity
- Method SM2540C - Total Dissolved Solids (TDS)

Data were reviewed and validated, as described in *Review and Reporting of COC Concentration Data* (RG-366/TRRP-13), and the results are discussed in this Data Usability Summary (DUS). The following laboratory submittals and field data were examined:

- the reportable data (i.e., results provided in the laboratory data package),
- the laboratory review checklists and associated exception reports, and
- the field notes with respect to field instrument calibrations, filtering procedures (if applicable), and sampling procedures.

[1] Eleven samples plus one field duplicate, one field blank, and one equipment blank.

The results of supporting quality control (QC) analyses were summarized in the laboratory case narrative (LCN), which was included in this review. The case narrative and reportable data included in this review are attached to this DUS as Attachment B.

INTRODUCTION

Fourteen (14) water samples were submitted to the laboratory, and all requested analyses were completed. Table 1 lists the sample identifications cross-referenced to laboratory identifications.

PROJECT MEASUREMENT QUALITY OBJECTIVES

The following criteria were used in this review:

	MS/MSD		**LCS/LCSD**		**Lab Dup**	**Field Precision**
Analytes	% R	RPD	% R	RPD	RPD	RPD
Metals	75 – 125	20	80 – 120	-	-	≤ 30%
Mercury	75 – 125	20	80 – 120	-	-	≤ 30%
Inorganic Anions	80 – 120	15	90 – 110	15	-	≤ 30%
Alkalinity	-	-	85 – 115	20	20	≤ 30%
Total Dissolved Solids (TDS)	-	-	80 – 120	10	10	≤ 30%

DATA REVIEW / VALIDATION RESULTS

Analytical Results

Results from these samples may be considered usable with the limitations and exceptions described in this section. Sample data qualified as a result of this DUS, if any, are listed in Table 3. Non-detected results are reported as less than the value of the method detection limit (MDL). Results between the MDL and reporting limit (RL) are J-flagged.

Finding: All requested analyses were completed, and results were reported as requested.

Preservation and Holding Times

The samples were evaluated for agreement with the chain-of-custody (C-O-C). The samples were received by the laboratory in the appropriate containers and in good condition, with proper completion of the C-O-C documentation. Samples receipt temperature was within the acceptance criteria, and field preservation was done as specified in the Sampling and Analysis Plan [SAP] (GSI, 2019). Samples were prepared and analyzed within method-specified holding times, with exceptions noted below. Items related to the C-O-C are also listed below.

- The sample identified as DUP-02 on the C-O-C is a field duplicate of sample MW-03.

Items related to sample preparation are listed below.

- Samples AP-35, AP-36, MW-03 and DUP-02 by Method 300.0 were diluted to bring the concentration of target analytes within the calibration range. Elevated RLs are provided.

- Samples PZ-02, PZ-03, PZ-05, PZ-06, AP-31, AP-32, AP-33, AP-34, AP-35, AP-36, MW-03 and DUP-02 by Method 6020A were diluted to bring the concentration of target analytes within the calibration range. Elevated RLs are provided.

Finding: No qualifiers were added per this evaluation.

Calibrations

The following issues were noted with the laboratory calibrations:

- For Method 6020A, the linear range check (LRC) standard recovery associated with preparation batch 180-459431 and analytical batch 180-459602 were outside control limits for Barium and Cadmium. The concentrations of these analytes are below those found in the calibration standards. The sample results have been reported.

- For Method 6020A, the linear range check (LRC) standard recovery associated with preparation batch 180-459431 and analytical batch 180-459743 was outside control limits for Antimony. The concentration of this analyte is below those found in the calibration standards. The sample results have been reported.

- For Method 6020A, the linear range check (LRC) standard recovery associated with preparation batch 180-459431 and analytical batch 180-459980 were outside control limits for Silicon and SiO2. The concentrations of these analytes are below those found in the calibration standards. The sample results have been reported.

- For Method 6020A, the continuing calibration blank (CCB) for analytical batch 180-459743 contained Calcium and Sodium above the RL. All reported samples associated with this CCB were either non-detect for these analytes or contained these analytes at a concentration greater than 10X the value found in the CCB; therefore, reanalysis was not performed.

Finding: No qualifiers were added per this evaluation.

Blanks

Method (Laboratory) Blanks

The following issues were noted with the laboratory blanks:

- For Method SM2320B, the instrument blank for analytical batch 860-145687 contained Total Alkalinity greater than the RL, and were not reanalyzed because associated sample results were greater than 10X the value found in the instrument blank/CCB or have a 0.00 result.

Field Blanks

The following issues were noted with the blank collected in the field:

- Sulfate, Chloride, Boron, Calcium, Sodium, Lithium and TDS were detected in the Field Blank at concentrations above the MDL. The field blank sample (FB-02) consists of distilled water that is exposed to ambient air on the day of sample collection. All field samples collected contained concentrations of Sulfate, Chloride, Boron, Calcium, Sodium, Lithium and TDS that were greater than 5X the associated field blank concentration and did not require qualifiers.

- Chloride, Boron, Sodium and Lithium were detected in the Equipment Blank at concentrations above the MDL. The equipment blank sample (EB-01) consists of distilled water that was poured over decontaminated non-dedicated sampling equipment. All field samples collected contained concentrations of Chloride, Boron, Sodium and Lithium that were greater than 5X the associated field blank concentration and did not require qualifiers.

Finding: No qualifiers were added per this evaluation.

Internal Standard and Surrogate Recoveries (VOCs and SVOCs Only)

Not applicable.

Laboratory Control Samples

The Laboratory Control Sample (LCS)/Laboratory Control Sample Duplicate (LCSD) recoveries and Relative Percent Differences (RPDs) were within the project-defined QC acceptance criteria.

Finding: No qualifiers were added per this evaluation.

Matrix Spike/Matrix Spike Duplicates and Laboratory Duplicates

The LCN and lab report indicated the following issues with matrix spike (MS)/matrix spike duplicate (MSD) data:

- The recoveries for analytical batch 680-824633 analyzed using sample PZ-03 were outside control limits for Sulfate (MS/MSD) and Chloride (MS/MSD). Recoveries of Sulfate in the MS/MSD samples were 783% and 794%, respectively, above the desired range of 80-120%. Recoveries of Chloride in the MS/MSD samples were 1411% and 1423%, respectively, above the desired range of 80-120%. Sample matrix interference and/or non-homogeneity are suspected because the associated LCS/LCSD recoveries were within acceptance limits. MS/MSD Sample was not diluted properly. In addition, the spiking amounts were less than 4 times the result in the unspiked parent sample. As a result, no additional qualifiers were added as part of this evaluation.
- The recoveries for analytical batch 180-459743 and preparation batch 180-459431 analyzed using sample PZ-03 were outside control limits for Calcium (MS/MSD). Recoveries of Calcium in the MS/MSD samples were 176% and 255%, respectively, above the desired range of 75-125%. Sample matrix interference and/or non-homogeneity are suspected because the associated LCS/LCSD recoveries were within acceptance limits. In addition, the spiking amounts were less than 4 times the result in the unspiked parent sample. As a result, no additional qualifiers were added as part of this evaluation.

- The recoveries for analytical batch 180-459980 and preparation batch 180-459431 analyzed using sample PZ-03 were outside control limits for Sodium (MS/MSD) and Lithium (MS/MSD). Recoveries of Sodim in the MS/MSD samples were 383% and 696%, respectively, above the desired range of 75-125%. Sample matrix interference and/or non-homogeneity are suspected because the associated LCS/LCSD recoveries were within acceptance limits. In addition, the spiking amounts were less than 4 times the result in the unspiked parent sample. As a result, no additional qualifiers were added as part of this evaluation.
- The recoveries for analytical batch 180-459602 and preparation batch 180-459431 analyzed using sample PZ-03 were outside control limits for Beryllium (MSD). Recoveries of Beryllium in the MSD sample was 45%, below the desired range of 75-125%. The RPD of the MS/MSD samples was 52, above the RPD limit of 20. Sample matrix interference and/or non-homogeneity are suspected because the associated LCS/LCSD recoveries were within acceptance limits. In addition, the spiking amounts were less than 4 times the result in the unspiked parent sample. As a result, no additional qualifiers were added as part of this evaluation.
- The recoveries for analytical batch 180-460074 and preparation batch 180-459431 analyzed using sample PZ-03 were outside control limits for Boron (MS/MSD). Recoveries of Boron in the MS/MSD samples were 447% and 442%, respectively, above the desired range of 75-125%. Sample matrix interference and/or non-homogeneity are suspected because the associated LCS/LCSD recoveries were within acceptance limits. In addition, the spiking amounts were less than 4 times the result in the unspiked parent sample. As a result, no additional qualifiers were added as part of this evaluation.
- The post digestion spike recovery for several analytes associated with batch 180-459602 was outside of control limits. The associated sample is PZ-03.
- The post digestion spike recovery for several analytes associated with batch 180-459743 was outside of control limits. The associated sample is PZ-03.

Finding: No qualifiers were added per this evaluation.

Field Duplicates (Field Precision)

One field duplicate, identified as DUP-02, was collected with sample MW-03. Results indicate that, RPDs between the parent and duplicate sample results were less than the TCEQ-recommended maximum of 40% (organics) or 30% (metals) for concentrations greater than five times the MQL, or the difference between concentrations was less than twice the MQL for analytes with concentrations less than five times the MQL. A comparison of the field sample and the duplicate sample are shown in Table 2.

Finding: No qualifiers were added per this evaluation.

Field Procedures

Sample collection and documentation was done in accordance with the Groundwater Sampling and Analysis Plan (SAP; GSI, 2019).

Finding: Field activities were consistent with the SAP.

SUMMARY

The analytical data are usable for the purpose of characterizing groundwater conditions. No qualifiers were added based on this review and evaluation.

REFERENCES

GSI Environmental, Inc., 2019, Groundwater Sampling and Analysis Plan, San Miguel Electric Cooperative, Inc., December 26.

TCEQ 2010. Review and Reporting of COC Concentration Data under TRRP, RG-366/TRRP-13 https://www.tceq.texas.gov/assets/public/comm_exec/pubs/rg/rg-366-trrp-13.pdf

TABLES

TABLE 1
Cross-Reference Field Sample and Laboratory Identifications

Sample Date	Lab	Lab Sample ID	Field Sample ID	Matrix
02/07/2024	EET HOU/EET PIT/EET SAV	860-67548-1	PZ-02	Water
02/07/2024	EET HOU/EET PIT/EET SAV	860-67548-2	PZ-03	Water
02/07/2024	EET HOU/EET PIT/EET SAV	860-67548-3	PZ-05	Water
02/07/2024	EET HOU/EET PIT/EET SAV	860-67548-4	PZ-06	Water
02/07/2024	EET HOU/EET PIT/EET SAV	860-67548-5	AP-31	Water
02/07/2024	EET HOU/EET PIT/EET SAV	860-67548-6	AP-32	Water
02/07/2024	EET HOU/EET PIT/EET SAV	860-67548-7	AP-33	Water
02/07/2024	EET HOU/EET PIT/EET SAV	860-67548-8	AP-34	Water
02/07/2024	EET HOU/EET PIT/EET SAV	860-67548-9	AP-35	Water
02/07/2024	EET HOU/EET PIT/EET SAV	860-67548-10	AP-36	Water
02/07/2024	EET HOU/EET PIT/EET SAV	860-67548-11	MW-03	Water
02/07/2024	EET HOU/EET PIT/EET SAV	860-67548-12	DUP-02	Water
02/07/2024	EET HOU/EET PIT/EET SAV	860-67548-13	FB-02	Water
02/07/2024	EET HOU/EET PIT/EET SAV	860-67548-14	EB-01	Water

Notes:
1. EET HOU: Eurofins Houston, Stafford, Texas; EET PIT: Eurofins Pittsburgh, Pittsburgh, Pennsylvania; EET SAV: Eurofins Savannah, Savannah, Georgia

TABLE 2
Field Duplicate Detections

Analyte	MDL (mg/L)	Primary Sample Result (mg/L)	Field Duplicate Result (mg/L)	Relative Percent Difference (RPD)
Sulfate	100	4310	4120	4.5
Fluoride	10.0	10.0 U	10.0 U	0.0
Chloride	50.0	2060	1990	3.5
Arsenic	0.000282	0.0456	0.0464	1.7
Boron	0.601	12.4	13.3	7.0
Barium	0.00314	0.0112	0.0116	3.5
Beryllium	0.000274	0.0267	0.0294	9.6
Calcium	0.127	544	545	0.2
Cadmium	0.000217	0.0450	0.0489	8.3
Chromium	0.00153	0.0114	0.00910	22.4
Cobalt	0.000261	0.357	0.375	4.9
Magnesium	0.0498	88.1	87.3	0.9
Molybdenum	0.000610	0.000610 U	0.000610 U	0.0
Sodium	0.920	2010	2040	1.5
Lead	0.000376	0.000376 U	0.000376 U	0.0
Antimony	0.000967	0.000967 U	0.000967 U	0.0
Thallium	0.000472	0.00179	0.00186	3.8
Selenium	0.000739	0.0101	0.0106	4.8
Lithium	0.0129	2.00	1.92	4.1
Mercury	0.130	0.130 U	0.130 U	0.0
Total Alkalinity	4.00	4.00 U	4.00 U	0.0
Bicarbonate Alkalinity as CaCO3	4.00	4.00 U	4.00 U	0.0
Total Dissolved Solids	100	9700	9510	2.0

Notes:
1. MDL: Method Detection Limit
2. mg/L: milligrams per liter
3. RPD = ABS(PR-FD)/AVERAGE(PR+FD)*100), where PR is the Primary Sample and FD is the Field Duplicate, where the MDL is substituted for results below detection.
4. U = analyte not detected at the stated limit
5. CaCO3: Calcium carbonate

Attachment A

TCEQ NELAP-Recognized Laboratory Accreditation Certificates

Texas Commission on Environmental Quality

NELAP-Recognized Laboratory Accreditation is hereby awarded to

Eurofins Houston

4147 Greenbriar Dr.
Stafford, TX 77477

in accordance with Texas Water Code Chapter 5, Subchapter R, Title 30 Texas Administrative Code Chapter 25, and the National Environmental Laboratory Accreditation Program.

The laboratory's scope of accreditation includes the fields of accreditation that accompany this certificate. Continued accreditation depends upon successful ongoing participation in the program. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current location(s) and accreditation status for particular methods and analyses (www.tceq.texas.gov/goto/lab). Accreditation does not imply that a product, process, system or person is approved by the Texas Commission on Environmental Quality.

Certificate Number: T104704215-23-53
Effective Date: 8/31/2023
Expiration Date: 6/30/2024

Executive Director Texas Commission on Environmental Quality

Texas Commission on Environmental Quality

NELAP-Recognized Laboratory Accreditation is hereby awarded to

Eurofins Pittsburgh

301 Alpha Drive
Pittsburgh, PA 15238-2907

in accordance with Texas Water Code Chapter 5, Subchapter R, Title 30 Texas Administrative Code Chapter 25, and the National Environmental Laboratory Accreditation Program.

The laboratory's scope of accreditation includes the fields of accreditation that accompany this certificate. Continued accreditation depends upon successful ongoing participation in the program. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current location(s) and accreditation status for particular methods and analyses (www.tceq.texas.gov/goto/lab). Accreditation does not imply that a product, process, system or person is approved by the Texas Commission on Environmental Quality.

Erin E. Chancellor

Executive Director Texas Commission on Environmental Quality

Certificate Number: T104704528-23-12
Effective Date: 4/1/2023
Expiration Date: 3/31/2024

Texas Commission on Environmental Quality

NELAP-Recognized Laboratory Accreditation is hereby awarded to

Eurofins Savannah

5102 LaRoche Avenue
Savannah, GA 31404-6019

in accordance with Texas Water Code Chapter 5, Subchapter R, Title 30 Texas Administrative Code Chapter 25, and the National Environmental Laboratory Accreditation Program.

The laboratory's scope of accreditation includes the fields of accreditation that accompany this certificate. Continued accreditation depends upon successful ongoing participation in the program. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current location(s) and accreditation status for particular methods and analyses (www.tceq.texas.gov/goto/lab). Accreditation does not imply that a product, process, system or person is approved by the Texas Commission on Environmental Quality.

Certificate Number: T104704185-23-22
Effective Date: 12/1/2023
Expiration Date: 11/30/2024

Executive Director Texas Commission on Environmental Quality

Attachment B

Eurofins Houston – Stafford, Texas

Analytical Report

Job ID.: 860-67548-1

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mike Schofield
GSI Environmental Inc
9600 Great Hills Trail
Suite 350E
Austin, Texas 78759

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JOB DESCRIPTION

Ash Pond

JOB NUMBER

860-67548-1

Eurofins Houston
4145 Greenbriar Dr
Stafford TX 77477

See page two for job notes and contact information.

my EOL

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.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

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Authorized for release by
Sachin Kudchadkar, Senior Project Manager
Sachin.Kudchadkar@et.eurofinsus.com
(281)748-9025

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Definitions/Glossary

Client: GSI Environmental Inc
Project/Site: Ash Pond

Job ID: 860-67548-1

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
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.

Metals

Qualifier	Qualifier Description
^2	Calibration Blank (ICB and/or CCB) is outside acceptance limits.
^5+	Linear Range Check (LRC) is outside acceptance limits, high biased.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
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.

General Chemistry

Qualifier	Qualifier Description
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.
¤	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)

Glossary (Continued)

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

Job Narrative
860-67548-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 2/8/2024 10:24 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 0.5°C, 0.6°C, 2.5°C and 2.7°C.

HPLC/IC
Method 300_ORGFM_28D: The following samples were diluted to bring the concentration of target analytes within the calibration range: AP-35 (860-67548-9), AP-36 (860-67548-10), MW-03 (860-67548-11) and DUP-02 (860-67548-12). Elevated reporting limits (RLs) are provided.

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 680-824633 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 300_ORGFM_28D: MS/MSD SAMPLE WAS NOT DILUTED PROPERLY.

PZ-03 (860-67548-2[MS]) and PZ-03 (860-67548-2[MSD])

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

Metals
Method 6020A - Total Recoverable: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 180-459431 and analytical batch 180-459602 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 6020A - Total Recoverable: The linear range check (LRC) standard recovery associated with preparation batch 180-459431 and analytical batch 180-459602 is outside the acceptance criteria for the following analytes: Barium, Cadmium and Antimony. The concentration of these analytes are below those found in the calibration standard. The sample results have been reported.

Method 6020A - Total Recoverable: The post digestion spike % recovery for several analytes associated with batch 180-459602 was outside of control limits. The associated sample is: PZ-03 (860-67548-2).

Method 6020A - Total Recoverable: The matrix spike / matrix spike duplicate (MS/MSD) precision for Beryllium preparation batch 180-459431 and analytical batch 180-459602 was outside control limits. Sample matrix interference is suspected.

Method 6020A - Total Recoverable: The following samples were diluted to bring the concentration of target analytes within the calibration range: PZ-02 (860-67548-1), PZ-03 (860-67548-2), PZ-05 (860-67548-3), PZ-06 (860-67548-4), AP-31 (860-67548-5), AP-32 (860-67548-6), AP-33 (860-67548-7), AP-34 (860-67548-8), AP-35 (860-67548-9), AP-36 (860-67548-10), MW-03 (860-67548-11) and DUP-02 (860-67548-12). Elevated reporting limits (RLs) are provided.

Method 6020A - Total Recoverable: The linear range check (LRC) standard recovery associated with preparation batch 180-459431 and analytical batch 180-459743 is outside the acceptance criteria for the following analytes: Antimony. The

concentration of these analytes are below those found in the calibration standard. The sample results have been reported.

Method 6020A - Total Recoverable: The continuing calibration blank (CCB) for analytical batch 180-459743 contained Calcium and Sodium 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.

Method 6020A - Total Recoverable: The continuing calibration blank (CCB) for analytical batch 180-459743 contained Sodium 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.

Method 6020A - Total Recoverable: The post digestion spike % recovery for several analytes associated with batch 180-459743 was outside of control limits. The associated sample is: PZ-03 (860-67548-2).

Method 6020A - Total Recoverable: The following samples were diluted to bring the concentration of target analytes within the calibration range: PZ-02 (860-67548-1), PZ-03 (860-67548-2), PZ-05 (860-67548-3), PZ-06 (860-67548-4), AP-31 (860-67548-5), AP-32 (860-67548-6), AP-33 (860-67548-7), AP-34 (860-67548-8), AP-35 (860-67548-9), AP-36 (860-67548-10), MW-03 (860-67548-11) and DUP-02 (860-67548-12). Elevated reporting limits (RLs) are provided.

Method 6020A - Total Recoverable: The linear range check (LRC) standard recovery associated with preparation batch 180-459431 and analytical batch 180-459980 is outside the acceptance criteria for the following analytes: Silicon and SiO2. The concentration of these analytes are below those found in the calibration standard. The sample results have been reported.

Method 6020A - Total Recoverable: The following samples were diluted to bring the concentration of target analytes within the calibration range: PZ-02 (860-67548-1), PZ-03 (860-67548-2), PZ-05 (860-67548-3), PZ-06 (860-67548-4), AP-31 (860-67548-5), AP-32 (860-67548-6), AP-33 (860-67548-7), AP-34 (860-67548-8), AP-35 (860-67548-9), AP-36 (860-67548-10), MW-03 (860-67548-11), DUP-02 (860-67548-12), FB-02 (860-67548-13) and EB-01 (860-67548-14). Elevated reporting limits (RLs) are provided.

Method 6020A - Total Recoverable: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 180-459431 and analytical batch 180-460074 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 6020A - Total Recoverable: The following samples were diluted to bring the concentration of target analytes within the calibration range: PZ-02 (860-67548-1), PZ-03 (860-67548-2), PZ-05 (860-67548-3), PZ-06 (860-67548-4), AP-31 (860-67548-5), AP-32 (860-67548-6), AP-33 (860-67548-7), AP-34 (860-67548-8), AP-35 (860-67548-9), AP-36 (860-67548-10), MW-03 (860-67548-11) and DUP-02 (860-67548-12). Elevated reporting limits (RLs) are provided.

Method 6020A - Total Recoverable: The following samples was diluted to bring the concentration of target analytes within the calibration range: PZ-02 (860-67548-1). Elevated reporting limits (RLs) are provided.

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

General Chemistry
Method 2320B: The instrument blank for analytical batch 860-145687 contained Total Alkalinity greater than the reporting limit (RL), and were not reanalyzed because sample results are 10x the blank or have a 0.00 result. The data have been qualified and reported.

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

Detection Summary

Client: GSI Environmental Inc
Project/Site: Ash Pond

Job ID: 860-67548-1

Client Sample ID: PZ-02 — Lab Sample ID: 860-67548-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	2730		500	200	mg/L	500		300.0-1993 R2.1	Total/NA
Chloride	4150		250	100	mg/L	500		300.0-1993 R2.1	Total/NA
Arsenic	0.000906	J	0.00100	0.000282	mg/L	1		EPA 6020A	Total Recoverable
Boron	8.00		1.60	1.20	mg/L	20		EPA 6020A	Total Recoverable
Barium	0.0293	^5+	0.0100	0.00314	mg/L	1		EPA 6020A	Total Recoverable
Beryllium	0.000317	J	0.00100	0.000274	mg/L	1		EPA 6020A	Total Recoverable
Calcium	924		2.50	0.635	mg/L	5		EPA 6020A	Total Recoverable
Cobalt	0.00339		0.000500	0.000261	mg/L	1		EPA 6020A	Total Recoverable
Magnesium	122		0.500	0.0498	mg/L	1		EPA 6020A	Total Recoverable
Sodium	2430		2.50	0.920	mg/L	5		EPA 6020A	Total Recoverable
Lithium	9.51		0.0500	0.0129	mg/L	10		EPA 6020A	Total Recoverable
Total Alkalinity	106		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	106		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	10400		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: PZ-03 — Lab Sample ID: 860-67548-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	3430	F1	1000	400	mg/L	1000		300.0-1993 R2.1	Total/NA
Chloride	5620	F1	500	200	mg/L	1000		300.0-1993 R2.1	Total/NA
Arsenic	0.121		0.00100	0.000282	mg/L	1		EPA 6020A	Total Recoverable
Boron	6.27		1.60	1.20	mg/L	20		EPA 6020A	Total Recoverable
Barium	0.0229	^5+	0.0100	0.00314	mg/L	1		EPA 6020A	Total Recoverable
Beryllium	0.274	F2 F1	0.00100	0.000274	mg/L	1		EPA 6020A	Total Recoverable
Calcium	918		2.50	0.635	mg/L	5		EPA 6020A	Total Recoverable
Cadmium	0.493	^5+	0.00100	0.000217	mg/L	1		EPA 6020A	Total Recoverable
Chromium	0.00266		0.00200	0.00153	mg/L	1		EPA 6020A	Total Recoverable
Cobalt	1.64		0.000500	0.000261	mg/L	1		EPA 6020A	Total Recoverable
Magnesium	239		0.500	0.0498	mg/L	1		EPA 6020A	Total Recoverable
Sodium	3580		5.00	1.84	mg/L	10		EPA 6020A	Total Recoverable
Lead	0.00177		0.00100	0.000376	mg/L	1		EPA 6020A	Total Recoverable
Thallium	0.00896		0.00100	0.000472	mg/L	1		EPA 6020A	Total Recoverable
Selenium	0.0473		0.00500	0.000739	mg/L	1		EPA 6020A	Total Recoverable
Lithium	2.50		0.0500	0.0129	mg/L	10		EPA 6020A	Total Recoverable

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: GSI Environmental Inc
Project/Site: Ash Pond

Job ID: 860-67548-1

Client Sample ID: PZ-03 (Continued) — Lab Sample ID: 860-67548-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	1.37		0.200	0.130	ug/L	1		EPA 7470A	Total/NA
Total Dissolved Solids	16000		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: PZ-05 — Lab Sample ID: 860-67548-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	3230		500	200	mg/L	500		300.0-1993 R2.1	Total/NA
Chloride	2540		250	100	mg/L	500		300.0-1993 R2.1	Total/NA
Arsenic	0.0911		0.00100	0.000282	mg/L	1		EPA 6020A	Total Recoverable
Boron	32.3		0.800	0.601	mg/L	10		EPA 6020A	Total Recoverable
Barium	0.0135	^5+	0.0100	0.00314	mg/L	1		EPA 6020A	Total Recoverable
Beryllium	0.217		0.00100	0.000274	mg/L	1		EPA 6020A	Total Recoverable
Calcium	710		5.00	1.27	mg/L	10		EPA 6020A	Total Recoverable
Cadmium	0.0536	^5+	0.00100	0.000217	mg/L	1		EPA 6020A	Total Recoverable
Chromium	0.00227		0.00200	0.00153	mg/L	1		EPA 6020A	Total Recoverable
Cobalt	0.994		0.000500	0.000261	mg/L	1		EPA 6020A	Total Recoverable
Magnesium	109		0.500	0.0498	mg/L	1		EPA 6020A	Total Recoverable
Sodium	1730		5.00	1.84	mg/L	10		EPA 6020A	Total Recoverable
Thallium	0.00228		0.00100	0.000472	mg/L	1		EPA 6020A	Total Recoverable
Selenium	0.0175		0.00500	0.000739	mg/L	1		EPA 6020A	Total Recoverable
Lithium	0.884		0.00500	0.00129	mg/L	1		EPA 6020A	Total Recoverable
Mercury	0.197	J	0.200	0.130	ug/L	1		EPA 7470A	Total/NA
Total Dissolved Solids	8660		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: PZ-06 — Lab Sample ID: 860-67548-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	2600		500	200	mg/L	500		300.0-1993 R2.1	Total/NA
Chloride	2120		250	100	mg/L	500		300.0-1993 R2.1	Total/NA
Arsenic	0.000384	J	0.00100	0.000282	mg/L	1		EPA 6020A	Total Recoverable
Boron	3.19		0.800	0.601	mg/L	10		EPA 6020A	Total Recoverable
Barium	0.0233	^5+	0.0100	0.00314	mg/L	1		EPA 6020A	Total Recoverable
Beryllium	0.00325		0.00100	0.000274	mg/L	1		EPA 6020A	Total Recoverable
Calcium	752	^2	2.50	0.635	mg/L	5		EPA 6020A	Total Recoverable
Cobalt	0.00323		0.000500	0.000261	mg/L	1		EPA 6020A	Total Recoverable
Magnesium	102		0.500	0.0498	mg/L	1		EPA 6020A	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: PZ-06 (Continued)

Lab Sample ID: 860-67548-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	1600	^2	2.50	0.920	mg/L	5		EPA 6020A	Total Recoverable
Lithium	1.28		0.0500	0.0129	mg/L	10		EPA 6020A	Total Recoverable
Total Alkalinity	73.4		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	73.4		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	8040		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: AP-31

Lab Sample ID: 860-67548-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	2970		500	200	mg/L	500		300.0-1993 R2.1	Total/NA
Chloride	2420		250	100	mg/L	500		300.0-1993 R2.1	Total/NA
Arsenic	0.0239		0.00100	0.000282	mg/L	1		EPA 6020A	Total Recoverable
Boron	66.5		1.60	1.20	mg/L	20		EPA 6020A	Total Recoverable
Barium	0.0142	^5+	0.0100	0.00314	mg/L	1		EPA 6020A	Total Recoverable
Beryllium	0.0162		0.00100	0.000274	mg/L	1		EPA 6020A	Total Recoverable
Calcium	688	^2	2.50	0.635	mg/L	5		EPA 6020A	Total Recoverable
Cadmium	0.00487	^5+	0.00100	0.000217	mg/L	1		EPA 6020A	Total Recoverable
Chromium	0.00183	J	0.00200	0.00153	mg/L	1		EPA 6020A	Total Recoverable
Cobalt	0.291		0.000500	0.000261	mg/L	1		EPA 6020A	Total Recoverable
Magnesium	67.0		0.500	0.0498	mg/L	1		EPA 6020A	Total Recoverable
Sodium	1760	^2	2.50	0.920	mg/L	5		EPA 6020A	Total Recoverable
Thallium	0.00230		0.00100	0.000472	mg/L	1		EPA 6020A	Total Recoverable
Selenium	0.0275		0.00500	0.000739	mg/L	1		EPA 6020A	Total Recoverable
Lithium	0.812		0.00500	0.00129	mg/L	1		EPA 6020A	Total Recoverable
Mercury	0.439		0.200	0.130	ug/L	1		EPA 7470A	Total/NA
Total Dissolved Solids	8350		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: AP-32

Lab Sample ID: 860-67548-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	3690		500	200	mg/L	500		300.0-1993 R2.1	Total/NA
Chloride	3000		250	100	mg/L	500		300.0-1993 R2.1	Total/NA
Arsenic	0.100		0.00100	0.000282	mg/L	1		EPA 6020A	Total Recoverable
Boron	24.7		0.800	0.601	mg/L	10		EPA 6020A	Total Recoverable
Barium	0.0182	^5+	0.0100	0.00314	mg/L	1		EPA 6020A	Total Recoverable
Beryllium	0.0664		0.00100	0.000274	mg/L	1		EPA 6020A	Total Recoverable
Calcium	715	^2	2.50	0.635	mg/L	5		EPA 6020A	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: AP-32 (Continued) — Lab Sample ID: 860-67548-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cadmium	0.0733	^5+	0.00100	0.000217	mg/L	1		EPA 6020A	Total Recoverable
Cobalt	0.642		0.000500	0.000261	mg/L	1		EPA 6020A	Total Recoverable
Magnesium	86.2		0.500	0.0498	mg/L	1		EPA 6020A	Total Recoverable
Sodium	2100	^2	2.50	0.920	mg/L	5		EPA 6020A	Total Recoverable
Thallium	0.00422		0.00100	0.000472	mg/L	1		EPA 6020A	Total Recoverable
Selenium	0.0172		0.00500	0.000739	mg/L	1		EPA 6020A	Total Recoverable
Lithium	1.67		0.0500	0.0129	mg/L	10		EPA 6020A	Total Recoverable
Mercury	1.88		0.200	0.130	ug/L	1		EPA 7470A	Total/NA
Total Dissolved Solids	9830		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: AP-33 — Lab Sample ID: 860-67548-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	3300		500	200	mg/L	500		300.0-1993 R2.1	Total/NA
Chloride	4130		250	100	mg/L	500		300.0-1993 R2.1	Total/NA
Arsenic	0.153		0.00100	0.000282	mg/L	1		EPA 6020A	Total Recoverable
Boron	57.0		1.60	1.20	mg/L	20		EPA 6020A	Total Recoverable
Barium	0.0184	^5+	0.0100	0.00314	mg/L	1		EPA 6020A	Total Recoverable
Beryllium	0.262		0.00100	0.000274	mg/L	1		EPA 6020A	Total Recoverable
Calcium	783	^2	2.50	0.635	mg/L	5		EPA 6020A	Total Recoverable
Cadmium	0.0959	^5+	0.00100	0.000217	mg/L	1		EPA 6020A	Total Recoverable
Cobalt	1.38		0.000500	0.000261	mg/L	1		EPA 6020A	Total Recoverable
Magnesium	171		0.500	0.0498	mg/L	1		EPA 6020A	Total Recoverable
Sodium	2340	^2	2.50	0.920	mg/L	5		EPA 6020A	Total Recoverable
Thallium	0.00503		0.00100	0.000472	mg/L	1		EPA 6020A	Total Recoverable
Selenium	0.0316		0.00500	0.000739	mg/L	1		EPA 6020A	Total Recoverable
Lithium	1.26		0.0500	0.0129	mg/L	10		EPA 6020A	Total Recoverable
Mercury	4.11		0.200	0.130	ug/L	1		EPA 7470A	Total/NA
Total Dissolved Solids	12600		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: AP-34 — Lab Sample ID: 860-67548-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	3610		500	200	mg/L	500		300.0-1993 R2.1	Total/NA
Chloride	3210		250	100	mg/L	500		300.0-1993 R2.1	Total/NA
Arsenic	0.112		0.00100	0.000282	mg/L	1		EPA 6020A	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: AP-34 (Continued)

Lab Sample ID: 860-67548-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	24.3		0.800	0.601	mg/L	10		EPA 6020A	Total Recoverable
Barium	0.0142	^5+	0.0100	0.00314	mg/L	1		EPA 6020A	Total Recoverable
Beryllium	0.271		0.00100	0.000274	mg/L	1		EPA 6020A	Total Recoverable
Calcium	744	^2	2.50	0.635	mg/L	5		EPA 6020A	Total Recoverable
Cadmium	0.0186	^5+	0.00100	0.000217	mg/L	1		EPA 6020A	Total Recoverable
Chromium	0.00428		0.00200	0.00153	mg/L	1		EPA 6020A	Total Recoverable
Cobalt	1.28		0.000500	0.000261	mg/L	1		EPA 6020A	Total Recoverable
Magnesium	134		0.500	0.0498	mg/L	1		EPA 6020A	Total Recoverable
Sodium	1720	^2	2.50	0.920	mg/L	5		EPA 6020A	Total Recoverable
Thallium	0.00172		0.00100	0.000472	mg/L	1		EPA 6020A	Total Recoverable
Selenium	0.0204		0.00500	0.000739	mg/L	1		EPA 6020A	Total Recoverable
Lithium	1.48		0.0500	0.0129	mg/L	10		EPA 6020A	Total Recoverable
Mercury	2.11		0.200	0.130	ug/L	1		EPA 7470A	Total/NA
Total Dissolved Solids	11000		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: AP-35

Lab Sample ID: 860-67548-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	3050		250	100	mg/L	250		300.0-1993 R2.1	Total/NA
Chloride	2400		125	50.0	mg/L	250		300.0-1993 R2.1	Total/NA
Arsenic	0.0428		0.00100	0.000282	mg/L	1		EPA 6020A	Total Recoverable
Boron	5.50		0.800	0.601	mg/L	10		EPA 6020A	Total Recoverable
Barium	0.0214	^5+	0.0100	0.00314	mg/L	1		EPA 6020A	Total Recoverable
Beryllium	0.319		0.00100	0.000274	mg/L	1		EPA 6020A	Total Recoverable
Calcium	610		0.500	0.127	mg/L	1		EPA 6020A	Total Recoverable
Chromium	0.00214		0.00200	0.00153	mg/L	1		EPA 6020A	Total Recoverable
Cobalt	0.0305		0.000500	0.000261	mg/L	1		EPA 6020A	Total Recoverable
Magnesium	146		0.500	0.0498	mg/L	1		EPA 6020A	Total Recoverable
Sodium	1550	^2	2.50	0.920	mg/L	5		EPA 6020A	Total Recoverable
Lead	0.00193		0.00100	0.000376	mg/L	1		EPA 6020A	Total Recoverable
Thallium	0.00389		0.00100	0.000472	mg/L	1		EPA 6020A	Total Recoverable
Selenium	0.0110		0.00500	0.000739	mg/L	1		EPA 6020A	Total Recoverable
Lithium	1.81		0.0500	0.0129	mg/L	10		EPA 6020A	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: AP-35 (Continued) — Lab Sample ID: 860-67548-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	8400		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: AP-36 — Lab Sample ID: 860-67548-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	6160		250	100	mg/L	250		300.0-1993 R2.1	Total/NA
Chloride	3590		125	50.0	mg/L	250		300.0-1993 R2.1	Total/NA
Arsenic	0.00955		0.00100	0.000282	mg/L	1		EPA 6020A	Total Recoverable
Boron	2.43		0.800	0.601	mg/L	10		EPA 6020A	Total Recoverable
Barium	0.0185	^5+	0.0100	0.00314	mg/L	1		EPA 6020A	Total Recoverable
Beryllium	0.0101		0.00100	0.000274	mg/L	1		EPA 6020A	Total Recoverable
Calcium	623		0.500	0.127	mg/L	1		EPA 6020A	Total Recoverable
Cadmium	0.000368	J ^5+	0.00100	0.000217	mg/L	1		EPA 6020A	Total Recoverable
Cobalt	0.0618		0.000500	0.000261	mg/L	1		EPA 6020A	Total Recoverable
Magnesium	90.5		0.500	0.0498	mg/L	1		EPA 6020A	Total Recoverable
Sodium	1250	^2	2.50	0.920	mg/L	5		EPA 6020A	Total Recoverable
Thallium	0.000838	J	0.00100	0.000472	mg/L	1		EPA 6020A	Total Recoverable
Selenium	0.00129	J	0.00500	0.000739	mg/L	1		EPA 6020A	Total Recoverable
Lithium	0.935		0.00500	0.00129	mg/L	1		EPA 6020A	Total Recoverable
Total Dissolved Solids	6890		40.0	40.0	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-03 — Lab Sample ID: 860-67548-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	4310		250	100	mg/L	250		300.0-1993 R2.1	Total/NA
Chloride	2060		125	50.0	mg/L	250		300.0-1993 R2.1	Total/NA
Arsenic	0.0456		0.00100	0.000282	mg/L	1		EPA 6020A	Total Recoverable
Boron	12.4		0.800	0.601	mg/L	10		EPA 6020A	Total Recoverable
Barium	0.0112	^5+	0.0100	0.00314	mg/L	1		EPA 6020A	Total Recoverable
Beryllium	0.0267		0.00100	0.000274	mg/L	1		EPA 6020A	Total Recoverable
Calcium	544		0.500	0.127	mg/L	1		EPA 6020A	Total Recoverable
Cadmium	0.0450	^5+	0.00100	0.000217	mg/L	1		EPA 6020A	Total Recoverable
Chromium	0.0114		0.00200	0.00153	mg/L	1		EPA 6020A	Total Recoverable
Cobalt	0.357		0.000500	0.000261	mg/L	1		EPA 6020A	Total Recoverable
Magnesium	88.1		0.500	0.0498	mg/L	1		EPA 6020A	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-03 (Continued) — Lab Sample ID: 860-67548-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	2010	^2	2.50	0.920	mg/L	5		EPA 6020A	Total Recoverable
Thallium	0.00179		0.00100	0.000472	mg/L	1		EPA 6020A	Total Recoverable
Selenium	0.0101		0.00500	0.000739	mg/L	1		EPA 6020A	Total Recoverable
Lithium	2.00		0.0500	0.0129	mg/L	10		EPA 6020A	Total Recoverable
Total Dissolved Solids	9700		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: DUP-02 — Lab Sample ID: 860-67548-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	4120		250	100	mg/L	250		300.0-1993 R2.1	Total/NA
Chloride	1990		125	50.0	mg/L	250		300.0-1993 R2.1	Total/NA
Arsenic	0.0464		0.00100	0.000282	mg/L	1		EPA 6020A	Total Recoverable
Boron	13.3		0.800	0.601	mg/L	10		EPA 6020A	Total Recoverable
Barium	0.0116	^5+	0.0100	0.00314	mg/L	1		EPA 6020A	Total Recoverable
Beryllium	0.0294		0.00100	0.000274	mg/L	1		EPA 6020A	Total Recoverable
Calcium	545		0.500	0.127	mg/L	1		EPA 6020A	Total Recoverable
Cadmium	0.0489	^5+	0.00100	0.000217	mg/L	1		EPA 6020A	Total Recoverable
Chromium	0.00910		0.00200	0.00153	mg/L	1		EPA 6020A	Total Recoverable
Cobalt	0.375		0.000500	0.000261	mg/L	1		EPA 6020A	Total Recoverable
Magnesium	87.3		0.500	0.0498	mg/L	1		EPA 6020A	Total Recoverable
Sodium	2040	^2	2.50	0.920	mg/L	5		EPA 6020A	Total Recoverable
Thallium	0.00186		0.00100	0.000472	mg/L	1		EPA 6020A	Total Recoverable
Selenium	0.0106		0.00500	0.000739	mg/L	1		EPA 6020A	Total Recoverable
Lithium	1.92		0.0500	0.0129	mg/L	10		EPA 6020A	Total Recoverable
Total Dissolved Solids	9510		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: FB-02 — Lab Sample ID: 860-67548-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	0.468	J	1.00	0.400	mg/L	1		300.0-1993 R2.1	Total/NA
Chloride	1.25		0.500	0.200	mg/L	1		300.0-1993 R2.1	Total/NA
Boron	0.0744	J	0.0800	0.0601	mg/L	1		EPA 6020A	Total Recoverable
Calcium	0.360	J	0.500	0.127	mg/L	1		EPA 6020A	Total Recoverable
Sodium	2.62		0.500	0.184	mg/L	1		EPA 6020A	Total Recoverable
Lithium	0.00353	J	0.00500	0.00129	mg/L	1		EPA 6020A	Total Recoverable
Total Dissolved Solids	6.50		5.00	5.00	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: GSI Environmental Inc
Project/Site: Ash Pond

Job ID: 860-67548-1

Client Sample ID: EB-01

Lab Sample ID: 860-67548-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	0.214	J	0.500	0.200	mg/L	1		300.0-1993 R2.1	Total/NA
Boron	0.0827		0.0800	0.0601	mg/L	1		EPA 6020A	Total Recoverable
Sodium	0.585		0.500	0.184	mg/L	1		EPA 6020A	Total Recoverable
Lithium	0.00171	J	0.00500	0.00129	mg/L	1		EPA 6020A	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: PZ-02

Lab Sample ID: 860-67548-1

Date Collected: 02/07/24 11:15

Matrix: Water

Date Received: 02/08/24 10:24

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**2730**		500	200	mg/L			02/26/24 19:32	500
Fluoride	20.0	U	50.0	20.0	mg/L			02/26/24 19:32	500
Chloride	**4150**		250	100	mg/L			02/26/24 19:32	500

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.000906**	**J**	0.00100	0.000282	mg/L		02/12/24 13:23	02/14/24 23:20	1
Boron	**8.00**		1.60	1.20	mg/L		02/12/24 13:23	02/20/24 16:38	20
Barium	**0.0293**	**^5+**	0.0100	0.00314	mg/L		02/12/24 13:23	02/13/24 14:03	1
Beryllium	**0.000317**	**J**	0.00100	0.000274	mg/L		02/12/24 13:23	02/13/24 14:03	1
Calcium	**924**		2.50	0.635	mg/L		02/12/24 13:23	02/15/24 00:48	5
Cadmium	0.000217	U ^5+	0.00100	0.000217	mg/L		02/12/24 13:23	02/13/24 14:03	1
Chromium	0.00153	U	0.00200	0.00153	mg/L		02/12/24 13:23	02/14/24 23:20	1
Cobalt	**0.00339**		0.000500	0.000261	mg/L		02/12/24 13:23	02/13/24 14:03	1
Magnesium	**122**		0.500	0.0498	mg/L		02/12/24 13:23	02/14/24 23:20	1
Molybdenum	0.000610	U	0.00500	0.000610	mg/L		02/12/24 13:23	02/13/24 14:03	1
Sodium	**2430**		2.50	0.920	mg/L		02/12/24 13:23	02/15/24 00:48	5
Lead	0.000376	U	0.00100	0.000376	mg/L		02/12/24 13:23	02/14/24 23:20	1
Antimony	0.000967	U ^5+	0.00200	0.000967	mg/L		02/12/24 13:23	02/14/24 23:20	1
Thallium	0.000472	U	0.00100	0.000472	mg/L		02/12/24 13:23	02/13/24 14:03	1
Selenium	0.000739	U	0.00500	0.000739	mg/L		02/12/24 13:23	02/13/24 14:03	1
Lithium	**9.51**		0.0500	0.0129	mg/L		02/12/24 13:23	02/16/24 18:46	10

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.130	U	0.200	0.130	ug/L		02/12/24 09:32	02/12/24 14:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	**106**		4.00	4.00	mg/L			02/16/24 03:03	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**106**		4.00	4.00	mg/L			02/16/24 03:03	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/16/24 03:03	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/16/24 03:03	1
Total Dissolved Solids (SM 2540C)	**10400**		100	100	mg/L			02/13/24 11:51	1

Client Sample ID: PZ-03

Lab Sample ID: 860-67548-2

Date Collected: 02/07/24 11:15

Matrix: Water

Date Received: 02/08/24 10:24

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**3430**	**F1**	1000	400	mg/L			02/26/24 18:47	1000
Fluoride	40.0	U	100	40.0	mg/L			02/26/24 18:47	1000
Chloride	**5620**	**F1**	500	200	mg/L			02/26/24 18:47	1000

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.121**		0.00100	0.000282	mg/L		02/12/24 13:23	02/14/24 23:25	1
Boron	**6.27**		1.60	1.20	mg/L		02/12/24 13:23	02/19/24 18:39	20

Client Sample ID: PZ-03

Date Collected: 02/07/24 11:15
Date Received: 02/08/24 10:24

Lab Sample ID: 860-67548-2
Matrix: Water

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.0229	^5+	0.0100	0.00314	mg/L		02/12/24 13:23	02/13/24 14:06	1
Beryllium	0.274	F2 F1	0.00100	0.000274	mg/L		02/12/24 13:23	02/13/24 14:06	1
Calcium	918		2.50	0.635	mg/L		02/12/24 13:23	02/15/24 00:53	5
Cadmium	0.493	^5+	0.00100	0.000217	mg/L		02/12/24 13:23	02/13/24 14:06	1
Chromium	0.00266		0.00200	0.00153	mg/L		02/12/24 13:23	02/14/24 23:25	1
Cobalt	1.64		0.000500	0.000261	mg/L		02/12/24 13:23	02/13/24 14:06	1
Magnesium	239		0.500	0.0498	mg/L		02/12/24 13:23	02/14/24 23:25	1
Molybdenum	0.000610	U	0.00500	0.000610	mg/L		02/12/24 13:23	02/13/24 14:06	1
Sodium	3580		5.00	1.84	mg/L		02/12/24 13:23	02/16/24 18:49	10
Lead	0.00177		0.00100	0.000376	mg/L		02/12/24 13:23	02/14/24 23:25	1
Antimony	0.000967	U ^5+	0.00200	0.000967	mg/L		02/12/24 13:23	02/14/24 23:25	1
Thallium	0.00896		0.00100	0.000472	mg/L		02/12/24 13:23	02/13/24 14:06	1
Selenium	0.0473		0.00500	0.000739	mg/L		02/12/24 13:23	02/13/24 14:06	1
Lithium	2.50		0.0500	0.0129	mg/L		02/12/24 13:23	02/16/24 18:49	10

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.37		0.200	0.130	ug/L		02/12/24 09:32	02/12/24 14:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/16/24 04:14	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/16/24 04:14	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/16/24 04:14	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/16/24 04:14	1
Total Dissolved Solids (SM 2540C)	16000		100	100	mg/L			02/13/24 11:51	1

Client Sample ID: PZ-05

Date Collected: 02/07/24 11:00
Date Received: 02/08/24 10:24

Lab Sample ID: 860-67548-3
Matrix: Water

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	3230		500	200	mg/L			02/26/24 19:43	500
Fluoride	20.0	U	50.0	20.0	mg/L			02/26/24 19:43	500
Chloride	2540		250	100	mg/L			02/26/24 19:43	500

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0911		0.00100	0.000282	mg/L		02/12/24 13:23	02/14/24 23:44	1
Boron	32.3		0.800	0.601	mg/L		02/12/24 13:23	02/19/24 18:29	10
Barium	0.0135	^5+	0.0100	0.00314	mg/L		02/12/24 13:23	02/13/24 14:23	1
Beryllium	0.217		0.00100	0.000274	mg/L		02/12/24 13:23	02/13/24 14:23	1
Calcium	710		5.00	1.27	mg/L		02/12/24 13:23	02/15/24 20:56	10
Cadmium	0.0536	^5+	0.00100	0.000217	mg/L		02/12/24 13:23	02/13/24 14:23	1
Chromium	0.00227		0.00200	0.00153	mg/L		02/12/24 13:23	02/14/24 23:44	1
Cobalt	0.994		0.000500	0.000261	mg/L		02/12/24 13:23	02/13/24 14:23	1
Magnesium	109		0.500	0.0498	mg/L		02/12/24 13:23	02/14/24 23:44	1
Molybdenum	0.000610	U	0.00500	0.000610	mg/L		02/12/24 13:23	02/13/24 14:23	1

Client Sample ID: PZ-05

Date Collected: 02/07/24 11:00
Date Received: 02/08/24 10:24

Lab Sample ID: 860-67548-3
Matrix: Water

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	**1730**		5.00	1.84	mg/L		02/12/24 13:23	02/15/24 20:56	10
Lead	0.000376	U	0.00100	0.000376	mg/L		02/12/24 13:23	02/14/24 23:44	1
Antimony	0.000967	U ^5+	0.00200	0.000967	mg/L		02/12/24 13:23	02/14/24 23:44	1
Thallium	**0.00228**		0.00100	0.000472	mg/L		02/12/24 13:23	02/14/24 23:44	1
Selenium	**0.0175**		0.00500	0.000739	mg/L		02/12/24 13:23	02/13/24 14:23	1
Lithium	**0.884**		0.00500	0.00129	mg/L		02/12/24 13:23	02/13/24 14:23	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.197**	**J**	0.200	0.130	ug/L		02/12/24 09:32	02/12/24 14:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/16/24 03:17	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/16/24 03:17	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/16/24 03:17	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/16/24 03:17	1
Total Dissolved Solids (SM 2540C)	**8660**		100	100	mg/L			02/13/24 11:51	1

Client Sample ID: PZ-06

Date Collected: 02/07/24 09:20
Date Received: 02/08/24 10:24

Lab Sample ID: 860-67548-4
Matrix: Water

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**2600**		500	200	mg/L			02/26/24 19:54	500
Fluoride	20.0	U	50.0	20.0	mg/L			02/26/24 19:54	500
Chloride	**2120**		250	100	mg/L			02/26/24 19:54	500

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.000384**	**J**	0.00100	0.000282	mg/L		02/12/24 13:23	02/14/24 23:49	1
Boron	**3.19**		0.800	0.601	mg/L		02/12/24 13:23	02/19/24 18:34	10
Barium	**0.0233**	**^5+**	0.0100	0.00314	mg/L		02/12/24 13:23	02/13/24 14:28	1
Beryllium	**0.00325**		0.00100	0.000274	mg/L		02/12/24 13:23	02/13/24 14:28	1
Calcium	**752**	**^2**	2.50	0.635	mg/L		02/12/24 13:23	02/15/24 01:18	5
Cadmium	0.000217	U ^5+	0.00100	0.000217	mg/L		02/12/24 13:23	02/13/24 14:28	1
Chromium	0.00153	U	0.00200	0.00153	mg/L		02/12/24 13:23	02/14/24 23:49	1
Cobalt	**0.00323**		0.000500	0.000261	mg/L		02/12/24 13:23	02/13/24 14:28	1
Magnesium	**102**		0.500	0.0498	mg/L		02/12/24 13:23	02/14/24 23:49	1
Molybdenum	0.000610	U	0.00500	0.000610	mg/L		02/12/24 13:23	02/13/24 14:28	1
Sodium	**1600**	**^2**	2.50	0.920	mg/L		02/12/24 13:23	02/15/24 01:18	5
Lead	0.000376	U	0.00100	0.000376	mg/L		02/12/24 13:23	02/14/24 23:49	1
Antimony	0.00967	U	0.0200	0.00967	mg/L		02/12/24 13:23	02/16/24 19:00	10
Thallium	0.000472	U	0.00100	0.000472	mg/L		02/12/24 13:23	02/14/24 23:49	1
Selenium	0.000739	U	0.00500	0.000739	mg/L		02/12/24 13:23	02/13/24 14:28	1
Lithium	**1.28**		0.0500	0.0129	mg/L		02/12/24 13:23	02/16/24 19:00	10

Client Sample ID: PZ-06

Lab Sample ID: 860-67548-4

Date Collected: 02/07/24 09:20

Matrix: Water

Date Received: 02/08/24 10:24

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.130	U	0.200	0.130	ug/L		02/12/24 09:32	02/12/24 14:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	**73.4**		4.00	4.00	mg/L			02/16/24 02:08	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**73.4**		4.00	4.00	mg/L			02/16/24 02:08	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/16/24 02:08	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/16/24 02:08	1
Total Dissolved Solids (SM 2540C)	**8040**		100	100	mg/L			02/13/24 11:51	1

Client Sample ID: AP-31

Lab Sample ID: 860-67548-5

Date Collected: 02/07/24 11:30

Matrix: Water

Date Received: 02/08/24 10:24

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**2970**		500	200	mg/L			02/26/24 20:06	500
Fluoride	20.0	U	50.0	20.0	mg/L			02/26/24 20:06	500
Chloride	**2420**		250	100	mg/L			02/26/24 20:06	500

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0239**		0.00100	0.000282	mg/L		02/12/24 13:23	02/15/24 00:09	1
Boron	**66.5**		1.60	1.20	mg/L		02/12/24 13:23	02/19/24 18:53	20
Barium	**0.0142**	**^5+**	0.0100	0.00314	mg/L		02/12/24 13:23	02/13/24 14:33	1
Beryllium	**0.0162**		0.00100	0.000274	mg/L		02/12/24 13:23	02/13/24 14:33	1
Calcium	**688**	**^2**	2.50	0.635	mg/L		02/12/24 13:23	02/15/24 01:20	5
Cadmium	**0.00487**	**^5+**	0.00100	0.000217	mg/L		02/12/24 13:23	02/13/24 14:33	1
Chromium	**0.00183**	**J**	0.00200	0.00153	mg/L		02/12/24 13:23	02/15/24 00:09	1
Cobalt	**0.291**		0.000500	0.000261	mg/L		02/12/24 13:23	02/13/24 14:33	1
Magnesium	**67.0**		0.500	0.0498	mg/L		02/12/24 13:23	02/15/24 00:09	1
Molybdenum	0.000610	U	0.00500	0.000610	mg/L		02/12/24 13:23	02/13/24 14:33	1
Sodium	**1760**	**^2**	2.50	0.920	mg/L		02/12/24 13:23	02/15/24 01:20	5
Lead	0.000376	U	0.00100	0.000376	mg/L		02/12/24 13:23	02/15/24 00:09	1
Antimony	0.000967	U ^5+	0.00200	0.000967	mg/L		02/12/24 13:23	02/15/24 00:09	1
Thallium	**0.00230**		0.00100	0.000472	mg/L		02/12/24 13:23	02/15/24 00:09	1
Selenium	**0.0275**		0.00500	0.000739	mg/L		02/12/24 13:23	02/13/24 14:33	1
Lithium	**0.812**		0.00500	0.00129	mg/L		02/12/24 13:23	02/13/24 14:33	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.439**		0.200	0.130	ug/L		02/12/24 09:32	02/12/24 14:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/16/24 03:34	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/16/24 03:34	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/16/24 03:34	1

Client Sample ID: AP-31

Lab Sample ID: 860-67548-5

Date Collected: 02/07/24 11:30

Matrix: Water

Date Received: 02/08/24 10:24

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/16/24 03:34	1
Total Dissolved Solids (SM 2540C)	**8350**		100	100	mg/L			02/13/24 11:51	1

Client Sample ID: AP-32

Lab Sample ID: 860-67548-6

Date Collected: 02/07/24 09:30

Matrix: Water

Date Received: 02/08/24 10:24

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**3690**		500	200	mg/L			02/26/24 20:17	500
Fluoride	20.0	U	50.0	20.0	mg/L			02/26/24 20:17	500
Chloride	**3000**		250	100	mg/L			02/26/24 20:17	500

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.100**		0.00100	0.000282	mg/L		02/12/24 13:23	02/15/24 00:14	1
Boron	**24.7**		0.800	0.601	mg/L		02/12/24 13:23	02/19/24 19:06	10
Barium	**0.0182**	**^5+**	0.0100	0.00314	mg/L		02/12/24 13:23	02/13/24 14:38	1
Beryllium	**0.0664**		0.00100	0.000274	mg/L		02/12/24 13:23	02/13/24 14:38	1
Calcium	**715**	**^2**	2.50	0.635	mg/L		02/12/24 13:23	02/15/24 01:23	5
Cadmium	**0.0733**	**^5+**	0.00100	0.000217	mg/L		02/12/24 13:23	02/13/24 14:38	1
Chromium	0.00153	U	0.00200	0.00153	mg/L		02/12/24 13:23	02/15/24 00:14	1
Cobalt	**0.642**		0.000500	0.000261	mg/L		02/12/24 13:23	02/13/24 14:38	1
Magnesium	**86.2**		0.500	0.0498	mg/L		02/12/24 13:23	02/15/24 00:14	1
Molybdenum	0.000610	U	0.00500	0.000610	mg/L		02/12/24 13:23	02/13/24 14:38	1
Sodium	**2100**	**^2**	2.50	0.920	mg/L		02/12/24 13:23	02/15/24 01:23	5
Lead	0.000376	U	0.00100	0.000376	mg/L		02/12/24 13:23	02/15/24 00:14	1
Antimony	0.000967	U ^5+	0.00200	0.000967	mg/L		02/12/24 13:23	02/15/24 00:14	1
Thallium	**0.00422**		0.00100	0.000472	mg/L		02/12/24 13:23	02/15/24 00:14	1
Selenium	**0.0172**		0.00500	0.000739	mg/L		02/12/24 13:23	02/13/24 14:38	1
Lithium	**1.67**		0.0500	0.0129	mg/L		02/12/24 13:23	02/16/24 19:06	10

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**1.88**		0.200	0.130	ug/L		02/12/24 09:32	02/12/24 14:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/16/24 00:57	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/16/24 00:57	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/16/24 00:57	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/16/24 00:57	1
Total Dissolved Solids (SM 2540C)	**9830**		100	100	mg/L			02/13/24 11:51	1

Client Sample ID: AP-33

Date Collected: 02/07/24 08:45
Date Received: 02/08/24 10:24

Lab Sample ID: 860-67548-7
Matrix: Water

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**3300**		500	200	mg/L			02/26/24 20:28	500
Fluoride	20.0	U	50.0	20.0	mg/L			02/26/24 20:28	500
Chloride	**4130**		250	100	mg/L			02/26/24 20:28	500

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.153**		0.00100	0.000282	mg/L		02/12/24 13:23	02/15/24 00:19	1
Boron	**57.0**		1.60	1.20	mg/L		02/12/24 13:23	02/19/24 19:36	20
Barium	**0.0184**	**^5+**	0.0100	0.00314	mg/L		02/12/24 13:23	02/13/24 13:34	1
Beryllium	**0.262**		0.00100	0.000274	mg/L		02/12/24 13:23	02/13/24 13:34	1
Calcium	**783**	**^2**	2.50	0.635	mg/L		02/12/24 13:23	02/15/24 01:25	5
Cadmium	**0.0959**	**^5+**	0.00100	0.000217	mg/L		02/12/24 13:23	02/13/24 13:34	1
Chromium	0.00153	U	0.00200	0.00153	mg/L		02/12/24 13:23	02/15/24 00:19	1
Cobalt	**1.38**		0.000500	0.000261	mg/L		02/12/24 13:23	02/13/24 13:34	1
Magnesium	**171**		0.500	0.0498	mg/L		02/12/24 13:23	02/13/24 13:34	1
Molybdenum	0.000610	U	0.00500	0.000610	mg/L		02/12/24 13:23	02/13/24 13:34	1
Sodium	**2340**	**^2**	2.50	0.920	mg/L		02/12/24 13:23	02/15/24 01:25	5
Lead	0.000376	U	0.00100	0.000376	mg/L		02/12/24 13:23	02/15/24 00:19	1
Antimony	0.000967	U ^5+	0.00200	0.000967	mg/L		02/12/24 13:23	02/13/24 13:34	1
Thallium	**0.00503**		0.00100	0.000472	mg/L		02/12/24 13:23	02/13/24 13:34	1
Selenium	**0.0316**		0.00500	0.000739	mg/L		02/12/24 13:23	02/13/24 13:34	1
Lithium	**1.26**		0.0500	0.0129	mg/L		02/12/24 13:23	02/16/24 19:14	10

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**4.11**		0.200	0.130	ug/L		02/12/24 09:32	02/12/24 14:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/16/24 01:47	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/16/24 01:47	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/16/24 01:47	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/16/24 01:47	1
Total Dissolved Solids (SM 2540C)	**12600**		100	100	mg/L			02/13/24 11:51	1

Client Sample ID: AP-34

Date Collected: 02/07/24 10:15
Date Received: 02/08/24 10:24

Lab Sample ID: 860-67548-8
Matrix: Water

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**3610**		500	200	mg/L			02/26/24 20:40	500
Fluoride	20.0	U	50.0	20.0	mg/L			02/26/24 20:40	500
Chloride	**3210**		250	100	mg/L			02/26/24 20:40	500

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.112**		0.00100	0.000282	mg/L		02/12/24 13:23	02/15/24 00:24	1
Boron	**24.3**		0.800	0.601	mg/L		02/12/24 13:23	02/19/24 19:11	10

Client Sample ID: AP-34

Date Collected: 02/07/24 10:15
Date Received: 02/08/24 10:24

Lab Sample ID: 860-67548-8
Matrix: Water

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.0142**	**^5+**	0.0100	0.00314	mg/L		02/12/24 13:23	02/13/24 13:36	1
Beryllium	**0.271**		0.00100	0.000274	mg/L		02/12/24 13:23	02/13/24 13:36	1
Calcium	**744**	**^2**	2.50	0.635	mg/L		02/12/24 13:23	02/15/24 01:28	5
Cadmium	**0.0186**	**^5+**	0.00100	0.000217	mg/L		02/12/24 13:23	02/13/24 13:36	1
Chromium	**0.00428**		0.00200	0.00153	mg/L		02/12/24 13:23	02/15/24 00:24	1
Cobalt	**1.28**		0.000500	0.000261	mg/L		02/12/24 13:23	02/13/24 13:36	1
Magnesium	**134**		0.500	0.0498	mg/L		02/12/24 13:23	02/13/24 13:36	1
Molybdenum	0.000610	U	0.00500	0.000610	mg/L		02/12/24 13:23	02/13/24 13:36	1
Sodium	**1720**	**^2**	2.50	0.920	mg/L		02/12/24 13:23	02/15/24 01:28	5
Lead	0.000376	U	0.00100	0.000376	mg/L		02/12/24 13:23	02/15/24 00:24	1
Antimony	0.000967	U ^5+	0.00200	0.000967	mg/L		02/12/24 13:23	02/13/24 13:36	1
Thallium	**0.00172**		0.00100	0.000472	mg/L		02/12/24 13:23	02/13/24 13:36	1
Selenium	**0.0204**		0.00500	0.000739	mg/L		02/12/24 13:23	02/13/24 13:36	1
Lithium	**1.48**		0.0500	0.0129	mg/L		02/12/24 13:23	02/16/24 19:17	10

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**2.11**		0.200	0.130	ug/L		02/12/24 09:32	02/12/24 14:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/16/24 01:53	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/16/24 01:53	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/16/24 01:53	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/16/24 01:53	1
Total Dissolved Solids (SM 2540C)	**11000**		100	100	mg/L			02/13/24 11:51	1

Client Sample ID: AP-35

Date Collected: 02/07/24 10:45
Date Received: 02/08/24 10:24

Lab Sample ID: 860-67548-9
Matrix: Water

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**3050**		250	100	mg/L			02/26/24 12:58	250
Fluoride	10.0	U	25.0	10.0	mg/L			02/26/24 12:58	250
Chloride	**2400**		125	50.0	mg/L			02/26/24 12:58	250

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0428**		0.00100	0.000282	mg/L		02/12/24 13:23	02/15/24 00:28	1
Boron	**5.50**		0.800	0.601	mg/L		02/12/24 13:23	02/19/24 19:16	10
Barium	**0.0214**	**^5+**	0.0100	0.00314	mg/L		02/12/24 13:23	02/13/24 13:38	1
Beryllium	**0.319**		0.00100	0.000274	mg/L		02/12/24 13:23	02/13/24 13:38	1
Calcium	**610**		0.500	0.127	mg/L		02/12/24 13:23	02/13/24 13:38	1
Cadmium	0.000217	U ^5+	0.00100	0.000217	mg/L		02/12/24 13:23	02/13/24 13:38	1
Chromium	**0.00214**		0.00200	0.00153	mg/L		02/12/24 13:23	02/15/24 00:28	1
Cobalt	**0.0305**		0.000500	0.000261	mg/L		02/12/24 13:23	02/13/24 13:38	1
Magnesium	**146**		0.500	0.0498	mg/L		02/12/24 13:23	02/13/24 13:38	1
Molybdenum	0.000610	U	0.00500	0.000610	mg/L		02/12/24 13:23	02/13/24 13:38	1

Client Sample ID: AP-35

Date Collected: 02/07/24 10:45
Date Received: 02/08/24 10:24

Lab Sample ID: 860-67548-9
Matrix: Water

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	**1550**	**^2**	2.50	0.920	mg/L		02/12/24 13:23	02/15/24 01:38	5
Lead	**0.00193**		0.00100	0.000376	mg/L		02/12/24 13:23	02/15/24 00:28	1
Antimony	0.000967	U ^5+	0.00200	0.000967	mg/L		02/12/24 13:23	02/13/24 13:38	1
Thallium	**0.00389**		0.00100	0.000472	mg/L		02/12/24 13:23	02/13/24 13:38	1
Selenium	**0.0110**		0.00500	0.000739	mg/L		02/12/24 13:23	02/13/24 13:38	1
Lithium	**1.81**		0.0500	0.0129	mg/L		02/12/24 13:23	02/16/24 19:20	10

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.130	U	0.200	0.130	ug/L		02/12/24 09:32	02/12/24 14:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/16/24 04:08	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/16/24 04:08	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/16/24 04:08	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/16/24 04:08	1
Total Dissolved Solids (SM 2540C)	**8400**		100	100	mg/L			02/13/24 11:51	1

Client Sample ID: AP-36

Date Collected: 02/07/24 10:20
Date Received: 02/08/24 10:24

Lab Sample ID: 860-67548-10
Matrix: Water

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**6160**		250	100	mg/L			02/26/24 13:10	250
Fluoride	10.0	U	25.0	10.0	mg/L			02/26/24 13:10	250
Chloride	**3590**		125	50.0	mg/L			02/26/24 13:10	250

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.00955**		0.00100	0.000282	mg/L		02/12/24 13:23	02/15/24 00:33	1
Boron	**2.43**		0.800	0.601	mg/L		02/12/24 13:23	02/19/24 19:21	10
Barium	**0.0185**	**^5+**	0.0100	0.00314	mg/L		02/12/24 13:23	02/13/24 13:41	1
Beryllium	**0.0101**		0.00100	0.000274	mg/L		02/12/24 13:23	02/13/24 13:41	1
Calcium	**623**		0.500	0.127	mg/L		02/12/24 13:23	02/13/24 13:41	1
Cadmium	**0.000368**	**J ^5+**	0.00100	0.000217	mg/L		02/12/24 13:23	02/13/24 13:41	1
Chromium	0.00153	U	0.00200	0.00153	mg/L		02/12/24 13:23	02/15/24 00:33	1
Cobalt	**0.0618**		0.000500	0.000261	mg/L		02/12/24 13:23	02/13/24 13:41	1
Magnesium	**90.5**		0.500	0.0498	mg/L		02/12/24 13:23	02/13/24 13:41	1
Molybdenum	0.000610	U	0.00500	0.000610	mg/L		02/12/24 13:23	02/13/24 13:41	1
Sodium	**1250**	**^2**	2.50	0.920	mg/L		02/12/24 13:23	02/15/24 01:43	5
Lead	0.000376	U	0.00100	0.000376	mg/L		02/12/24 13:23	02/15/24 00:33	1
Antimony	0.000967	U ^5+	0.00200	0.000967	mg/L		02/12/24 13:23	02/13/24 13:41	1
Thallium	**0.000838**	**J**	0.00100	0.000472	mg/L		02/12/24 13:23	02/13/24 13:41	1
Selenium	**0.00129**	**J**	0.00500	0.000739	mg/L		02/12/24 13:23	02/13/24 13:41	1
Lithium	**0.935**		0.00500	0.00129	mg/L		02/12/24 13:23	02/13/24 13:41	1

Client Sample ID: AP-36

Lab Sample ID: 860-67548-10

Date Collected: 02/07/24 10:20

Matrix: Water

Date Received: 02/08/24 10:24

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.130	U	0.200	0.130	ug/L		02/12/24 09:32	02/12/24 14:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/15/24 23:11	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/15/24 23:11	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/15/24 23:11	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/15/24 23:11	1
Total Dissolved Solids (SM 2540C)	**6890**		40.0	40.0	mg/L			02/13/24 11:51	1

Client Sample ID: MW-03

Lab Sample ID: 860-67548-11

Date Collected: 02/07/24 10:15

Matrix: Water

Date Received: 02/08/24 10:24

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**4310**		250	100	mg/L			02/26/24 13:21	250
Fluoride	10.0	U	25.0	10.0	mg/L			02/26/24 13:21	250
Chloride	**2060**		125	50.0	mg/L			02/26/24 13:21	250

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0456**		0.00100	0.000282	mg/L		02/12/24 13:23	02/15/24 00:38	1
Boron	**12.4**		0.800	0.601	mg/L		02/12/24 13:23	02/19/24 19:26	10
Barium	**0.0112**	^5+	0.0100	0.00314	mg/L		02/12/24 13:23	02/13/24 13:43	1
Beryllium	**0.0267**		0.00100	0.000274	mg/L		02/12/24 13:23	02/13/24 13:43	1
Calcium	**544**		0.500	0.127	mg/L		02/12/24 13:23	02/13/24 13:43	1
Cadmium	**0.0450**	^5+	0.00100	0.000217	mg/L		02/12/24 13:23	02/13/24 13:43	1
Chromium	**0.0114**		0.00200	0.00153	mg/L		02/12/24 13:23	02/15/24 00:38	1
Cobalt	**0.357**		0.000500	0.000261	mg/L		02/12/24 13:23	02/13/24 13:43	1
Magnesium	**88.1**		0.500	0.0498	mg/L		02/12/24 13:23	02/13/24 13:43	1
Molybdenum	0.000610	U	0.00500	0.000610	mg/L		02/12/24 13:23	02/13/24 13:43	1
Sodium	**2010**	^2	2.50	0.920	mg/L		02/12/24 13:23	02/15/24 01:47	5
Lead	0.000376	U	0.00100	0.000376	mg/L		02/12/24 13:23	02/15/24 00:38	1
Antimony	0.000967	U ^5+	0.00200	0.000967	mg/L		02/12/24 13:23	02/13/24 13:43	1
Thallium	**0.00179**		0.00100	0.000472	mg/L		02/12/24 13:23	02/13/24 13:43	1
Selenium	**0.0101**		0.00500	0.000739	mg/L		02/12/24 13:23	02/13/24 13:43	1
Lithium	**2.00**		0.0500	0.0129	mg/L		02/12/24 13:23	02/16/24 19:26	10

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.130	U	0.200	0.130	ug/L		02/12/24 09:32	02/12/24 14:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/15/24 21:50	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/15/24 21:50	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/15/24 21:50	1

Client Sample ID: MW-03

Lab Sample ID: 860-67548-11
Matrix: Water
Date Collected: 02/07/24 10:15
Date Received: 02/08/24 10:24

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/15/24 21:50	1
Total Dissolved Solids (SM 2540C)	**9700**		100	100	mg/L			02/13/24 11:51	1

Client Sample ID: DUP-02

Lab Sample ID: 860-67548-12
Matrix: Water
Date Collected: 02/07/24 09:00
Date Received: 02/08/24 10:24

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**4120**		250	100	mg/L			02/26/24 17:05	250
Fluoride	10.0	U	25.0	10.0	mg/L			02/26/24 17:05	250
Chloride	**1990**		125	50.0	mg/L			02/26/24 17:05	250

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0464**		0.00100	0.000282	mg/L		02/12/24 13:23	02/15/24 00:43	1
Boron	**13.3**		0.800	0.601	mg/L		02/12/24 13:23	02/19/24 19:31	10
Barium	**0.0116**	**^5+**	0.0100	0.00314	mg/L		02/12/24 13:23	02/13/24 13:46	1
Beryllium	**0.0294**		0.00100	0.000274	mg/L		02/12/24 13:23	02/13/24 13:46	1
Calcium	**545**		0.500	0.127	mg/L		02/12/24 13:23	02/13/24 13:46	1
Cadmium	**0.0489**	**^5+**	0.00100	0.000217	mg/L		02/12/24 13:23	02/13/24 13:46	1
Chromium	**0.00910**		0.00200	0.00153	mg/L		02/12/24 13:23	02/15/24 00:43	1
Cobalt	**0.375**		0.000500	0.000261	mg/L		02/12/24 13:23	02/13/24 13:46	1
Magnesium	**87.3**		0.500	0.0498	mg/L		02/12/24 13:23	02/13/24 13:46	1
Molybdenum	0.000610	U	0.00500	0.000610	mg/L		02/12/24 13:23	02/13/24 13:46	1
Sodium	**2040**	**^2**	2.50	0.920	mg/L		02/12/24 13:23	02/15/24 01:52	5
Lead	0.000376	U	0.00100	0.000376	mg/L		02/12/24 13:23	02/15/24 00:43	1
Antimony	0.000967	U ^5+	0.00200	0.000967	mg/L		02/12/24 13:23	02/13/24 13:46	1
Thallium	**0.00186**		0.00100	0.000472	mg/L		02/12/24 13:23	02/13/24 13:46	1
Selenium	**0.0106**		0.00500	0.000739	mg/L		02/12/24 13:23	02/13/24 13:46	1
Lithium	**1.92**		0.0500	0.0129	mg/L		02/12/24 13:23	02/16/24 19:28	10

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.130	U	0.200	0.130	ug/L		02/12/24 09:32	02/12/24 14:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/16/24 04:03	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/16/24 04:03	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/16/24 04:03	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/16/24 04:03	1
Total Dissolved Solids (SM 2540C)	**9510**		100	100	mg/L			02/13/24 11:51	1

Client Sample ID: FB-02

Lab Sample ID: 860-67548-13

Date Collected: 02/07/24 11:30

Matrix: Water

Date Received: 02/08/24 10:24

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**0.468**	**J**	1.00	0.400	mg/L			02/26/24 17:16	1
Fluoride	0.0400	U	0.100	0.0400	mg/L			02/26/24 17:16	1
Chloride	**1.25**		0.500	0.200	mg/L			02/26/24 17:16	1

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00282	U	0.0100	0.00282	mg/L		02/12/24 13:23	02/16/24 19:31	10
Boron	**0.0744**	**J**	0.0800	0.0601	mg/L		02/12/24 13:23	02/19/24 19:41	1
Barium	0.00314	U ^5+	0.0100	0.00314	mg/L		02/12/24 13:23	02/13/24 13:48	1
Beryllium	0.000274	U	0.00100	0.000274	mg/L		02/12/24 13:23	02/13/24 13:48	1
Calcium	**0.360**	**J**	0.500	0.127	mg/L		02/12/24 13:23	02/13/24 13:48	1
Cadmium	0.000217	U ^5+	0.00100	0.000217	mg/L		02/12/24 13:23	02/13/24 13:48	1
Chromium	0.00153	U	0.00200	0.00153	mg/L		02/12/24 13:23	02/15/24 19:45	1
Cobalt	0.000261	U	0.000500	0.000261	mg/L		02/12/24 13:23	02/13/24 13:48	1
Magnesium	0.0498	U	0.500	0.0498	mg/L		02/12/24 13:23	02/13/24 13:48	1
Molybdenum	0.000610	U	0.00500	0.000610	mg/L		02/12/24 13:23	02/13/24 13:48	1
Sodium	**2.62**		0.500	0.184	mg/L		02/12/24 13:23	02/13/24 13:48	1
Lead	0.000376	U	0.00100	0.000376	mg/L		02/12/24 13:23	02/15/24 19:45	1
Antimony	0.000967	U ^5+	0.00200	0.000967	mg/L		02/12/24 13:23	02/13/24 13:48	1
Thallium	0.000472	U	0.00100	0.000472	mg/L		02/12/24 13:23	02/13/24 13:48	1
Selenium	0.000739	U	0.00500	0.000739	mg/L		02/12/24 13:23	02/13/24 13:48	1
Lithium	**0.00353**	**J**	0.00500	0.00129	mg/L		02/12/24 13:23	02/13/24 13:48	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.130	U	0.200	0.130	ug/L		02/12/24 09:32	02/12/24 14:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/16/24 04:21	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/16/24 04:21	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/16/24 04:21	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/16/24 04:21	1
Total Dissolved Solids (SM 2540C)	**6.50**		5.00	5.00	mg/L			02/13/24 11:51	1

Client Sample ID: EB-01

Lab Sample ID: 860-67548-14

Date Collected: 02/07/24 09:45

Matrix: Water

Date Received: 02/08/24 10:24

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	0.400	U	1.00	0.400	mg/L			02/26/24 17:28	1
Fluoride	0.0400	U	0.100	0.0400	mg/L			02/26/24 17:28	1
Chloride	**0.214**	**J**	0.500	0.200	mg/L			02/26/24 17:28	1

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00282	U	0.0100	0.00282	mg/L		02/12/24 13:23	02/16/24 19:34	10
Boron	**0.0827**		0.0800	0.0601	mg/L		02/12/24 13:23	02/19/24 19:46	1

Client: GSI Environmental Inc
Project/Site: Ash Pond

Job ID: 860-67548-1

Client Sample ID: EB-01

Date Collected: 02/07/24 09:45
Date Received: 02/08/24 10:24

Lab Sample ID: 860-67548-14

Matrix: Water

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.00314	U ^5+	0.0100	0.00314	mg/L		02/12/24 13:23	02/13/24 13:51	1
Beryllium	0.000274	U	0.00100	0.000274	mg/L		02/12/24 13:23	02/13/24 13:51	1
Calcium	0.127	U	0.500	0.127	mg/L		02/12/24 13:23	02/13/24 13:51	1
Cadmium	0.000217	U ^5+	0.00100	0.000217	mg/L		02/12/24 13:23	02/13/24 13:51	1
Chromium	0.00153	U	0.00200	0.00153	mg/L		02/12/24 13:23	02/15/24 19:47	1
Cobalt	0.000261	U	0.000500	0.000261	mg/L		02/12/24 13:23	02/13/24 13:51	1
Magnesium	0.0498	U	0.500	0.0498	mg/L		02/12/24 13:23	02/13/24 13:51	1
Molybdenum	0.000610	U	0.00500	0.000610	mg/L		02/12/24 13:23	02/13/24 13:51	1
Sodium	**0.585**		0.500	0.184	mg/L		02/12/24 13:23	02/13/24 13:51	1
Lead	0.000376	U	0.00100	0.000376	mg/L		02/12/24 13:23	02/15/24 19:47	1
Antimony	0.000967	U ^5+	0.00200	0.000967	mg/L		02/12/24 13:23	02/13/24 13:51	1
Thallium	0.000472	U	0.00100	0.000472	mg/L		02/12/24 13:23	02/13/24 13:51	1
Selenium	0.000739	U	0.00500	0.000739	mg/L		02/12/24 13:23	02/13/24 13:51	1
Lithium	**0.00171**	**J**	0.00500	0.00129	mg/L		02/12/24 13:23	02/13/24 13:51	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.130	U	0.200	0.130	ug/L		02/12/24 09:32	02/12/24 14:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/16/24 01:12	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/16/24 01:12	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/16/24 01:12	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/16/24 01:12	1
Total Dissolved Solids (SM 2540C)	5.00	U	5.00	5.00	mg/L			02/13/24 11:51	1

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 680-824545/2
Matrix: Water
Analysis Batch: 824545

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	0.400	U	1.00	0.400	mg/L			02/26/24 11:26	1
Fluoride	0.0400	U	0.100	0.0400	mg/L			02/26/24 11:26	1
Chloride	0.200	U	0.500	0.200	mg/L			02/26/24 11:26	1

Lab Sample ID: LCS 680-824545/4
Matrix: Water
Analysis Batch: 824545

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	20.0	19.02		mg/L		95	90 - 110
Fluoride	1.00	1.035		mg/L		103	90 - 110
Chloride	5.00	5.077		mg/L		102	90 - 110

Lab Sample ID: LCSD 680-824545/5
Matrix: Water
Analysis Batch: 824545

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	20.0	20.99		mg/L		105	90 - 110	10	15
Fluoride	1.00	1.081		mg/L		108	90 - 110	4	15
Chloride	5.00	5.323		mg/L		106	90 - 110	5	15

Lab Sample ID: MB 680-824633/33
Matrix: Water
Analysis Batch: 824633

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	0.400	U	1.00	0.400	mg/L			02/26/24 18:13	1
Fluoride	0.0400	U	0.100	0.0400	mg/L			02/26/24 18:13	1
Chloride	0.200	U	0.500	0.200	mg/L			02/26/24 18:13	1

Lab Sample ID: LCS 680-824633/34
Matrix: Water
Analysis Batch: 824633

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	20.0	19.22		mg/L		96	90 - 110
Fluoride	1.00	1.002		mg/L		100	90 - 110
Chloride	5.00	5.144		mg/L		103	90 - 110

Lab Sample ID: LCSD 680-824633/35
Matrix: Water
Analysis Batch: 824633

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	20.0	20.24		mg/L		101	90 - 110	5	15
Fluoride	1.00	1.083		mg/L		108	90 - 110	8	15
Chloride	5.00	5.383		mg/L		108	90 - 110	5	15

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 860-67548-2 MS
Matrix: Water
Analysis Batch: 824633

Client Sample ID: PZ-03
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	3430	F1	5000	42600	F1	mg/L		783	80 - 120
Fluoride	40.0	U	1000	1061		mg/L		106	80 - 120
Chloride	5620	F1	5000	76170	E F1	mg/L		1411	80 - 120

Lab Sample ID: 860-67548-2 MSD
Matrix: Water
Analysis Batch: 824633

Client Sample ID: PZ-03
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	3430	F1	5000	43120	F1	mg/L		794	80 - 120	1	15
Fluoride	40.0	U	1000	1058		mg/L		106	80 - 120	0	15
Chloride	5620	F1	5000	76780	E F1	mg/L		1423	80 - 120	1	15

Method: EPA 6020A - Metals (ICP/MS)

Lab Sample ID: MB 180-459431/1-A
Matrix: Water
Analysis Batch: 459602

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 459431

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.00314	U ^5+	0.0100	0.00314	mg/L		02/12/24 13:23	02/13/24 13:04	1
Beryllium	0.000274	U	0.00100	0.000274	mg/L		02/12/24 13:23	02/13/24 13:04	1
Cadmium	0.000217	U ^5+	0.00100	0.000217	mg/L		02/12/24 13:23	02/13/24 13:04	1
Cobalt	0.000261	U	0.000500	0.000261	mg/L		02/12/24 13:23	02/13/24 13:04	1
Molybdenum	0.000610	U	0.00500	0.000610	mg/L		02/12/24 13:23	02/13/24 13:04	1
Selenium	0.000739	U	0.00500	0.000739	mg/L		02/12/24 13:23	02/13/24 13:04	1

Lab Sample ID: MB 180-459431/1-A
Matrix: Water
Analysis Batch: 459743

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 459431

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.000282	U	0.00100	0.000282	mg/L		02/12/24 13:23	02/14/24 23:10	1
Calcium	0.127	U	0.500	0.127	mg/L		02/12/24 13:23	02/14/24 23:10	1
Chromium	0.00153	U	0.00200	0.00153	mg/L		02/12/24 13:23	02/14/24 23:10	1
Magnesium	0.0498	U	0.500	0.0498	mg/L		02/12/24 13:23	02/14/24 23:10	1
Sodium	0.184	U	0.500	0.184	mg/L		02/12/24 13:23	02/14/24 23:10	1
Lead	0.000376	U	0.00100	0.000376	mg/L		02/12/24 13:23	02/14/24 23:10	1
Antimony	0.000967	U ^5+	0.00200	0.000967	mg/L		02/12/24 13:23	02/14/24 23:10	1
Thallium	0.000472	U	0.00100	0.000472	mg/L		02/12/24 13:23	02/14/24 23:10	1

Lab Sample ID: MB 180-459431/1-A
Matrix: Water
Analysis Batch: 459980

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 459431

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.00129	U	0.00500	0.00129	mg/L		02/12/24 13:23	02/16/24 18:41	1

Method: EPA 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 180-459431/1-A
Matrix: Water
Analysis Batch: 460074

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 459431

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.0601	U	0.0800	0.0601	mg/L		02/12/24 13:23	02/19/24 18:14	1

Lab Sample ID: LCS 180-459431/2-A
Matrix: Water
Analysis Batch: 459602

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 459431

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	1.00	0.9973	^5+	mg/L		100	80 - 120
Beryllium	0.500	0.4917		mg/L		98	80 - 120
Cadmium	0.500	0.4877	^5+	mg/L		98	80 - 120
Cobalt	0.500	0.4767		mg/L		95	80 - 120
Molybdenum	0.500	0.5032		mg/L		101	80 - 120
Selenium	1.00	0.9734		mg/L		97	80 - 120

Lab Sample ID: LCS 180-459431/2-A
Matrix: Water
Analysis Batch: 459743

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 459431

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	1.00	1.092		mg/L		109	80 - 120
Calcium	25.0	29.22		mg/L		117	80 - 120
Chromium	0.500	0.4841		mg/L		97	80 - 120
Magnesium	25.0	24.26		mg/L		97	80 - 120
Sodium	25.0	24.79		mg/L		99	80 - 120
Lead	0.500	0.4906		mg/L		98	80 - 120
Antimony	0.250	0.2898	^5+	mg/L		116	80 - 120
Thallium	1.00	0.9729		mg/L		97	80 - 120

Lab Sample ID: LCS 180-459431/2-A
Matrix: Water
Analysis Batch: 459980

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 459431

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.500	0.5111		mg/L		102	80 - 120

Lab Sample ID: LCS 180-459431/2-A
Matrix: Water
Analysis Batch: 460074

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 459431

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.25	1.416		mg/L		113	80 - 120

Lab Sample ID: 860-67548-2 MS
Matrix: Water
Analysis Batch: 459602

Client Sample ID: PZ-03
Prep Type: Total Recoverable
Prep Batch: 459431

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	0.0229	^5+	1.00	1.051	^5+	mg/L		103	75 - 125
Beryllium	0.274	F2 F1	0.500	0.8455		mg/L		114	75 - 125
Cadmium	0.493	^5+	0.500	0.9433	^5+	mg/L		90	75 - 125

Method: EPA 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 860-67548-2 MS
Matrix: Water
Analysis Batch: 459602

Client Sample ID: PZ-03
Prep Type: Total Recoverable
Prep Batch: 459431

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cobalt	1.64		0.500	2.148		mg/L		102	75 - 125
Molybdenum	0.000610	U	0.500	0.5376		mg/L		108	75 - 125
Thallium	0.00896		1.00	0.9137		mg/L		90	75 - 125
Selenium	0.0473		1.00	0.9892		mg/L		94	75 - 125

Lab Sample ID: 860-67548-2 MS
Matrix: Water
Analysis Batch: 459743

Client Sample ID: PZ-03
Prep Type: Total Recoverable
Prep Batch: 459431

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.121		1.00	1.102		mg/L		98	75 - 125
Chromium	0.00266		0.500	0.4144		mg/L		82	75 - 125
Magnesium	239		25.0	258.1	4	mg/L		75	75 - 125
Lead	0.00177		0.500	0.4748		mg/L		95	75 - 125
Antimony	0.000967	U ^5+	0.250	0.2817	^5+	mg/L		113	75 - 125

Lab Sample ID: 860-67548-2 MS
Matrix: Water
Analysis Batch: 459743

Client Sample ID: PZ-03
Prep Type: Total Recoverable
Prep Batch: 459431

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	918		25.0	961.8	4	mg/L		176	75 - 125

Lab Sample ID: 860-67548-2 MS
Matrix: Water
Analysis Batch: 459980

Client Sample ID: PZ-03
Prep Type: Total Recoverable
Prep Batch: 459431

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sodium	3580		25.0	3678	4	mg/L		383	75 - 125
Lithium	2.50		0.500	3.177	4	mg/L		136	75 - 125

Lab Sample ID: 860-67548-2 MS
Matrix: Water
Analysis Batch: 460074

Client Sample ID: PZ-03
Prep Type: Total Recoverable
Prep Batch: 459431

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	6.27		1.25	11.86	4	mg/L		447	75 - 125

Lab Sample ID: 860-67548-2 MSD
Matrix: Water
Analysis Batch: 459602

Client Sample ID: PZ-03
Prep Type: Total Recoverable
Prep Batch: 459431

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Barium	0.0229	^5+	1.00	1.020	^5+	mg/L		100	75 - 125	3	20
Beryllium	0.274	F2 F1	0.500	0.4990	F1 F2	mg/L		45	75 - 125	52	20
Cadmium	0.493	^5+	0.500	0.9105	^5+	mg/L		84	75 - 125	4	20
Cobalt	1.64		0.500	2.109		mg/L		94	75 - 125	2	20
Molybdenum	0.000610	U	0.500	0.5209		mg/L		104	75 - 125	3	20
Thallium	0.00896		1.00	0.8878		mg/L		88	75 - 125	3	20
Selenium	0.0473		1.00	0.9502		mg/L		90	75 - 125	4	20

Method: EPA 6020A - Metals (ICP/MS)

Lab Sample ID: 860-67548-2 MSD
Matrix: Water
Analysis Batch: 459743

Client Sample ID: PZ-03
Prep Type: Total Recoverable
Prep Batch: 459431

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	0.121		1.00	1.125		mg/L		100	75 - 125	2	20
Chromium	0.00266		0.500	0.4220		mg/L		84	75 - 125	2	20
Magnesium	239		25.0	261.2	4	mg/L		87	75 - 125	1	20
Lead	0.00177		0.500	0.4837		mg/L		96	75 - 125	2	20
Antimony	0.000967	U ^5+	0.250	0.2877	^5+	mg/L		115	75 - 125	2	20

Lab Sample ID: 860-67548-2 MSD
Matrix: Water
Analysis Batch: 459743

Client Sample ID: PZ-03
Prep Type: Total Recoverable
Prep Batch: 459431

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	918		25.0	981.5	4	mg/L		255	75 - 125	2	20

Lab Sample ID: 860-67548-2 MSD
Matrix: Water
Analysis Batch: 459980

Client Sample ID: PZ-03
Prep Type: Total Recoverable
Prep Batch: 459431

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sodium	3580		25.0	3756	4	mg/L		696	75 - 125	2	20
Lithium	2.50		0.500	3.204	4	mg/L		141	75 - 125	1	20

Lab Sample ID: 860-67548-2 MSD
Matrix: Water
Analysis Batch: 460074

Client Sample ID: PZ-03
Prep Type: Total Recoverable
Prep Batch: 459431

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	6.27		1.25	11.80	4	mg/L		442	75 - 125	1	20

Method: EPA 7470A - Mercury (CVAA)

Lab Sample ID: MB 180-459411/1-A
Matrix: Water
Analysis Batch: 459448

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 459411

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.130	U	0.200	0.130	ug/L		02/12/24 09:32	02/12/24 13:58	1

Lab Sample ID: LCS 180-459411/2-A
Matrix: Water
Analysis Batch: 459448

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 459411

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	2.50	2.604		ug/L		104	80 - 120

Lab Sample ID: 860-67548-2 MS
Matrix: Water
Analysis Batch: 459448

Client Sample ID: PZ-03
Prep Type: Total/NA
Prep Batch: 459411

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	1.37		1.00	2.229		ug/L		86	75 - 125

Method: EPA 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: 860-67548-2 MSD
Matrix: Water
Analysis Batch: 459448

Client Sample ID: PZ-03
Prep Type: Total/NA
Prep Batch: 459411

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	1.37		1.00	2.245		ug/L		87	75 - 125	1	20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-145687/35
Matrix: Water
Analysis Batch: 145687

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	4.00	U	4.00	4.00	mg/L			02/15/24 22:35	1
Bicarbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			02/15/24 22:35	1
Carbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			02/15/24 22:35	1
Hydroxide Alkalinity	4.00	U	4.00	4.00	mg/L			02/15/24 22:35	1

Lab Sample ID: MB 860-145687/4
Matrix: Water
Analysis Batch: 145687

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	4.00	U	4.00	4.00	mg/L			02/15/24 18:29	1
Bicarbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			02/15/24 18:29	1
Carbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			02/15/24 18:29	1
Hydroxide Alkalinity	4.00	U	4.00	4.00	mg/L			02/15/24 18:29	1

Lab Sample ID: MB 860-145687/66
Matrix: Water
Analysis Batch: 145687

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	4.00	U	4.00	4.00	mg/L			02/16/24 02:29	1
Bicarbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			02/16/24 02:29	1
Carbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			02/16/24 02:29	1
Hydroxide Alkalinity	4.00	U	4.00	4.00	mg/L			02/16/24 02:29	1

Lab Sample ID: LCS 860-145687/36
Matrix: Water
Analysis Batch: 145687

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity	250	257.8		mg/L		103	85 - 115

Lab Sample ID: LCS 860-145687/5
Matrix: Water
Analysis Batch: 145687

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity	250	260.7		mg/L		104	85 - 115

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: LCS 860-145687/67
Matrix: Water
Analysis Batch: 145687

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity	250	259.9		mg/L		104	85 - 115

Lab Sample ID: LCSD 860-145687/37
Matrix: Water
Analysis Batch: 145687

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Alkalinity	250	262.9		mg/L		105	85 - 115	2	20

Lab Sample ID: LCSD 860-145687/6
Matrix: Water
Analysis Batch: 145687

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Alkalinity	250	262.8		mg/L		105	85 - 115	1	20

Lab Sample ID: LCSD 860-145687/68
Matrix: Water
Analysis Batch: 145687

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Alkalinity	250	263.8		mg/L		106	85 - 115	1	20

Lab Sample ID: 860-67548-3 DU
Matrix: Water
Analysis Batch: 145687

Client Sample ID: PZ-05
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Alkalinity	4.00	U	4.00	U	mg/L		NC	20
Bicarbonate Alkalinity as CaCO3	4.00	U	4.00	U	mg/L		NC	20
Carbonate Alkalinity as CaCO3	4.00	U	4.00	U	mg/L		NC	20
Hydroxide Alkalinity	4.00	U	4.00	U	mg/L		NC	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 860-145110/1
Matrix: Water
Analysis Batch: 145110

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5.00	U	5.00	5.00	mg/L			02/13/24 11:51	1

Lab Sample ID: LCS 860-145110/2
Matrix: Water
Analysis Batch: 145110

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	1000	1003		mg/L		100	80 - 120

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: LCSD 860-145110/3
Matrix: Water
Analysis Batch: 145110

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids			1000	1008		mg/L		101	80 - 120	0	10

Lab Sample ID: LLCS 860-145110/4
Matrix: Water
Analysis Batch: 145110

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

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			5.00	6.500		mg/L		130	50 - 150		

Lab Sample ID: 860-67548-1 DU
Matrix: Water
Analysis Batch: 145110

Client Sample ID: PZ-02
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	10400			9830		mg/L				5	10

Lab Sample ID: 860-67548-2 DU
Matrix: Water
Analysis Batch: 145110

Client Sample ID: PZ-03
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	16000			15740		mg/L				2	10

HPLC/IC

Analysis Batch: 824545

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-67548-9	AP-35	Total/NA	Water	300.0-1993 R2.1	
860-67548-10	AP-36	Total/NA	Water	300.0-1993 R2.1	
860-67548-11	MW-03	Total/NA	Water	300.0-1993 R2.1	
860-67548-12	DUP-02	Total/NA	Water	300.0-1993 R2.1	
860-67548-13	FB-02	Total/NA	Water	300.0-1993 R2.1	
860-67548-14	EB-01	Total/NA	Water	300.0-1993 R2.1	
MB 680-824545/2	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 680-824545/4	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
LCSD 680-824545/5	Lab Control Sample Dup	Total/NA	Water	300.0-1993 R2.1	

Analysis Batch: 824633

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-67548-1	PZ-02	Total/NA	Water	300.0-1993 R2.1	
860-67548-2	PZ-03	Total/NA	Water	300.0-1993 R2.1	
860-67548-3	PZ-05	Total/NA	Water	300.0-1993 R2.1	
860-67548-4	PZ-06	Total/NA	Water	300.0-1993 R2.1	
860-67548-5	AP-31	Total/NA	Water	300.0-1993 R2.1	
860-67548-6	AP-32	Total/NA	Water	300.0-1993 R2.1	
860-67548-7	AP-33	Total/NA	Water	300.0-1993 R2.1	
860-67548-8	AP-34	Total/NA	Water	300.0-1993 R2.1	
MB 680-824633/33	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 680-824633/34	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
LCSD 680-824633/35	Lab Control Sample Dup	Total/NA	Water	300.0-1993 R2.1	
860-67548-2 MS	PZ-03	Total/NA	Water	300.0-1993 R2.1	
860-67548-2 MSD	PZ-03	Total/NA	Water	300.0-1993 R2.1	

Metals

Prep Batch: 459411

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-67548-1	PZ-02	Total/NA	Water	7470A	
860-67548-2	PZ-03	Total/NA	Water	7470A	
860-67548-3	PZ-05	Total/NA	Water	7470A	
860-67548-4	PZ-06	Total/NA	Water	7470A	
860-67548-5	AP-31	Total/NA	Water	7470A	
860-67548-6	AP-32	Total/NA	Water	7470A	
860-67548-7	AP-33	Total/NA	Water	7470A	
860-67548-8	AP-34	Total/NA	Water	7470A	
860-67548-9	AP-35	Total/NA	Water	7470A	
860-67548-10	AP-36	Total/NA	Water	7470A	
860-67548-11	MW-03	Total/NA	Water	7470A	
860-67548-12	DUP-02	Total/NA	Water	7470A	
860-67548-13	FB-02	Total/NA	Water	7470A	
860-67548-14	EB-01	Total/NA	Water	7470A	
MB 180-459411/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-459411/2-A	Lab Control Sample	Total/NA	Water	7470A	
860-67548-2 MS	PZ-03	Total/NA	Water	7470A	
860-67548-2 MSD	PZ-03	Total/NA	Water	7470A	

Metals

Prep Batch: 459431

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-67548-1	PZ-02	Total Recoverable	Water	3005A	
860-67548-2	PZ-03	Total Recoverable	Water	3005A	
860-67548-3	PZ-05	Total Recoverable	Water	3005A	
860-67548-4	PZ-06	Total Recoverable	Water	3005A	
860-67548-5	AP-31	Total Recoverable	Water	3005A	
860-67548-6	AP-32	Total Recoverable	Water	3005A	
860-67548-7	AP-33	Total Recoverable	Water	3005A	
860-67548-8	AP-34	Total Recoverable	Water	3005A	
860-67548-9	AP-35	Total Recoverable	Water	3005A	
860-67548-10	AP-36	Total Recoverable	Water	3005A	
860-67548-11	MW-03	Total Recoverable	Water	3005A	
860-67548-12	DUP-02	Total Recoverable	Water	3005A	
860-67548-13	FB-02	Total Recoverable	Water	3005A	
860-67548-14	EB-01	Total Recoverable	Water	3005A	
MB 180-459431/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-459431/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
860-67548-2 MS	PZ-03	Total Recoverable	Water	3005A	
860-67548-2 MSD	PZ-03	Total Recoverable	Water	3005A	

Analysis Batch: 459448

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-67548-1	PZ-02	Total/NA	Water	EPA 7470A	459411
860-67548-2	PZ-03	Total/NA	Water	EPA 7470A	459411
860-67548-3	PZ-05	Total/NA	Water	EPA 7470A	459411
860-67548-4	PZ-06	Total/NA	Water	EPA 7470A	459411
860-67548-5	AP-31	Total/NA	Water	EPA 7470A	459411
860-67548-6	AP-32	Total/NA	Water	EPA 7470A	459411
860-67548-7	AP-33	Total/NA	Water	EPA 7470A	459411
860-67548-8	AP-34	Total/NA	Water	EPA 7470A	459411
860-67548-9	AP-35	Total/NA	Water	EPA 7470A	459411
860-67548-10	AP-36	Total/NA	Water	EPA 7470A	459411
860-67548-11	MW-03	Total/NA	Water	EPA 7470A	459411
860-67548-12	DUP-02	Total/NA	Water	EPA 7470A	459411
860-67548-13	FB-02	Total/NA	Water	EPA 7470A	459411
860-67548-14	EB-01	Total/NA	Water	EPA 7470A	459411
MB 180-459411/1-A	Method Blank	Total/NA	Water	EPA 7470A	459411
LCS 180-459411/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	459411
860-67548-2 MS	PZ-03	Total/NA	Water	EPA 7470A	459411
860-67548-2 MSD	PZ-03	Total/NA	Water	EPA 7470A	459411

Analysis Batch: 459602

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-67548-1	PZ-02	Total Recoverable	Water	EPA 6020A	459431
860-67548-2	PZ-03	Total Recoverable	Water	EPA 6020A	459431
860-67548-3	PZ-05	Total Recoverable	Water	EPA 6020A	459431
860-67548-4	PZ-06	Total Recoverable	Water	EPA 6020A	459431
860-67548-5	AP-31	Total Recoverable	Water	EPA 6020A	459431
860-67548-6	AP-32	Total Recoverable	Water	EPA 6020A	459431
860-67548-7	AP-33	Total Recoverable	Water	EPA 6020A	459431
860-67548-8	AP-34	Total Recoverable	Water	EPA 6020A	459431
860-67548-9	AP-35	Total Recoverable	Water	EPA 6020A	459431

Metals (Continued)

Analysis Batch: 459602 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-67548-10	AP-36	Total Recoverable	Water	EPA 6020A	459431
860-67548-11	MW-03	Total Recoverable	Water	EPA 6020A	459431
860-67548-12	DUP-02	Total Recoverable	Water	EPA 6020A	459431
860-67548-13	FB-02	Total Recoverable	Water	EPA 6020A	459431
860-67548-14	EB-01	Total Recoverable	Water	EPA 6020A	459431
MB 180-459431/1-A	Method Blank	Total Recoverable	Water	EPA 6020A	459431
LCS 180-459431/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020A	459431
860-67548-2 MS	PZ-03	Total Recoverable	Water	EPA 6020A	459431
860-67548-2 MSD	PZ-03	Total Recoverable	Water	EPA 6020A	459431

Analysis Batch: 459743

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-67548-1	PZ-02	Total Recoverable	Water	EPA 6020A	459431
860-67548-1	PZ-02	Total Recoverable	Water	EPA 6020A	459431
860-67548-2	PZ-03	Total Recoverable	Water	EPA 6020A	459431
860-67548-2	PZ-03	Total Recoverable	Water	EPA 6020A	459431
860-67548-3	PZ-05	Total Recoverable	Water	EPA 6020A	459431
860-67548-4	PZ-06	Total Recoverable	Water	EPA 6020A	459431
860-67548-4	PZ-06	Total Recoverable	Water	EPA 6020A	459431
860-67548-5	AP-31	Total Recoverable	Water	EPA 6020A	459431
860-67548-5	AP-31	Total Recoverable	Water	EPA 6020A	459431
860-67548-6	AP-32	Total Recoverable	Water	EPA 6020A	459431
860-67548-6	AP-32	Total Recoverable	Water	EPA 6020A	459431
860-67548-7	AP-33	Total Recoverable	Water	EPA 6020A	459431
860-67548-7	AP-33	Total Recoverable	Water	EPA 6020A	459431
860-67548-8	AP-34	Total Recoverable	Water	EPA 6020A	459431
860-67548-8	AP-34	Total Recoverable	Water	EPA 6020A	459431
860-67548-9	AP-35	Total Recoverable	Water	EPA 6020A	459431
860-67548-9	AP-35	Total Recoverable	Water	EPA 6020A	459431
860-67548-10	AP-36	Total Recoverable	Water	EPA 6020A	459431
860-67548-10	AP-36	Total Recoverable	Water	EPA 6020A	459431
860-67548-11	MW-03	Total Recoverable	Water	EPA 6020A	459431
860-67548-11	MW-03	Total Recoverable	Water	EPA 6020A	459431
860-67548-12	DUP-02	Total Recoverable	Water	EPA 6020A	459431
860-67548-12	DUP-02	Total Recoverable	Water	EPA 6020A	459431
MB 180-459431/1-A	Method Blank	Total Recoverable	Water	EPA 6020A	459431
LCS 180-459431/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020A	459431
860-67548-2 MS	PZ-03	Total Recoverable	Water	EPA 6020A	459431
860-67548-2 MS	PZ-03	Total Recoverable	Water	EPA 6020A	459431
860-67548-2 MSD	PZ-03	Total Recoverable	Water	EPA 6020A	459431
860-67548-2 MSD	PZ-03	Total Recoverable	Water	EPA 6020A	459431

Analysis Batch: 459841

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-67548-3	PZ-05	Total Recoverable	Water	EPA 6020A	459431
860-67548-13	FB-02	Total Recoverable	Water	EPA 6020A	459431
860-67548-14	EB-01	Total Recoverable	Water	EPA 6020A	459431

Analysis Batch: 459980

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-67548-1	PZ-02	Total Recoverable	Water	EPA 6020A	459431

Metals (Continued)

Analysis Batch: 459980 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-67548-2	PZ-03	Total Recoverable	Water	EPA 6020A	459431
860-67548-4	PZ-06	Total Recoverable	Water	EPA 6020A	459431
860-67548-6	AP-32	Total Recoverable	Water	EPA 6020A	459431
860-67548-7	AP-33	Total Recoverable	Water	EPA 6020A	459431
860-67548-8	AP-34	Total Recoverable	Water	EPA 6020A	459431
860-67548-9	AP-35	Total Recoverable	Water	EPA 6020A	459431
860-67548-11	MW-03	Total Recoverable	Water	EPA 6020A	459431
860-67548-12	DUP-02	Total Recoverable	Water	EPA 6020A	459431
860-67548-13	FB-02	Total Recoverable	Water	EPA 6020A	459431
860-67548-14	EB-01	Total Recoverable	Water	EPA 6020A	459431
MB 180-459431/1-A	Method Blank	Total Recoverable	Water	EPA 6020A	459431
LCS 180-459431/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020A	459431
860-67548-2 MS	PZ-03	Total Recoverable	Water	EPA 6020A	459431
860-67548-2 MSD	PZ-03	Total Recoverable	Water	EPA 6020A	459431

Analysis Batch: 460074

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-67548-2	PZ-03	Total Recoverable	Water	EPA 6020A	459431
860-67548-3	PZ-05	Total Recoverable	Water	EPA 6020A	459431
860-67548-4	PZ-06	Total Recoverable	Water	EPA 6020A	459431
860-67548-5	AP-31	Total Recoverable	Water	EPA 6020A	459431
860-67548-6	AP-32	Total Recoverable	Water	EPA 6020A	459431
860-67548-7	AP-33	Total Recoverable	Water	EPA 6020A	459431
860-67548-8	AP-34	Total Recoverable	Water	EPA 6020A	459431
860-67548-9	AP-35	Total Recoverable	Water	EPA 6020A	459431
860-67548-10	AP-36	Total Recoverable	Water	EPA 6020A	459431
860-67548-11	MW-03	Total Recoverable	Water	EPA 6020A	459431
860-67548-12	DUP-02	Total Recoverable	Water	EPA 6020A	459431
860-67548-13	FB-02	Total Recoverable	Water	EPA 6020A	459431
860-67548-14	EB-01	Total Recoverable	Water	EPA 6020A	459431
MB 180-459431/1-A	Method Blank	Total Recoverable	Water	EPA 6020A	459431
LCS 180-459431/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020A	459431
860-67548-2 MS	PZ-03	Total Recoverable	Water	EPA 6020A	459431
860-67548-2 MSD	PZ-03	Total Recoverable	Water	EPA 6020A	459431

Analysis Batch: 460212

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-67548-1	PZ-02	Total Recoverable	Water	EPA 6020A	459431

General Chemistry

Analysis Batch: 145110

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-67548-1	PZ-02	Total/NA	Water	SM 2540C	
860-67548-2	PZ-03	Total/NA	Water	SM 2540C	
860-67548-3	PZ-05	Total/NA	Water	SM 2540C	
860-67548-4	PZ-06	Total/NA	Water	SM 2540C	
860-67548-5	AP-31	Total/NA	Water	SM 2540C	
860-67548-6	AP-32	Total/NA	Water	SM 2540C	
860-67548-7	AP-33	Total/NA	Water	SM 2540C	
860-67548-8	AP-34	Total/NA	Water	SM 2540C	

General Chemistry (Continued)

Analysis Batch: 145110 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-67548-9	AP-35	Total/NA	Water	SM 2540C	
860-67548-10	AP-36	Total/NA	Water	SM 2540C	
860-67548-11	MW-03	Total/NA	Water	SM 2540C	
860-67548-12	DUP-02	Total/NA	Water	SM 2540C	
860-67548-13	FB-02	Total/NA	Water	SM 2540C	
860-67548-14	EB-01	Total/NA	Water	SM 2540C	
MB 860-145110/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-145110/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-145110/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
LLCS 860-145110/4	Lab Control Sample	Total/NA	Water	SM 2540C	
860-67548-1 DU	PZ-02	Total/NA	Water	SM 2540C	
860-67548-2 DU	PZ-03	Total/NA	Water	SM 2540C	

Analysis Batch: 145687

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-67548-1	PZ-02	Total/NA	Water	SM 2320B	
860-67548-2	PZ-03	Total/NA	Water	SM 2320B	
860-67548-3	PZ-05	Total/NA	Water	SM 2320B	
860-67548-4	PZ-06	Total/NA	Water	SM 2320B	
860-67548-5	AP-31	Total/NA	Water	SM 2320B	
860-67548-6	AP-32	Total/NA	Water	SM 2320B	
860-67548-7	AP-33	Total/NA	Water	SM 2320B	
860-67548-8	AP-34	Total/NA	Water	SM 2320B	
860-67548-9	AP-35	Total/NA	Water	SM 2320B	
860-67548-10	AP-36	Total/NA	Water	SM 2320B	
860-67548-11	MW-03	Total/NA	Water	SM 2320B	
860-67548-12	DUP-02	Total/NA	Water	SM 2320B	
860-67548-13	FB-02	Total/NA	Water	SM 2320B	
860-67548-14	EB-01	Total/NA	Water	SM 2320B	
MB 860-145687/35	Method Blank	Total/NA	Water	SM 2320B	
MB 860-145687/4	Method Blank	Total/NA	Water	SM 2320B	
MB 860-145687/66	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-145687/36	Lab Control Sample	Total/NA	Water	SM 2320B	
LCS 860-145687/5	Lab Control Sample	Total/NA	Water	SM 2320B	
LCS 860-145687/67	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-145687/37	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
LCSD 860-145687/6	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
LCSD 860-145687/68	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
860-67548-3 DU	PZ-05	Total/NA	Water	SM 2320B	

Client Sample ID: PZ-02

Lab Sample ID: 860-67548-1

Date Collected: 02/07/24 11:15

Matrix: Water

Date Received: 02/08/24 10:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		500	2 mL	2 mL	824633	02/26/24 19:32	GE	EET SAV
Total Recoverable	Prep	3005A			25 mL	25 mL	459431	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		10			459980	02/16/24 18:46	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459431	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			459602	02/13/24 14:03	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459431	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			459743	02/14/24 23:20	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459431	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		5			459743	02/15/24 00:48	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459431	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		20			460212	02/20/24 16:38	S1Z	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	459411	02/12/24 09:32	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			459448	02/12/24 14:00	RJR	EET PIT
Total/NA	Analysis	SM 2320B		1			145687	02/16/24 03:03	YG	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	145110	02/13/24 11:51	YG	EET HOU

Client Sample ID: PZ-03

Lab Sample ID: 860-67548-2

Date Collected: 02/07/24 11:15

Matrix: Water

Date Received: 02/08/24 10:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1000	2 mL	2 mL	824633	02/26/24 18:47	GE	EET SAV
Total Recoverable	Prep	3005A			25 mL	25 mL	459431	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		10			459980	02/16/24 18:49	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459431	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			459602	02/13/24 14:06	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459431	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			459743	02/14/24 23:25	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459431	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		5			459743	02/15/24 00:53	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459431	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		20			460074	02/19/24 18:39	S1Z	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	459411	02/12/24 09:32	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			459448	02/12/24 14:01	RJR	EET PIT
Total/NA	Analysis	SM 2320B		1			145687	02/16/24 04:14	YG	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	145110	02/13/24 11:51	YG	EET HOU

Client Sample ID: PZ-05

Lab Sample ID: 860-67548-3

Date Collected: 02/07/24 11:00

Matrix: Water

Date Received: 02/08/24 10:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		500	2 mL	2 mL	824633	02/26/24 19:43	GE	EET SAV

Lab Chronicle

Client: GSI Environmental Inc
Project/Site: Ash Pond

Job ID: 860-67548-1

Client Sample ID: PZ-05

Date Collected: 02/07/24 11:00
Date Received: 02/08/24 10:24

Lab Sample ID: 860-67548-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			25 mL	25 mL	459431	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			459602	02/13/24 14:23	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459431	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			459743	02/14/24 23:44	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459431	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		10			459841	02/15/24 20:56	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459431	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		10			460074	02/19/24 18:29	S1Z	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	459411	02/12/24 09:32	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			459448	02/12/24 14:04	RJR	EET PIT
Total/NA	Analysis	SM 2320B		1			145687	02/16/24 03:17	YG	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	145110	02/13/24 11:51	YG	EET HOU

Client Sample ID: PZ-06

Date Collected: 02/07/24 09:20
Date Received: 02/08/24 10:24

Lab Sample ID: 860-67548-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		500	2 mL	2 mL	824633	02/26/24 19:54	GE	EET SAV
Total Recoverable	Prep	3005A			25 mL	25 mL	459431	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		10			459980	02/16/24 19:00	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459431	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			459602	02/13/24 14:28	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459431	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			459743	02/14/24 23:49	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459431	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		5			459743	02/15/24 01:18	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459431	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		10			460074	02/19/24 18:34	S1Z	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	459411	02/12/24 09:32	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			459448	02/12/24 14:05	RJR	EET PIT
Total/NA	Analysis	SM 2320B		1			145687	02/16/24 02:08	YG	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	145110	02/13/24 11:51	YG	EET HOU

Client Sample ID: AP-31

Date Collected: 02/07/24 11:30
Date Received: 02/08/24 10:24

Lab Sample ID: 860-67548-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		500	2 mL	2 mL	824633	02/26/24 20:06	GE	EET SAV
Total Recoverable	Prep	3005A			25 mL	25 mL	459431	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			459602	02/13/24 14:33	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459431	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			459743	02/15/24 00:09	S1Z	EET PIT

Client Sample ID: AP-31

Lab Sample ID: 860-67548-5

Date Collected: 02/07/24 11:30

Matrix: Water

Date Received: 02/08/24 10:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			25 mL	25 mL	459431	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		5			459743	02/15/24 01:20	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459431	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		20			460074	02/19/24 18:53	S1Z	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	459411	02/12/24 09:32	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			459448	02/12/24 14:06	RJR	EET PIT
Total/NA	Analysis	SM 2320B		1			145687	02/16/24 03:34	YG	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	145110	02/13/24 11:51	YG	EET HOU

Client Sample ID: AP-32

Lab Sample ID: 860-67548-6

Date Collected: 02/07/24 09:30

Matrix: Water

Date Received: 02/08/24 10:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		500	2 mL	2 mL	824633	02/26/24 20:17	GE	EET SAV
Total Recoverable	Prep	3005A			25 mL	25 mL	459431	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		10			459980	02/16/24 19:06	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459431	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			459602	02/13/24 14:38	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459431	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			459743	02/15/24 00:14	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459431	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		5			459743	02/15/24 01:23	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459431	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		10			460074	02/19/24 19:06	S1Z	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	459411	02/12/24 09:32	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			459448	02/12/24 14:07	RJR	EET PIT
Total/NA	Analysis	SM 2320B		1			145687	02/16/24 00:57	YG	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	145110	02/13/24 11:51	YG	EET HOU

Client Sample ID: AP-33

Lab Sample ID: 860-67548-7

Date Collected: 02/07/24 08:45

Matrix: Water

Date Received: 02/08/24 10:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		500	2 mL	2 mL	824633	02/26/24 20:28	GE	EET SAV
Total Recoverable	Prep	3005A			25 mL	25 mL	459431	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		10			459980	02/16/24 19:14	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459431	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			459602	02/13/24 13:34	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459431	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			459743	02/15/24 00:19	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459431	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		5			459743	02/15/24 01:25	S1Z	EET PIT

Client Sample ID: AP-33

Lab Sample ID: 860-67548-7

Date Collected: 02/07/24 08:45

Matrix: Water

Date Received: 02/08/24 10:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			25 mL	25 mL	459431	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		20			460074	02/19/24 19:36	S1Z	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	459411	02/12/24 09:32	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			459448	02/12/24 14:14	RJR	EET PIT
Total/NA	Analysis	SM 2320B		1			145687	02/16/24 01:47	YG	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	145110	02/13/24 11:51	YG	EET HOU

Client Sample ID: AP-34

Lab Sample ID: 860-67548-8

Date Collected: 02/07/24 10:15

Matrix: Water

Date Received: 02/08/24 10:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		500	2 mL	2 mL	824633	02/26/24 20:40	GE	EET SAV
Total Recoverable	Prep	3005A			25 mL	25 mL	459431	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		10			459980	02/16/24 19:17	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459431	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			459602	02/13/24 13:36	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459431	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			459743	02/15/24 00:24	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459431	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		5			459743	02/15/24 01:28	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459431	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		10			460074	02/19/24 19:11	S1Z	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	459411	02/12/24 09:32	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			459448	02/12/24 14:15	RJR	EET PIT
Total/NA	Analysis	SM 2320B		1			145687	02/16/24 01:53	YG	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	145110	02/13/24 11:51	YG	EET HOU

Client Sample ID: AP-35

Lab Sample ID: 860-67548-9

Date Collected: 02/07/24 10:45

Matrix: Water

Date Received: 02/08/24 10:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		250	2 mL	2 mL	824545	02/26/24 12:58	UI	EET SAV
Total Recoverable	Prep	3005A			25 mL	25 mL	459431	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		10			459980	02/16/24 19:20	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459431	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			459602	02/13/24 13:38	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459431	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			459743	02/15/24 00:28	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459431	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		5			459743	02/15/24 01:38	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459431	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		10			460074	02/19/24 19:16	S1Z	EET PIT

Client Sample ID: AP-35

Date Collected: 02/07/24 10:45
Date Received: 02/08/24 10:24

Lab Sample ID: 860-67548-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			25 mL	25 mL	459411	02/12/24 09:32	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			459448	02/12/24 14:16	RJR	EET PIT
Total/NA	Analysis	SM 2320B		1			145687	02/16/24 04:08	YG	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	145110	02/13/24 11:51	YG	EET HOU

Client Sample ID: AP-36

Date Collected: 02/07/24 10:20
Date Received: 02/08/24 10:24

Lab Sample ID: 860-67548-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		250	2 mL	2 mL	824545	02/26/24 13:10	UI	EET SAV
Total Recoverable	Prep	3005A			25 mL	25 mL	459431	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			459602	02/13/24 13:41	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459431	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			459743	02/15/24 00:33	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459431	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		5			459743	02/15/24 01:43	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459431	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		10			460074	02/19/24 19:21	S1Z	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	459411	02/12/24 09:32	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			459448	02/12/24 14:17	RJR	EET PIT
Total/NA	Analysis	SM 2320B		1			145687	02/15/24 23:11	YG	EET HOU
Total/NA	Analysis	SM 2540C		1	25 mL	200 mL	145110	02/13/24 11:51	YG	EET HOU

Client Sample ID: MW-03

Date Collected: 02/07/24 10:15
Date Received: 02/08/24 10:24

Lab Sample ID: 860-67548-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		250	2 mL	2 mL	824545	02/26/24 13:21	UI	EET SAV
Total Recoverable	Prep	3005A			25 mL	25 mL	459431	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		10			459980	02/16/24 19:26	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459431	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			459602	02/13/24 13:43	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459431	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			459743	02/15/24 00:38	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459431	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		5			459743	02/15/24 01:47	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459431	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		10			460074	02/19/24 19:26	S1Z	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	459411	02/12/24 09:32	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			459448	02/12/24 14:19	RJR	EET PIT
Total/NA	Analysis	SM 2320B		1			145687	02/15/24 21:50	YG	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	145110	02/13/24 11:51	YG	EET HOU

Client Sample ID: DUP-02

Lab Sample ID: 860-67548-12

Date Collected: 02/07/24 09:00

Matrix: Water

Date Received: 02/08/24 10:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		250	2 mL	2 mL	824545	02/26/24 17:05	UI	EET SAV
Total Recoverable	Prep	3005A			25 mL	25 mL	459431	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		10			459980	02/16/24 19:28	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459431	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			459602	02/13/24 13:46	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459431	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			459743	02/15/24 00:43	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459431	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		5			459743	02/15/24 01:52	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459431	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		10			460074	02/19/24 19:31	S1Z	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	459411	02/12/24 09:32	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			459448	02/12/24 14:20	RJR	EET PIT
Total/NA	Analysis	SM 2320B		1			145687	02/16/24 04:03	YG	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	145110	02/13/24 11:51	YG	EET HOU

Client Sample ID: FB-02

Lab Sample ID: 860-67548-13

Date Collected: 02/07/24 11:30

Matrix: Water

Date Received: 02/08/24 10:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	2 mL	2 mL	824545	02/26/24 17:16	UI	EET SAV
Total Recoverable	Prep	3005A			25 mL	25 mL	459431	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		10			459980	02/16/24 19:31	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459431	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			459602	02/13/24 13:48	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459431	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			459841	02/15/24 19:45	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459431	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			460074	02/19/24 19:41	S1Z	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	459411	02/12/24 09:32	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			459448	02/12/24 14:21	RJR	EET PIT
Total/NA	Analysis	SM 2320B		1			145687	02/16/24 04:21	YG	EET HOU
Total/NA	Analysis	SM 2540C		1	200 mL	200 mL	145110	02/13/24 11:51	YG	EET HOU

Client Sample ID: EB-01

Lab Sample ID: 860-67548-14

Date Collected: 02/07/24 09:45

Matrix: Water

Date Received: 02/08/24 10:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	2 mL	2 mL	824545	02/26/24 17:28	UI	EET SAV
Total Recoverable	Prep	3005A			25 mL	25 mL	459431	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		10			459980	02/16/24 19:34	S1Z	EET PIT

Lab Chronicle

Client: GSI Environmental Inc
Project/Site: Ash Pond

Job ID: 860-67548-1

Client Sample ID: EB-01

Date Collected: 02/07/24 09:45
Date Received: 02/08/24 10:24

Lab Sample ID: 860-67548-14

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			25 mL	25 mL	459431	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			459602	02/13/24 13:51	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459431	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			459841	02/15/24 19:47	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459431	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			460074	02/19/24 19:46	S1Z	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	459411	02/12/24 09:32	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			459448	02/12/24 14:22	RJR	EET PIT
Total/NA	Analysis	SM 2320B		1			145687	02/16/24 01:12	YG	EET HOU
Total/NA	Analysis	SM 2540C		1	200 mL	200 mL	145110	02/13/24 11:51	YG	EET HOU

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

EET PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: GSI Environmental Inc
Project/Site: Ash Pond

Job ID: 860-67548-1

Laboratory: Eurofins Houston

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215	02-20-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
SM 2320B		Water	Bicarbonate Alkalinity as CaCO3
SM 2320B		Water	Carbonate Alkalinity as CaCO3
SM 2320B		Water	Hydroxide Alkalinity

Laboratory: Eurofins Pittsburgh

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

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	06-27-24
California	State	2891	04-30-24
Connecticut	State	PH-0688	09-30-24
Florida	NELAP	E871008	06-30-24
Georgia	State	PA 02-00416	04-30-24
Illinois	NELAP	004375	06-30-24
Kansas	NELAP	E-10350	01-31-25
Kentucky (UST)	State	162013	04-30-23 *
Kentucky (WW)	State	KY98043	12-31-23 *
Louisiana	NELAP	04041	06-30-22 *
Louisiana (All)	NELAP	04041	06-30-24
Maine	State	PA00164	03-06-24
Minnesota	NELAP	042-999-482	12-31-24
New Hampshire	NELAP	2030	04-04-24
New Jersey	NELAP	PA005	06-30-24
New York	NELAP	11182	04-01-24
North Carolina (WW/SW)	State	434	12-31-24
North Dakota	State	R-227	04-30-24
Oregon	NELAP	PA-2151	02-06-24 *
Pennsylvania	NELAP	02-00416	04-30-24
Rhode Island	State	LAO00362	12-31-22 *
South Carolina	State	89014	04-30-25
Texas	NELAP	T104704528	03-31-24
US Fish & Wildlife	US Federal Programs	058448	03-31-24
USDA	US Federal Programs	P330-16-00211	04-11-26
Utah	NELAP	PA001462019-8	05-31-24
Virginia	NELAP	10043	07-14-24
West Virginia DEP	State	142	01-31-25
Wisconsin	State	998027800	08-31-24

Laboratory: Eurofins Savannah

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

Authority	Program	Identification Number	Expiration Date
	AFCEE	SAVLAB	
Alabama	State	41450	06-30-24
ANAB	Dept. of Defense ELAP	L2463	09-22-24
Arkansas (DW)	State	GA00006	06-30-24

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification Summary

Client: GSI Environmental Inc
Project/Site: Ash Pond

Job ID: 860-67548-1

Laboratory: Eurofins Savannah (Continued)

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

Authority	Program	Identification Number	Expiration Date
California	State	2939	06-30-24
Florida	NELAP	E87052	06-30-24
Georgia	State	E87052	06-30-24
Georgia (DW)	State	803	06-30-24
Guam	State	19-007R	04-17-24
Hawaii	State	<cert No.>	06-30-24
Illinois	NELAP	200022	11-30-24
Indiana	State	C-GA-02	06-30-24
Iowa	State	353	07-01-25
Kentucky (UST)	State	NA	06-30-24
Louisiana	NELAP	30690	06-30-24
Louisiana (All)	NELAP	30690	06-30-24
Louisiana (DW)	State	LA009	12-31-24
Maine	State	GA00006	09-25-24
Maryland	State	250	12-31-24
Massachusetts	State	M-GA006	06-30-24
Michigan	State	9925	06-30-24
Mississippi	State	<cert No.>	06-30-24
Nebraska	State	NE-OS-7-04	06-30-24
New Jersey	NELAP	GA769	06-30-24
New Mexico	State	GA00006	06-30-24
North Carolina (DW)	State	13701	07-31-24
North Carolina (WW/SW)	State	269	12-31-24
Pennsylvania	NELAP	68-00474	06-30-24
Puerto Rico	State	GA00006	01-01-25
South Carolina	State	98001	06-30-24
Tennessee	State	TN02961	06-30-24
Texas	NELAP	T1047004185	11-30-24
Texas	TCEQ Water Supply	T104704185	06-30-24
USDA	US Federal Programs	P330-18-00313	09-03-24
Virginia	NELAP	460161	06-14-24
Wyoming	State	8TMS-L	06-30-24

Method Summary

Client: GSI Environmental Inc
Project/Site: Ash Pond

Job ID: 860-67548-1

Method	Method Description	Protocol	Laboratory
300.0-1993 R2.1	Anions, Ion Chromatography	MCAWW	EET SAV
EPA 6020A	Metals (ICP/MS)	SW846	EET PIT
EPA 7470A	Mercury (CVAA)	SW846	EET PIT
SM 2320B	Alkalinity	SM	EET HOU
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET HOU
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET PIT
7470A	Preparation, Mercury	SW846	EET PIT

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
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 HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200
EET PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058
EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Sample Summary

Client: GSI Environmental Inc
Project/Site: Ash Pond

Job ID: 860-67548-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-67548-1	PZ-02	Water	02/07/24 11:15	02/08/24 10:24
860-67548-2	PZ-03	Water	02/07/24 11:15	02/08/24 10:24
860-67548-3	PZ-05	Water	02/07/24 11:00	02/08/24 10:24
860-67548-4	PZ-06	Water	02/07/24 09:20	02/08/24 10:24
860-67548-5	AP-31	Water	02/07/24 11:30	02/08/24 10:24
860-67548-6	AP-32	Water	02/07/24 09:30	02/08/24 10:24
860-67548-7	AP-33	Water	02/07/24 08:45	02/08/24 10:24
860-67548-8	AP-34	Water	02/07/24 10:15	02/08/24 10:24
860-67548-9	AP-35	Water	02/07/24 10:45	02/08/24 10:24
860-67548-10	AP-36	Water	02/07/24 10:20	02/08/24 10:24
860-67548-11	MW-03	Water	02/07/24 10:15	02/08/24 10:24
860-67548-12	DUP-02	Water	02/07/24 09:00	02/08/24 10:24
860-67548-13	FB-02	Water	02/07/24 11:30	02/08/24 10:24
860-67548-14	EB-01	Water	02/07/24 09:45	02/08/24 10:24

Eurofins Xenco, Stafford
4147 Greenbriar Dr
Stafford TX 77477
Phone (281) 240-4200

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: Scott Hoe + HMI Team	Lab PM: Kudchadkar Sachin G	Carrier Tracking No(s):	COC No: 860-3614-1220.1
Client Contact: Mike Schofield	Phone: 832-347-4521	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: TX	Page: Page 1 of 2
Company: GSI Environmental Inc	PWSID:			Job #:
Address: 9600 Great Hills Trail Suite 350E	Due Date Requested:			
City: Austin	TAT Requested (days):			
State, Zip: TX, 78759	Compliance Project: Δ Yes Δ No			
Phone: 512-346-4474(Tel) 512-346-4476(Fax)	PO #:			
Email: mlschofield@gsi-net.com	WO #:			
Project Name: San Miguel Electrical Co-Op GW	Project #: 86001746			
Site: Ash Pond	SSOW#:			

Analysis Requested

Preservation Codes:

A	HCL	M	Hexane
B	NaOH	N	None
C	Zn Acetate	O	AsNaO2
D	Nitric Acid	P	Na2O4S
E	NaHSO4	Q	Na2SO3
F	MeOH	R	Na2S2O3
G	Amchlor	S	H2SO4
H	Ascorbic Acid	T	TSP Dodecahydrate
I	Ice	U	Acetone
J	DI Water	V	MCAA
K	EDTA	W	pH 4-5
L	EDA	Z	other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2320B, Alkalinity	6020A - 7470- B, Ca,Sb, As, Ba, Be, Cd, Cr Co, Pb, Li, Mo, Se, Ti;Hg- Eurofins Pittsburg + Na, Mg	2540C_TDS	300- Cl, F, SO4	901 1_Ra- Rad 228 Eurofins St Louis	SM7500_Ra_B Rad 226- South Bend IN	O - MS/MSD not provided	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	D	N	N	D	D			
PZ-02	2-7-24	1115	G	Water			✓	✓	✓	✓	✓	✓			
PZ-03		1115		Water		Y	✓	✓	✓	✓	✓	✓			
PZ-05		1100		Water			✓	✓	✓	✓	✓	✓			
PZ-06		920		Water			✓	✓	✓	✓	✓	✓			
AP-31		1130		Water			✓	✓	✓	✓	✓	✓			
AP-32		930		Water			✓	✓	✓	✓	✓	✓			
AP-33		845		Water			✓	✓	✓	✓	✓	✓			
AP-34		1015		Water			✓	✓	✓	✓	✓	✓			
AP-35		1045		Water			✓	✓	✓	✓	✓	✓			
AP-36		1020		Water			✓	✓	✓	✓	✓	✓			
MW-03	↓	1015	↓	Water			✓	✓	✓	✓	✓	✓			

Temp: 2.5 IR ID:HOU-369
C/F -0.0
Corrected Temp: 2.5

Temp: 0.5 IR ID:HOU-369
C/F -0.0
Corrected Temp: 0.5

Temp: 2.7 IR ID:HOU-369
C/F -0.0
Corrected Temp: 2.7

Temp: 0.6 IR ID:HOU-369
C/F -0.0
Corrected Temp: 0.6

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I II III IV Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: Cons. Dropoff	
Relinquished by:	Date/Time: 2-8-24 1024	Company HMI	Received by:	Date/Time: / Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: / Company
Relinquished by:		Company	Received by:	Date/Time: 2 8 24 1024 / Company
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.		Cooler Temperature(s) °C and Other Remarks:	

860-67548 Chain of Custody

Ver: 01/16/2019

Eurofins Xenco, Stafford
4147 Greenbriar Dr
Stafford TX 77477
Phone (281) 240-4200

Chain of Custody Record

eurofins Environment Testing Amer

2/27/2024

Client Information	Sampler: Scott Wde + Hml Team	Lab PM: Kudchadkar Sachin G	Carrier Tracking No(s):	COC No: 860-3614-1220.1
Client Contact: Mike Schofield	Phone: 832-347-4521	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: TX	Page: Page 2 of 2
Company: GSI Environmental, Inc	PWSID:	Analysis Requested		Job #:
Address: 9600 Great Hills Trail Suite 350E	Due Date Requested:			
City: Austin	TAT Requested (days):			
State, Zip: TX, 78759	Compliance Project: Δ Yes Δ No			
Phone: 512-346-4474(Tel) 512-346-4476(Fax)	PO #:			
Email: mlschofield@gsi-net.com	WO #:			
Project Name: San Miguel Electrical Co-Op GW	Project #: 86001746			
Site: Ash Pond	SSOW#:			

Preservation Codes:
A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Z other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2320B_Alkalinity	6020A -7470- B, Ca,Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl;Hg- Eurofins Pittsburg + Na, Mg	2540C_TDS	300- Cl, F, SO4	901.1_Ra- Rad 228 Eurofins St Louis	SM7500_Ra_B Rad 226- South Bend IN	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	D	N	N	D	D		
DUP-02	2-7-24	900	G	Water			✓	✓	✓	✓	✓	✓		
FB-02	↓	1130	↓	Water			✓	✓	✓	✓	✓	✓		
EB-01	↓	945	↓	Water			✓	✓	✓	✓	✓	✓		
				Water										
				Water										
				Water										
				Water										
				Water										
				Water										
				Water										
				Water										

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I, II III IV Other (specify)

Special Instructions/QC Requirements.

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: Cons Dropoff

Relinquished by:	Date/Time:	Company	Received by	Date/Time:	Company
[signature]	2-8-24 1024	HM			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: [signature]	Date/Time: 2.8.24 1024	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

ORIGIN ID:SGRA (281) 240-4200
ADMINISTRATIVE OFFICES
XENCO HOUSTON
4145 GREENBRIAR DR

STAFFORD, TX 77477
UNITED STATES US

SHIP DATE: 08FEB24
ACTWGT: 10.00 LB
CAD: 110189707/INET4700

BILL SENDER

TO SHIPPING AND RECEIVING
EUROFINS TEST AMERICA, PITTSBURGH
301 ALPHA DRIVE RIDC PARK

PITTSBURGH PA 15238
(412) 963-7058 REF
INV
PO DEPT

583J5/EC2B/9AE3

Uncorrected temp
Thermometer ID 1.8 21
CF 0.0 Initials RB
PT-WI-SR-001 effective 11/8/18

FedEx Express

J241024011001uv

FRI - 09 FEB 10:30A
PRIORITY OVERNIGHT

TRK# 0201 7751 2496 3670

NX AGCA

15238
PA-US PIT

860-67548 Waybill

ORIGIN ID:SGRA (281) 240-4200
ADMINISTRATIVE OFFICES
XENCO HOUSTON
4145 GREENBRIAR DR

STAFFORD, TX 77477
UNITED STATES US

SHIP DATE: 08FEB24
ACTWGT: 10.00 LB
CAD: 110189707/INET4700

BILL SENDER

TO SHIPPING AND RECEIVING
EUROFINS TEST AMERICA, PITTSBURGH
301 ALPHA DRIVE RIDC PARK

PITTSBURGH PA 15238
(412) 963-7058 REF
INV
PO DEPT

583J5/EC2B/9AE3

Uncorrected temp
Thermometer ID 4.9 21
CF 0.0 Initials RB
PT-WI-SR-001 effective 11/8/18

FedEx Express

J241024011001uv

FRI - 09 FEB 10:30A
PRIORITY OVERNIGHT

TRK# 0201 7751 2562 2770

NX AGCA

15238
PA-US PIT

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone 281-240-4200

Chain of Custody Record

eurofins

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-94989 1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@et.eurofinsus.com	State of Origin: Texas	Page: Page 1 of 2
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): NELAP - Texas		Job #: 860-67548-1
Address: 301 Alpha Drive, RIDC Park,	Due Date Requested: 3/4/2024			
City: Pittsburgh	TAT Requested (days):			
State, Zip: PA, 15238				
Phone: 412-963-7058(Tel) 412-963-2468(Fax)	PO #:			
Email:	WO #:			
Project Name: San Miguel Electrical Co-Op 2H23 GW	Project #: 86001746			
Site:	SSOW#:			

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Analysis Requested

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)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020A/3005A (MOD) Custom List	7470A/7470A_Prep	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
PZ-02 (860-67548-1)	2/7/24	11 15 Central		Water			X	X	1	Please analyze at the lowest possible dilution
PZ-03 (860-67548-2)	2/7/24	11 15 Central		Water			X	X	1	Please analyze at the lowest possible dilution
PZ-03 (860-67548-2MS)	2/7/24	11 15 Central	MS	Water			X	X	1	Please analyze at the lowest possible dilution
PZ-03 (860-67548-2MSD)	2/7/24	11 15 Central	MSD	Water			X	X	1	Please analyze at the lowest possible dilution
PZ-05 (860-67548-3)	2/7/24	11 00 Central		Water			X	X	1	Please analyze at the lowest possible dilution
PZ-06 (860-67548-4)	2/7/24	09 20 Central		Water			X	X	1	Please analyze at the lowest possible dilution
AP-31 (860-67548-5)	2/7/24	11 30 Central		Water			X	X	1	Please analyze at the lowest possible dilution
AP-32 (860-67548-6)	2/7/24	09 30 Central		Water			X	X	1	Please analyze at the lowest possible dilution
AP-33 (860-67548-7)	2/7/24	08 45 Central		Water			X	X	1	Please analyze at the lowest possible dilution

860-67548 Chain of Custody

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) — Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date	Time	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	Relinquished by:	Date/Time: 2/8/24	Company	Received by:	Date/Time: 2/9/24 0930	Company: ESSTL
	Relinquished by	Date/Time	Company	Received by:	Date/Time	Company
	Relinquished by	Date/Time	Company	Received by:	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone 281-240-4200

Chain of Custody Record

eurofins

Client Information (Sub Contract Lab)	Sampler	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s)	COC No: 860-94989 2
Client Contact: Shipping/Receiving	Phone	E-Mail: Sachin.Kudchadkar@et.eurofinsus.com	State of Origin: Texas	Page: Page 2 of 2
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): NELAP - Texas		Job #: 860-67548-1
Address: 301 Alpha Drive, RIDC Park,	Due Date Requested: 3/4/2024			
City: Pittsburgh	TAT Requested (days):			
State, Zip: PA, 15238				
Phone: 412-963-7058(Tel) 412-963-2468(Fax)	PO #:			
Email	WO #:			
Project Name: San Miguel Electrical Co-Op 2H23 GW	Project #: 86001746			
Site	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

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)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020A/3005A (MOD) Custom List	7470A/7470A_Prep	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
AP-34 (860-67548-8)	2/7/24	10 15 Central		Water			X	X	1	Please analyze at the lowest possible dilution
AP-35 (860-67548-9)	2/7/24	10 45 Central		Water			X	X	1	Please analyze at the lowest possible dilution
AP-36 (860-67548-10)	2/7/24	10 20 Central		Water			X	X	1	Please analyze at the lowest possible dilution
MW-03 (860-67548-11)	2/7/24	10 15 Central		Water			X	X	1	Please analyze at the lowest possible dilution
DUP-02 (860-67548-12)	2/7/24	09 00 Central		Water			X	X	1	Please analyze at the lowest possible dilution
FB-02 (860-67548-13)	2/7/24	11 30 Central		Water			X	X	1	Please analyze at the lowest possible dilution
EB-01 (860-67548-14)	2/7/24	09 45 Central		Water			X	X	1	Please analyze at the lowest possible dilution

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification
Unconfirmed

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For _____ Months*

Deliverable Requested: I, II, III, IV, Other (specify) — Primary Deliverable Rank: 2

Special Instructions/QC Requirements

Empty Kit Relinquished by:	Date	Time	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	[signature]	2/8/24		[signature]	2/9/24 0930	[illegible]
2	Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company
3	Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company

Custody Seals Intact: △ Yes △ No | Custody Seal No:

Cooler Temperature(s) °C and Other Remarks

Ver: 06/08/2021

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-96612.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@et.eurofinsus.com	State of Origin: Texas	Page: Page 1 of 2
Company: Eurofins Environment Testing Southeast,		Accreditations Required (See note): NELAP - Texas		Job #: 860-67548-1
Address: 5102 LaRoche Avenue, ,	Due Date Requested: 2/15/2024			
City: Savannah	TAT Requested (days):			
State, Zip: GA, 31404				
Phone: 912-354-7858(Tel) 912-352-0165(Fax)	PO #:			
Email:	WO #:			
Project Name: Ash Pond	Project #: 86001746			
Site:	SSOW#:			

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Analysis Requested

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)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D/ (MOD) Any Three Anions	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
PZ-02 (860-67548-1)	2/7/24	11:15 Central		Water			X	1	
PZ-03 (860-67548-2)	2/7/24	11:15 Central		Water			X	1	
PZ-03 (860-67548-2MS)	2/7/24	11:15 Central	MS	Water			X	1	
PZ-03 (860-67548-2MSD)	2/7/24	11:15 Central	MSD	Water			X	1	
PZ-05 (860-67548-3)	2/7/24	11:00 Central		Water			X	1	
PZ-06 (860-67548-4)	2/7/24	09:20 Central		Water			X	1	
AP-31 (860-67548-5)	2/7/24	11:30 Central		Water			X	1	
AP-32 (860-67548-6)	2/7/24	09:30 Central		Water			X	1	
AP-33 (860-67548-7)	2/7/24	08:45 Central		Water			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	2-16-24 1800				
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
				2/17/24 0952	

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.3/1.3

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-96612.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@et.eurofinsus.com	State of Origin: Texas	Page: Page 2 of 2
Company: Eurofins Environment Testing Southeast,		Accreditations Required (See note): NELAP - Texas		Job #: 860-67548-1
Address: 5102 LaRoche Avenue, ,	Due Date Requested: 2/15/2024			
City: Savannah	TAT Requested (days):			
State, Zip: GA, 31404				
Phone: 912-354-7858(Tel) 912-352-0165(Fax)	PO #:			
Email:	WO #:			
Project Name: Ash Pond	Project #: 86001746			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

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)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D/ (MOD) Any Three Anions	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
AP-34 (860-67548-8)	2/7/24	10:15 Central		Water			X	1	
AP-35 (860-67548-9)	2/7/24	10:45 Central		Water			X	1	
AP-36 (860-67548-10)	2/7/24	10:20 Central		Water			X	1	
MW-03 (860-67548-11)	2/7/24	10:15 Central		Water			X	1	
DUP-02 (860-67548-12)	2/7/24	09:00 Central		Water			X	1	
FB-02 (860-67548-13)	2/7/24	11:30 Central		Water			X	1	
EB-01 (860-67548-14)	2/7/24	09:45 Central		Water			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	2-16-24 1800				
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 2/17/24 0952	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1-3/1.3

Login Sample Receipt Checklist

Client: GSI Environmental Inc

Job Number: 860-67548-1

Login Number: 67548
List Number: 1
Creator: Torrez, Lisandra

List Source: Eurofins Houston

Question	Answer	Comment
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	

Login Sample Receipt Checklist

Client: GSI Environmental Inc

Job Number: 860-67548-1

Login Number: 67548
List Number: 3
Creator: Mullins, Plumm A

List Source: Eurofins Pittsburgh
List Creation: 02/09/24 04:57 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are 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?	N/A	
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	

Login Sample Receipt Checklist

Client: GSI Environmental Inc

Job Number: 860-67548-1

Login Number: 67548
List Number: 5
Creator: Munro, Caroline

List Source: Eurofins Savannah
List Creation: 02/17/24 12:59 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are 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 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.	N/A	
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").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

DATA USABILITY SUMMARY

February 2024 Sampling Event (Job ID: 860-67548-2)

OVERVIEW

GSI Environmental Inc. (GSI) reviewed one data package from Eurofins Houston located in Stafford, Texas (EET HOU) for the analysis of **fourteen groundwater samples collected at the Ash Pond on 7 February 2024**[1] at the San Miguel Electric Cooperative, Inc., Christine, Atascosa County, Texas site. Data were reviewed for i) conformance to the requirements of the guidance document *Review and Reporting of COC Concentration Data* (RG-366/TRRP-13) and ii) adherence to project objectives (e.g., GSI 2019). The Radium-228 analyses were conducted by Eurofins St. Louis, Missouri (EET SL) laboratory, while the Radium-226 analyses were conducted by the Eurofins South Bend, Indiana (EA SB) laboratory. GSI certifies that at the time the laboratory data were generated for the project, EET SL and EA SB were National Environmental Laboratory Accreditation Program (NELAP)-accredited under the Texas Laboratory Accreditation Program (Certification Number: T104704193 and T104704187 respectively) for the matrices, analytes, and methods of analysis requested on the chain-of-custody documentation. A copy of EET SL and EA SB's NELAP certificates applicable to the period during which the laboratory generated the data in this report is included as Attachment A.

Intended Use of Data

Samples were collected to provide current data on groundwater conditions at the test location. Analyses requested included:

- Method 904.0 – Radium-228 (GFPC)
- Method SM7500 Ra B – Radium-226

Data were reviewed and validated, as described in *Review and Reporting of COC Concentration Data* (RG-366/TRRP-13), and the results are discussed in this Data Usability Summary (DUS). The following laboratory submittals and field data were examined:

- the reportable data (i.e., results provided in the laboratory data package),
- the laboratory review checklists and associated exception reports, and
- the field notes with respect to field instrument calibrations, filtering procedures (if applicable), and sampling procedures.

The results of supporting quality control (QC) analyses were summarized in the laboratory case narrative (LCN), which was included in this review. The case narrative and reportable data included in this review are attached to this DUS as Attachment B.

[1] Eleven samples plus one field duplicate, one field blank, and one equipment blank.

INTRODUCTION

Fourteen (14) water samples were submitted to the laboratory, and all requested analyses were completed. Table 1 lists the sample identifications cross-referenced to laboratory identifications.

PROJECT MEASUREMENT QUALITY OBJECTIVES

The following criteria were used in this review:

	MS/MSD		LCS	Field Precision
Analytes	% R	RER	% R	RPD
Radium-228	60 – 140	1	75 – 125	≤ 30%
Radium-226	80 – 120	1	90 – 110	≤ 30%

DATA REVIEW / VALIDATION RESULTS

Analytical Results

Results from these samples may be considered usable with the limitations and exceptions described in this section. Sample data qualified as a result of this DUS, if any, are listed in Table 3. Non-detected results are reported as less than the value of the method detection limit (MDL). Results between the MDL and reporting limit (RL) are J-flagged.

Finding: All requested analyses were completed, and results were reported as requested.

Preservation and Holding Times

The samples were evaluated for agreement with the chain-of-custody (C-O-C). The samples were received by the laboratory in the appropriate containers and in good condition, with proper completion of the C-O-C documentation. Samples receipt temperature was within the acceptance criteria, and field preservation was done as specified in the Sampling and Analysis Plan [SAP] (GSI, 2019). Samples were prepared and analyzed within method-specified holding times, with exceptions noted below. Items related to the C-O-C are also listed below.

- The sample identified as DUP-02 on the C-O-C is a field duplicate of sample MW-03.

Finding: No qualifiers were added per this evaluation.

Calibrations

The following issues were noted with the laboratory calibrations:

- For Method 904.0, the Barium carrier recovery for preparation batch 160-649242 is outside the upper control limit of 110% for samples PZ-03 (MSD), AP-35, AP-36, and MW-03. The QC samples associated with the batch have acceptable carrier recovery indicating the presence of matrix interference. The samples have been truncated to 100% to reduce any potential bias a high carrier recovery may have. The data have been reported.

Finding: No qualifiers were added per this evaluation.

Blanks

Method (Laboratory) Blanks

The LCN and lab report did not indicate any issues with the laboratory blanks.

Field Blanks

The following issues were noted with the blank collected in the field:

- Radium-226 was detected in the Equipment Blank at concentrations above the MDL. The equipment blank sample (EB-01) consists of distilled water that was poured over decontaminated non-dedicated sampling equipment. Field samples that contained concentrations of Radium-226 greater than 5X the associated equipment blank concentration did not require qualifiers. Field samples PZ-02, PZ-03, AP-34, AP-36, MW-03 and DUP-02 contained concentrations of Radium-226 less than 5X the associated equipment blank concentration and received qualifiers.

Finding: "JH" flags were added to samples PZ-02, PZ-03, AP-34, AP-36, MW-03 and DUP-02 per this evaluation.

Internal Standard and Surrogate Recoveries (VOCs and SVOCs Only)

Not applicable.

Laboratory Control Samples

The Laboratory Control Sample (LCS) recoveries were within the project-defined QC acceptance criteria.

Finding: No qualifiers were added per this evaluation.

Matrix Spike/Matrix Spike Duplicates and Laboratory Duplicates

The matrix spike (MS)/matrix spike duplicate (MSD) recoveries were within the project-defined QC acceptance criteria:

Finding: No qualifiers were added per this evaluation.

Field Duplicates (Field Precision)

One field duplicate, identified as DUP-02, was collected with sample MW-03. Results indicate that, RPDs between the parent and duplicate sample results were less than the TCEQ-recommended maximum of 40% (organics) or 30% (metals) for concentrations greater than five times the MQL, or the difference between concentrations was less than twice the MQL for analytes with concentrations less than five times the MQL. A comparison of the field sample and the duplicate sample are shown in Table 2.

Finding: No qualifiers were added per this evaluation.

Field Procedures

Sample collection and documentation was done in accordance with the Groundwater Sampling and Analysis Plan (SAP; GSI, 2019).

Finding: Field activities were consistent with the SAP.

SUMMARY

The analytical data are usable for the purpose of characterizing groundwater conditions. In addition, qualifiers were added based on this review and evaluation (see Table 3).

REFERENCES

GSI Environmental, Inc., 2019, Groundwater Sampling and Analysis Plan, San Miguel Electric Cooperative, Inc., December 26.

TCEQ 2010. Review and Reporting of COC Concentration Data under TRRP, RG-366/TRRP-13 https://www.tceq.texas.gov/assets/public/comm_exec/pubs/rg/rg-366-trrp-13.pdf

TABLES

TABLE 1
Cross-Reference Field Sample and Laboratory Identifications

Sample Date	Lab	Lab Sample ID	Field Sample ID	Matrix
02/07/2024	EET SL/EA SB	860-67548-1	PZ-02	Water
02/07/2024	EET SL/EA SB	860-67548-2	PZ-03	Water
02/07/2024	EET SL/EA SB	860-67548-3	PZ-05	Water
02/07/2024	EET SL/EA SB	860-67548-4	PZ-06	Water
02/07/2024	EET SL/EA SB	860-67548-5	AP-31	Water
02/07/2024	EET SL/EA SB	860-67548-6	AP-32	Water
02/07/2024	EET SL/EA SB	860-67548-7	AP-33	Water
02/07/2024	EET SL/EA SB	860-67548-8	AP-34	Water
02/07/2024	EET SL/EA SB	860-67548-9	AP-35	Water
02/07/2024	EET SL/EA SB	860-67548-10	AP-36	Water
02/07/2024	EET SL/EA SB	860-67548-11	MW-03	Water
02/07/2024	EET SL/EA SB	860-67548-12	DUP-02	Water
02/07/2024	EET SL/EA SB	860-67548-13	FB-02	Water
02/07/2024	EET SL/EA SB	860-67548-14	EB-01	Water

Notes:
1. EET SL: Eurofins St. Louis, Earth City, Missouri; EA SB: Eurofins Eaton South Bend, South Bend, Indiana

TABLE 2
Field Duplicate Detections

Analyte	MDL (mg/L)	Primary Sample Result (pCi/L)	Field Duplicate Result (pCi/L)	Relative Percent Difference (RPD)
Radium-228	0.523	3.40	3.32	2.4
Radium-226	0.360	1.74	1.42	20.3

Notes:
1. MDL: Method Detection Limit
2. pCi/L: picocuries per liter
3. RPD = ABS(PR-FD)/AVERAGE(PR+FD)*100), where PR is the Primary Sample and FD is the Field Duplicate, where the MDL is substituted for results below detection.

TABLE 3
Qualifiers Added During Data Usability Review

Sample ID	Analyte	Lab Result	Unit	DUS Qualifier or Bias Code	Reason for Qualification	Analysis Batch Number	Report Number
PZ-02	Radium-226	0.680	pCi/L	JH	<5X equipment blank	89160	860-67548-2
PZ-03	Radium-226	0.390	pCi/L	JH	<5X equipment blank	89160	860-67548-2
AP-34	Radium-226	1.11	pCi/L	JH	<5X equipment blank	89160	860-67548-2
AP-36	Radium-226	1.77	pCi/L	JH	<5X equipment blank	89148	860-67548-2
MW-03	Radium-226	1.74	pCi/L	JH	<5X equipment blank	89148	860-67548-2
DUP-02	Radium-226	1.42	pCi/L	JH	<5X equipment blank	89148	860-67548-2

Notes:
1. pCi/L: picocuries per liter.
2. JH: estimated value, biased high

Attachment A

TCEQ NELAP-Recognized Laboratory Accreditation Certificates

Texas Commission on Environmental Quality

NELAP-Recognized Laboratory Accreditation is hereby awarded to

Eurofins St. Louis

13715 Rider Trail North
Earth City, MO 63045-1205

in accordance with Texas Water Code Chapter 5, Subchapter R, Title 30 Texas Administrative Code Chapter 25, and the National Environmental Laboratory Accreditation Program.

The laboratory's scope of accreditation includes the fields of accreditation that accompany this certificate. Continued accreditation depends upon successful ongoing participation in the program. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current location(s) and accreditation status for particular methods and analyses (www.tceq.texas.gov/goto/lab). Accreditation does not imply that a product, process, system or person is approved by the Texas Commission on Environmental Quality.

Erin E. Chancellor

Executive Director Texas Commission on Environmental Quality

Certificate Number: T104704193-23-22
Effective Date: 8/1/2023
Expiration Date: 7/31/2024

Texas Commission on Environmental Quality

NELAP-Recognized Laboratory Accreditation is hereby awarded to

Eurofins Eaton Analytical, LLC - South Bend

110 South Hill Street
South Bend, IN 46617-2702

in accordance with Texas Water Code Chapter 5, Subchapter R, Title 30 Texas Administrative Code Chapter 25, and the National Environmental Laboratory Accreditation Program.

The laboratory's scope of accreditation includes the fields of accreditation that accompany this certificate. Continued accreditation depends upon successful ongoing participation in the program. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current location(s) and accreditation status for particular methods and analyses (www.tceq.texas.gov/goto/lab). Accreditation does not imply that a product, process, system or person is approved by the Texas Commission on Environmental Quality.

Erin E. Chancellor

Executive Director Texas Commission on Environmental Quality

Certificate Number: T104704187-23-17
Effective Date: 1/1/2024
Expiration Date: 12/31/2024

Attachment B

Eurofins Houston – Stafford, Texas

Analytical Report

Job ID.: 860-67548-2

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mike Schofield
GSI Environmental Inc
9600 Great Hills Trail
Suite 350E
Austin, Texas 78759

Generated 3/5/2024 9:33:35 AM

JOB DESCRIPTION

Ash Pond

JOB NUMBER

860-67548-2

Eurofins Houston
4145 Greenbriar Dr
Stafford TX 77477

See page two for job notes and contact information.

my EOL

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.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Generated
3/5/2024 9:33:35 AM

Authorized for release by
Sachin Kudchadkar, Senior Project Manager
Sachin.Kudchadkar@et.eurofinsus.com
(281)748-9025

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Definitions/Glossary

Client: GSI Environmental Inc
Job ID: 860-67548-2
Project/Site: Ash Pond

Qualifiers

Rad

Qualifier	Qualifier Description
U	Result is less than the sample detection limit.
X	Carrier is outside acceptance limits.

Glossary

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

Job Narrative
860-67548-2

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 2/8/2024 10:24 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 0.5°C, 0.6°C, 2.5°C and 2.7°C.

Gas Flow Proportional Counter
Method 904.0: Radium 228 prep batch 160-649242

The barium carrier recovery is outside the upper control limit (110%) for the following samples: PZ-03 (860-67548-2[MSD]), AP-35 (860-67548-9), AP-36 (860-67548-10) and MW-03 (860-67548-11). The QC samples associated with the batch have acceptable carrier recovery indicating the presence of matrix interference.

Method 904.0: Radium-228 prep batch 160-649242:

The following sample has a barium carrier recovery above the 110% QC limit. There is significant concentrations of salt-like compounds (i.e. calcium, magnesium, sodium, and strontium) that can interfere with a barium sulfate recovery. The LCS (laboratory control sample) has an acceptable spike recovery demonstrating acceptable sample preparation and instrument performance. The samples have been truncated to 100% to reduce any potential bias a high carrier recovery may have. The data have been qualified and reported. PZ-03 (860-67548-2[MSD]), AP-35 (860-67548-9), AP-36 (860-67548-10) and MW-03 (860-67548-11)

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

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

Detection Summary

Client: GSI Environmental Inc
Project/Site: Ash Pond

Job ID: 860-67548-2

Client Sample ID: PZ-02 — **Lab Sample ID: 860-67548-1**

No Detections.

Client Sample ID: PZ-03 — **Lab Sample ID: 860-67548-2**

No Detections.

Client Sample ID: PZ-05 — **Lab Sample ID: 860-67548-3**

No Detections.

Client Sample ID: PZ-06 — **Lab Sample ID: 860-67548-4**

No Detections.

Client Sample ID: AP-31 — **Lab Sample ID: 860-67548-5**

No Detections.

Client Sample ID: AP-32 — **Lab Sample ID: 860-67548-6**

No Detections.

Client Sample ID: AP-33 — **Lab Sample ID: 860-67548-7**

No Detections.

Client Sample ID: AP-34 — **Lab Sample ID: 860-67548-8**

No Detections.

Client Sample ID: AP-35 — **Lab Sample ID: 860-67548-9**

No Detections.

Client Sample ID: AP-36 — **Lab Sample ID: 860-67548-10**

No Detections.

Client Sample ID: MW-03 — **Lab Sample ID: 860-67548-11**

No Detections.

Client Sample ID: DUP-02 — **Lab Sample ID: 860-67548-12**

No Detections.

Client Sample ID: FB-02 — **Lab Sample ID: 860-67548-13**

No Detections.

Client Sample ID: EB-01 — **Lab Sample ID: 860-67548-14**

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: PZ-02

Lab Sample ID: 860-67548-1

Date Collected: 02/07/24 11:15

Matrix: Water

Date Received: 02/08/24 10:24

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.78		0.619	0.640	1.00	0.781	pCi/L	02/22/24 10:09	03/04/24 12:40	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*98.5*		*30 - 110*	*02/22/24 10:09*	*03/04/24 12:40*	*1*
Y Carrier	*84.5*		*30 - 110*	*02/22/24 10:09*	*03/04/24 12:40*	*1*

Method: SM7500 Ra B - Radium-226

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra-226	0.680		1.87		1.00	0.380	pCi/L	02/09/24 13:57	02/19/24 10:47	1

Client Sample ID: PZ-03

Lab Sample ID: 860-67548-2

Date Collected: 02/07/24 11:15

Matrix: Water

Date Received: 02/08/24 10:24

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.73		0.557	0.580	1.00	0.640	pCi/L	02/22/24 10:09	03/04/24 12:40	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*102*		*30 - 110*	*02/22/24 10:09*	*03/04/24 12:40*	*1*
Y Carrier	*82.2*		*30 - 110*	*02/22/24 10:09*	*03/04/24 12:40*	*1*

Method: SM7500 Ra B - Radium-226

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra-226	0.390		2.19		1.00	0.320	pCi/L	02/09/24 13:57	02/19/24 10:47	1

Client Sample ID: PZ-05

Lab Sample ID: 860-67548-3

Date Collected: 02/07/24 11:00

Matrix: Water

Date Received: 02/08/24 10:24

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	2.67		0.521	0.576	1.00	0.494	pCi/L	02/22/24 10:09	03/04/24 12:41	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*109*		*30 - 110*	*02/22/24 10:09*	*03/04/24 12:41*	*1*
Y Carrier	*85.2*		*30 - 110*	*02/22/24 10:09*	*03/04/24 12:41*	*1*

Client Sample ID: PZ-05

Lab Sample ID: 860-67548-3

Date Collected: 02/07/24 11:00

Matrix: Water

Date Received: 02/08/24 10:24

Method: SM7500 Ra B - Radium-226

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra-226	1.89		1.84		1.00	0.370	pCi/L	02/09/24 13:57	02/19/24 10:47	1

Client Sample ID: PZ-06

Lab Sample ID: 860-67548-4

Date Collected: 02/07/24 09:20

Matrix: Water

Date Received: 02/08/24 10:24

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.72		0.465	0.492	1.00	0.503	pCi/L	02/22/24 10:09	03/04/24 12:41	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*101*		*30 - 110*	*02/22/24 10:09*	*03/04/24 12:41*	*1*
Y Carrier	*83.4*		*30 - 110*	*02/22/24 10:09*	*03/04/24 12:41*	*1*

Method: SM7500 Ra B - Radium-226

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra-226	1.80		1.98		1.00	0.330	pCi/L	02/09/24 13:57	02/19/24 11:11	1

Client Sample ID: AP-31

Lab Sample ID: 860-67548-5

Date Collected: 02/07/24 11:30

Matrix: Water

Date Received: 02/08/24 10:24

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.28		0.414	0.430	1.00	0.486	pCi/L	02/22/24 10:09	03/04/24 12:41	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*106*		*30 - 110*	*02/22/24 10:09*	*03/04/24 12:41*	*1*
Y Carrier	*81.5*		*30 - 110*	*02/22/24 10:09*	*03/04/24 12:41*	*1*

Method: SM7500 Ra B - Radium-226

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra-226	0.180	U	1.49		1.00	0.460	pCi/L	02/09/24 13:57	02/19/24 10:47	1

Client Sample ID: AP-32

Lab Sample ID: 860-67548-6

Date Collected: 02/07/24 09:30

Matrix: Water

Date Received: 02/08/24 10:24

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	7.87		0.807	1.08	1.00	0.433	pCi/L	02/22/24 10:09	03/04/24 12:41	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*109*		*30 - 110*	*02/22/24 10:09*	*03/04/24 12:41*	*1*
Y Carrier	*86.4*		*30 - 110*	*02/22/24 10:09*	*03/04/24 12:41*	*1*

Method: SM7500 Ra B - Radium-226

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra-226	2.17		2.71		1.00	0.350	pCi/L	02/09/24 13:57	02/19/24 10:47	1

Client Sample ID: AP-33

Lab Sample ID: 860-67548-7

Date Collected: 02/07/24 08:45

Matrix: Water

Date Received: 02/08/24 10:24

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	5.31		0.856	0.986	1.00	0.701	pCi/L	02/22/24 10:09	03/04/24 12:42	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*102*		*30 - 110*	*02/22/24 10:09*	*03/04/24 12:42*	*1*
Y Carrier	*84.9*		*30 - 110*	*02/22/24 10:09*	*03/04/24 12:42*	*1*

Method: SM7500 Ra B - Radium-226

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra-226	1.98		2.56		1.00	0.380	pCi/L	02/09/24 13:57	02/19/24 10:47	1

Client Sample ID: AP-34

Lab Sample ID: 860-67548-8

Date Collected: 02/07/24 10:15

Matrix: Water

Date Received: 02/08/24 10:24

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	2.10		0.476	0.514	1.00	0.484	pCi/L	02/22/24 10:09	03/04/24 12:42	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*107*		*30 - 110*	*02/22/24 10:09*	*03/04/24 12:42*	*1*
Y Carrier	*86.7*		*30 - 110*	*02/22/24 10:09*	*03/04/24 12:42*	*1*

Client Sample ID: AP-34

Lab Sample ID: 860-67548-8

Date Collected: 02/07/24 10:15

Matrix: Water

Date Received: 02/08/24 10:24

Method: SM7500 Ra B - Radium-226

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra-226	1.11		1.62		1.00	0.300	pCi/L	02/09/24 13:57	02/19/24 10:47	1

Client Sample ID: AP-35

Lab Sample ID: 860-67548-9

Date Collected: 02/07/24 10:45

Matrix: Water

Date Received: 02/08/24 10:24

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	15.3		1.14	1.81	1.00	0.469	pCi/L	02/22/24 10:09	03/04/24 12:42	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*115*	*X*	*30 - 110*	*02/22/24 10:09*	*03/04/24 12:42*	*1*
Y Carrier	*89.0*		*30 - 110*	*02/22/24 10:09*	*03/04/24 12:42*	*1*

Method: SM7500 Ra B - Radium-226

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra-226	7.95		3.10		1.00	0.330	pCi/L	02/12/24 08:44	02/19/24 10:09	1

Client Sample ID: AP-36

Lab Sample ID: 860-67548-10

Date Collected: 02/07/24 10:20

Matrix: Water

Date Received: 02/08/24 10:24

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	3.14		0.577	0.646	1.00	0.501	pCi/L	02/22/24 10:09	03/04/24 12:42	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*113*	*X*	*30 - 110*	*02/22/24 10:09*	*03/04/24 12:42*	*1*
Y Carrier	*85.2*		*30 - 110*	*02/22/24 10:09*	*03/04/24 12:42*	*1*

Method: SM7500 Ra B - Radium-226

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra-226	1.77		1.99		1.00	0.300	pCi/L	02/12/24 08:44	02/19/24 10:09	1

Client Sample ID: MW-03

Lab Sample ID: 860-67548-11

Date Collected: 02/07/24 10:15

Matrix: Water

Date Received: 02/08/24 10:24

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	3.40		0.602	0.679	1.00	0.523	pCi/L	02/22/24 10:09	03/04/24 12:42	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*119*	*X*	*30 - 110*	*02/22/24 10:09*	*03/04/24 12:42*	*1*
Y Carrier	*84.9*		*30 - 110*	*02/22/24 10:09*	*03/04/24 12:42*	*1*

Method: SM7500 Ra B - Radium-226

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra-226	1.74		2.62		1.00	0.360	pCi/L	02/12/24 08:44	02/19/24 10:09	1

Client Sample ID: DUP-02

Lab Sample ID: 860-67548-12

Date Collected: 02/07/24 09:00

Matrix: Water

Date Received: 02/08/24 10:24

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	3.32		0.532	0.613	1.00	0.398	pCi/L	02/22/24 10:09	03/04/24 12:43	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*109*		*30 - 110*	*02/22/24 10:09*	*03/04/24 12:43*	*1*
Y Carrier	*91.2*		*30 - 110*	*02/22/24 10:09*	*03/04/24 12:43*	*1*

Method: SM7500 Ra B - Radium-226

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra-226	1.42		2.76		1.00	0.390	pCi/L	02/12/24 08:44	02/19/24 10:09	1

Client Sample ID: FB-02

Lab Sample ID: 860-67548-13

Date Collected: 02/07/24 11:30

Matrix: Water

Date Received: 02/08/24 10:24

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.121	U	0.247	0.247	1.00	0.432	pCi/L	02/22/24 10:09	03/04/24 12:43	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*107*		*30 - 110*	*02/22/24 10:09*	*03/04/24 12:43*	*1*
Y Carrier	*86.0*		*30 - 110*	*02/22/24 10:09*	*03/04/24 12:43*	*1*

Client Sample ID: FB-02

Lab Sample ID: 860-67548-13

Date Collected: 02/07/24 11:30

Matrix: Water

Date Received: 02/08/24 10:24

Method: SM7500 Ra B - Radium-226

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra-226	0.140	U	0.400		1.00	0.470	pCi/L	02/12/24 08:44	02/14/24 09:40	1

Client Sample ID: EB-01

Lab Sample ID: 860-67548-14

Date Collected: 02/07/24 09:45

Matrix: Water

Date Received: 02/08/24 10:24

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.141	U	0.260	0.260	1.00	0.515	pCi/L	02/22/24 10:09	03/04/24 12:41	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*109*		*30 - 110*	*02/22/24 10:09*	*03/04/24 12:41*	*1*
Y Carrier	*85.2*		*30 - 110*	*02/22/24 10:09*	*03/04/24 12:41*	*1*

Method: SM7500 Ra B - Radium-226

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra-226	**0.360**		0.350		1.00	0.340	pCi/L	02/12/24 08:44	02/14/24 09:40	1

Tracer/Carrier Summary

Client: GSI Environmental Inc
Project/Site: Ash Pond

Job ID: 860-67548-2

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)	
		Ba	Y
Lab Sample ID	Client Sample ID	(30-110)	(30-110)
860-67548-1	PZ-02	98.5	84.5
860-67548-2	PZ-03	102	82.2
860-67548-2 MS	PZ-03	106	82.2
860-67548-2 MSD	PZ-03	117 X	81.9
860-67548-3	PZ-05	109	85.2
860-67548-4	PZ-06	101	83.4
860-67548-5	AP-31	106	81.5
860-67548-6	AP-32	109	86.4
860-67548-7	AP-33	102	84.9
860-67548-8	AP-34	107	86.7
860-67548-9	AP-35	115 X	89.0
860-67548-10	AP-36	113 X	85.2
860-67548-11	MW-03	119 X	84.9
860-67548-12	DUP-02	109	91.2
860-67548-13	FB-02	107	86.0
860-67548-14	EB-01	109	85.2
LCS 160-649242/2-A	Lab Control Sample	106	89.3
MB 160-649242/1-A	Method Blank	102	86.0

Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-649242/1-A
Matrix: Water
Analysis Batch: 650963

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 649242

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.08125	U	0.251	0.251	1.00	0.451	pCi/L	02/22/24 10:09	03/04/24 12:40	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*102*		*30 - 110*	*02/22/24 10:09*	*03/04/24 12:40*	*1*
Y Carrier	*86.0*		*30 - 110*	*02/22/24 10:09*	*03/04/24 12:40*	*1*

Lab Sample ID: LCS 160-649242/2-A
Matrix: Water
Analysis Batch: 650963

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 649242

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			9.15	7.412		1.03	1.00	0.430	pCi/L	81	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*106*		*30 - 110*
Y Carrier	*89.3*		*30 - 110*

Lab Sample ID: 860-67548-2 MS
Matrix: Water
Analysis Batch: 650963

Client Sample ID: PZ-03
Prep Type: Total/NA
Prep Batch: 649242

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228	1.73		12.3	15.67		1.97	1.00	0.576	pCi/L	114	60 - 140		

Carrier	*MS %Yield*	*MS Qualifier*	*Limits*
Ba Carrier	*106*		*30 - 110*
Y Carrier	*82.2*		*30 - 110*

Lab Sample ID: 860-67548-2 MSD
Matrix: Water
Analysis Batch: 650963

Client Sample ID: PZ-03
Prep Type: Total/NA
Prep Batch: 649242

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-228	1.73		12.0	15.75		2.00	1.00	0.610	pCi/L	116	60 - 140	0.22	1

Carrier	*MSD %Yield*	*MSD Qualifier*	*Limits*
Ba Carrier	*117*	*X*	*30 - 110*
Y Carrier	*81.9*		*30 - 110*

Method: SM7500 Ra B - Radium-226

Lab Sample ID: MB 810-88223/1-A
Matrix: Water
Analysis Batch: 88648

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 88223

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra-226	0.3900		0.380		1.00	0.380	pCi/L	02/09/24 13:57	02/14/24 09:43	1

Lab Sample ID: LCS 810-88223/2-A
Matrix: Water
Analysis Batch: 88648

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 88223

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Ra-226			5.26	5.670			1.00	0.350	pCi/L	108	90 - 110		

Lab Sample ID: 860-67548-2 MS
Matrix: Water
Analysis Batch: 89162

Client Sample ID: PZ-03
Prep Type: Total/NA
Prep Batch: 88223

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Ra-226	6.25		5.81	11.61			1.00	0.340	pCi/L	92	80 - 120		

Lab Sample ID: 860-67548-2 MSD
Matrix: Water
Analysis Batch: 89162

Client Sample ID: PZ-03
Prep Type: Total/NA
Prep Batch: 88223

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Ra-226	6.25		5.81	11.04			1.00	0.310	pCi/L	83	80 - 120	0.21	

Lab Sample ID: MB 810-88277/1-A
Matrix: Water
Analysis Batch: 88647

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 88277

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra-226	0.1500	U	0.260		1.00	0.290	pCi/L	02/12/24 08:44	02/14/24 09:40	1

Lab Sample ID: LCS 810-88277/2-A
Matrix: Water
Analysis Batch: 88647

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 88277

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Ra-226			5.26	5.670			1.00	0.290	pCi/L	108	90 - 110		

Rad

Prep Batch: 88223

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-67548-1	PZ-02	Total/NA	Water	RAD Prep	
860-67548-2	PZ-03	Total/NA	Water	RAD Prep	
860-67548-3	PZ-05	Total/NA	Water	RAD Prep	
860-67548-4	PZ-06	Total/NA	Water	RAD Prep	
860-67548-5	AP-31	Total/NA	Water	RAD Prep	
860-67548-6	AP-32	Total/NA	Water	RAD Prep	
860-67548-7	AP-33	Total/NA	Water	RAD Prep	
860-67548-8	AP-34	Total/NA	Water	RAD Prep	
MB 810-88223/1-A	Method Blank	Total/NA	Water	RAD Prep	
LCS 810-88223/2-A	Lab Control Sample	Total/NA	Water	RAD Prep	
860-67548-2 MS	PZ-03	Total/NA	Water	RAD Prep	
860-67548-2 MSD	PZ-03	Total/NA	Water	RAD Prep	

Prep Batch: 88277

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-67548-9	AP-35	Total/NA	Water	RAD Prep	
860-67548-10	AP-36	Total/NA	Water	RAD Prep	
860-67548-11	MW-03	Total/NA	Water	RAD Prep	
860-67548-12	DUP-02	Total/NA	Water	RAD Prep	
860-67548-13	FB-02	Total/NA	Water	RAD Prep	
860-67548-14	EB-01	Total/NA	Water	RAD Prep	
MB 810-88277/1-A	Method Blank	Total/NA	Water	RAD Prep	
LCS 810-88277/2-A	Lab Control Sample	Total/NA	Water	RAD Prep	

Prep Batch: 649242

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-67548-1	PZ-02	Total/NA	Water	PrecSep_0	
860-67548-2	PZ-03	Total/NA	Water	PrecSep_0	
860-67548-3	PZ-05	Total/NA	Water	PrecSep_0	
860-67548-4	PZ-06	Total/NA	Water	PrecSep_0	
860-67548-5	AP-31	Total/NA	Water	PrecSep_0	
860-67548-6	AP-32	Total/NA	Water	PrecSep_0	
860-67548-7	AP-33	Total/NA	Water	PrecSep_0	
860-67548-8	AP-34	Total/NA	Water	PrecSep_0	
860-67548-9	AP-35	Total/NA	Water	PrecSep_0	
860-67548-10	AP-36	Total/NA	Water	PrecSep_0	
860-67548-11	MW-03	Total/NA	Water	PrecSep_0	
860-67548-12	DUP-02	Total/NA	Water	PrecSep_0	
860-67548-13	FB-02	Total/NA	Water	PrecSep_0	
860-67548-14	EB-01	Total/NA	Water	PrecSep_0	
MB 160-649242/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-649242/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
860-67548-2 MS	PZ-03	Total/NA	Water	PrecSep_0	
860-67548-2 MSD	PZ-03	Total/NA	Water	PrecSep_0	

Lab Chronicle

Client: GSI Environmental Inc
Project/Site: Ash Pond

Job ID: 860-67548-2

Client Sample ID: PZ-02

Lab Sample ID: 860-67548-1

Date Collected: 02/07/24 11:15

Matrix: Water

Date Received: 02/08/24 10:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			744.91 mL	1.0 g	649242	02/22/24 10:09	KAC	EET SL
Total/NA	Analysis	904.0		1	1.0 mL	1.0 mL	650963	03/04/24 12:40	SCB	EET SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	88223	02/09/24 13:57	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			89160	02/19/24 10:47	SM	EA SB
							Completed:	02/19/24 11:17 [1]		

Client Sample ID: PZ-03

Lab Sample ID: 860-67548-2

Date Collected: 02/07/24 11:15

Matrix: Water

Date Received: 02/08/24 10:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			741.70 mL	1.0 g	649242	02/22/24 10:09	KAC	EET SL
Total/NA	Analysis	904.0		1	1.0 mL	1.0 mL	650963	03/04/24 12:40	SCB	EET SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	88223	02/09/24 13:57	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			89160	02/19/24 10:47	SM	EA SB
							Completed:	02/19/24 11:17 [1]		

Client Sample ID: PZ-05

Lab Sample ID: 860-67548-3

Date Collected: 02/07/24 11:00

Matrix: Water

Date Received: 02/08/24 10:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			999.61 mL	1.0 g	649242	02/22/24 10:09	KAC	EET SL
Total/NA	Analysis	904.0		1	1.0 mL	1.0 mL	650963	03/04/24 12:41	SCB	EET SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	88223	02/09/24 13:57	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			89160	02/19/24 10:47	SM	EA SB
							Completed:	02/19/24 11:17 [1]		

Client Sample ID: PZ-06

Lab Sample ID: 860-67548-4

Date Collected: 02/07/24 09:20

Matrix: Water

Date Received: 02/08/24 10:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			1000.64 mL	1.0 g	649242	02/22/24 10:09	KAC	EET SL
Total/NA	Analysis	904.0		1	1.0 mL	1.0 mL	650963	03/04/24 12:41	SCB	EET SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	88223	02/09/24 13:57	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			89160	02/19/24 10:47	SM	EA SB
							Completed:	02/19/24 11:41 [1]		

Client Sample ID: AP-31

Lab Sample ID: 860-67548-5

Date Collected: 02/07/24 11:30

Matrix: Water

Date Received: 02/08/24 10:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			998.05 mL	1.0 g	649242	02/22/24 10:09	KAC	EET SL
Total/NA	Analysis	904.0		1	1.0 mL	1.0 mL	650963	03/04/24 12:41	SCB	EET SL

Lab Chronicle

Client: GSI Environmental Inc
Project/Site: Ash Pond

Job ID: 860-67548-2

Client Sample ID: AP-31

Date Collected: 02/07/24 11:30
Date Received: 02/08/24 10:24

Lab Sample ID: 860-67548-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	88223	02/09/24 13:57	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			89160	02/19/24 10:47	SM	EA SB
							Completed:	02/19/24 11:17 [1]		

Client Sample ID: AP-32

Date Collected: 02/07/24 09:30
Date Received: 02/08/24 10:24

Lab Sample ID: 860-67548-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			993.18 mL	1.0 g	649242	02/22/24 10:09	KAC	EET SL
Total/NA	Analysis	904.0		1	1.0 mL	1.0 mL	650963	03/04/24 12:41	SCB	EET SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	88223	02/09/24 13:57	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			89160	02/19/24 10:47	SM	EA SB
							Completed:	02/19/24 11:17 [1]		

Client Sample ID: AP-33

Date Collected: 02/07/24 08:45
Date Received: 02/08/24 10:24

Lab Sample ID: 860-67548-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			741.23 mL	1.0 g	649242	02/22/24 10:09	KAC	EET SL
Total/NA	Analysis	904.0		1	1.0 mL	1.0 mL	650963	03/04/24 12:42	SCB	EET SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	88223	02/09/24 13:57	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			89160	02/19/24 10:47	SM	EA SB
							Completed:	02/19/24 11:17 [1]		

Client Sample ID: AP-34

Date Collected: 02/07/24 10:15
Date Received: 02/08/24 10:24

Lab Sample ID: 860-67548-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			1002.78 mL	1.0 g	649242	02/22/24 10:09	KAC	EET SL
Total/NA	Analysis	904.0		1	1.0 mL	1.0 mL	650963	03/04/24 12:42	SCB	EET SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	88223	02/09/24 13:57	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			89160	02/19/24 10:47	SM	EA SB
							Completed:	02/19/24 11:17 [1]		

Client Sample ID: AP-35

Date Collected: 02/07/24 10:45
Date Received: 02/08/24 10:24

Lab Sample ID: 860-67548-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			997.74 mL	1.0 g	649242	02/22/24 10:09	KAC	EET SL
Total/NA	Analysis	904.0		1	1.0 mL	1.0 mL	650963	03/04/24 12:42	SCB	EET SL

Lab Chronicle

Client: GSI Environmental Inc
Project/Site: Ash Pond

Job ID: 860-67548-2

Client Sample ID: AP-35

Date Collected: 02/07/24 10:45
Date Received: 02/08/24 10:24

Lab Sample ID: 860-67548-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	88277	02/12/24 08:44	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			89148	02/19/24 10:09	SM	EA SB
							Completed:	02/19/24 10:39 [1]		

Client Sample ID: AP-36

Date Collected: 02/07/24 10:20
Date Received: 02/08/24 10:24

Lab Sample ID: 860-67548-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			999.66 mL	1.0 g	649242	02/22/24 10:09	KAC	EET SL
Total/NA	Analysis	904.0		1	1.0 mL	1.0 mL	650963	03/04/24 12:42	SCB	EET SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	88277	02/12/24 08:44	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			89148	02/19/24 10:09	SM	EA SB
							Completed:	02/19/24 10:39 [1]		

Client Sample ID: MW-03

Date Collected: 02/07/24 10:15
Date Received: 02/08/24 10:24

Lab Sample ID: 860-67548-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			995.76 mL	1.0 g	649242	02/22/24 10:09	KAC	EET SL
Total/NA	Analysis	904.0		1	1.0 mL	1.0 mL	650963	03/04/24 12:42	SCB	EET SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	88277	02/12/24 08:44	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			89148	02/19/24 10:09	SM	EA SB
							Completed:	02/19/24 10:39 [1]		

Client Sample ID: DUP-02

Date Collected: 02/07/24 09:00
Date Received: 02/08/24 10:24

Lab Sample ID: 860-67548-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			995.94 mL	1.0 g	649242	02/22/24 10:09	KAC	EET SL
Total/NA	Analysis	904.0		1	1.0 mL	1.0 mL	650963	03/04/24 12:43	SCB	EET SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	88277	02/12/24 08:44	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			89148	02/19/24 10:09	SM	EA SB
							Completed:	02/19/24 10:39 [1]		

Client Sample ID: FB-02

Date Collected: 02/07/24 11:30
Date Received: 02/08/24 10:24

Lab Sample ID: 860-67548-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			1003.16 mL	1.0 g	649242	02/22/24 10:09	KAC	EET SL
Total/NA	Analysis	904.0		1	1.0 mL	1.0 mL	650963	03/04/24 12:43	SCB	EET SL

Lab Chronicle

Client: GSI Environmental Inc
Project/Site: Ash Pond

Job ID: 860-67548-2

Client Sample ID: FB-02

Lab Sample ID: 860-67548-13

Date Collected: 02/07/24 11:30

Matrix: Water

Date Received: 02/08/24 10:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	88277	02/12/24 08:44	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			88647	02/14/24 09:40	SM	EA SB
							Completed:	02/14/24 10:40 [1]		

Client Sample ID: EB-01

Lab Sample ID: 860-67548-14

Date Collected: 02/07/24 09:45

Matrix: Water

Date Received: 02/08/24 10:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			1005.90 mL	1.0 g	649242	02/22/24 10:09	KAC	EET SL
Total/NA	Analysis	904.0		1	1.0 mL	1.0 mL	650947	03/04/24 12:41	SCB	EET SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	88277	02/12/24 08:44	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			88647	02/14/24 09:40	SM	EA SB
							Completed:	02/14/24 10:40 [1]		

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EA SB = Eurofins Eaton Analytical South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Accreditation/Certification Summary

Client: GSI Environmental Inc
Project/Site: Ash Pond

Job ID: 860-67548-2

Laboratory: Eurofins Eaton Analytical South Bend

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

Authority	Program	Identification Number	Expiration Date
A2LA	ISO/IEC 17025	5794.01	07-31-24
Alabama	State	40700	06-30-24
Alaska	State	IN00035	06-30-24
Arizona	State	AZ0432	07-26-24
Arkansas (DW)	State	EPA IN00035	06-30-24
California	State	2920	06-30-24
Colorado	State	IN00035	02-29-24
Connecticut	State	PH-0132	03-31-24
Delaware (DW)	State	IN00035	06-30-24
Florida	NELAP	E87775	06-30-24
Georgia (DW)	State	929	06-30-24
Guam	State	23-011R	07-15-24
Hawaii	State	IN035	06-30-24
Idaho (DW)	State	IN00035	12-31-24
IL Dept. of Public Health (Micro)	State	17767	07-01-24
Illinois	NELAP	200001	09-19-24
Indiana	State	C-71-01	12-31-25
Indiana (Micro)	State	M-76-07	12-31-25
Iowa	State	IA Lab #098	11-01-25
Kansas	NELAP	E-10233	10-31-24
Kentucky (DW)	State	KY90056	12-31-24
Louisiana (DW)	State	LA014	12-31-24
Maine	State	IN00035	05-01-25
Maryland	State	209	06-30-24
Massachusetts	State	M-IN035	06-30-24
MI - RadChem Recognition	State	9926	06-30-24
Michigan	State	9926	06-30-24
Minnesota	NELAP	1989807	12-31-24
Mississippi	State	IN00035	06-30-24
Missouri	State	880	09-30-24
Montana (DW)	State	CERT0026	01-01-25
Nebraska	State	NE-OS-05-04	06-30-24
Nevada	State	IN000352024-01	07-31-24
New Hampshire	NELAP	2124	11-05-24
New Jersey	NELAP	IN598	06-30-24
New Mexico	State	IN00035	06-30-24
New York	NELAP	11398	04-01-24
North Carolina (DW)	State	18700	07-31-24
North Dakota	State	R-035	06-30-24
Northern Mariana Islands (DW)	State	IN00035	06-30-24
Ohio	State	87775	06-30-24
Oklahoma	NELAP	D9508	08-31-24
Oregon	NELAP	4156	09-16-24
Pennsylvania	NELAP	68-00466	04-30-24
Puerto Rico	State	IN00035	04-01-24
Rhode Island	State	LAO00343	12-30-24
South Carolina	State	95005001	06-30-24
South Dakota (DW)	State	IN00035	06-30-24
Tennessee	State	TN02973	06-30-24
Texas	NELAP	T104704187-22-16	12-31-24

Accreditation/Certification Summary

Client: GSI Environmental Inc
Project/Site: Ash Pond

Job ID: 860-67548-2

Laboratory: Eurofins Eaton Analytical South Bend (Continued)

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

Authority	Program	Identification Number	Expiration Date
Texas	TCEQ Water Supply	TX207	06-30-24
USEPA Reg X SDWA	US Federal Programs	IN00035	08-24-24
USEPA UCMR 5	US Federal Programs	IN00035	12-31-25
Utah	NELAP	IN00035	07-31-24
Vermont	State	VT-8775	11-15-24
Virginia	NELAP	460275	03-14-24
Washington	State	C837	01-01-25
West Virginia (DW)	State	9927 C	01-31-25
Wisconsin	State	999766900	08-31-24
Wisconsin (Micro)	State	10121	12-31-24
Wyoming	State	8TMS-L	06-30-24

Laboratory: Eurofins St. Louis

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704193	07-31-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
904.0	PrecSep_0	Water	Radium-228

Method Summary

Client: GSI Environmental Inc
Project/Site: Ash Pond

Job ID: 860-67548-2

Method	Method Description	Protocol	Laboratory
904.0	Radium-228 (GFPC)	EPA	EET SL
SM7500 Ra B	Radium-226	SM	EA SB
PrecSep_0	Preparation, Precipitate Separation	None	EET SL
RAD Prep	Preparation, Radiologicals	None	EA SB

Protocol References:

EPA = US Environmental Protection Agency

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

EA SB = Eurofins Eaton Analytical South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Sample Summary

Client: GSI Environmental Inc
Job ID: 860-67548-2
Project/Site: Ash Pond

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-67548-1	PZ-02	Water	02/07/24 11:15	02/08/24 10:24
860-67548-2	PZ-03	Water	02/07/24 11:15	02/08/24 10:24
860-67548-3	PZ-05	Water	02/07/24 11:00	02/08/24 10:24
860-67548-4	PZ-06	Water	02/07/24 09:20	02/08/24 10:24
860-67548-5	AP-31	Water	02/07/24 11:30	02/08/24 10:24
860-67548-6	AP-32	Water	02/07/24 09:30	02/08/24 10:24
860-67548-7	AP-33	Water	02/07/24 08:45	02/08/24 10:24
860-67548-8	AP-34	Water	02/07/24 10:15	02/08/24 10:24
860-67548-9	AP-35	Water	02/07/24 10:45	02/08/24 10:24
860-67548-10	AP-36	Water	02/07/24 10:20	02/08/24 10:24
860-67548-11	MW-03	Water	02/07/24 10:15	02/08/24 10:24
860-67548-12	DUP-02	Water	02/07/24 09:00	02/08/24 10:24
860-67548-13	FB-02	Water	02/07/24 11:30	02/08/24 10:24
860-67548-14	EB-01	Water	02/07/24 09:45	02/08/24 10:24

Eurofins Xenco, Stafford
4147 Greenbriar Dr
Stafford TX 77477
Phone (281) 240-4200

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: Scott Hoe + HMI Team	Lab PM: Kudchadkar Sachin G	Carrier Tracking No(s):	COC No: 860-3614-1220.1
Client Contact: Mike Schofield	Phone: 832-347-4521	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: TX	Page: Page 1 of 2
Company: GSI Environmental Inc	PWSID:			Job #:
Address: 9600 Great Hills Trail Suite 350E	Due Date Requested:			
City: Austin	TAT Requested (days):			
State, Zip: TX, 78759	Compliance Project: Δ Yes Δ No			
Phone: 512-346-4474(Tel) 512-346-4476(Fax)	PO #:			
Email: mlschofield@gsi-net.com	WO #:			
Project Name: San Miguel Electrical Co-Op GW	Project #: 86001746			
Site: Ash Pond	SSOW#:			

Analysis Requested

Preservation Codes:

A	HCL	M	Hexane
B	NaOH	N	None
C	Zn Acetate	O	AsNaO2
D	Nitric Acid	P	Na2O4S
E	NaHSO4	Q	Na2SO3
F	MeOH	R	Na2S2O3
G	Amchlor	S	H2SO4
H	Ascorbic Acid	T	TSP Dodecahydrate
I	Ice	U	Acetone
J	DI Water	V	MCAA
K	EDTA	W	pH 4-5
L	EDA	Z	other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2320B, Alkalinity	6020A - 7470- B, Ca,Sb, As, Ba, Be, Cd, Cr Co, Pb, Li, Mo, Se, Ti;Hg- Eurofins Pittsburg + Na, Mg	2540C_TDS	300- Cl, F, SO4	901 1_Ra- Rad 228 Eurofins St Louis	SM7500_Ra_B Rad 226- South Bend IN	O - MS/MSD not provided	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	D	N	N	D	D			
PZ-02	2-7-24	1115	G	Water			✓	✓	✓	✓	✓	✓			
PZ-03		1115		Water		Y	✓	✓	✓	✓	✓	✓			
PZ-05		1100		Water			✓	✓	✓	✓	✓	✓			
PZ-06		920		Water			✓	✓	✓	✓	✓	✓			
AP-31		1130		Water			✓	✓	✓	✓	✓	✓			
AP-32		930		Water			✓	✓	✓	✓	✓	✓			
AP-33		845		Water			✓	✓	✓	✓	✓	✓			
AP-34		1015		Water			✓	✓	✓	✓	✓	✓			
AP-35		1045		Water			✓	✓	✓	✓	✓	✓			
AP-36		1020		Water			✓	✓	✓	✓	✓	✓			
MW-03	↓	1015	↓	Water			✓	✓	✓	✓	✓	✓			

Temp: 2.5 IR ID:HOU-369
C/F -0.0
Corrected Temp: 2.5

Temp: 0.5 IR ID:HOU-369
C/F -0.0
Corrected Temp: 0.5

Temp: 2.7 IR ID:HOU-369
C/F -0.0
Corrected Temp: 2.7

Temp: 0.6 IR ID:HOU-369
C/F -0.0
Corrected Temp: 0.6

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I II III IV Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: Cons. Dropoff	
Relinquished by:	Date/Time: 2-8-24 1024	Company HMI	Received by:	Date/Time: Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: Company
Relinquished by:		Company	Received by:	Date/Time: 2 8 24 1024 Company
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.		Cooler Temperature(s) °C and Other Remarks:	

860-67548 Chain of Custody

Ver: 01/16/2019

3/5/2024

Eurofins Xenco, Stafford
4147 Greenbriar Dr
Stafford TX 77477
Phone (281) 240-4200

Chain of Custody Record

eurofins Environment Testing Amer

3/5/2024

Client Information	Sampler: Scott Wde + Hml Team	Lab PM: Kudchadkar Sachin G	Carrier Tracking No(s):	COC No: 860-3614-1220.1
Client Contact: Mike Schofield	Phone: 832-347-4521	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: TX	Page: Page 2 of 2
Company: GSI Environmental, Inc	PWSID:	Analysis Requested		Job #:
Address: 9600 Great Hills Trail Suite 350E	Due Date Requested:			
City: Austin	TAT Requested (days):			
State, Zip: TX, 78759	Compliance Project: Δ Yes Δ No			
Phone: 512-346-4474(Tel) 512-346-4476(Fax)	PO #:			
Email: mlschofield@gsi-net.com	WO #:			
Project Name: San Miguel Electrical Co-Op GW	Project #: 86001746			
Site: Ash Pond	SSOW#:			

Preservation Codes:
A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Z other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	23208_Alkalinity	6020A -7470- B, Ca,Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl;Hg- Eurofins Pittsburg + Na, Mg	2540C_TDS	300- Cl, F, SO4	901.1_Ra- Rad 228 Eurofins St Louis	SM7500_Ra_B Rad 226- South Bend IN	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	D	N	N	D	D		
DUP-02	2-7-24	900	G	Water			✓	✓	✓	✓	✓	✓		
FB-02	↓	1130	↓	Water			✓	✓	✓	✓	✓	✓		
EB-01	↓	945	↓	Water			✓	✓	✓	✓	✓	✓		
				Water										
				Water										
				Water										
				Water										
				Water										
				Water										
				Water										
				Water										

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I, II III IV Other (specify)

Special Instructions/QC Requirements.

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: Cons Dropoff

Relinquished by:	Date/Time:	Company	Received by	Date/Time:	Company
[signature]	2-8-24 1024	HM			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: [signature]	Date/Time: 2.8.24 1024	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

ORIGIN ID:SGRA (281) 240-4200
ADMINISTRATIVE OFFICES
XENCO HOUSTON
4145 GREENBRIAR DR

STAFFORD, TX 77477
UNITED STATES US

SHIP DATE: 08FEB24
ACTWGT: 10.00 LB
CAD: 110189707/INET4700

BILL SENDER

TO SHIPPING AND RECEIVING
EUROFINS TEST AMERICA, PITTSBURGH
301 ALPHA DRIVE RIDC PARK

PITTSBURGH PA 15238
(412) 963-7058 REF
INV
PO DEPT

583J5/EC2B/9AE3

Uncorrected temp C
Thermometer ID 1.8 21
CF 0.0 Initials RB
PT-WI-SR-001 effective 11/8/18

FedEx Express

J241024011001uv

FRI - 09 FEB 10:30A
PRIORITY OVERNIGHT

TRK# 0201 7751 2496 3670

NX AGCA

15238
PA-US PIT

860-67548 Waybill

ORIGIN ID:SGRA (281) 240-4200
ADMINISTRATIVE OFFICES
XENCO HOUSTON
4145 GREENBRIAR DR

STAFFORD, TX 77477
UNITED STATES US

SHIP DATE: 08FEB24
ACTWGT: 10.00 LB
CAD: 110189707/INET4700

BILL SENDER

TO SHIPPING AND RECEIVING
EUROFINS TEST AMERICA, PITTSBURGH
301 ALPHA DRIVE RIDC PARK

PITTSBURGH PA 15238
(412) 963-7058 REF
INV
PO DEPT

583J5/EC2B/9AE3

Uncorrected temp C
Thermometer ID 4.9 21
CF 0.0 Initials RB
PT-WI-SR-001 effective 11/8/18

FedEx Express

J241024011001uv

FRI - 09 FEB 10:30A
PRIORITY OVERNIGHT

TRK# 0201 7751 2562 2770

NX AGCA

15238
PA-US PIT

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins
Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-94980.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@et.eurofinsus.com	State of Origin: Texas	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 860-67548-1
Address: 13715 Rider Trail North,	Due Date Requested: 3/7/2024			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #			
Email:	WO #			
Project Name: San Miguel Electrical Co-Op 2H23 GW	Project #: 86001746			
Site:	SSOW#:			

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Analysis Requested

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)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	904.0/PrecSep_0 Standard Target List	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
PZ-02 (860-67548-1)	2/7/24	11:15 Central		Water			X	3	
PZ-03 (860-67548-2)	2/7/24	11:15 Central		Water			X	3	
PZ-03 (860-67548-2MS)	2/7/24	11:15 Central	MS	Water			X	3	
PZ-03 (860-67548-2MSD)	2/7/24	11:15 Central	MSD	Water			X	3	
PZ-05 (860-67548-3)	2/7/24	11:00 Central		Water			X	3	
PZ-06 (860-67548-4)	2/7/24	09:20 Central		Water			X	3	
AP-31 (860-67548-5)	2/7/24	11:30 Central		Water			X	2	
AP-32 (860-67548-6)	2/7/24	09:30 Central		Water			X	3	
AP-33 (860-67548-7)	2/7/24	08:45 Central		Water			X	3	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Linda	2/8/24		Richard Thornley	FEB 09 2024 0825	FTA STL
2	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
3	Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-94980.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@et.eurofinsus.com	State of Origin: Texas	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 860-67548-1
Address: 13715 Rider Trail North,	Due Date Requested: 3/7/2024			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: San Miguel Electrical Co-Op 2H23 GW	Project #: 86001746			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

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)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	904.0/PrecSep_0 Standard Target List	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
AP-34 (860-67548-8)	2/7/24	10:15 Central		Water			X	3	
AP-35 (860-67548-9)	2/7/24	10:45 Central		Water			X	3	
AP-36 (860-67548-10)	2/7/24	10:20 Central		Water			X	3	
MW-03 (860-67548-11)	2/7/24	10:15 Central		Water			X	3	
DUP-02 (860-67548-12)	2/7/24	09:00 Central		Water			X	3	
FB-02 (860-67548-13)	2/7/24	11:30 Central		Water			X	3	
EB-01 (860-67548-14)	2/7/24	09:45 Central		Water			X	3	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:		
Relinquished by:	Date/Time: 2/8/24	Company	Received by: Richard Thornley	Date/Time: FEB 09 2024 0825	Company ETA STL	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins Environment Testing

3/5/2024

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-95014.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@et.eurofinsus.com	State of Origin: Texas	Page: Page 1 of 2
Company: Eurofins Eaton Analytical		Accreditations Required (See note): NELAP - Texas		Job #: 860-67548-1
Address: 110 S Hill Street,	Due Date Requested: 3/7/2024			
City: South Bend	TAT Requested (days):			
State, Zip: IN, 46617				
Phone: 574-233-4777(Tel) 574-233-8207(Fax)	PO #:			
Email:	WO #:			
Project Name: San Miguel Electrical Co-Op 2H23 GW	Project #: 86001746			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

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)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SM7500_Ra_B/Rad_Prep Radium 226	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
PZ-02 (860-67548-1)	2/7/24	11:15 Central		Water			X	1	pH Accept
PZ-03 (860-67548-2MSD)	2/7/24	11:15 Central	MSD	Water			X	3	Less than 2
PZ-05 (860-67548-3)	2/7/24	11:00 Central		Water			X	1	
PZ-06 (860-67548-4)	2/7/24	09:20 Central		Water			X	1	
AP-31 (860-67548-5)	2/7/24	11:30 Central		Water			X	1	
AP-32 (860-67548-6)	2/7/24	09:30 Central		Water			X	1	Initial Temp: 1.8 Corrected Temp: 2.0 IR Gun # 2
AP-33 (860-67548-7)	2/7/24	08:45 Central		Water			X	1	
AP-34 (860-67548-8)	2/7/24	10:15 Central		Water			X	1	
AP-35 (860-67548-9)	2/7/24	10:45 Central		Water			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		2/8/24			2-9-24 08	
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing

3/5/2024

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-95014.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@et.eurofinsus.com	State of Origin: Texas	Page: Page 2 of 2
Company: Eurofins Eaton Analytical		Accreditations Required (See note): NELAP - Texas		Job #: 860-67548-1
Address: 110 S Hill Street, ,	Due Date Requested: 3/7/2024			
City: South Bend	TAT Requested (days):			
State, Zip: IN, 46617				
Phone: 574-233-4777(Tel) 574-233-8207(Fax)	PO #:			
Email:	WO #:			
Project Name: San Miguel Electrical Co-Op 2H23 GW	Project #: 86001746			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

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)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SM7500_Ra_B/Rad_Prep Radium 226	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
AP-36 (860-67548-10)	2/7/24	10:20 Central		Water			X	1	
MW-03 (860-67548-11)	2/7/24	10:15 Central		Water			X	1	
DUP-02 (860-67548-12)	2/7/24	09:00 Central		Water			X	1	
FB-02 (860-67548-13)	2/7/24	11:30 Central		Water			X	1	
EB-01 (860-67548-14)	2/7/24	09:45 Central		Water			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing

3/5/2024

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-95027.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@et.eurofinsus.com	State of Origin: Texas	Page: Page 1 of 1
Company: Eurofins Eaton Analytical		Accreditations Required (See note): NELAP - Texas		Job #: 860-67548-1
Address: 110 S Hill Street, ,	Due Date Requested: 3/7/2024			
City: South Bend	TAT Requested (days):			
State, Zip: IN, 46617				
Phone: 574-233-4777(Tel) 574-233-8207(Fax)	PO #:			
Email:	WO #:			
Project Name: San Miguel Electrical Co-Op 2H23 GW	Project #: 86001746			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

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)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SM7500_Ra_B/Rad_Prep Radium 226	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
PZ-03 (860-67548-2)	2/7/24	11:15 Central		Water			X	1	
PZ-03 (860-67548-2MS)	2/7/24	11:15 Central	MS	Water			X	1	
PZ-03 (860-67548-2MSD)	2/7/24	11:15 Central	MSD	Water			X	1	

Initial Temp: 1.8
Corrected Temp: 1.7
IR Gun # 29

pH Acceptable
Lesshung

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Lucter	2/8/24			2-9-24 0900	
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: GSI Environmental Inc

Job Number: 860-67548-2

Login Number: 67548

List Source: Eurofins Houston

List Number: 1

Creator: Torrez, Lisandra

Question	Answer	Comment
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	

Login Sample Receipt Checklist

Client: GSI Environmental Inc

Job Number: 860-67548-2

Login Number: 67548
List Number: 2
Creator: Moore, Gary

List Source: Eurofins Eaton Analytical South Bend
List Creation: 02/09/24 11:49 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	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	
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	
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	
Samples do not require splitting or compositing.	True	
Container provided by EEA	True	

Login Sample Receipt Checklist

Client: GSI Environmental Inc

Job Number: 860-67548-2

Login Number: 67548
List Number: 4
Creator: Worthington, Sierra M

List Source: Eurofins St. Louis
List Creation: 02/12/24 08:58 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are 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?	N/A	
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").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

GSI ENVIRONMENTAL

DATA USABILITY SUMMARY

February 2024 Sampling Event (Job ID: 860-67547-1)

OVERVIEW

GSI Environmental Inc. (GSI) reviewed one data package from Eurofins Houston located in Stafford, Texas (EET HOU) for the analysis of **twelve groundwater samples collected at the Equalization Pond on 7 February 2024**[1] at the San Miguel Electric Cooperative, Inc., Christine, Atascosa County, Texas site. Data were reviewed for i) conformance to the requirements of the guidance document *Review and Reporting of COC Concentration Data* (RG-366/TRRP-13) and ii) adherence to project objectives (e.g., GSI 2019). The alkalinity and total dissolved solids analyses were conducted by EET HOU, while the metals and mercury analyses were conducted by the Eurofins Pittsburgh, Pennsylvania (EET PIT) laboratory and the anions analyses were conducted by the Eurofins Savannah, Georgia (EET SAV) laboratory. GSI certifies that at the time the laboratory data were generated for the project, EET HOU, EET PIT and EET SAV were National Environmental Laboratory Accreditation Program (NELAP)-accredited under the Texas Laboratory Accreditation Program (Certification Number: T104704215, T104704528 and T1047004185 respectively) for the matrices, analytes, and methods of analysis requested on the chain-of-custody documentation. A copy of EET HOU, EET PIT and EET SAV's NELAP certificates applicable to the period during which the laboratory generated the data in this report is included as Attachment A.

Intended Use of Data

Samples were collected to provide current data on groundwater conditions at the test location. Analyses requested included:

- Method 6020A - Metals (Inductively Coupled Plasma (ICP)/Mass Spectrometry)
- Method 7470A – Mercury (Cold Vapor Atomic Absorption [CVAA] Spectroscopy)
- Method 300.0 – Anions, Ion Chromatography
- Method SM2320B - Alkalinity
- Method SM2540C - Total Dissolved Solids (TDS)

Data were reviewed and validated, as described in *Review and Reporting of COC Concentration Data* (RG-366/TRRP-13), and the results are discussed in this Data Usability Summary (DUS). The following laboratory submittals and field data were examined:

- the reportable data (i.e., results provided in the laboratory data package),
- the laboratory review checklists and associated exception reports, and
- the field notes with respect to field instrument calibrations, filtering procedures (if applicable), and sampling procedures.

[1] Nine samples plus one field duplicate, one field blank, and one equipment blank.

The results of supporting quality control (QC) analyses were summarized in the laboratory case narrative (LCN), which was included in this review. The case narrative and reportable data included in this review are attached to this DUS as Attachment B.

INTRODUCTION

Twelve (12) water samples were submitted to the laboratory, and all requested analyses were completed. Table 1 lists the sample identifications cross-referenced to laboratory identifications.

PROJECT MEASUREMENT QUALITY OBJECTIVES

The following criteria were used in this review:

	MS/MSD		**LCS/LCSD**		**Lab Dup**	**Field Precision**
Analytes	% R	RPD	% R	RPD	RPD	RPD
Metals	75 – 125	20	80 – 120	-	-	≤ 30%
Mercury	75 – 125	20	80 – 120	-	-	≤ 30%
Inorganic Anions	80 – 120	15	90 – 110	15	-	≤ 30%
Alkalinity	-	-	85 – 115	20	20	≤ 30%
Total Dissolved Solids (TDS)	-	-	80 – 120	10	10	≤ 30%

DATA REVIEW / VALIDATION RESULTS

Analytical Results

Results from these samples may be considered usable with the limitations and exceptions described in this section. Sample data qualified as a result of this DUS, if any, are listed in Table 3. Non-detected results are reported as less than the value of the method detection limit (MDL). Results between the MDL and reporting limit (RL) are J-flagged.

Finding: All requested analyses were completed, and results were reported as requested.

Preservation and Holding Times

The samples were evaluated for agreement with the chain-of-custody (C-O-C). The samples were received by the laboratory in the appropriate containers and in good condition, with proper completion of the C-O-C documentation. Samples receipt temperature was within the acceptance criteria, and field preservation was done as specified in the Sampling and Analysis Plan [SAP] (GSI, 2019). Samples were prepared and analyzed within method-specified holding times, with exceptions noted below. Items related to the C-O-C are also listed below.

- The sample identified as DUP-03 on the C-O-C is a field duplicate of sample EP-33.

Items related to sample preparation are listed below.

- Samples EP-31, EP-32, EP-33, EP-34, EP-35, EP-36, EP-37, EP-38, MW-04 and DUP-03 by Method 6020A were diluted to bring the concentration of target analytes within the calibration range. Elevated RLs are provided.

Finding: No qualifiers were added per this evaluation.

Calibrations

The following issues were noted with the laboratory calibrations:

- For Method 300.0, the continuing calibration verification (CCV) for analytical batch 824518 fails high for chloride at 113%. The batch matrix spike/matrix spike duplicate recoveries were within acceptable limits and may be used to evaluate matrix performance.

- For Method 300.0, the continuing calibration verification (CCV) for analytical batch 824345 fails high for fluoride at 89.8%. The batch laboratory control sample/laboratory control sample duplicate recoveries were within acceptable limits and may be used to evaluate matrix performance.

- For Method 6020A, the linear range check (LRC) standard recovery associated with preparation batch 180-459433 and analytical batch 180-459602 were outside control limits for Barium, Cadmium and Antimony. The concentrations of these analytes are below those found in the calibration standards. The sample results have been reported.

Finding: No qualifiers were added per this evaluation.

Blanks

Method (Laboratory) Blanks

The following issues were noted with the laboratory blanks:

- For Method SM2320B, the instrument blank for analytical batches 860-145687 and 860-145982 contained Total Alkalinity greater than the RL, and were not reanalyzed because associated sample results were greater than 10X the value found in the instrument blank/CCB or have a 0.00 result.

Field Blanks

The following issues were noted with the blank collected in the field:

- Chloride, Boron, Calcium, Sodium, Lithium and TDS were detected in the Field Blank at concentrations above the MDL. The field blank sample (FB-03) consists of distilled water that is exposed to ambient air on the day of sample collection. All field samples collected contained concentrations of Chloride, Boron, Calcium, Sodium, Lithium and TDS that were greater than 5X the associated field blank concentration and did not require qualifiers.

- Sulfate, Chloride, Calcium, Sodium, Total Alkalinity, Bicarbonate Alkalinity as CaCO3 and TDS were detected in the Equipment Blank at concentrations above the MDL. The equipment blank sample (EB-02) consists of distilled water that was poured over decontaminated non-dedicated sampling equipment. All field samples collected contained concentrations of Sulfate, Chloride, Calcium, Sodium, Total Alkalinity, Bicarbonate

Alkalinity as CaCO3 and TDS that were greater than 5X the associated field blank concentration and did not require qualifiers.

Finding: No qualifiers were added per this evaluation.

Internal Standard and Surrogate Recoveries (VOCs and SVOCs Only)

Not applicable.

Laboratory Control Samples

The following issues were noted with the Laboratory Control Sample (LCS)/Laboratory Control Sample Duplicate (LCSD) recoveries:

- For Method 300.0, the LCS/LCD recoveries associated with analytical batch 680-824518 were outside acceptance criteria for Sulfate (LCS/LCSD), Fluoride (LCS/LCSD) and Chloride (LCS/LCSD). Recoveries of Sulfate in the LCS/LCSD samples were 116% and 119%, respectively, above the desired range of 90-110%. Recoveries of Fluoride in the LCS/LCSD samples were 122% and 126%, respectively, above the desired range of 90-110%. Recoveries of Chloride in the LCS/LCSD samples were 124% and 126%, respectively, above the desired range of 90-110%. The batch matrix spike/matrix spike duplicate recoveries were within acceptable limits for Fluoride and Chloride and may be used to evaluate matrix performance. The results for Sulfate have been qualified.

- For Method 300.0, the LCS/LCD recoveries associated with analytical batch 680-824345 were outside acceptance criteria for Sulfate (LCS/LCSD). Recoveries of Sulfate in the LCS/LCSD samples were 89% and 86%, respectively, below the desired range of 90-110%. The affected sample results have been qualified.

Finding: "JH" and "JL" flags were added to the Sulfate results for samples EP-31, EP-32, EP-33, EP-34, EP-35, EP-36, EP-37, EP-38, MW-04 and DUP-03 per this evaluation.

Matrix Spike/Matrix Spike Duplicates and Laboratory Duplicates

The LCN and lab report indicated the following issues with matrix spike (MS)/matrix spike duplicate (MSD) data:

- The recoveries for analytical batch 180-459602 and preparation batch 180-459433 analyzed using sample EP-31 were outside control limits for Beryllium (MSD) and Lithium (MSD). Recoveries of Beryllium in the MSD sample was 74%, below the desired range of 75-125%. Recoveries of Lithium in the MSD sample was 51%, below the desired range of 75-125%. Sample matrix interference and/or non-homogeneity are suspected because the associated LCS/LCSD recoveries were within acceptance limits. MS/MSD Sample was not diluted properly. In addition, the spiking amounts were less than 4 times the result in the unspiked parent sample. As a result, no additional qualifiers were added as part of this evaluation.

- The recoveries for analytical batch 180-459743 and preparation batch 180-459433 analyzed using sample EP-31 were outside control limits for Sodium (MS/MSD). Recoveries of Sodium in the MS/MSD samples were -39% and -32%, respectively, below the desired range of 75-125%. Sample matrix interference and/or non-homogeneity are

suspected because the associated LCS/LCSD recoveries were within acceptance limits. MS/MSD Sample was not diluted properly. In addition, the spiking amounts were less than 4 times the result in the unspiked parent sample. As a result, no additional qualifiers were added as part of this evaluation.

- The native sample, MS and MSD associated with preparation batch 180-459433 and analytical batch 180-459602 were performed at the same dilution. Due to the additional level of analyte present in the spiked samples, the concentration of Lithium in the MS/MSD was above the instrument calibration range. The data have been reported.
- The post digestion spike recovery for several analytes associated with batch 180-459602 was outside of control limits. The associated sample is EP-31.
- The post digestion spike recovery for Arsenic associated with batch 180-459743 was outside of control limits. The associated sample is EP-31.
- The laboratory duplicate associated with analytical batch 145687 using sample EB-02 had a RPD of 31, above the RPD limit of 20 for Total Alkalinity and Bicarbonate Alkalinity as CaCO3. The analyte concentration was less than five times the MQL and the difference between concentrations was less than twice the MQL; therefore, qualifiers are not required.

Finding: No qualifiers were added per this evaluation.

Field Duplicates (Field Precision)

One field duplicate, identified as DUP-03, was collected with sample EP-33. Results indicate that, RPDs between the parent and duplicate sample results were less than the TCEQ-recommended maximum of 40% (organics) or 30% (metals) for concentrations greater than five times the MQL, or the difference between concentrations was less than twice the MQL for analytes with concentrations less than five times the MQL for the majority of analytes. The RPD for Lithium was above the recommended maximum of 30% and was qualified. A comparison of the field sample and the duplicate sample are shown in Table 2.

Finding: "J" flags were added to Lithium results for samples EP-33 and DUP-03 per this evaluation.

Field Procedures

Sample collection and documentation was done in accordance with the Groundwater Sampling and Analysis Plan (SAP; GSI, 2019).

Finding: Field activities were consistent with the SAP.

SUMMARY

The analytical data are usable for the purpose of characterizing groundwater conditions. In addition, qualifiers were added based on this review and evaluation (see Table 3).

REFERENCES

GSI Environmental, Inc., 2019, Groundwater Sampling and Analysis Plan, San Miguel Electric Cooperative, Inc., December 26.

TCEQ 2010. Review and Reporting of COC Concentration Data under TRRP, RG-366/TRRP-13
https://www.tceq.texas.gov/assets/public/comm_exec/pubs/rg/rg-366-trrp-13.pdf

TABLES

TABLE 1
Cross-Reference Field Sample and Laboratory Identifications

Sample Date	Lab	Lab Sample ID	Field Sample ID	Matrix
02/07/2024	EET HOU/EET PIT/EET SAV	860-67547-1	EP-31	Water
02/07/2024	EET HOU/EET PIT/EET SAV	860-67547-2	EP-32	Water
02/07/2024	EET HOU/EET PIT/EET SAV	860-67547-3	EP-33	Water
02/07/2024	EET HOU/EET PIT/EET SAV	860-67547-4	EP-34	Water
02/07/2024	EET HOU/EET PIT/EET SAV	860-67547-5	EP-35	Water
02/07/2024	EET HOU/EET PIT/EET SAV	860-67547-6	EP-36	Water
02/07/2024	EET HOU/EET PIT/EET SAV	860-67547-7	EP-37	Water
02/07/2024	EET HOU/EET PIT/EET SAV	860-67547-8	EP-38	Water
02/07/2024	EET HOU/EET PIT/EET SAV	860-67547-9	MW-04	Water
02/07/2024	EET HOU/EET PIT/EET SAV	860-67547-10	DUP-03	Water
02/07/2024	EET HOU/EET PIT/EET SAV	860-67547-11	FB-03	Water
02/07/2024	EET HOU/EET PIT/EET SAV	860-67547-12	EB-02	Water

Notes:
1. EET HOU: Eurofins Houston, Stafford, Texas; EET PIT: Eurofins Pittsburgh, Pittsburgh, Pennsylvania; EET SAV: Eurofins Savannah, Savannah, Georgia

TABLE 2
Field Duplicate Detections

Analyte	MDL (mg/L)	Primary Sample Result (mg/L)	Field Duplicate Result (mg/L)	Relative Percent Difference (RPD)
Sulfate	80.0	3210	3100	3.5
Fluoride	8.00	8.00 U	8.00 U	0.0
Chloride	40.0	2380	2320	2.6
Arsenic	0.000282	0.000869 J	0.000755 J	0.0
Boron	1.20	52.6	47.4	10.4
Barium	0.00314	0.0134	0.0137	2.2
Beryllium	0.000274	0.000274 U	0.000274 U	0.0
Calcium	0.127	481	477	0.8
Cadmium	0.000217	0.000217 U	0.000217 U	0.0
Chromium	0.00153	0.00153 U	0.0306 U	0.0
Cobalt	0.000261	0.000261 U	0.000261 U	0.0
Magnesium	0.0498	37.7	37.0	1.9
Molybdenum	0.000610	0.00620	0.00611	1.5
Sodium	0.920	2350	2240	4.8
Lead	0.000376	0.000376 U	0.000376 U	0.0
Antimony	0.000967	0.000967 U	0.000967 U	0.0
Thallium	0.000472	0.000472 U	0.000472 U	0.0
Selenium	0.000739	0.00275 J	0.00219 J	0.0
Lithium	0.00129	0.812	0.529	42.2
Mercury	0.130	0.130 U	0.130 U	0.0
Total Alkalinity	4.00	226	223	1.3
Bicarbonate Alkalinity as CaCO3	4.00	226	223	1.3
Total Dissolved Solids	100	8600	9520	10.2

Notes:
1. MDL: Method Detection Limit
2. mg/L: milligrams per liter
3. RPD = ABS(PR-FD)/AVERAGE(PR+FD)*100), where PR is the Primary Sample and FD is the Field Duplicate, where the MDL is substituted for results below detection.
4. U = analyte not detected at the stated limit; J = result is less than the RL but greater than the MDL and the concentration is an approximate value
5. CaCO3: Calcium carbonate

TABLE 3
Qualifiers Added During Data Usability Review

Sample ID	Analyte	Lab Result	Unit	DUS Qualifier or Bias Code	Reason for Qualification	Analysis Batch Number	Report Number
EP-31	Sulfate	3200	mg/L	JL	LCS/LCSD recoveries below limit	824345	860-67547-1
EP-32	Sulfate	4080	mg/L	JH	LCS/LCSD recoveries above limit	824518	860-67547-1
EP-33	Sulfate	3210	mg/L	JH	LCS/LCSD recoveries above limit	824518	860-67547-1
EP-34	Sulfate	2910	mg/L	JH	LCS/LCSD recoveries above limit	824518	860-67547-1
EP-35	Sulfate	3210	mg/L	JH	LCS/LCSD recoveries above limit	824518	860-67547-1
EP-36	Sulfate	2240	mg/L	JH	LCS/LCSD recoveries above limit	824518	860-67547-1
EP-37	Sulfate	2390	mg/L	JH	LCS/LCSD recoveries above limit	824518	860-67547-1
EP-38	Sulfate	2380	mg/L	JH	LCS/LCSD recoveries above limit	824518	860-67547-1
MW-04	Sulfate	2160	mg/L	JL	LCS/LCSD recoveries above limit	824345	860-67547-1
DUP-03	Sulfate	3100	mg/L	JL	LCS/LCSD recoveries above limit	824345	860-67547-1
EP-33	Lithium	0.812	mg/L	J	FD RPD > 30%	459602	860-67547-1
DUP-03	Lithium	0.529	mg/L	J	FD RPD > 30%	459602	860-67547-1

Notes:
1. mg/L: milligrams per liter.
2. JH: estimated value, biased high; JL: estimated value, biased low.
3. LCS/LCSD: laboratory control sample/laboratory control sample duplicate.
4. FD RPD: field duplicate relative percent difference

Attachment A

TCEQ NELAP-Recognized Laboratory Accreditation Certificates

Texas Commission on Environmental Quality

NELAP-Recognized Laboratory Accreditation is hereby awarded to

Eurofins Houston

4147 Greenbriar Dr.
Stafford, TX 77477

in accordance with Texas Water Code Chapter 5, Subchapter R, Title 30 Texas Administrative Code Chapter 25, and the National Environmental Laboratory Accreditation Program.

The laboratory's scope of accreditation includes the fields of accreditation that accompany this certificate. Continued accreditation depends upon successful ongoing participation in the program. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current location(s) and accreditation status for particular methods and analyses (www.tceq.texas.gov/goto/lab). Accreditation does not imply that a product, process, system or person is approved by the Texas Commission on Environmental Quality.

Certificate Number: T104704215-23-53
Effective Date: 8/31/2023
Expiration Date: 6/30/2024

Executive Director Texas Commission on Environmental Quality

Texas Commission on Environmental Quality

NELAP-Recognized Laboratory Accreditation is hereby awarded to

Eurofins Pittsburgh

301 Alpha Drive
Pittsburgh, PA 15238-2907

in accordance with Texas Water Code Chapter 5, Subchapter R, Title 30 Texas Administrative Code Chapter 25, and the National Environmental Laboratory Accreditation Program.

The laboratory's scope of accreditation includes the fields of accreditation that accompany this certificate. Continued accreditation depends upon successful ongoing participation in the program. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current location(s) and accreditation status for particular methods and analyses (www.tceq.texas.gov/goto/lab). Accreditation does not imply that a product, process, system or person is approved by the Texas Commission on Environmental Quality.

Erin E. Chancellor

Executive Director Texas Commission on Environmental Quality

Certificate Number: T104704528-23-12
Effective Date: 4/1/2023
Expiration Date: 3/31/2024

Texas Commission on Environmental Quality

NELAP-Recognized Laboratory Accreditation is hereby awarded to

Eurofins Savannah

5102 LaRoche Avenue
Savannah, GA 31404-6019

in accordance with Texas Water Code Chapter 5, Subchapter R, Title 30 Texas Administrative Code Chapter 25, and the National Environmental Laboratory Accreditation Program.

The laboratory's scope of accreditation includes the fields of accreditation that accompany this certificate. Continued accreditation depends upon successful ongoing participation in the program. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current location(s) and accreditation status for particular methods and analyses (www.tceq.texas.gov/goto/lab). Accreditation does not imply that a product, process, system or person is approved by the Texas Commission on Environmental Quality.

Certificate Number: T104704185-23-22
Effective Date: 12/1/2023
Expiration Date: 11/30/2024

Executive Director Texas Commission on Environmental Quality

Attachment B

Eurofins Houston – Stafford, Texas

Analytical Report

Job ID.: 860-67547-1

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mike Schofield
GSI Environmental Inc
9600 Great Hills Trail
Suite 350E
Austin, Texas 78759

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JOB DESCRIPTION

Equilization Pond

JOB NUMBER

860-67547-1

Eurofins Houston
4145 Greenbriar Dr
Stafford TX 77477

See page two for job notes and contact information.

my EOL

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.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

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Authorized for release by
Sachin Kudchadkar, Senior Project Manager
Sachin.Kudchadkar@et.eurofinsus.com
(281)748-9025

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Qualifiers

HPLC/IC

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*+	LCS and/or LCSD is outside acceptance limits, high biased.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
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.
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
^5+	Linear Range Check (LRC) is outside acceptance limits, high biased.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
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.

General Chemistry

Qualifier	Qualifier Description
^2	Calibration Blank (ICB and/or CCB) is outside acceptance limits.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.
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.
¤	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

Glossary (Continued)

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

Job Narrative
860-67547-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 2/8/2024 10:24 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 1.5°C, 2.0°C, 3.1°C and 4.0°C.

HPLC/IC
Method 300_ORGFM_28D: LCS/LCSD fails high. Data has been reported.

(LCS 680-824518/34) and (LCSD 680-824518/35)

Method 300_ORGFM_28D: CCV fails high for chloride at113%. Data has been reported.

(CCV 680-824518/48)

Method 300_ORGFM_28D: Sulfate LCS/LCSD% recovery fails at 89 and 86%. Data has been reported.

(LCS 680-824345/4) and (LCSD 680-824345/5)

Method 300_ORGFM_28D: CCV fails for fluoride at 89.8%. Data has been reported.

(CCV 680-824345/18)

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

Metals
Method 6020A - Total Recoverable: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 180-459433 and analytical batch 180-459602 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 6020A - Total Recoverable: The linear range check (LRC) standard recovery associated with preparation batch 180-459433 and analytical batch 180-459602 is outside the acceptance criteria for the following analytes: Barium, Cadmium and Antimony. The concentration of these analytes are below those found in the calibration standard. The sample results have been reported.

Method 6020A - Total Recoverable: The post digestion spike % recovery for several analytes associated with batch 180-459602 was outside of control limits. The associated sample is: EP-31 (860-67547-1).

Method 6020A - Total Recoverable: The native sample, matrix spike, and matrix spike duplicate (MS/MSD) associated with preparation batch 180-459433 and analytical batch 180-459602 were performed at the same dilution. Due to the additional level of analyte present in the spiked samples, the concentration of Lithium in the MS/MSD was above the instrument calibration range. The data have been reported and qualified.

Method 6020A - Total Recoverable: The following samples were diluted to bring the concentration of target analytes within the calibration range: EP-31 (860-67547-1), EP-32 (860-67547-2), EP-33 (860-67547-3), EP-34 (860-67547-4), EP-35 (860-67547-5),

EP-36 (860-67547-6), EP-37 (860-67547-7), EP-38 (860-67547-8), MW-04 (860-67547-9) and DUP-03 (860-67547-10). Elevated reporting limits (RLs) are provided.

Method 6020A - Total Recoverable: The post digestion spike % recovery for Arsenic associated with batch 180-459743 was outside of control limits. The associated sample is: EP-31 (860-67547-1).

Method 6020A - Total Recoverable: The following samples were diluted to bring the concentration of target analytes within the calibration range: EP-31 (860-67547-1), EP-32 (860-67547-2), EP-33 (860-67547-3), EP-34 (860-67547-4), EP-35 (860-67547-5), EP-36 (860-67547-6), EP-37 (860-67547-7), EP-38 (860-67547-8), MW-04 (860-67547-9) and DUP-03 (860-67547-10). Elevated reporting limits (RLs) are provided.

Method 6020A - Total Recoverable: The following samples were diluted to bring the concentration of target analytes within the calibration range: EP-31 (860-67547-1), EP-32 (860-67547-2), EP-33 (860-67547-3), EP-34 (860-67547-4), EP-35 (860-67547-5), EP-36 (860-67547-6), EP-37 (860-67547-7), EP-38 (860-67547-8), MW-04 (860-67547-9) and DUP-03 (860-67547-10). Elevated reporting limits (RLs) are provided.

Method 6020A - Total Recoverable: The following samples was diluted to bring the concentration of target analytes within the calibration range: EP-36 (860-67547-6). Elevated reporting limits (RLs) are provided.

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

General Chemistry
Method 2320B: The sample duplicate (DUP) precision for analytical batch 860-145687 was outside control limits. Sample non-homogeneity is suspected.

Method 2320B: The instrument blank for analytical batch 860-145687 contained Total Alkalinity greater than the reporting limit (RL), and were not reanalyzed because sample results are 10x the blank or have a 0.00 result. The data have been qualified and reported.

Method 2320B: The instrument blank for analytical batch 860-145982 contained Total Alkalinity greater than the reporting limit (RL), and were not reanalyzed because result is ND or 10x higher than the blank. The data have been qualified and reported.

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

Detection Summary

Client: GSI Environmental Inc
Project/Site: Equilization Pond

Job ID: 860-67547-1

Client Sample ID: EP-31 — Lab Sample ID: 860-67547-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	3200	*-	100	40.0	mg/L	100		300.0-1993 R2.1	Total/NA
Fluoride	1.15	J *+	2.50	1.00	mg/L	25		300.0-1993 R2.1	Total/NA
Chloride	150	*+	12.5	5.00	mg/L	25		300.0-1993 R2.1	Total/NA
Arsenic	0.0270		0.00100	0.000282	mg/L	1		EPA 6020A	Total Recoverable
Boron	5.92		0.800	0.601	mg/L	10		EPA 6020A	Total Recoverable
Barium	0.00554	J ^5+	0.0100	0.00314	mg/L	1		EPA 6020A	Total Recoverable
Beryllium	0.0657	F2 F1	0.00100	0.000274	mg/L	1		EPA 6020A	Total Recoverable
Calcium	445		0.500	0.127	mg/L	1		EPA 6020A	Total Recoverable
Cadmium	0.0133	^5+	0.00100	0.000217	mg/L	1		EPA 6020A	Total Recoverable
Cobalt	0.103		0.000500	0.000261	mg/L	1		EPA 6020A	Total Recoverable
Magnesium	38.8		0.500	0.0498	mg/L	1		EPA 6020A	Total Recoverable
Sodium	892		2.50	0.920	mg/L	5		EPA 6020A	Total Recoverable
Lead	0.000420	J	0.00100	0.000376	mg/L	1		EPA 6020A	Total Recoverable
Thallium	0.00245		0.00100	0.000472	mg/L	1		EPA 6020A	Total Recoverable
Selenium	0.00804		0.00500	0.000739	mg/L	1		EPA 6020A	Total Recoverable
Lithium	0.600	F2 F1	0.00500	0.00129	mg/L	1		EPA 6020A	Total Recoverable
Total Dissolved Solids	5350		40.0	40.0	mg/L	1		SM 2540C	Total/NA

Client Sample ID: EP-32 — Lab Sample ID: 860-67547-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	4080	*+	200	80.0	mg/L	200		300.0-1993 R2.1	Total/NA
Chloride	2190	*+	100	40.0	mg/L	200		300.0-1993 R2.1	Total/NA
Arsenic	0.000557	J	0.00100	0.000282	mg/L	1		EPA 6020A	Total Recoverable
Boron	26.4		0.800	0.601	mg/L	10		EPA 6020A	Total Recoverable
Barium	0.0130	^5+	0.0100	0.00314	mg/L	1		EPA 6020A	Total Recoverable
Calcium	401		0.500	0.127	mg/L	1		EPA 6020A	Total Recoverable
Magnesium	48.3		0.500	0.0498	mg/L	1		EPA 6020A	Total Recoverable
Molybdenum	0.00675		0.00500	0.000610	mg/L	1		EPA 6020A	Total Recoverable
Sodium	2300		2.50	0.920	mg/L	5		EPA 6020A	Total Recoverable
Selenium	0.00200	J	0.00500	0.000739	mg/L	1		EPA 6020A	Total Recoverable
Lithium	1.27		0.0500	0.0129	mg/L	10		EPA 6020A	Total Recoverable
Total Alkalinity	179	^2	4.00	4.00	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	184		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	9080		100	100	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Houston

Detection Summary

Client: GSI Environmental Inc
Project/Site: Equilization Pond

Job ID: 860-67547-1

Client Sample ID: EP-33 — Lab Sample ID: 860-67547-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	3210	*+	200	80.0	mg/L	200		300.0-1993 R2.1	Total/NA
Chloride	2380	*+	100	40.0	mg/L	200		300.0-1993 R2.1	Total/NA
Arsenic	0.000869	J	0.00100	0.000282	mg/L	1		EPA 6020A	Total Recoverable
Boron	52.6		1.60	1.20	mg/L	20		EPA 6020A	Total Recoverable
Barium	0.0134	^5+	0.0100	0.00314	mg/L	1		EPA 6020A	Total Recoverable
Calcium	481		0.500	0.127	mg/L	1		EPA 6020A	Total Recoverable
Magnesium	37.7		0.500	0.0498	mg/L	1		EPA 6020A	Total Recoverable
Molybdenum	0.00620		0.00500	0.000610	mg/L	1		EPA 6020A	Total Recoverable
Sodium	2350		2.50	0.920	mg/L	5		EPA 6020A	Total Recoverable
Selenium	0.00275	J	0.00500	0.000739	mg/L	1		EPA 6020A	Total Recoverable
Lithium	0.812		0.00500	0.00129	mg/L	1		EPA 6020A	Total Recoverable
Total Alkalinity	226		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	226		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	8600		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: EP-34 — Lab Sample ID: 860-67547-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	2910	*+	500	200	mg/L	500		300.0-1993 R2.1	Total/NA
Chloride	4040	*+	250	100	mg/L	500		300.0-1993 R2.1	Total/NA
Arsenic	0.000289	J	0.00100	0.000282	mg/L	1		EPA 6020A	Total Recoverable
Boron	45.7		1.60	1.20	mg/L	20		EPA 6020A	Total Recoverable
Barium	0.0171	^5+	0.0100	0.00314	mg/L	1		EPA 6020A	Total Recoverable
Calcium	519		0.500	0.127	mg/L	1		EPA 6020A	Total Recoverable
Magnesium	70.0		0.500	0.0498	mg/L	1		EPA 6020A	Total Recoverable
Molybdenum	0.00650		0.00500	0.000610	mg/L	1		EPA 6020A	Total Recoverable
Sodium	3220		10.0	3.68	mg/L	20		EPA 6020A	Total Recoverable
Selenium	0.00141	J	0.00500	0.000739	mg/L	1		EPA 6020A	Total Recoverable
Lithium	1.17		0.100	0.0258	mg/L	20		EPA 6020A	Total Recoverable
Total Alkalinity	236		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	236		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	11600		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: EP-35 — Lab Sample ID: 860-67547-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	3210	*+	200	80.0	mg/L	200		300.0-1993 R2.1	Total/NA
Chloride	3880	*+	100	40.0	mg/L	200		300.0-1993 R2.1	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Houston

Client Sample ID: EP-35 (Continued)

Lab Sample ID: 860-67547-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.000584	J	0.00100	0.000282	mg/L	1		EPA 6020A	Total Recoverable
Boron	40.0		1.60	1.20	mg/L	20		EPA 6020A	Total Recoverable
Barium	0.0197	^5+	0.0100	0.00314	mg/L	1		EPA 6020A	Total Recoverable
Beryllium	0.000358	J	0.00100	0.000274	mg/L	1		EPA 6020A	Total Recoverable
Calcium	457		0.500	0.127	mg/L	1		EPA 6020A	Total Recoverable
Magnesium	69.8		0.500	0.0498	mg/L	1		EPA 6020A	Total Recoverable
Molybdenum	0.00214	J	0.00500	0.000610	mg/L	1		EPA 6020A	Total Recoverable
Sodium	3180		10.0	3.68	mg/L	20		EPA 6020A	Total Recoverable
Selenium	0.00165	J	0.00500	0.000739	mg/L	1		EPA 6020A	Total Recoverable
Lithium	1.30		0.100	0.0258	mg/L	20		EPA 6020A	Total Recoverable
Total Alkalinity	182		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	182		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	11300		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: EP-36

Lab Sample ID: 860-67547-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	2240	*+	200	80.0	mg/L	200		300.0-1993 R2.1	Total/NA
Chloride	3630	*+	100	40.0	mg/L	200		300.0-1993 R2.1	Total/NA
Arsenic	0.000380	J	0.00100	0.000282	mg/L	1		EPA 6020A	Total Recoverable
Boron	36.2		1.60	1.20	mg/L	20		EPA 6020A	Total Recoverable
Barium	0.0230	^5+	0.0100	0.00314	mg/L	1		EPA 6020A	Total Recoverable
Calcium	501		0.500	0.127	mg/L	1		EPA 6020A	Total Recoverable
Magnesium	88.2		0.500	0.0498	mg/L	1		EPA 6020A	Total Recoverable
Sodium	2460		2.50	0.920	mg/L	5		EPA 6020A	Total Recoverable
Selenium	0.000870	J	0.00500	0.000739	mg/L	1		EPA 6020A	Total Recoverable
Lithium	1.17		0.0500	0.0129	mg/L	10		EPA 6020A	Total Recoverable
Total Alkalinity	222		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	222		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	8650		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: EP-37

Lab Sample ID: 860-67547-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	2390	*+	500	200	mg/L	500		300.0-1993 R2.1	Total/NA
Chloride	2990	*+	250	100	mg/L	500		300.0-1993 R2.1	Total/NA
Arsenic	0.000409	J	0.00100	0.000282	mg/L	1		EPA 6020A	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: EP-37 (Continued) — Lab Sample ID: 860-67547-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	8.66		0.800	0.601	mg/L	10		EPA 6020A	Total Recoverable
Barium	0.0177	^5+	0.0100	0.00314	mg/L	1		EPA 6020A	Total Recoverable
Calcium	403		0.500	0.127	mg/L	1		EPA 6020A	Total Recoverable
Magnesium	63.7		0.500	0.0498	mg/L	1		EPA 6020A	Total Recoverable
Sodium	2540		2.50	0.920	mg/L	5		EPA 6020A	Total Recoverable
Lithium	1.23		0.0500	0.0129	mg/L	10		EPA 6020A	Total Recoverable
Total Alkalinity	212		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	212		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	9490		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: EP-38 — Lab Sample ID: 860-67547-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	2380	*+	100	40.0	mg/L	100		300.0-1993 R2.1	Total/NA
Chloride	1450	*+	50.0	20.0	mg/L	100		300.0-1993 R2.1	Total/NA
Arsenic	0.000408	J	0.00100	0.000282	mg/L	1		EPA 6020A	Total Recoverable
Boron	2.83		0.800	0.601	mg/L	10		EPA 6020A	Total Recoverable
Barium	0.0145	^5+	0.0100	0.00314	mg/L	1		EPA 6020A	Total Recoverable
Beryllium	0.000344	J	0.00100	0.000274	mg/L	1		EPA 6020A	Total Recoverable
Calcium	434		0.500	0.127	mg/L	1		EPA 6020A	Total Recoverable
Cobalt	0.00136		0.000500	0.000261	mg/L	1		EPA 6020A	Total Recoverable
Magnesium	60.0		0.500	0.0498	mg/L	1		EPA 6020A	Total Recoverable
Sodium	1280		2.50	0.920	mg/L	5		EPA 6020A	Total Recoverable
Lithium	0.719		0.00500	0.00129	mg/L	1		EPA 6020A	Total Recoverable
Total Alkalinity	67.3		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	67.3		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	5390		40.0	40.0	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-04 — Lab Sample ID: 860-67547-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	2160	*-	200	80.0	mg/L	200		300.0-1993 R2.1	Total/NA
Chloride	1650		100	40.0	mg/L	200		300.0-1993 R2.1	Total/NA
Boron	7.71		0.800	0.601	mg/L	10		EPA 6020A	Total Recoverable
Barium	0.0112	^5+	0.0100	0.00314	mg/L	1		EPA 6020A	Total Recoverable
Calcium	316		0.500	0.127	mg/L	1		EPA 6020A	Total Recoverable
Cobalt	0.000651		0.000500	0.000261	mg/L	1		EPA 6020A	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-04 (Continued) — Lab Sample ID: 860-67547-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	53.3		0.500	0.0498	mg/L	1		EPA 6020A	Total Recoverable
Molybdenum	0.00267	J	0.00500	0.000610	mg/L	1		EPA 6020A	Total Recoverable
Sodium	1670		2.50	0.920	mg/L	5		EPA 6020A	Total Recoverable
Lithium	0.662		0.00500	0.00129	mg/L	1		EPA 6020A	Total Recoverable
Total Alkalinity	142	^2	4.00	4.00	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	152		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	5930		40.0	40.0	mg/L	1		SM 2540C	Total/NA

Client Sample ID: DUP-03 — Lab Sample ID: 860-67547-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	3100	*-	200	80.0	mg/L	200		300.0-1993 R2.1	Total/NA
Chloride	2320		100	40.0	mg/L	200		300.0-1993 R2.1	Total/NA
Arsenic	0.000755	J	0.00100	0.000282	mg/L	1		EPA 6020A	Total Recoverable
Boron	47.4		1.60	1.20	mg/L	20		EPA 6020A	Total Recoverable
Barium	0.0137	^5+	0.0100	0.00314	mg/L	1		EPA 6020A	Total Recoverable
Calcium	477		0.500	0.127	mg/L	1		EPA 6020A	Total Recoverable
Magnesium	37.0		0.500	0.0498	mg/L	1		EPA 6020A	Total Recoverable
Molybdenum	0.00611		0.00500	0.000610	mg/L	1		EPA 6020A	Total Recoverable
Sodium	2240		2.50	0.920	mg/L	5		EPA 6020A	Total Recoverable
Selenium	0.00219	J	0.00500	0.000739	mg/L	1		EPA 6020A	Total Recoverable
Lithium	0.529		0.00500	0.00129	mg/L	1		EPA 6020A	Total Recoverable
Total Alkalinity	223		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	223		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	9520		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: FB-03 — Lab Sample ID: 860-67547-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	0.317	J	0.500	0.200	mg/L	1		300.0-1993 R2.1	Total/NA
Boron	0.0722	J	0.0800	0.0601	mg/L	1		EPA 6020A	Total Recoverable
Calcium	0.194	J	0.500	0.127	mg/L	1		EPA 6020A	Total Recoverable
Sodium	1.08		0.500	0.184	mg/L	1		EPA 6020A	Total Recoverable
Lithium	0.00138	J	0.00500	0.00129	mg/L	1		EPA 6020A	Total Recoverable
Total Dissolved Solids	6.50		5.00	5.00	mg/L	1		SM 2540C	Total/NA

Client Sample ID: EB-02 — Lab Sample ID: 860-67547-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	0.789	J	1.00	0.400	mg/L	1		300.0-1993 R2.1	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: EB-02 (Continued)

Lab Sample ID: 860-67547-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	2.30		0.500	0.200	mg/L	1		300.0-1993 R2.1	Total/NA
Calcium	0.257	J	0.500	0.127	mg/L	1		EPA 6020A	Total Recoverable
Sodium	2.15		0.500	0.184	mg/L	1		EPA 6020A	Total Recoverable
Total Alkalinity	6.44		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	6.44		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	18.0		5.00	5.00	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: EP-31

Lab Sample ID: 860-67547-1

Date Collected: 02/07/24 12:40

Matrix: Water

Date Received: 02/08/24 10:24

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**3200**	***-**	100	40.0	mg/L			02/24/24 14:46	100
Fluoride	**1.15**	**J *+**	2.50	1.00	mg/L			02/23/24 20:59	25
Chloride	**150**	***+**	12.5	5.00	mg/L			02/23/24 20:59	25

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0270**		0.00100	0.000282	mg/L		02/12/24 13:23	02/14/24 20:51	1
Boron	**5.92**		0.800	0.601	mg/L		02/12/24 13:23	02/19/24 16:49	10
Barium	**0.00554**	**J ^5+**	0.0100	0.00314	mg/L		02/12/24 13:23	02/13/24 12:40	1
Beryllium	**0.0657**	**F2 F1**	0.00100	0.000274	mg/L		02/12/24 13:23	02/13/24 12:40	1
Calcium	**445**		0.500	0.127	mg/L		02/12/24 13:23	02/13/24 12:40	1
Cadmium	**0.0133**	**^5+**	0.00100	0.000217	mg/L		02/12/24 13:23	02/13/24 12:40	1
Chromium	0.00153	U	0.00200	0.00153	mg/L		02/12/24 13:23	02/15/24 18:02	1
Cobalt	**0.103**		0.000500	0.000261	mg/L		02/12/24 13:23	02/13/24 12:40	1
Magnesium	**38.8**		0.500	0.0498	mg/L		02/12/24 13:23	02/13/24 12:40	1
Molybdenum	0.000610	U	0.00500	0.000610	mg/L		02/12/24 13:23	02/13/24 12:40	1
Sodium	**892**		2.50	0.920	mg/L		02/12/24 13:23	02/14/24 22:26	5
Lead	**0.000420**	**J**	0.00100	0.000376	mg/L		02/12/24 13:23	02/13/24 12:40	1
Antimony	0.000967	U ^5+	0.00200	0.000967	mg/L		02/12/24 13:23	02/13/24 12:40	1
Thallium	**0.00245**		0.00100	0.000472	mg/L		02/12/24 13:23	02/13/24 12:40	1
Selenium	**0.00804**		0.00500	0.000739	mg/L		02/12/24 13:23	02/13/24 12:40	1
Lithium	**0.600**	**F2 F1**	0.00500	0.00129	mg/L		02/12/24 13:23	02/13/24 12:40	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.130	U	0.200	0.130	ug/L		02/12/24 09:29	02/12/24 13:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/15/24 20:18	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/15/24 20:18	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/15/24 20:18	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/15/24 20:18	1
Total Dissolved Solids (SM 2540C)	**5350**		40.0	40.0	mg/L			02/12/24 17:51	1

Client Sample ID: EP-32

Lab Sample ID: 860-67547-2

Date Collected: 02/07/24 08:15

Matrix: Water

Date Received: 02/08/24 10:24

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**4080**	***+**	200	80.0	mg/L			02/23/24 21:33	200
Fluoride	8.00	U *+	20.0	8.00	mg/L			02/23/24 21:33	200
Chloride	**2190**	***+**	100	40.0	mg/L			02/23/24 21:33	200

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.000557**	**J**	0.00100	0.000282	mg/L		02/12/24 13:23	02/14/24 21:11	1
Boron	**26.4**		0.800	0.601	mg/L		02/12/24 13:23	02/19/24 17:04	10

Client Sample ID: EP-32

Lab Sample ID: 860-67547-2

Date Collected: 02/07/24 08:15

Matrix: Water

Date Received: 02/08/24 10:24

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.0130**	**^5+**	0.0100	0.00314	mg/L		02/12/24 13:23	02/13/24 12:50	1
Beryllium	0.000274	U	0.00100	0.000274	mg/L		02/12/24 13:23	02/13/24 12:50	1
Calcium	**401**		0.500	0.127	mg/L		02/12/24 13:23	02/13/24 12:50	1
Cadmium	0.000217	U ^5+	0.00100	0.000217	mg/L		02/12/24 13:23	02/13/24 12:50	1
Chromium	0.00153	U	0.00200	0.00153	mg/L		02/12/24 13:23	02/15/24 18:09	1
Cobalt	0.000261	U	0.000500	0.000261	mg/L		02/12/24 13:23	02/13/24 12:50	1
Magnesium	**48.3**		0.500	0.0498	mg/L		02/12/24 13:23	02/13/24 12:50	1
Molybdenum	**0.00675**		0.00500	0.000610	mg/L		02/12/24 13:23	02/13/24 12:50	1
Sodium	**2300**		2.50	0.920	mg/L		02/12/24 13:23	02/14/24 22:40	5
Lead	0.000376	U	0.00100	0.000376	mg/L		02/12/24 13:23	02/13/24 12:50	1
Antimony	0.000967	U ^5+	0.00200	0.000967	mg/L		02/12/24 13:23	02/13/24 12:50	1
Thallium	0.000472	U	0.00100	0.000472	mg/L		02/12/24 13:23	02/13/24 12:50	1
Selenium	**0.00200**	**J**	0.00500	0.000739	mg/L		02/12/24 13:23	02/13/24 12:50	1
Lithium	**1.27**		0.0500	0.0129	mg/L		02/12/24 13:23	02/19/24 17:04	10

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.130	U	0.200	0.130	ug/L		02/12/24 09:29	02/12/24 13:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	**179**	**^2**	4.00	4.00	mg/L			02/15/24 22:04	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**184**		4.00	4.00	mg/L			02/17/24 02:11	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/15/24 22:04	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/15/24 22:04	1
Total Dissolved Solids (SM 2540C)	**9080**		100	100	mg/L			02/12/24 17:51	1

Client Sample ID: EP-33

Lab Sample ID: 860-67547-3

Date Collected: 02/07/24 09:10

Matrix: Water

Date Received: 02/08/24 10:24

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**3210**	***+**	200	80.0	mg/L			02/23/24 21:44	200
Fluoride	8.00	U *+	20.0	8.00	mg/L			02/23/24 21:44	200
Chloride	**2380**	***+**	100	40.0	mg/L			02/23/24 21:44	200

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.000869**	**J**	0.00100	0.000282	mg/L		02/12/24 13:23	02/14/24 21:16	1
Boron	**52.6**		1.60	1.20	mg/L		02/12/24 13:23	02/19/24 17:09	20
Barium	**0.0134**	**^5+**	0.0100	0.00314	mg/L		02/12/24 13:23	02/13/24 12:52	1
Beryllium	0.000274	U	0.00100	0.000274	mg/L		02/12/24 13:23	02/13/24 12:52	1
Calcium	**481**		0.500	0.127	mg/L		02/12/24 13:23	02/13/24 12:52	1
Cadmium	0.000217	U ^5+	0.00100	0.000217	mg/L		02/12/24 13:23	02/13/24 12:52	1
Chromium	0.00153	U	0.00200	0.00153	mg/L		02/12/24 13:23	02/15/24 18:11	1
Cobalt	0.000261	U	0.000500	0.000261	mg/L		02/12/24 13:23	02/13/24 12:52	1
Magnesium	**37.7**		0.500	0.0498	mg/L		02/12/24 13:23	02/13/24 12:52	1
Molybdenum	**0.00620**		0.00500	0.000610	mg/L		02/12/24 13:23	02/13/24 12:52	1

Client Sample ID: EP-33

Lab Sample ID: 860-67547-3

Date Collected: 02/07/24 09:10

Matrix: Water

Date Received: 02/08/24 10:24

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	**2350**		2.50	0.920	mg/L		02/12/24 13:23	02/14/24 22:43	5
Lead	0.000376	U	0.00100	0.000376	mg/L		02/12/24 13:23	02/13/24 12:52	1
Antimony	0.000967	U ^5+	0.00200	0.000967	mg/L		02/12/24 13:23	02/13/24 12:52	1
Thallium	0.000472	U	0.00100	0.000472	mg/L		02/12/24 13:23	02/13/24 12:52	1
Selenium	**0.00275**	**J**	0.00500	0.000739	mg/L		02/12/24 13:23	02/13/24 12:52	1
Lithium	**0.812**		0.00500	0.00129	mg/L		02/12/24 13:23	02/13/24 12:52	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.130	U	0.200	0.130	ug/L		02/12/24 09:29	02/12/24 13:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	**226**		4.00	4.00	mg/L			02/15/24 19:50	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**226**		4.00	4.00	mg/L			02/15/24 19:50	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/15/24 19:50	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/15/24 19:50	1
Total Dissolved Solids (SM 2540C)	**8600**		100	100	mg/L			02/12/24 17:51	1

Client Sample ID: EP-34

Lab Sample ID: 860-67547-4

Date Collected: 02/07/24 10:25

Matrix: Water

Date Received: 02/08/24 10:24

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**2910**	***+**	500	200	mg/L			02/23/24 21:55	500
Fluoride	20.0	U *+	50.0	20.0	mg/L			02/23/24 21:55	500
Chloride	**4040**	***+**	250	100	mg/L			02/23/24 21:55	500

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.000289**	**J**	0.00100	0.000282	mg/L		02/12/24 13:23	02/14/24 21:21	1
Boron	**45.7**		1.60	1.20	mg/L		02/12/24 13:23	02/19/24 17:14	20
Barium	**0.0171**	**^5+**	0.0100	0.00314	mg/L		02/12/24 13:23	02/13/24 12:54	1
Beryllium	0.000274	U	0.00100	0.000274	mg/L		02/12/24 13:23	02/13/24 12:54	1
Calcium	**519**		0.500	0.127	mg/L		02/12/24 13:23	02/13/24 12:54	1
Cadmium	0.000217	U ^5+	0.00100	0.000217	mg/L		02/12/24 13:23	02/13/24 12:54	1
Chromium	0.00153	U	0.00200	0.00153	mg/L		02/12/24 13:23	02/15/24 18:14	1
Cobalt	0.000261	U	0.000500	0.000261	mg/L		02/12/24 13:23	02/13/24 12:54	1
Magnesium	**70.0**		0.500	0.0498	mg/L		02/12/24 13:23	02/13/24 12:54	1
Molybdenum	**0.00650**		0.00500	0.000610	mg/L		02/12/24 13:23	02/13/24 12:54	1
Sodium	**3220**		10.0	3.68	mg/L		02/12/24 13:23	02/15/24 19:13	20
Lead	0.000376	U	0.00100	0.000376	mg/L		02/12/24 13:23	02/13/24 12:54	1
Antimony	0.000967	U ^5+	0.00200	0.000967	mg/L		02/12/24 13:23	02/13/24 12:54	1
Thallium	0.000472	U	0.00100	0.000472	mg/L		02/12/24 13:23	02/13/24 12:54	1
Selenium	**0.00141**	**J**	0.00500	0.000739	mg/L		02/12/24 13:23	02/13/24 12:54	1
Lithium	**1.17**		0.100	0.0258	mg/L		02/12/24 13:23	02/19/24 17:14	20

Client Sample ID: EP-34

Lab Sample ID: 860-67547-4

Date Collected: 02/07/24 10:25

Matrix: Water

Date Received: 02/08/24 10:24

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.130	U	0.200	0.130	ug/L		02/12/24 09:29	02/12/24 13:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	**236**		4.00	4.00	mg/L			02/15/24 20:13	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**236**		4.00	4.00	mg/L			02/15/24 20:13	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/15/24 20:13	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/15/24 20:13	1
Total Dissolved Solids (SM 2540C)	**11600**		100	100	mg/L			02/12/24 17:51	1

Client Sample ID: EP-35

Lab Sample ID: 860-67547-5

Date Collected: 02/07/24 11:25

Matrix: Water

Date Received: 02/08/24 10:24

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**3210**	***+**	200	80.0	mg/L			02/23/24 22:06	200
Fluoride	8.00	U *+	20.0	8.00	mg/L			02/23/24 22:06	200
Chloride	**3880**	***+**	100	40.0	mg/L			02/23/24 22:06	200

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.000584**	**J**	0.00100	0.000282	mg/L		02/12/24 13:23	02/14/24 21:41	1
Boron	**40.0**		1.60	1.20	mg/L		02/12/24 13:23	02/19/24 17:47	20
Barium	**0.0197**	**^5+**	0.0100	0.00314	mg/L		02/12/24 13:23	02/13/24 13:09	1
Beryllium	**0.000358**	**J**	0.00100	0.000274	mg/L		02/12/24 13:23	02/13/24 13:09	1
Calcium	**457**		0.500	0.127	mg/L		02/12/24 13:23	02/13/24 13:09	1
Cadmium	0.000217	U ^5+	0.00100	0.000217	mg/L		02/12/24 13:23	02/13/24 13:09	1
Chromium	0.00765	U	0.0100	0.00765	mg/L		02/12/24 13:23	02/14/24 22:48	5
Cobalt	0.000261	U	0.000500	0.000261	mg/L		02/12/24 13:23	02/13/24 13:09	1
Magnesium	**69.8**		0.500	0.0498	mg/L		02/12/24 13:23	02/13/24 13:09	1
Molybdenum	**0.00214**	**J**	0.00500	0.000610	mg/L		02/12/24 13:23	02/13/24 13:09	1
Sodium	**3180**		10.0	3.68	mg/L		02/12/24 13:23	02/15/24 19:18	20
Lead	0.000376	U	0.00100	0.000376	mg/L		02/12/24 13:23	02/13/24 13:09	1
Antimony	0.000967	U ^5+	0.00200	0.000967	mg/L		02/12/24 13:23	02/13/24 13:09	1
Thallium	0.000472	U	0.00100	0.000472	mg/L		02/12/24 13:23	02/13/24 13:09	1
Selenium	**0.00165**	**J**	0.00500	0.000739	mg/L		02/12/24 13:23	02/13/24 13:09	1
Lithium	**1.30**		0.100	0.0258	mg/L		02/12/24 13:23	02/19/24 17:47	20

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.130	U	0.200	0.130	ug/L		02/12/24 09:29	02/12/24 13:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	**182**		4.00	4.00	mg/L			02/15/24 18:54	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**182**		4.00	4.00	mg/L			02/15/24 18:54	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/15/24 18:54	1

Client Sample ID: EP-35

Lab Sample ID: 860-67547-5

Date Collected: 02/07/24 11:25

Matrix: Water

Date Received: 02/08/24 10:24

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/15/24 18:54	1
Total Dissolved Solids (SM 2540C)	**11300**		100	100	mg/L			02/12/24 17:51	1

Client Sample ID: EP-36

Lab Sample ID: 860-67547-6

Date Collected: 02/07/24 12:30

Matrix: Water

Date Received: 02/08/24 10:24

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**2240**	***+**	200	80.0	mg/L			02/23/24 22:17	200
Fluoride	8.00	U *+	20.0	8.00	mg/L			02/23/24 22:17	200
Chloride	**3630**	***+**	100	40.0	mg/L			02/23/24 22:17	200

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.000380**	**J**	0.00100	0.000282	mg/L		02/12/24 13:23	02/14/24 21:46	1
Boron	**36.2**		1.60	1.20	mg/L		02/12/24 13:23	02/20/24 16:33	20
Barium	**0.0230**	**^5+**	0.0100	0.00314	mg/L		02/12/24 13:23	02/13/24 13:12	1
Beryllium	0.000274	U	0.00100	0.000274	mg/L		02/12/24 13:23	02/13/24 13:12	1
Calcium	**501**		0.500	0.127	mg/L		02/12/24 13:23	02/13/24 13:12	1
Cadmium	0.000217	U ^5+	0.00100	0.000217	mg/L		02/12/24 13:23	02/13/24 13:12	1
Chromium	0.00153	U	0.00200	0.00153	mg/L		02/12/24 13:23	02/15/24 18:23	1
Cobalt	0.000261	U	0.000500	0.000261	mg/L		02/12/24 13:23	02/13/24 13:12	1
Magnesium	**88.2**		0.500	0.0498	mg/L		02/12/24 13:23	02/13/24 13:12	1
Molybdenum	0.000610	U	0.00500	0.000610	mg/L		02/12/24 13:23	02/13/24 13:12	1
Sodium	**2460**		2.50	0.920	mg/L		02/12/24 13:23	02/14/24 22:50	5
Lead	0.000376	U	0.00100	0.000376	mg/L		02/12/24 13:23	02/13/24 13:12	1
Antimony	0.000967	U ^5+	0.00200	0.000967	mg/L		02/12/24 13:23	02/13/24 13:12	1
Thallium	0.000472	U	0.00100	0.000472	mg/L		02/12/24 13:23	02/13/24 13:12	1
Selenium	**0.000870**	**J**	0.00500	0.000739	mg/L		02/12/24 13:23	02/13/24 13:12	1
Lithium	**1.17**		0.0500	0.0129	mg/L		02/12/24 13:23	02/19/24 17:27	10

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.130	U	0.200	0.130	ug/L		02/12/24 09:29	02/12/24 13:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	**222**		4.00	4.00	mg/L			02/15/24 20:34	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**222**		4.00	4.00	mg/L			02/15/24 20:34	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/15/24 20:34	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/15/24 20:34	1
Total Dissolved Solids (SM 2540C)	**8650**		100	100	mg/L			02/12/24 17:51	1

Client Sample ID: EP-37

Lab Sample ID: 860-67547-7

Date Collected: 02/07/24 10:55

Matrix: Water

Date Received: 02/08/24 10:24

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**2390**	***+**	500	200	mg/L			02/23/24 22:28	500
Fluoride	20.0	U *+	50.0	20.0	mg/L			02/23/24 22:28	500
Chloride	**2990**	***+**	250	100	mg/L			02/23/24 22:28	500

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.000409**	**J**	0.00100	0.000282	mg/L		02/12/24 13:23	02/14/24 21:51	1
Boron	**8.66**		0.800	0.601	mg/L		02/12/24 13:23	02/19/24 17:32	10
Barium	**0.0177**	**^5+**	0.0100	0.00314	mg/L		02/12/24 13:23	02/13/24 13:14	1
Beryllium	0.000274	U	0.00100	0.000274	mg/L		02/12/24 13:23	02/13/24 13:14	1
Calcium	**403**		0.500	0.127	mg/L		02/12/24 13:23	02/13/24 13:14	1
Cadmium	0.000217	U ^5+	0.00100	0.000217	mg/L		02/12/24 13:23	02/13/24 13:14	1
Chromium	0.00153	U	0.00200	0.00153	mg/L		02/12/24 13:23	02/15/24 18:26	1
Cobalt	0.000261	U	0.000500	0.000261	mg/L		02/12/24 13:23	02/13/24 13:14	1
Magnesium	**63.7**		0.500	0.0498	mg/L		02/12/24 13:23	02/13/24 13:14	1
Molybdenum	0.000610	U	0.00500	0.000610	mg/L		02/12/24 13:23	02/13/24 13:14	1
Sodium	**2540**		2.50	0.920	mg/L		02/12/24 13:23	02/14/24 22:53	5
Lead	0.000376	U	0.00100	0.000376	mg/L		02/12/24 13:23	02/13/24 13:14	1
Antimony	0.000967	U ^5+	0.00200	0.000967	mg/L		02/12/24 13:23	02/13/24 13:14	1
Thallium	0.000472	U	0.00100	0.000472	mg/L		02/12/24 13:23	02/13/24 13:14	1
Selenium	0.000739	U	0.00500	0.000739	mg/L		02/12/24 13:23	02/13/24 13:14	1
Lithium	**1.23**		0.0500	0.0129	mg/L		02/12/24 13:23	02/19/24 17:32	10

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.130	U	0.200	0.130	ug/L		02/12/24 09:29	02/12/24 13:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	**212**		4.00	4.00	mg/L			02/16/24 01:20	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**212**		4.00	4.00	mg/L			02/16/24 01:20	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/16/24 01:20	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/16/24 01:20	1
Total Dissolved Solids (SM 2540C)	**9490**		100	100	mg/L			02/13/24 11:42	1

Client Sample ID: EP-38

Lab Sample ID: 860-67547-8

Date Collected: 02/07/24 09:20

Matrix: Water

Date Received: 02/08/24 10:24

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**2380**	***+**	100	40.0	mg/L			02/23/24 22:39	100
Fluoride	4.00	U *+	10.0	4.00	mg/L			02/23/24 22:39	100
Chloride	**1450**	***+**	50.0	20.0	mg/L			02/23/24 22:39	100

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.000408**	**J**	0.00100	0.000282	mg/L		02/12/24 13:23	02/14/24 21:56	1
Boron	**2.83**		0.800	0.601	mg/L		02/12/24 13:23	02/19/24 17:37	10

Client Sample ID: EP-38

Lab Sample ID: 860-67547-8

Date Collected: 02/07/24 09:20

Matrix: Water

Date Received: 02/08/24 10:24

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.0145**	**^5+**	0.0100	0.00314	mg/L		02/12/24 13:23	02/13/24 13:16	1
Beryllium	**0.000344**	**J**	0.00100	0.000274	mg/L		02/12/24 13:23	02/13/24 13:16	1
Calcium	**434**		0.500	0.127	mg/L		02/12/24 13:23	02/13/24 13:16	1
Cadmium	0.000217	U ^5+	0.00100	0.000217	mg/L		02/12/24 13:23	02/13/24 13:16	1
Chromium	0.00153	U	0.00200	0.00153	mg/L		02/12/24 13:23	02/15/24 18:28	1
Cobalt	**0.00136**		0.000500	0.000261	mg/L		02/12/24 13:23	02/13/24 13:16	1
Magnesium	**60.0**		0.500	0.0498	mg/L		02/12/24 13:23	02/13/24 13:16	1
Molybdenum	0.000610	U	0.00500	0.000610	mg/L		02/12/24 13:23	02/13/24 13:16	1
Sodium	**1280**		2.50	0.920	mg/L		02/12/24 13:23	02/14/24 22:55	5
Lead	0.000376	U	0.00100	0.000376	mg/L		02/12/24 13:23	02/13/24 13:16	1
Antimony	0.000967	U ^5+	0.00200	0.000967	mg/L		02/12/24 13:23	02/13/24 13:16	1
Thallium	0.000472	U	0.00100	0.000472	mg/L		02/12/24 13:23	02/13/24 13:16	1
Selenium	0.000739	U	0.00500	0.000739	mg/L		02/12/24 13:23	02/13/24 13:16	1
Lithium	**0.719**		0.00500	0.00129	mg/L		02/12/24 13:23	02/13/24 13:16	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.130	U	0.200	0.130	ug/L		02/12/24 09:29	02/12/24 13:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	**67.3**		4.00	4.00	mg/L			02/17/24 02:03	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**67.3**		4.00	4.00	mg/L			02/17/24 02:03	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/15/24 22:59	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/15/24 22:59	1
Total Dissolved Solids (SM 2540C)	**5390**		40.0	40.0	mg/L			02/13/24 11:42	1

Client Sample ID: MW-04

Lab Sample ID: 860-67547-9

Date Collected: 02/07/24 10:05

Matrix: Water

Date Received: 02/08/24 10:24

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**2160**	***-**	200	80.0	mg/L			02/24/24 16:15	200
Fluoride	8.00	U	20.0	8.00	mg/L			02/24/24 16:15	200
Chloride	**1650**		100	40.0	mg/L			02/24/24 16:15	200

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.000282	U	0.00100	0.000282	mg/L		02/12/24 13:23	02/14/24 22:01	1
Boron	**7.71**		0.800	0.601	mg/L		02/12/24 13:23	02/19/24 17:42	10
Barium	**0.0112**	**^5+**	0.0100	0.00314	mg/L		02/12/24 13:23	02/13/24 13:19	1
Beryllium	0.000274	U	0.00100	0.000274	mg/L		02/12/24 13:23	02/13/24 13:19	1
Calcium	**316**		0.500	0.127	mg/L		02/12/24 13:23	02/13/24 13:19	1
Cadmium	0.000217	U ^5+	0.00100	0.000217	mg/L		02/12/24 13:23	02/13/24 13:19	1
Chromium	0.00153	U	0.00200	0.00153	mg/L		02/12/24 13:23	02/15/24 18:31	1
Cobalt	**0.000651**		0.000500	0.000261	mg/L		02/12/24 13:23	02/13/24 13:19	1
Magnesium	**53.3**		0.500	0.0498	mg/L		02/12/24 13:23	02/13/24 13:19	1
Molybdenum	**0.00267**	**J**	0.00500	0.000610	mg/L		02/12/24 13:23	02/13/24 13:19	1

Client Sample ID: MW-04

Lab Sample ID: 860-67547-9

Date Collected: 02/07/24 10:05

Matrix: Water

Date Received: 02/08/24 10:24

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	**1670**		2.50	0.920	mg/L		02/12/24 13:23	02/14/24 22:58	5
Lead	0.000376	U	0.00100	0.000376	mg/L		02/12/24 13:23	02/13/24 13:19	1
Antimony	0.000967	U ^5+	0.00200	0.000967	mg/L		02/12/24 13:23	02/13/24 13:19	1
Thallium	0.000472	U	0.00100	0.000472	mg/L		02/12/24 13:23	02/13/24 13:19	1
Selenium	0.000739	U	0.00500	0.000739	mg/L		02/12/24 13:23	02/13/24 13:19	1
Lithium	**0.662**		0.00500	0.00129	mg/L		02/12/24 13:23	02/13/24 13:19	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.130	U	0.200	0.130	ug/L		02/12/24 09:29	02/12/24 13:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	**142**	**^2**	4.00	4.00	mg/L			02/16/24 03:58	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**152**		4.00	4.00	mg/L			02/17/24 01:56	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/16/24 03:58	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/16/24 03:58	1
Total Dissolved Solids (SM 2540C)	**5930**		40.0	40.0	mg/L			02/13/24 11:42	1

Client Sample ID: DUP-03

Lab Sample ID: 860-67547-10

Date Collected: 02/07/24 09:00

Matrix: Water

Date Received: 02/08/24 10:24

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**3100**	***-**	200	80.0	mg/L			02/24/24 16:26	200
Fluoride	8.00	U	20.0	8.00	mg/L			02/24/24 16:26	200
Chloride	**2320**		100	40.0	mg/L			02/24/24 16:26	200

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.000755**	**J**	0.00100	0.000282	mg/L		02/12/24 13:23	02/14/24 22:06	1
Boron	**47.4**		1.60	1.20	mg/L		02/12/24 13:23	02/19/24 17:52	20
Barium	**0.0137**	**^5+**	0.0100	0.00314	mg/L		02/12/24 13:23	02/13/24 13:21	1
Beryllium	0.000274	U	0.00100	0.000274	mg/L		02/12/24 13:23	02/13/24 13:21	1
Calcium	**477**		0.500	0.127	mg/L		02/12/24 13:23	02/13/24 13:21	1
Cadmium	0.000217	U ^5+	0.00100	0.000217	mg/L		02/12/24 13:23	02/13/24 13:21	1
Chromium	0.0306	U	0.0400	0.0306	mg/L		02/12/24 13:23	02/15/24 19:28	20
Cobalt	0.000261	U	0.000500	0.000261	mg/L		02/12/24 13:23	02/13/24 13:21	1
Magnesium	**37.0**		0.500	0.0498	mg/L		02/12/24 13:23	02/13/24 13:21	1
Molybdenum	**0.00611**		0.00500	0.000610	mg/L		02/12/24 13:23	02/13/24 13:21	1
Sodium	**2240**		2.50	0.920	mg/L		02/12/24 13:23	02/14/24 23:00	5
Lead	0.000376	U	0.00100	0.000376	mg/L		02/12/24 13:23	02/13/24 13:21	1
Antimony	0.000967	U ^5+	0.00200	0.000967	mg/L		02/12/24 13:23	02/13/24 13:21	1
Thallium	0.000472	U	0.00100	0.000472	mg/L		02/12/24 13:23	02/13/24 13:21	1
Selenium	**0.00219**	**J**	0.00500	0.000739	mg/L		02/12/24 13:23	02/13/24 13:21	1
Lithium	**0.529**		0.00500	0.00129	mg/L		02/12/24 13:23	02/13/24 13:21	1

Client Sample ID: DUP-03

Lab Sample ID: 860-67547-10

Date Collected: 02/07/24 09:00

Matrix: Water

Date Received: 02/08/24 10:24

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.130	U	0.200	0.130	ug/L		02/12/24 09:29	02/12/24 13:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	**223**		4.00	4.00	mg/L			02/16/24 01:05	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**223**		4.00	4.00	mg/L			02/16/24 01:05	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/16/24 01:05	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/16/24 01:05	1
Total Dissolved Solids (SM 2540C)	**9520**		100	100	mg/L			02/13/24 11:42	1

Client Sample ID: FB-03

Lab Sample ID: 860-67547-11

Date Collected: 02/07/24 12:55

Matrix: Water

Date Received: 02/08/24 10:24

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	0.400	U *-	1.00	0.400	mg/L			02/24/24 16:48	1
Fluoride	0.0400	U	0.100	0.0400	mg/L			02/24/24 16:48	1
Chloride	**0.317**	**J**	0.500	0.200	mg/L			02/24/24 16:48	1

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.000282	U	0.00100	0.000282	mg/L		02/12/24 13:23	02/14/24 22:11	1
Boron	**0.0722**	**J**	0.0800	0.0601	mg/L		02/12/24 13:23	02/19/24 17:56	1
Barium	0.00314	U ^5+	0.0100	0.00314	mg/L		02/12/24 13:23	02/13/24 13:24	1
Beryllium	0.000274	U	0.00100	0.000274	mg/L		02/12/24 13:23	02/13/24 13:24	1
Calcium	**0.194**	**J**	0.500	0.127	mg/L		02/12/24 13:23	02/13/24 13:24	1
Cadmium	0.000217	U ^5+	0.00100	0.000217	mg/L		02/12/24 13:23	02/13/24 13:24	1
Chromium	0.00153	U	0.00200	0.00153	mg/L		02/12/24 13:23	02/15/24 17:57	1
Cobalt	0.000261	U	0.000500	0.000261	mg/L		02/12/24 13:23	02/13/24 13:24	1
Magnesium	0.0498	U	0.500	0.0498	mg/L		02/12/24 13:23	02/13/24 13:24	1
Molybdenum	0.000610	U	0.00500	0.000610	mg/L		02/12/24 13:23	02/13/24 13:24	1
Sodium	**1.08**		0.500	0.184	mg/L		02/12/24 13:23	02/13/24 13:24	1
Lead	0.000376	U	0.00100	0.000376	mg/L		02/12/24 13:23	02/13/24 13:24	1
Antimony	0.000967	U ^5+	0.00200	0.000967	mg/L		02/12/24 13:23	02/13/24 13:24	1
Thallium	0.000472	U	0.00100	0.000472	mg/L		02/12/24 13:23	02/13/24 13:24	1
Selenium	0.000739	U	0.00500	0.000739	mg/L		02/12/24 13:23	02/13/24 13:24	1
Lithium	**0.00138**	**J**	0.00500	0.00129	mg/L		02/12/24 13:23	02/13/24 13:24	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.130	U	0.200	0.130	ug/L		02/12/24 09:29	02/12/24 13:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/16/24 01:42	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/16/24 01:42	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/16/24 01:42	1

Client Sample ID: FB-03

Lab Sample ID: 860-67547-11

Date Collected: 02/07/24 12:55

Matrix: Water

Date Received: 02/08/24 10:24

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/16/24 01:42	1
Total Dissolved Solids (SM 2540C)	**6.50**		5.00	5.00	mg/L			02/13/24 11:42	1

Client Sample ID: EB-02

Lab Sample ID: 860-67547-12

Date Collected: 02/07/24 10:25

Matrix: Water

Date Received: 02/08/24 10:24

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**0.789**	**J**	1.00	0.400	mg/L			02/26/24 20:51	1
Fluoride	0.0400	U	0.100	0.0400	mg/L			02/26/24 20:51	1
Chloride	**2.30**		0.500	0.200	mg/L			02/26/24 20:51	1

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.000282	U	0.00100	0.000282	mg/L		02/12/24 13:23	02/14/24 22:16	1
Boron	0.0601	U	0.0800	0.0601	mg/L		02/12/24 13:23	02/19/24 18:01	1
Barium	0.00314	U ^5+	0.0100	0.00314	mg/L		02/12/24 13:23	02/13/24 13:26	1
Beryllium	0.000274	U	0.00100	0.000274	mg/L		02/12/24 13:23	02/13/24 13:26	1
Calcium	**0.257**	**J**	0.500	0.127	mg/L		02/12/24 13:23	02/13/24 13:26	1
Cadmium	0.000217	U ^5+	0.00100	0.000217	mg/L		02/12/24 13:23	02/13/24 13:26	1
Chromium	0.00153	U	0.00200	0.00153	mg/L		02/12/24 13:23	02/15/24 17:59	1
Cobalt	0.000261	U	0.000500	0.000261	mg/L		02/12/24 13:23	02/13/24 13:26	1
Magnesium	0.0498	U	0.500	0.0498	mg/L		02/12/24 13:23	02/13/24 13:26	1
Molybdenum	0.000610	U	0.00500	0.000610	mg/L		02/12/24 13:23	02/13/24 13:26	1
Sodium	**2.15**		0.500	0.184	mg/L		02/12/24 13:23	02/13/24 13:26	1
Lead	0.000376	U	0.00100	0.000376	mg/L		02/12/24 13:23	02/13/24 13:26	1
Antimony	0.000967	U ^5+	0.00200	0.000967	mg/L		02/12/24 13:23	02/13/24 13:26	1
Thallium	0.000472	U	0.00100	0.000472	mg/L		02/12/24 13:23	02/13/24 13:26	1
Selenium	0.000739	U	0.00500	0.000739	mg/L		02/12/24 13:23	02/13/24 13:26	1
Lithium	0.00129	U	0.00500	0.00129	mg/L		02/12/24 13:23	02/13/24 13:26	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.130	U	0.200	0.130	ug/L		02/12/24 09:29	02/12/24 13:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	**6.44**		4.00	4.00	mg/L			02/16/24 00:09	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**6.44**		4.00	4.00	mg/L			02/16/24 00:09	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/16/24 00:09	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/16/24 00:09	1
Total Dissolved Solids (SM 2540C)	**18.0**		5.00	5.00	mg/L			02/13/24 11:42	1

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 680-824345/1002
Matrix: Water
Analysis Batch: 824345

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	0.400	U	1.00	0.400	mg/L			02/24/24 14:01	1
Fluoride	0.0400	U	0.100	0.0400	mg/L			02/24/24 14:01	1
Chloride	0.200	U	0.500	0.200	mg/L			02/24/24 14:01	1

Lab Sample ID: LCS 680-824345/4
Matrix: Water
Analysis Batch: 824345

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	20.0	17.90	*-	mg/L		89	90 - 110
Fluoride	1.00	0.9582		mg/L		96	90 - 110
Chloride	5.00	4.770		mg/L		95	90 - 110

Lab Sample ID: LCSD 680-824345/5
Matrix: Water
Analysis Batch: 824345

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	20.0	17.29	*-	mg/L		86	90 - 110	3	15
Fluoride	1.00	0.9256		mg/L		93	90 - 110	3	15
Chloride	5.00	4.631		mg/L		93	90 - 110	3	15

Lab Sample ID: MB 680-824518/33
Matrix: Water
Analysis Batch: 824518

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	0.400	U	1.00	0.400	mg/L			02/23/24 20:04	1
Fluoride	0.0400	U	0.100	0.0400	mg/L			02/23/24 20:04	1
Chloride	0.200	U	0.500	0.200	mg/L			02/23/24 20:04	1

Lab Sample ID: LCS 680-824518/34
Matrix: Water
Analysis Batch: 824518

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	20.0	23.12	*+	mg/L		116	90 - 110
Fluoride	1.00	1.219	*+	mg/L		122	90 - 110
Chloride	5.00	6.182	*+	mg/L		124	90 - 110

Lab Sample ID: LCSD 680-824518/35
Matrix: Water
Analysis Batch: 824518

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	20.0	23.77	*+	mg/L		119	90 - 110	3	15
Fluoride	1.00	1.278	*+	mg/L		128	90 - 110	5	15
Chloride	5.00	6.301	*+	mg/L		126	90 - 110	2	15

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 860-67547-1 MS
Matrix: Water
Analysis Batch: 824518

Client Sample ID: EP-31
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	3300	*+ E	125	3396	E 4	mg/L		73	80 - 120
Fluoride	1.15	J *+	25.0	26.25		mg/L		100	80 - 120
Chloride	150	*+	125	288.0		mg/L		111	80 - 120

Lab Sample ID: 860-67547-1 MSD
Matrix: Water
Analysis Batch: 824518

Client Sample ID: EP-31
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	3300	*+ E	125	3246	E 4	mg/L		-47	80 - 120	5	15
Fluoride	1.15	J *+	25.0	25.34		mg/L		97	80 - 120	4	15
Chloride	150	*+	125	273.9		mg/L		99	80 - 120	5	15

Lab Sample ID: MB 680-824633/33
Matrix: Water
Analysis Batch: 824633

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	0.400	U	1.00	0.400	mg/L			02/26/24 18:13	1
Fluoride	0.0400	U	0.100	0.0400	mg/L			02/26/24 18:13	1
Chloride	0.200	U	0.500	0.200	mg/L			02/26/24 18:13	1

Lab Sample ID: LCS 680-824633/34
Matrix: Water
Analysis Batch: 824633

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	20.0	19.22		mg/L		96	90 - 110
Fluoride	1.00	1.002		mg/L		100	90 - 110
Chloride	5.00	5.144		mg/L		103	90 - 110

Lab Sample ID: LCSD 680-824633/35
Matrix: Water
Analysis Batch: 824633

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	20.0	20.24		mg/L		101	90 - 110	5	15
Fluoride	1.00	1.083		mg/L		108	90 - 110	8	15
Chloride	5.00	5.383		mg/L		108	90 - 110	5	15

Method: EPA 6020A - Metals (ICP/MS)

Lab Sample ID: MB 180-459433/1-A
Matrix: Water
Analysis Batch: 459602

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 459433

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.00314	U ^5+	0.0100	0.00314	mg/L		02/12/24 13:23	02/13/24 12:35	1
Beryllium	0.000274	U	0.00100	0.000274	mg/L		02/12/24 13:23	02/13/24 12:35	1
Calcium	0.127	U	0.500	0.127	mg/L		02/12/24 13:23	02/13/24 12:35	1

Method: EPA 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 180-459433/1-A
Matrix: Water
Analysis Batch: 459602

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 459433

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.000217	U ^5+	0.00100	0.000217	mg/L		02/12/24 13:23	02/13/24 12:35	1
Cobalt	0.000261	U	0.000500	0.000261	mg/L		02/12/24 13:23	02/13/24 12:35	1
Magnesium	0.0498	U	0.500	0.0498	mg/L		02/12/24 13:23	02/13/24 12:35	1
Molybdenum	0.000610	U	0.00500	0.000610	mg/L		02/12/24 13:23	02/13/24 12:35	1
Lead	0.000376	U	0.00100	0.000376	mg/L		02/12/24 13:23	02/13/24 12:35	1
Antimony	0.000967	U ^5+	0.00200	0.000967	mg/L		02/12/24 13:23	02/13/24 12:35	1
Thallium	0.000472	U	0.00100	0.000472	mg/L		02/12/24 13:23	02/13/24 12:35	1
Selenium	0.000739	U	0.00500	0.000739	mg/L		02/12/24 13:23	02/13/24 12:35	1

Lab Sample ID: MB 180-459433/1-A
Matrix: Water
Analysis Batch: 459743

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 459433

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.000282	U	0.00100	0.000282	mg/L		02/12/24 13:23	02/14/24 20:41	1
Sodium	0.184	U	0.500	0.184	mg/L		02/12/24 13:23	02/14/24 20:41	1

Lab Sample ID: MB 180-459433/1-A
Matrix: Water
Analysis Batch: 459841

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 459433

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	0.00153	U	0.00200	0.00153	mg/L		02/12/24 13:23	02/15/24 17:52	1

Lab Sample ID: MB 180-459433/1-A
Matrix: Water
Analysis Batch: 460074

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 459433

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.0601	U	0.0800	0.0601	mg/L		02/12/24 13:23	02/19/24 16:40	1

Lab Sample ID: LCS 180-459433/2-A
Matrix: Water
Analysis Batch: 459602

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 459433

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	1.00	0.9799	^5+	mg/L		98	80 - 120
Beryllium	0.500	0.4893		mg/L		98	80 - 120
Calcium	25.0	27.23		mg/L		109	80 - 120
Cadmium	0.500	0.4805	^5+	mg/L		96	80 - 120
Cobalt	0.500	0.4678		mg/L		94	80 - 120
Magnesium	25.0	23.59		mg/L		94	80 - 120
Molybdenum	0.500	0.4900		mg/L		98	80 - 120
Lead	0.500	0.4770		mg/L		95	80 - 120
Antimony	0.250	0.2812	^5+	mg/L		112	80 - 120
Thallium	1.00	0.9334		mg/L		93	80 - 120
Selenium	1.00	0.9681		mg/L		97	80 - 120

Method: EPA 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 180-459433/2-A
Matrix: Water
Analysis Batch: 459743

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 459433

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	1.00	1.063		mg/L		106	80 - 120
Sodium	25.0	25.05		mg/L		100	80 - 120

Lab Sample ID: LCS 180-459433/2-A
Matrix: Water
Analysis Batch: 459841

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 459433

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium	0.500	0.4945		mg/L		99	80 - 120

Lab Sample ID: LCS 180-459433/2-A
Matrix: Water
Analysis Batch: 460074

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 459433

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.25	1.367		mg/L		109	80 - 120

Lab Sample ID: 860-67547-1 MS
Matrix: Water
Analysis Batch: 459602

Client Sample ID: EP-31
Prep Type: Total Recoverable
Prep Batch: 459433

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	0.00554	J ^5+	1.00	0.9908	^5+	mg/L		99	75 - 125
Beryllium	0.0657	F2 F1	0.500	0.5577		mg/L		98	75 - 125
Calcium	445		25.0	474.5	4	mg/L		118	75 - 125
Cadmium	0.0133	^5+	0.500	0.4871	^5+	mg/L		95	75 - 125
Cobalt	0.103		0.500	0.5962		mg/L		99	75 - 125
Magnesium	38.8		25.0	59.11		mg/L		81	75 - 125
Molybdenum	0.000610	U	0.500	0.5376		mg/L		108	75 - 125
Lead	0.000420	J	0.500	0.4740		mg/L		95	75 - 125
Antimony	0.000967	U ^5+	0.250	0.2912	^5+	mg/L		116	75 - 125
Thallium	0.00245		1.00	0.9339		mg/L		93	75 - 125
Selenium	0.00804		1.00	1.084		mg/L		108	75 - 125
Lithium	0.600	F2 F1	0.500	1.060	E	mg/L		92	75 - 125

Lab Sample ID: 860-67547-1 MS
Matrix: Water
Analysis Batch: 459743

Client Sample ID: EP-31
Prep Type: Total Recoverable
Prep Batch: 459433

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.0270		1.00	1.104		mg/L		108	75 - 125

Lab Sample ID: 860-67547-1 MS
Matrix: Water
Analysis Batch: 459743

Client Sample ID: EP-31
Prep Type: Total Recoverable
Prep Batch: 459433

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sodium	892		25.0	882.1	4	mg/L		-39	75 - 125

Method: EPA 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 860-67547-1 MS — **Client Sample ID: EP-31**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 459841 — **Prep Batch: 459433**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium	0.00153	U	0.500	0.4676		mg/L		94	75 - 125

Lab Sample ID: 860-67547-1 MS — **Client Sample ID: EP-31**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 460074 — **Prep Batch: 459433**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	5.92		1.25	7.329	4	mg/L		113	75 - 125

Lab Sample ID: 860-67547-1 MSD — **Client Sample ID: EP-31**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 459602 — **Prep Batch: 459433**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Barium	0.00554	J ^5+	1.00	1.008	^5+	mg/L		100	75 - 125	2	20
Beryllium	0.0657	F2 F1	0.500	0.4374	F1 F2	mg/L		74	75 - 125	24	20
Calcium	445		25.0	482.7	4	mg/L		150	75 - 125	2	20
Cadmium	0.0133	^5+	0.500	0.4942	^5+	mg/L		96	75 - 125	1	20
Cobalt	0.103		0.500	0.6033		mg/L		100	75 - 125	1	20
Magnesium	38.8		25.0	65.36		mg/L		106	75 - 125	10	20
Molybdenum	0.000610	U	0.500	0.5315		mg/L		106	75 - 125	1	20
Lead	0.000420	J	0.500	0.4630		mg/L		93	75 - 125	2	20
Antimony	0.000967	U ^5+	0.250	0.3009	^5+	mg/L		120	75 - 125	3	20
Thallium	0.00245		1.00	0.9212		mg/L		92	75 - 125	1	20
Selenium	0.00804		1.00	1.037		mg/L		103	75 - 125	4	20
Lithium	0.600	F2 F1	0.500	0.8534	F1 F2	mg/L		51	75 - 125	22	20

Lab Sample ID: 860-67547-1 MSD — **Client Sample ID: EP-31**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 459743 — **Prep Batch: 459433**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	0.0270		1.00	1.103		mg/L		108	75 - 125	0	20

Lab Sample ID: 860-67547-1 MSD — **Client Sample ID: EP-31**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 459743 — **Prep Batch: 459433**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sodium	892		25.0	883.8	4	mg/L		-32	75 - 125	0	20

Lab Sample ID: 860-67547-1 MSD — **Client Sample ID: EP-31**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 459841 — **Prep Batch: 459433**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chromium	0.00153	U	0.500	0.4558		mg/L		91	75 - 125	3	20

Method: EPA 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 860-67547-1 MSD — **Client Sample ID: EP-31**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 460074 — **Prep Batch: 459433**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	5.92		1.25	7.178	4	mg/L		101	75 - 125	2	20

Method: EPA 7470A - Mercury (CVAA)

Lab Sample ID: MB 180-459410/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 459448 — **Prep Batch: 459410**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.130	U	0.200	0.130	ug/L		02/12/24 09:29	02/12/24 13:31	1

Lab Sample ID: LCS 180-459410/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 459448 — **Prep Batch: 459410**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	2.50	2.618		ug/L		105	80 - 120

Lab Sample ID: 860-67547-1 MS — **Client Sample ID: EP-31**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 459448 — **Prep Batch: 459410**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.130	U	1.00	1.019		ug/L		102	75 - 125

Lab Sample ID: 860-67547-1 MSD — **Client Sample ID: EP-31**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 459448 — **Prep Batch: 459410**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.130	U	1.00	1.009		ug/L		101	75 - 125	1	20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-145687/35 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 145687

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	4.00	U	4.00	4.00	mg/L			02/15/24 22:35	1
Bicarbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			02/15/24 22:35	1
Carbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			02/15/24 22:35	1
Hydroxide Alkalinity	4.00	U	4.00	4.00	mg/L			02/15/24 22:35	1

Lab Sample ID: MB 860-145687/4 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 145687

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	4.00	U	4.00	4.00	mg/L			02/15/24 18:29	1

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: MB 860-145687/4
Matrix: Water
Analysis Batch: 145687

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			02/15/24 18:29	1
Carbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			02/15/24 18:29	1
Hydroxide Alkalinity	4.00	U	4.00	4.00	mg/L			02/15/24 18:29	1

Lab Sample ID: MB 860-145687/66
Matrix: Water
Analysis Batch: 145687

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	4.00	U	4.00	4.00	mg/L			02/16/24 02:29	1
Bicarbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			02/16/24 02:29	1
Carbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			02/16/24 02:29	1
Hydroxide Alkalinity	4.00	U	4.00	4.00	mg/L			02/16/24 02:29	1

Lab Sample ID: LCS 860-145687/36
Matrix: Water
Analysis Batch: 145687

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity	250	257.8		mg/L		103	85 - 115

Lab Sample ID: LCS 860-145687/5
Matrix: Water
Analysis Batch: 145687

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity	250	260.7		mg/L		104	85 - 115

Lab Sample ID: LCS 860-145687/67
Matrix: Water
Analysis Batch: 145687

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity	250	259.9		mg/L		104	85 - 115

Lab Sample ID: LCSD 860-145687/37
Matrix: Water
Analysis Batch: 145687

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Alkalinity	250	262.9		mg/L		105	85 - 115	2	20

Lab Sample ID: LCSD 860-145687/6
Matrix: Water
Analysis Batch: 145687

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Alkalinity	250	262.8		mg/L		105	85 - 115	1	20

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: LCSD 860-145687/68
Matrix: Water
Analysis Batch: 145687

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Alkalinity			250	263.8		mg/L		106	85 - 115	1	20

Lab Sample ID: 860-67547-5 DU
Matrix: Water
Analysis Batch: 145687

Client Sample ID: EP-35
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Alkalinity	182			182.8		mg/L				0.4	20
Bicarbonate Alkalinity as CaCO3	182			182.8		mg/L				0.4	20
Carbonate Alkalinity as CaCO3	4.00	U		4.00	U	mg/L				NC	20
Hydroxide Alkalinity	4.00	U		4.00	U	mg/L				NC	20

Lab Sample ID: 860-67547-8 DU
Matrix: Water
Analysis Batch: 145687

Client Sample ID: EP-38
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Alkalinity	64.7	^2		66.04		mg/L				2	20
Bicarbonate Alkalinity as CaCO3	64.7	^2		66.04		mg/L				2	20
Carbonate Alkalinity as CaCO3	4.00	U		4.00	U	mg/L				NC	20
Hydroxide Alkalinity	4.00	U		4.00	U	mg/L				NC	20

Lab Sample ID: 860-67547-12 DU
Matrix: Water
Analysis Batch: 145687

Client Sample ID: EB-02
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Alkalinity	6.44			4.700	F5	mg/L				31	20
Bicarbonate Alkalinity as CaCO3	6.44			4.700	F5	mg/L				31	20
Carbonate Alkalinity as CaCO3	4.00	U		4.00	U	mg/L				NC	20
Hydroxide Alkalinity	4.00	U		4.00	U	mg/L				NC	20

Lab Sample ID: MB 860-145982/88
Matrix: Water
Analysis Batch: 145982

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	4.00	U	4.00	4.00	mg/L			02/16/24 23:36	1
Bicarbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			02/16/24 23:36	1
Carbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			02/16/24 23:36	1
Hydroxide Alkalinity	4.00	U	4.00	4.00	mg/L			02/16/24 23:36	1

Lab Sample ID: LCS 860-145982/89
Matrix: Water
Analysis Batch: 145982

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Alkalinity			250	267.7		mg/L		107	85 - 115		

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: LCSD 860-145982/90
Matrix: Water
Analysis Batch: 145982

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Alkalinity			250	269.3		mg/L		108	85 - 115	1	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 860-144996/1
Matrix: Water
Analysis Batch: 144996

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5.00	U	5.00	5.00	mg/L			02/12/24 17:51	1

Lab Sample ID: LCS 860-144996/2
Matrix: Water
Analysis Batch: 144996

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			1000	1009		mg/L		101	80 - 120		

Lab Sample ID: LCSD 860-144996/3
Matrix: Water
Analysis Batch: 144996

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids			1000	965.0		mg/L		97	80 - 120	4	10

Lab Sample ID: LLCS 860-144996/4
Matrix: Water
Analysis Batch: 144996

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

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			5.00	6.500		mg/L		130	50 - 150		

Lab Sample ID: MB 860-145108/1
Matrix: Water
Analysis Batch: 145108

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5.00	U	5.00	5.00	mg/L			02/13/24 11:42	1

Lab Sample ID: LCS 860-145108/2
Matrix: Water
Analysis Batch: 145108

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			1000	1002		mg/L		100	80 - 120		

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: LCSD 860-145108/3
Matrix: Water
Analysis Batch: 145108

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids			1000	1017		mg/L		102	80 - 120	1	10

Lab Sample ID: LLCS 860-145108/4
Matrix: Water
Analysis Batch: 145108

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

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			5.00	6.500		mg/L		130	50 - 150		

HPLC/IC

Analysis Batch: 824345

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-67547-1	EP-31	Total/NA	Water	300.0-1993 R2.1	
860-67547-9	MW-04	Total/NA	Water	300.0-1993 R2.1	
860-67547-10	DUP-03	Total/NA	Water	300.0-1993 R2.1	
860-67547-11	FB-03	Total/NA	Water	300.0-1993 R2.1	
MB 680-824345/1002	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 680-824345/4	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
LCSD 680-824345/5	Lab Control Sample Dup	Total/NA	Water	300.0-1993 R2.1	

Analysis Batch: 824518

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-67547-1	EP-31	Total/NA	Water	300.0-1993 R2.1	
860-67547-2	EP-32	Total/NA	Water	300.0-1993 R2.1	
860-67547-3	EP-33	Total/NA	Water	300.0-1993 R2.1	
860-67547-4	EP-34	Total/NA	Water	300.0-1993 R2.1	
860-67547-5	EP-35	Total/NA	Water	300.0-1993 R2.1	
860-67547-6	EP-36	Total/NA	Water	300.0-1993 R2.1	
860-67547-7	EP-37	Total/NA	Water	300.0-1993 R2.1	
860-67547-8	EP-38	Total/NA	Water	300.0-1993 R2.1	
MB 680-824518/33	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 680-824518/34	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
LCSD 680-824518/35	Lab Control Sample Dup	Total/NA	Water	300.0-1993 R2.1	
860-67547-1 MS	EP-31	Total/NA	Water	300.0-1993 R2.1	
860-67547-1 MSD	EP-31	Total/NA	Water	300.0-1993 R2.1	

Analysis Batch: 824633

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-67547-12	EB-02	Total/NA	Water	300.0-1993 R2.1	
MB 680-824633/33	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 680-824633/34	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
LCSD 680-824633/35	Lab Control Sample Dup	Total/NA	Water	300.0-1993 R2.1	

Metals

Prep Batch: 459410

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-67547-1	EP-31	Total/NA	Water	7470A	
860-67547-2	EP-32	Total/NA	Water	7470A	
860-67547-3	EP-33	Total/NA	Water	7470A	
860-67547-4	EP-34	Total/NA	Water	7470A	
860-67547-5	EP-35	Total/NA	Water	7470A	
860-67547-6	EP-36	Total/NA	Water	7470A	
860-67547-7	EP-37	Total/NA	Water	7470A	
860-67547-8	EP-38	Total/NA	Water	7470A	
860-67547-9	MW-04	Total/NA	Water	7470A	
860-67547-10	DUP-03	Total/NA	Water	7470A	
860-67547-11	FB-03	Total/NA	Water	7470A	
860-67547-12	EB-02	Total/NA	Water	7470A	
MB 180-459410/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-459410/2-A	Lab Control Sample	Total/NA	Water	7470A	
860-67547-1 MS	EP-31	Total/NA	Water	7470A	
860-67547-1 MSD	EP-31	Total/NA	Water	7470A	

Metals

Prep Batch: 459433

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-67547-1	EP-31	Total Recoverable	Water	3005A	
860-67547-2	EP-32	Total Recoverable	Water	3005A	
860-67547-3	EP-33	Total Recoverable	Water	3005A	
860-67547-4	EP-34	Total Recoverable	Water	3005A	
860-67547-5	EP-35	Total Recoverable	Water	3005A	
860-67547-6	EP-36	Total Recoverable	Water	3005A	
860-67547-7	EP-37	Total Recoverable	Water	3005A	
860-67547-8	EP-38	Total Recoverable	Water	3005A	
860-67547-9	MW-04	Total Recoverable	Water	3005A	
860-67547-10	DUP-03	Total Recoverable	Water	3005A	
860-67547-11	FB-03	Total Recoverable	Water	3005A	
860-67547-12	EB-02	Total Recoverable	Water	3005A	
MB 180-459433/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-459433/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
860-67547-1 MS	EP-31	Total Recoverable	Water	3005A	
860-67547-1 MSD	EP-31	Total Recoverable	Water	3005A	

Analysis Batch: 459448

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-67547-1	EP-31	Total/NA	Water	EPA 7470A	459410
860-67547-2	EP-32	Total/NA	Water	EPA 7470A	459410
860-67547-3	EP-33	Total/NA	Water	EPA 7470A	459410
860-67547-4	EP-34	Total/NA	Water	EPA 7470A	459410
860-67547-5	EP-35	Total/NA	Water	EPA 7470A	459410
860-67547-6	EP-36	Total/NA	Water	EPA 7470A	459410
860-67547-7	EP-37	Total/NA	Water	EPA 7470A	459410
860-67547-8	EP-38	Total/NA	Water	EPA 7470A	459410
860-67547-9	MW-04	Total/NA	Water	EPA 7470A	459410
860-67547-10	DUP-03	Total/NA	Water	EPA 7470A	459410
860-67547-11	FB-03	Total/NA	Water	EPA 7470A	459410
860-67547-12	EB-02	Total/NA	Water	EPA 7470A	459410
MB 180-459410/1-A	Method Blank	Total/NA	Water	EPA 7470A	459410
LCS 180-459410/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	459410
860-67547-1 MS	EP-31	Total/NA	Water	EPA 7470A	459410
860-67547-1 MSD	EP-31	Total/NA	Water	EPA 7470A	459410

Analysis Batch: 459602

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-67547-1	EP-31	Total Recoverable	Water	EPA 6020A	459433
860-67547-2	EP-32	Total Recoverable	Water	EPA 6020A	459433
860-67547-3	EP-33	Total Recoverable	Water	EPA 6020A	459433
860-67547-4	EP-34	Total Recoverable	Water	EPA 6020A	459433
860-67547-5	EP-35	Total Recoverable	Water	EPA 6020A	459433
860-67547-6	EP-36	Total Recoverable	Water	EPA 6020A	459433
860-67547-7	EP-37	Total Recoverable	Water	EPA 6020A	459433
860-67547-8	EP-38	Total Recoverable	Water	EPA 6020A	459433
860-67547-9	MW-04	Total Recoverable	Water	EPA 6020A	459433
860-67547-10	DUP-03	Total Recoverable	Water	EPA 6020A	459433
860-67547-11	FB-03	Total Recoverable	Water	EPA 6020A	459433
860-67547-12	EB-02	Total Recoverable	Water	EPA 6020A	459433
MB 180-459433/1-A	Method Blank	Total Recoverable	Water	EPA 6020A	459433

Metals (Continued)

Analysis Batch: 459602 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 180-459433/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020A	459433
860-67547-1 MS	EP-31	Total Recoverable	Water	EPA 6020A	459433
860-67547-1 MSD	EP-31	Total Recoverable	Water	EPA 6020A	459433

Analysis Batch: 459743

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-67547-1	EP-31	Total Recoverable	Water	EPA 6020A	459433
860-67547-1	EP-31	Total Recoverable	Water	EPA 6020A	459433
860-67547-2	EP-32	Total Recoverable	Water	EPA 6020A	459433
860-67547-2	EP-32	Total Recoverable	Water	EPA 6020A	459433
860-67547-3	EP-33	Total Recoverable	Water	EPA 6020A	459433
860-67547-3	EP-33	Total Recoverable	Water	EPA 6020A	459433
860-67547-4	EP-34	Total Recoverable	Water	EPA 6020A	459433
860-67547-5	EP-35	Total Recoverable	Water	EPA 6020A	459433
860-67547-5	EP-35	Total Recoverable	Water	EPA 6020A	459433
860-67547-6	EP-36	Total Recoverable	Water	EPA 6020A	459433
860-67547-6	EP-36	Total Recoverable	Water	EPA 6020A	459433
860-67547-7	EP-37	Total Recoverable	Water	EPA 6020A	459433
860-67547-7	EP-37	Total Recoverable	Water	EPA 6020A	459433
860-67547-8	EP-38	Total Recoverable	Water	EPA 6020A	459433
860-67547-8	EP-38	Total Recoverable	Water	EPA 6020A	459433
860-67547-9	MW-04	Total Recoverable	Water	EPA 6020A	459433
860-67547-9	MW-04	Total Recoverable	Water	EPA 6020A	459433
860-67547-10	DUP-03	Total Recoverable	Water	EPA 6020A	459433
860-67547-10	DUP-03	Total Recoverable	Water	EPA 6020A	459433
860-67547-11	FB-03	Total Recoverable	Water	EPA 6020A	459433
860-67547-12	EB-02	Total Recoverable	Water	EPA 6020A	459433
MB 180-459433/1-A	Method Blank	Total Recoverable	Water	EPA 6020A	459433
LCS 180-459433/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020A	459433
860-67547-1 MS	EP-31	Total Recoverable	Water	EPA 6020A	459433
860-67547-1 MS	EP-31	Total Recoverable	Water	EPA 6020A	459433
860-67547-1 MSD	EP-31	Total Recoverable	Water	EPA 6020A	459433
860-67547-1 MSD	EP-31	Total Recoverable	Water	EPA 6020A	459433

Analysis Batch: 459841

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-67547-1	EP-31	Total Recoverable	Water	EPA 6020A	459433
860-67547-2	EP-32	Total Recoverable	Water	EPA 6020A	459433
860-67547-3	EP-33	Total Recoverable	Water	EPA 6020A	459433
860-67547-4	EP-34	Total Recoverable	Water	EPA 6020A	459433
860-67547-4	EP-34	Total Recoverable	Water	EPA 6020A	459433
860-67547-5	EP-35	Total Recoverable	Water	EPA 6020A	459433
860-67547-6	EP-36	Total Recoverable	Water	EPA 6020A	459433
860-67547-7	EP-37	Total Recoverable	Water	EPA 6020A	459433
860-67547-8	EP-38	Total Recoverable	Water	EPA 6020A	459433
860-67547-9	MW-04	Total Recoverable	Water	EPA 6020A	459433
860-67547-10	DUP-03	Total Recoverable	Water	EPA 6020A	459433
860-67547-11	FB-03	Total Recoverable	Water	EPA 6020A	459433
860-67547-12	EB-02	Total Recoverable	Water	EPA 6020A	459433
MB 180-459433/1-A	Method Blank	Total Recoverable	Water	EPA 6020A	459433
LCS 180-459433/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020A	459433

Metals (Continued)

Analysis Batch: 459841 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-67547-1 MS	EP-31	Total Recoverable	Water	EPA 6020A	459433
860-67547-1 MSD	EP-31	Total Recoverable	Water	EPA 6020A	459433

Analysis Batch: 460074

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-67547-1	EP-31	Total Recoverable	Water	EPA 6020A	459433
860-67547-2	EP-32	Total Recoverable	Water	EPA 6020A	459433
860-67547-3	EP-33	Total Recoverable	Water	EPA 6020A	459433
860-67547-4	EP-34	Total Recoverable	Water	EPA 6020A	459433
860-67547-5	EP-35	Total Recoverable	Water	EPA 6020A	459433
860-67547-6	EP-36	Total Recoverable	Water	EPA 6020A	459433
860-67547-7	EP-37	Total Recoverable	Water	EPA 6020A	459433
860-67547-8	EP-38	Total Recoverable	Water	EPA 6020A	459433
860-67547-9	MW-04	Total Recoverable	Water	EPA 6020A	459433
860-67547-10	DUP-03	Total Recoverable	Water	EPA 6020A	459433
860-67547-11	FB-03	Total Recoverable	Water	EPA 6020A	459433
860-67547-12	EB-02	Total Recoverable	Water	EPA 6020A	459433
MB 180-459433/1-A	Method Blank	Total Recoverable	Water	EPA 6020A	459433
LCS 180-459433/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020A	459433
860-67547-1 MS	EP-31	Total Recoverable	Water	EPA 6020A	459433
860-67547-1 MSD	EP-31	Total Recoverable	Water	EPA 6020A	459433

Analysis Batch: 460212

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-67547-6	EP-36	Total Recoverable	Water	EPA 6020A	459433

General Chemistry

Analysis Batch: 144996

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-67547-1	EP-31	Total/NA	Water	SM 2540C	
860-67547-2	EP-32	Total/NA	Water	SM 2540C	
860-67547-3	EP-33	Total/NA	Water	SM 2540C	
860-67547-4	EP-34	Total/NA	Water	SM 2540C	
860-67547-5	EP-35	Total/NA	Water	SM 2540C	
860-67547-6	EP-36	Total/NA	Water	SM 2540C	
MB 860-144996/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-144996/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-144996/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
LLCS 860-144996/4	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 145108

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-67547-7	EP-37	Total/NA	Water	SM 2540C	
860-67547-8	EP-38	Total/NA	Water	SM 2540C	
860-67547-9	MW-04	Total/NA	Water	SM 2540C	
860-67547-10	DUP-03	Total/NA	Water	SM 2540C	
860-67547-11	FB-03	Total/NA	Water	SM 2540C	
860-67547-12	EB-02	Total/NA	Water	SM 2540C	
MB 860-145108/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-145108/2	Lab Control Sample	Total/NA	Water	SM 2540C	

General Chemistry (Continued)

Analysis Batch: 145108 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 860-145108/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
LLCS 860-145108/4	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 145687

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-67547-1	EP-31	Total/NA	Water	SM 2320B	
860-67547-2	EP-32	Total/NA	Water	SM 2320B	
860-67547-3	EP-33	Total/NA	Water	SM 2320B	
860-67547-4	EP-34	Total/NA	Water	SM 2320B	
860-67547-5	EP-35	Total/NA	Water	SM 2320B	
860-67547-6	EP-36	Total/NA	Water	SM 2320B	
860-67547-7	EP-37	Total/NA	Water	SM 2320B	
860-67547-8	EP-38	Total/NA	Water	SM 2320B	
860-67547-9	MW-04	Total/NA	Water	SM 2320B	
860-67547-10	DUP-03	Total/NA	Water	SM 2320B	
860-67547-11	FB-03	Total/NA	Water	SM 2320B	
860-67547-12	EB-02	Total/NA	Water	SM 2320B	
MB 860-145687/35	Method Blank	Total/NA	Water	SM 2320B	
MB 860-145687/4	Method Blank	Total/NA	Water	SM 2320B	
MB 860-145687/66	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-145687/36	Lab Control Sample	Total/NA	Water	SM 2320B	
LCS 860-145687/5	Lab Control Sample	Total/NA	Water	SM 2320B	
LCS 860-145687/67	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-145687/37	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
LCSD 860-145687/6	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
LCSD 860-145687/68	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
860-67547-5 DU	EP-35	Total/NA	Water	SM 2320B	
860-67547-8 DU	EP-38	Total/NA	Water	SM 2320B	
860-67547-12 DU	EB-02	Total/NA	Water	SM 2320B	

Analysis Batch: 145982

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-67547-2	EP-32	Total/NA	Water	SM 2320B	
860-67547-8	EP-38	Total/NA	Water	SM 2320B	
860-67547-9	MW-04	Total/NA	Water	SM 2320B	
MB 860-145982/88	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-145982/89	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-145982/90	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Client Sample ID: EP-31

Lab Sample ID: 860-67547-1

Date Collected: 02/07/24 12:40

Matrix: Water

Date Received: 02/08/24 10:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		25	5 mL	5 mL	824518	02/23/24 20:59	GE	EET SAV
Total/NA	Analysis	300.0-1993 R2.1		100	5 mL	5 mL	824345	02/24/24 14:46	GE	EET SAV
Total Recoverable	Prep	3005A			25 mL	25 mL	459433	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			459602	02/13/24 12:40	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459433	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			459743	02/14/24 20:51	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459433	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		5			459743	02/14/24 22:26	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459433	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			459841	02/15/24 18:02	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459433	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		10			460074	02/19/24 16:49	S1Z	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	459410	02/12/24 09:29	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			459448	02/12/24 13:33	RJR	EET PIT
Total/NA	Analysis	SM 2320B		1			145687	02/15/24 20:18	YG	EET HOU
Total/NA	Analysis	SM 2540C		1	25 mL	200 mL	144996	02/12/24 17:51	FN	EET HOU

Client Sample ID: EP-32

Lab Sample ID: 860-67547-2

Date Collected: 02/07/24 08:15

Matrix: Water

Date Received: 02/08/24 10:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		200	5 mL	5 mL	824518	02/23/24 21:33	GE	EET SAV
Total Recoverable	Prep	3005A			25 mL	25 mL	459433	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			459602	02/13/24 12:50	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459433	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			459743	02/14/24 21:11	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459433	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		5			459743	02/14/24 22:40	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459433	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			459841	02/15/24 18:09	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459433	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		10			460074	02/19/24 17:04	S1Z	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	459410	02/12/24 09:29	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			459448	02/12/24 13:36	RJR	EET PIT
Total/NA	Analysis	SM 2320B		1			145687	02/15/24 22:04	YG	EET HOU
Total/NA	Analysis	SM 2320B		1			145982	02/17/24 02:11	YG	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	144996	02/12/24 17:51	FN	EET HOU

Client Sample ID: EP-33

Lab Sample ID: 860-67547-3

Date Collected: 02/07/24 09:10

Matrix: Water

Date Received: 02/08/24 10:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		200	5 mL	5 mL	824518	02/23/24 21:44	GE	EET SAV
Total Recoverable	Prep	3005A			25 mL	25 mL	459433	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			459602	02/13/24 12:52	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459433	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			459743	02/14/24 21:16	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459433	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		5			459743	02/14/24 22:43	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459433	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			459841	02/15/24 18:11	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459433	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		20			460074	02/19/24 17:09	S1Z	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	459410	02/12/24 09:29	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			459448	02/12/24 13:37	RJR	EET PIT
Total/NA	Analysis	SM 2320B		1			145687	02/15/24 19:50	YG	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	144996	02/12/24 17:51	FN	EET HOU

Client Sample ID: EP-34

Lab Sample ID: 860-67547-4

Date Collected: 02/07/24 10:25

Matrix: Water

Date Received: 02/08/24 10:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		500	5 mL	5 mL	824518	02/23/24 21:55	GE	EET SAV
Total Recoverable	Prep	3005A			25 mL	25 mL	459433	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			459602	02/13/24 12:54	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459433	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			459743	02/14/24 21:21	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459433	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			459841	02/15/24 18:14	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459433	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		20			459841	02/15/24 19:13	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459433	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		20			460074	02/19/24 17:14	S1Z	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	459410	02/12/24 09:29	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			459448	02/12/24 13:38	RJR	EET PIT
Total/NA	Analysis	SM 2320B		1			145687	02/15/24 20:13	YG	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	144996	02/12/24 17:51	FN	EET HOU

Client Sample ID: EP-35

Lab Sample ID: 860-67547-5

Date Collected: 02/07/24 11:25

Matrix: Water

Date Received: 02/08/24 10:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		200	5 mL	5 mL	824518	02/23/24 22:06	GE	EET SAV

Client Sample ID: EP-35

Lab Sample ID: 860-67547-5

Date Collected: 02/07/24 11:25

Matrix: Water

Date Received: 02/08/24 10:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			25 mL	25 mL	459433	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			459602	02/13/24 13:09	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459433	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			459743	02/14/24 21:41	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459433	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		5			459743	02/14/24 22:48	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459433	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		20			459841	02/15/24 19:18	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459433	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		20			460074	02/19/24 17:47	S1Z	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	459410	02/12/24 09:29	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			459448	02/12/24 13:39	RJR	EET PIT
Total/NA	Analysis	SM 2320B		1			145687	02/15/24 18:54	YG	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	144996	02/12/24 17:51	FN	EET HOU

Client Sample ID: EP-36

Lab Sample ID: 860-67547-6

Date Collected: 02/07/24 12:30

Matrix: Water

Date Received: 02/08/24 10:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		200	5 mL	5 mL	824518	02/23/24 22:17	GE	EET SAV
Total Recoverable	Prep	3005A			25 mL	25 mL	459433	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			459602	02/13/24 13:12	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459433	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			459743	02/14/24 21:46	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459433	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		5			459743	02/14/24 22:50	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459433	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			459841	02/15/24 18:23	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459433	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		10			460074	02/19/24 17:27	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459433	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		20			460212	02/20/24 16:33	S1Z	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	459410	02/12/24 09:29	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			459448	02/12/24 13:40	RJR	EET PIT
Total/NA	Analysis	SM 2320B		1			145687	02/15/24 20:34	YG	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	144996	02/12/24 17:51	FN	EET HOU

Client Sample ID: EP-37

Lab Sample ID: 860-67547-7

Date Collected: 02/07/24 10:55

Matrix: Water

Date Received: 02/08/24 10:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		500	5 mL	5 mL	824518	02/23/24 22:28	GE	EET SAV

Client Sample ID: EP-37

Lab Sample ID: 860-67547-7

Date Collected: 02/07/24 10:55

Matrix: Water

Date Received: 02/08/24 10:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			25 mL	25 mL	459433	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			459602	02/13/24 13:14	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459433	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			459743	02/14/24 21:51	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459433	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		5			459743	02/14/24 22:53	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459433	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			459841	02/15/24 18:26	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459433	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		10			460074	02/19/24 17:32	S1Z	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	459410	02/12/24 09:29	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			459448	02/12/24 13:44	RJR	EET PIT
Total/NA	Analysis	SM 2320B		1			145687	02/16/24 01:20	YG	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	145108	02/13/24 11:42	YG	EET HOU

Client Sample ID: EP-38

Lab Sample ID: 860-67547-8

Date Collected: 02/07/24 09:20

Matrix: Water

Date Received: 02/08/24 10:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		100	5 mL	5 mL	824518	02/23/24 22:39	GE	EET SAV
Total Recoverable	Prep	3005A			25 mL	25 mL	459433	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			459602	02/13/24 13:16	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459433	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			459743	02/14/24 21:56	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459433	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		5			459743	02/14/24 22:55	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459433	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			459841	02/15/24 18:28	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459433	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		10			460074	02/19/24 17:37	S1Z	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	459410	02/12/24 09:29	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			459448	02/12/24 13:46	RJR	EET PIT
Total/NA	Analysis	SM 2320B		1			145687	02/15/24 22:59	YG	EET HOU
Total/NA	Analysis	SM 2320B		1			145982	02/17/24 02:03	YG	EET HOU
Total/NA	Analysis	SM 2540C		1	25 mL	200 mL	145108	02/13/24 11:42	YG	EET HOU

Client Sample ID: MW-04

Lab Sample ID: 860-67547-9

Date Collected: 02/07/24 10:05

Matrix: Water

Date Received: 02/08/24 10:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		200	5 mL	5 mL	824345	02/24/24 16:15	GE	EET SAV

Client Sample ID: MW-04

Lab Sample ID: 860-67547-9

Date Collected: 02/07/24 10:05

Matrix: Water

Date Received: 02/08/24 10:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			25 mL	25 mL	459433	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			459602	02/13/24 13:19	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459433	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			459743	02/14/24 22:01	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459433	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		5			459743	02/14/24 22:58	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459433	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			459841	02/15/24 18:31	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459433	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		10			460074	02/19/24 17:42	S1Z	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	459410	02/12/24 09:29	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			459448	02/12/24 13:47	RJR	EET PIT
Total/NA	Analysis	SM 2320B		1			145687	02/16/24 03:58	YG	EET HOU
Total/NA	Analysis	SM 2320B		1			145982	02/17/24 01:56	YG	EET HOU
Total/NA	Analysis	SM 2540C		1	25 mL	200 mL	145108	02/13/24 11:42	YG	EET HOU

Client Sample ID: DUP-03

Lab Sample ID: 860-67547-10

Date Collected: 02/07/24 09:00

Matrix: Water

Date Received: 02/08/24 10:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		200	5 mL	5 mL	824345	02/24/24 16:26	GE	EET SAV
Total Recoverable	Prep	3005A			25 mL	25 mL	459433	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			459602	02/13/24 13:21	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459433	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			459743	02/14/24 22:06	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459433	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		5			459743	02/14/24 23:00	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459433	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		20			459841	02/15/24 19:28	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459433	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		20			460074	02/19/24 17:52	S1Z	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	459410	02/12/24 09:29	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			459448	02/12/24 13:48	RJR	EET PIT
Total/NA	Analysis	SM 2320B		1			145687	02/16/24 01:05	YG	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	145108	02/13/24 11:42	YG	EET HOU

Client Sample ID: FB-03

Lab Sample ID: 860-67547-11

Date Collected: 02/07/24 12:55

Matrix: Water

Date Received: 02/08/24 10:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	824345	02/24/24 16:48	GE	EET SAV

Lab Chronicle

Client: GSI Environmental Inc
Project/Site: Equilization Pond

Job ID: 860-67547-1

Client Sample ID: FB-03

Lab Sample ID: 860-67547-11

Date Collected: 02/07/24 12:55

Matrix: Water

Date Received: 02/08/24 10:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			25 mL	25 mL	459433	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			459602	02/13/24 13:24	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459433	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			459743	02/14/24 22:11	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459433	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			459841	02/15/24 17:57	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459433	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			460074	02/19/24 17:56	S1Z	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	459410	02/12/24 09:29	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			459448	02/12/24 13:49	RJR	EET PIT
Total/NA	Analysis	SM 2320B		1			145687	02/16/24 01:42	YG	EET HOU
Total/NA	Analysis	SM 2540C		1	200 mL	200 mL	145108	02/13/24 11:42	YG	EET HOU

Client Sample ID: EB-02

Lab Sample ID: 860-67547-12

Date Collected: 02/07/24 10:25

Matrix: Water

Date Received: 02/08/24 10:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	2 mL	2 mL	824633	02/26/24 20:51	GE	EET SAV
Total Recoverable	Prep	3005A			25 mL	25 mL	459433	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			459602	02/13/24 13:26	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459433	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			459743	02/14/24 22:16	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459433	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			459841	02/15/24 17:59	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	459433	02/12/24 13:23	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			460074	02/19/24 18:01	S1Z	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	459410	02/12/24 09:29	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			459448	02/12/24 13:50	RJR	EET PIT
Total/NA	Analysis	SM 2320B		1			145687	02/16/24 00:09	YG	EET HOU
Total/NA	Analysis	SM 2540C		1	200 mL	200 mL	145108	02/13/24 11:42	YG	EET HOU

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

EET PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: GSI Environmental Inc
Project/Site: Equilization Pond

Job ID: 860-67547-1

Laboratory: Eurofins Houston

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215	02-20-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
SM 2320B		Water	Bicarbonate Alkalinity as CaCO3
SM 2320B		Water	Carbonate Alkalinity as CaCO3
SM 2320B		Water	Hydroxide Alkalinity

Laboratory: Eurofins Pittsburgh

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

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	06-27-24
California	State	2891	04-30-24
Connecticut	State	PH-0688	09-30-24
Florida	NELAP	E871008	06-30-24
Georgia	State	PA 02-00416	04-30-24
Illinois	NELAP	004375	06-30-24
Kansas	NELAP	E-10350	01-31-25
Kentucky (UST)	State	162013	04-30-23 *
Kentucky (WW)	State	KY98043	12-31-23 *
Louisiana	NELAP	04041	06-30-22 *
Louisiana (All)	NELAP	04041	06-30-24
Maine	State	PA00164	03-06-24
Minnesota	NELAP	042-999-482	12-31-24
New Hampshire	NELAP	2030	04-04-24
New Jersey	NELAP	PA005	06-30-24
New York	NELAP	11182	04-01-24
North Carolina (WW/SW)	State	434	12-31-24
North Dakota	State	R-227	04-30-24
Oregon	NELAP	PA-2151	02-06-24 *
Pennsylvania	NELAP	02-00416	04-30-24
Rhode Island	State	LAO00362	12-31-22 *
South Carolina	State	89014	04-30-25
Texas	NELAP	T104704528	03-31-24
US Fish & Wildlife	US Federal Programs	058448	03-31-24
USDA	US Federal Programs	P330-16-00211	04-11-26
Utah	NELAP	PA001462019-8	05-31-24
Virginia	NELAP	10043	07-14-24
West Virginia DEP	State	142	01-31-25
Wisconsin	State	998027800	08-31-24

Laboratory: Eurofins Savannah

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

Authority	Program	Identification Number	Expiration Date
	AFCEE	SAVLAB	
Alabama	State	41450	06-30-24
ANAB	Dept. of Defense ELAP	L2463	09-22-24
Arkansas (DW)	State	GA00006	06-30-24

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification Summary

Client: GSI Environmental Inc
Project/Site: Equilization Pond

Job ID: 860-67547-1

Laboratory: Eurofins Savannah (Continued)

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

Authority	Program	Identification Number	Expiration Date
California	State	2939	06-30-24
Florida	NELAP	E87052	06-30-24
Georgia	State	E87052	06-30-24
Georgia (DW)	State	803	06-30-24
Guam	State	19-007R	04-17-24
Hawaii	State	<cert No.>	06-30-24
Illinois	NELAP	200022	11-30-24
Indiana	State	C-GA-02	06-30-24
Iowa	State	353	07-01-25
Kentucky (UST)	State	NA	06-30-24
Louisiana	NELAP	30690	06-30-24
Louisiana (All)	NELAP	30690	06-30-24
Louisiana (DW)	State	LA009	12-31-24
Maine	State	GA00006	09-25-24
Maryland	State	250	12-31-24
Massachusetts	State	M-GA006	06-30-24
Michigan	State	9925	06-30-24
Mississippi	State	<cert No.>	06-30-24
Nebraska	State	NE-OS-7-04	06-30-24
New Jersey	NELAP	GA769	06-30-24
New Mexico	State	GA00006	06-30-24
North Carolina (DW)	State	13701	07-31-24
North Carolina (WW/SW)	State	269	12-31-24
Pennsylvania	NELAP	68-00474	06-30-24
Puerto Rico	State	GA00006	01-01-25
South Carolina	State	98001	06-30-24
Tennessee	State	TN02961	06-30-24
Texas	NELAP	T1047004185	11-30-24
Texas	TCEQ Water Supply	T104704185	06-30-24
USDA	US Federal Programs	P330-18-00313	09-03-24
Virginia	NELAP	460161	06-14-24
Wyoming	State	8TMS-L	06-30-24

Method Summary

Client: GSI Environmental Inc
Project/Site: Equilization Pond

Job ID: 860-67547-1

Method	Method Description	Protocol	Laboratory
300.0-1993 R2.1	Anions, Ion Chromatography	MCAWW	EET SAV
EPA 6020A	Metals (ICP/MS)	SW846	EET PIT
EPA 7470A	Mercury (CVAA)	SW846	EET PIT
SM 2320B	Alkalinity	SM	EET HOU
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET HOU
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET PIT
7470A	Preparation, Mercury	SW846	EET PIT

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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 HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

EET PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Sample Summary

Client: GSI Environmental Inc
Project/Site: Equilization Pond

Job ID: 860-67547-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-67547-1	EP-31	Water	02/07/24 12:40	02/08/24 10:24
860-67547-2	EP-32	Water	02/07/24 08:15	02/08/24 10:24
860-67547-3	EP-33	Water	02/07/24 09:10	02/08/24 10:24
860-67547-4	EP-34	Water	02/07/24 10:25	02/08/24 10:24
860-67547-5	EP-35	Water	02/07/24 11:25	02/08/24 10:24
860-67547-6	EP-36	Water	02/07/24 12:30	02/08/24 10:24
860-67547-7	EP-37	Water	02/07/24 10:55	02/08/24 10:24
860-67547-8	EP-38	Water	02/07/24 09:20	02/08/24 10:24
860-67547-9	MW-04	Water	02/07/24 10:05	02/08/24 10:24
860-67547-10	DUP-03	Water	02/07/24 09:00	02/08/24 10:24
860-67547-11	FB-03	Water	02/07/24 12:55	02/08/24 10:24
860-67547-12	EB-02	Water	02/07/24 10:25	02/08/24 10:24

Eurofins Xenco, Stafford
4147 Greenbriar Dr
Stafford TX 77477
Phone (281) 240-4200

Chain of Custody Record

eurofins

Client Information	Sampler: Scott Ude + HMI Team	Lab PM: Kudchadkar Sachin G	Carrier Tracking No(s):	COC No: 860-3614-1220.1
Client Contact: Mike Schofield	Phone: 832-347-4521	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: TX	Page: Page 1 of 2
Company: GSI Environmental, Inc	PWSID:			Job #:
Address: 9600 Great Hills Trail Suite 350E	Due Date Requested:			
City: Austin	TAT Requested (days):			
State, Zip: TX, 78759	Compliance Project: Δ Yes Δ No			
Phone: 512-346-4474(Tel) 512-346-4476(Fax)	PO #:			
Email: mlschofield@gsi-net.com	WO #:			
Project Name: San Miguel Electrical Co-Op GW	Project #: 86001746			
Site: Equalization Pond	SSOW#:			

Analysis Requested

Preservation Codes:

A	HCL	M	Hexane
B	NaOH	N	None
C	Zn Acetate	O	AsNaO2
D	Nitric Acid	P	Na2O4S
E	NaHSO4	Q	Na2SO3
F	MeOH	R	Na2S2O3
G	Amchlor	S	H2SO4
H	Ascorbic Acid	T	TSP Dodecahydrate
I	Ice	U	Acetone
J	DI Water	V	MCAA
K	EDTA	W	pH 4-5
L	EDA	Z	other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2320B, Alkalinity	6020A -7470- B, Ca,Sb, As Ba, Be, Cd, Cr Co, Pb, Li, Mo, Se, Ti;Hg- Eurofins Pittsburg + Na, Mg	2540C_TDS	300- Cl, F, SO4	901 1_Ra- Rad 228 Eurofins St Louis	SM7600_Ra_B Rad 226- South Bend IN	0 MS/MSD Vol provided	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	D	N	N	D	D			
EP-31	2-7-24	1240	G	Water		Y	✓	✓	✓	✓	✓	✓			
EP-32		815		Water			✓	✓	✓	✓	✓	✓			
EP-33		910		Water			✓	✓	✓	✓	✓	✓			
EP-34		1025		Water			✓	✓	✓	✓	✓	✓			
EP-35		1125		Water			✓	✓	✓	✓	✓	✓			
EP-36		1230		Water			✓	✓	✓	✓	✓	✓			
EP-37		1055		Water			✓	✓	✓	✓	✓	✓			
EP-38		920		Water			✓	✓	✓	✓	✓	✓			
MW-04		1005		Water			✓	✓	✓	✓	✓	✓			
				Water											
				Water											

860-67547 Chain of Custody

Temp. 4.0 IR ID HOU-369
C/F -0.0
Corrected Temp: 4.0
Temp. 2.0 IR ID HOU-369
C/F -0.0
Corrected Temp: 2.0
Temp: 1.5 IR ID HOU-369
C/F -0.0
Corrected Temp: 1.5
Temp. 3.1 IR ID:HOU-369
C/F -0.0
Corrected Temp. 3.1

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be a
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
are retained longer than 1 mo

Deliverable Requested: I II III IV Other (specify)

Special Instructions/QC Requirements.

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: Cons. Drop off

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	2-8-24 1024	HMI			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 2.8.24 1024	Company E

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks:

Ver 01/16/2019

3/6/2024

Eurofins Xenco, Stafford
4147 Greenbriar Dr
Stafford, TX 77477
Phone (281) 240-4200

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: Scott Wade + HMI Team	Lab PM: Kudchadkar Sachin G	Carrier Tracking No(s):	COC No: 860-3614-1220 1
Client Contact: Mike Schofield	Phone: 832-347-4521	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: TX	Page: Page 2 of 2
Company: GSI Environmental, Inc	PWSID:			Job #:
Address: 9600 Great Hills Trail Suite 350E	Due Date Requested:			
City: Austin	TAT Requested (days):			
State, Zip: TX, 78759	Compliance Project: Δ Yes Δ No			
Phone: 512-346-4474(Tel) 512-346-4476(Fax)	PO #:			
Email: mlschofield@gsi-net.com	WO #:			
Project Name: San Miguel Electrical Co-Op GW	Project #: 86001746			
Site: Equilization Pond	SSOW#:			

Analysis Requested

Preservation Codes:

A	HCL	M	Hexane
B	NaOH	N	None
C	Zn Acetate	O	AsNaO2
D	Nitric Acid	P	Na2O4S
E	NaHSO4	Q	Na2SO3
F	MeOH	R	Na2S2O3
G	Amchlor	S	H2SO4
H	Ascorbic Acid	T	TSP Dodecahydrate
I	Ice	U	Acetone
J	DI Water	V	MCAA
K	EDTA	W	pH 4-5
L	EDA	Z	other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oi BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2320B, Alkalinity	6020A -7470- B, Ca,Sb, As, Ba, Be, Cd, Cr Co, Pb, Li, Mo, Se, Tl;Hg- Eurofins Pittsburg + Na, Mg	2540C_TDS	300- Cl, F, SO4	901 1_Ra- Rad 228 Eurofins St Louis	SM7500_Ra_B Rad 226- South Bend IN	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	D	N	N	D	D		
DUP-03	2-7-24	900	G	Water			✓	✓	✓	✓	✓	✓		
FB-03	↓	1255	↓	Water			✓	✓	✓	✓	✓	✓		
EB-02	↓	1025	↓	Water			✓	✓	✓	✓	✓	✓		
				Water										
				Water										
				Water										
				Water										
				Water										
				Water										
				Water										
				Water										

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I II III IV Other (specify)

Special Instructions/QC Requirements.

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: Courier Dropoff

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Scott Wade	2-8-24 1024	HMI			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 2 8 24 1024	Company E

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks.

Ver: 01/16/2019

3/6/2024

ORIGIN ID:SGRA (281) 240-4200
ADMINISTRATIVE OFFICES
XENCO HOUSTON
4145 GREENBRIAR DR

STAFFORD, TX 77477
UNITED STATES US

SHIP DATE: 08FEB24
ACTWGT: 10.00 LB
CAD: 110189707/INET4700

BILL SENDER

TO SHIPPING AND RECEIVING
EUROFINS TEST AMERICA, PITTSBURGH
301 ALPHA DRIVE RIDC PARK

PITTSBURGH PA 15238
(412) 963-7058 REF
INV
PO DEPT

583J5/EC2B9AE3

Uncorrected temp
Thermometer ID 1.8 21
CF 0.0 Initials RB
PT-WI-SR-001 effective 11/8/18

FedEx Express

J241024011001uv

FRI - 09 FEB 10:30A
PRIORITY OVERNIGHT

TRK# 0201 7751 2496 3670

NX AGCA

15238
PA-US PIT

ORIGIN ID:SGRA (281) 240-4200
ADMINISTRATIVE OFFICES
XENCO HOUSTON
4145 GREENBRIAR DR

STAFFORD, TX 77477
UNITED STATES US

SHIP DATE: 08FEB24
ACTWGT: 10.00 LB
CAD: 110189707/INET4700

BILL SENDER

TO SHIPPING AND RECEIVING
EUROFINS TEST AMERICA, PITTSBURGH
301 ALPHA DRIVE RIDC PARK

PITTSBURGH PA 15238
(412) 963-7058 REF
INV
PO DEPT

583J5/EC2B9AE3

Uncorrected temp
Thermometer ID 4.9 21
CF 0.0 Initials RB
PT-WI-SR-001 effective 11/8/18

FedEx Express

J241024011001uv

FRI - 09 FEB 10:30A
PRIORITY OVERNIGHT

TRK# 0201 7751 2562 2770

NX AGCA

15238
PA-US PIT

860-67547 Waybill

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone 281-240-4200

Chain of Custody Record

eurofins

Client Information (Sub Contract Lab)	Sampler	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s)	COC No: 860-94989 1
Client Contact: Shipping/Receiving	Phone	E-Mail: Sachin.Kudchadkar@et.eurofinsus.com	State of Origin: Texas	Page: Page 1 of 2
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): NELAP - Texas		Job #: 860-67547-1
Address: 301 Alpha Drive, RIDC Park,	Due Date Requested: 3/4/2024			
City: Pittsburgh	TAT Requested (days):			
State, Zip: PA, 15238				
Phone: 412-963-7058(Tel) 412-963-2468(Fax)	PO #:			
Email	WO #:			
Project Name: San Miguel Electrical Co-Op 2H23 GW	Project #: 86001746			
Site	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

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)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020A/3005A (MOD) Custom List	7470A/7470A_Prep	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
EP-31 (860-67547-1)	2/7/24	12 40 Central		Water			X	X	1	Please analyze at the lowest possible dilution
EP-31 (860-67547-1MS)	2/7/24	12 40 Central	MS	Water			X	X	1	Please analyze at the lowest possible dilution
EP-31 (860-67547-1MSD)	2/7/24	12 40 Central	MSD	Water			X	X	1	Please analyze at the lowest possible dilution
EP-32 (860-67547-2)	2/7/24	08 15 Central		Water			X	X	1	Please analyze at the lowest possible dilution
EP-33 (860-67547-3)	2/7/24	09 10 Central		Water			X	X	1	Please analyze at the lowest possible dilution
EP-34 (860-67547-4)	2/7/24	10 25 Central		Water			X	X	1	Please analyze at the lowest possible dilution
EP-35 (860-67547-5)	2/7/24	11 25 Central		Water			X	X	1	Please analyze at the lowest possible dilution
EP-36 (860-67547-6)	2/7/24	12 30 Central		Water			X	X	1	Please analyze at the lowest possible dilution
EP-37 (860-67547-7)	2/7/24	10 55 Central		Water			X	X	1	Please analyze at the lowest possible dilution

860-67547 Chain of Custody

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) — Primary Deliverable Rank: 2	Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		2/8/24			2/9/24 0930	
2		Date/Time	Company	Received by	Date/Time	Company
3		Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks

Ver 06/08/2021

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone 281-240-4200

Chain of Custody Record

eurofins

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-94989 2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@et.eurofinsus.com	State of Origin: Texas	Page: Page 2 of 2
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): NELAP - Texas		Job #: 860-67547-1
Address: 301 Alpha Drive, RIDC Park,	Due Date Requested: 3/4/2024			
City: Pittsburgh	TAT Requested (days):			
State, Zip: PA, 15238				
Phone: 412-963-7058(Tel) 412-963-2468(Fax)	PO #:			
Email:	WO #:			
Project Name: San Miguel Electrical Co-Op 2H23 GW	Project #: 86001746			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

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)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020A/3005A (MOD) Custom List	7470A/7470A_Prep	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
EP-38 (860-67547-8)	2/7/24	09 20 Central		Water			X	X	1	Please analyze at the lowest possible dilution
MW-04 (860-67547-9)	2/7/24	10 05 Central		Water			X	X	1	Please analyze at the lowest possible dilution
DUP-03 (860-67547-10)	2/7/24	09 00 Central		Water			X	X	1	Please analyze at the lowest possible dilution
FB-03 (860-67547-11)	2/7/24	12 55 Central		Water			X	X	1	Please analyze at the lowest possible dilution
EB-02 (860-67547-12)	2/7/24	10 25 Central		Water			X	X	1	Please analyze at the lowest possible dilution

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification: Unconfirmed	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) — Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	2/8/24		[signature]	2/9/24 0930	[illegible]
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-96612.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@et.eurofinsus.com	State of Origin: Texas	Page: Page 1 of 2
Company: Eurofins Environment Testing Southeast,		Accreditations Required (See note): NELAP - Texas		Job #: 860-67547-1
Address: 5102 LaRoche Avenue,	Due Date Requested: 2/15/2024			
City: Savannah	TAT Requested (days):			
State, Zip: GA, 31404				
Phone: 912-354-7858(Tel) 912-352-0165(Fax)	PO #:			
Email:	WO #:			
Project Name: Equilization Pond	Project #: 86001746			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

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)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D/ (MOD) Any Three Anions	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
EP-31 (860-67547-1)	2/7/24	12:40 Central		Water			X	1	
EP-31 (860-67547-1MS)	2/7/24	12:40 Central	MS	Water			X	1	
EP-31 (860-67547-1MSD)	2/7/24	12:40 Central	MSD	Water			X	1	
EP-32 (860-67547-2)	2/7/24	08:15 Central		Water			X	1	
EP-33 (860-67547-3)	2/7/24	09:10 Central		Water			X	1	
EP-34 (860-67547-4)	2/7/24	10:25 Central		Water			X	1	
EP-35 (860-67547-5)	2/7/24	11:25 Central		Water			X	1	
EP-36 (860-67547-6)	2/7/24	12:30 Central		Water			X	1	
EP-37 (860-67547-7)	2/7/24	10:55 Central		Water			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	2-16-24 1800				
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: C. Mma	Date/Time: 2/17/24 0852	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.3/1.3

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-96612.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@et.eurofinsus.com	State of Origin: Texas	Page: Page 2 of 2
Company: Eurofins Environment Testing Southeast,		Accreditations Required (See note): NELAP - Texas		Job #: 860-67547-1
Address: 5102 LaRoche Avenue, ,	Due Date Requested: 2/15/2024			
City: Savannah	TAT Requested (days):			
State, Zip: GA, 31404				
Phone: 912-354-7858(Tel) 912-352-0165(Fax)	PO #:			
Email:	WO #:			
Project Name: Equilization Pond	Project #: 86001746			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

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)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D/ (MOD) Any Three Anions	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
EP-38 (860-67547-8)	2/7/24	09:20 Central		Water			X	1	
MW-04 (860-67547-9)	2/7/24	10:05 Central		Water			X	1	
DUP-03 (860-67547-10)	2/7/24	09:00 Central		Water			X	1	
FB-03 (860-67547-11)	2/7/24	12:55 Central		Water			X	1	
EB-02 (860-67547-12)	2/7/24	10:25 Central		Water			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 2-16-24 1900	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: C. Mus	Date/Time: 2/17/24 0952	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1-3/1.3

Login Sample Receipt Checklist

Client: GSI Environmental Inc

Job Number: 860-67547-1

Login Number: 67547

List Source: Eurofins Houston

List Number: 1

Creator: Torrez, Lisandra

Question	Answer	Comment
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	

Login Sample Receipt Checklist

Client: GSI Environmental Inc

Job Number: 860-67547-1

Login Number: 67547
List Number: 3
Creator: Mullins, Plumm A

List Source: Eurofins Pittsburgh
List Creation: 02/09/24 04:47 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are 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?	N/A	
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	

Login Sample Receipt Checklist

Client: GSI Environmental Inc

Job Number: 860-67547-1

Login Number: 67547
List Number: 5
Creator: Munro, Caroline

List Source: Eurofins Savannah
List Creation: 02/17/24 01:20 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are 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 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.	N/A	
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").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

GSI ENVIRONMENTAL

DATA USABILITY SUMMARY

February 2024 Sampling Event (Job ID: 860-67547-2)

OVERVIEW

GSI Environmental Inc. (GSI) reviewed one data package from Eurofins Houston located in Stafford, Texas (EET HOU) for the analysis of **twelve groundwater samples collected at the Equalization Pond on 7 February 2024**[1] at the San Miguel Electric Cooperative, Inc., Christine, Atascosa County, Texas site. Data were reviewed for i) conformance to the requirements of the guidance document *Review and Reporting of COC Concentration Data* (RG-366/TRRP-13) and ii) adherence to project objectives (e.g., GSI 2019). The Radium-228 analyses were conducted by Eurofins St. Louis, Missouri (EET SL) laboratory, while the Radium-226 analyses were conducted by the Eurofins South Bend, Indiana (EA SB) laboratory. GSI certifies that at the time the laboratory data were generated for the project, EET SL and EA SB were National Environmental Laboratory Accreditation Program (NELAP)-accredited under the Texas Laboratory Accreditation Program (Certification Number: T104704193 and T104704187 respectively) for the matrices, analytes, and methods of analysis requested on the chain-of-custody documentation. A copy of EET SL and EA SB's NELAP certificates applicable to the period during which the laboratory generated the data in this report is included as Attachment A.

Intended Use of Data

Samples were collected to provide current data on groundwater conditions at the test location. Analyses requested included:

- Method 904.0 – Radium-228 (GFPC)
- Method SM7500 Ra B – Radium-226

Data were reviewed and validated, as described in *Review and Reporting of COC Concentration Data* (RG-366/TRRP-13), and the results are discussed in this Data Usability Summary (DUS). The following laboratory submittals and field data were examined:

- the reportable data (i.e., results provided in the laboratory data package),
- the laboratory review checklists and associated exception reports, and
- the field notes with respect to field instrument calibrations, filtering procedures (if applicable), and sampling procedures.

The results of supporting quality control (QC) analyses were summarized in the laboratory case narrative (LCN), which was included in this review. The case narrative and reportable data included in this review are attached to this DUS as Attachment B.

[1] Nine samples plus one field duplicate, one field blank, and one equipment blank.

INTRODUCTION

Twelve (12) water samples were submitted to the laboratory, and all requested analyses were completed. Table 1 lists the sample identifications cross-referenced to laboratory identifications.

PROJECT MEASUREMENT QUALITY OBJECTIVES

The following criteria were used in this review:

	MS/MSD		LCS	Field Precision
Analytes	% R	RER	% R	RPD
Radium-228	60 – 140	1	75 – 125	≤ 30%
Radium-226	80 – 120	1	90 – 110	≤ 30%

DATA REVIEW / VALIDATION RESULTS

Analytical Results

Results from these samples may be considered usable with the limitations and exceptions described in this section. Sample data qualified as a result of this DUS, if any, are listed in Table 3. Non-detected results are reported as less than the value of the method detection limit (MDL). Results between the MDL and reporting limit (RL) are J-flagged.

Finding: All requested analyses were completed, and results were reported as requested.

Preservation and Holding Times

The samples were evaluated for agreement with the chain-of-custody (C-O-C). The samples were received by the laboratory in the appropriate containers and in good condition, with proper completion of the C-O-C documentation. Samples receipt temperature was within the acceptance criteria, and field preservation was done as specified in the Sampling and Analysis Plan [SAP] (GSI, 2019). Samples were prepared and analyzed within method-specified holding times, with exceptions noted below. Items related to the C-O-C are also listed below.

- The sample identified as DUP-03 on the C-O-C is a field duplicate of sample EP-33.

Finding: No qualifiers were added per this evaluation.

Calibrations

The LCN and lab report did not indicate any issues with the laboratory calibrations.

Finding: No qualifiers were added per this evaluation.

Blanks

Method (Laboratory) Blanks

The LCN and lab report did not indicate any issues with the laboratory blanks.

Field Blanks

The following issues were noted with the blank collected in the field:

- Radium-228 was detected in the Field Blank at concentrations above the MDL. The field blank sample (FB-03) consists of distilled water that is exposed to ambient air on the day of sample collection. Field samples that contained concentrations of Radium-228 greater than 5X the associated equipment blank concentration did not require qualifiers. Field samples EP-31, EP-32, EP-33, EP-35, EP-36, EP-38, MW-04 and DUP-03 contained concentrations of Radium-228 less than 5X the associated equipment blank concentration and received qualifiers.

Finding: "JH" flags were added to samples EP-31, EP-32, EP-33, EP-35, EP-36, EP-38, MW-04 and DUP-03 per this evaluation.

Internal Standard and Surrogate Recoveries (VOCs and SVOCs Only)

Not applicable.

Laboratory Control Samples

The Laboratory Control Sample (LCS) recoveries were within the project-defined QC acceptance criteria.

Finding: No qualifiers were added per this evaluation.

Matrix Spike/Matrix Spike Duplicates and Laboratory Duplicates

The matrix spike (MS)/matrix spike duplicate (MSD) recoveries were within the project-defined QC acceptance criteria.

Finding: No qualifiers were added per this evaluation.

Field Duplicates (Field Precision)

One field duplicate, identified as DUP-03, was collected with sample EP-33. Results indicate that, RPDs between the parent and duplicate sample results were less than the TCEQ-recommended maximum of 40% (organics) or 30% (metals) for concentrations greater than five times the MQL, or the difference between concentrations was less than twice the MQL for analytes with concentrations less than five times the MQL. A comparison of the field sample and the duplicate sample are shown in Table 2.

Finding: No qualifiers were added per this evaluation.

Field Procedures

Sample collection and documentation was done in accordance with the Groundwater Sampling and Analysis Plan (SAP; GSI, 2019).

Finding: Field activities were consistent with the SAP.

SUMMARY

The analytical data are usable for the purpose of characterizing groundwater conditions. In addition, qualifiers were added based on this review and evaluation (see Table 3).

REFERENCES

GSI Environmental, Inc., 2019, Groundwater Sampling and Analysis Plan, San Miguel Electric Cooperative, Inc., December 26.

TCEQ 2010. Review and Reporting of COC Concentration Data under TRRP, RG-366/TRRP-13 https://www.tceq.texas.gov/assets/public/comm_exec/pubs/rg/rg-366-trrp-13.pdf

TABLES

TABLE 1
Cross-Reference Field Sample and Laboratory Identifications

Sample Date	Lab	Lab Sample ID	Field Sample ID	Matrix
02/07/2024	EET SL/EA SB	860-67547-1	EP-31	Water
02/07/2024	EET SL/EA SB	860-67547-2	EP-32	Water
02/07/2024	EET SL/EA SB	860-67547-3	EP-33	Water
02/07/2024	EET SL/EA SB	860-67547-4	EP-34	Water
02/07/2024	EET SL/EA SB	860-67547-5	EP-35	Water
02/07/2024	EET SL/EA SB	860-67547-6	EP-36	Water
02/07/2024	EET SL/EA SB	860-67547-7	EP-37	Water
02/07/2024	EET SL/EA SB	860-67547-8	EP-38	Water
02/07/2024	EET SL/EA SB	860-67547-9	MW-04	Water
02/07/2024	EET SL/EA SB	860-67547-10	DUP-03	Water
02/07/2024	EET SL/EA SB	860-67547-11	FB-03	Water
02/07/2024	EET SL/EA SB	860-67547-12	EB-02	Water

Notes:
1. EET SL: Eurofins St. Louis, Earth City, Missouri; EA SB: Eurofins Eaton South Bend, South Bend, Indiana

TABLE 2
Field Duplicate Detections

Analyte	MDL (mg/L)	Primary Sample Result (pCi/L)	Field Duplicate Result (pCi/L)	Relative Percent Difference (RPD)
Radium-228	0.800	2.71	2.19	21.2
Radium-226	0.440	1.21	1.22	0.8

Notes:
1. MDL: Method Detection Limit
2. pCi/L: picocuries per liter
3. RPD = ABS(PR-FD)/AVERAGE(PR+FD)*100), where PR is the Primary Sample and FD is the Field Duplicate, where the MDL is substituted for results below detection.

TABLE 3
Qualifiers Added During Data Usability Review

Sample ID	Analyte	Lab Result	Unit	DUS Qualifier or Bias Code	Reason for Qualification	Analysis Batch Number	Report Number
EP-31	Radium-228	2.08	pCi/L	JH	<5X equipment blank	648924	860-67547-2
EP-32	Radium-228	3.38	pCi/L	JH	<5X equipment blank	648922	860-67547-2
EP-33	Radium-228	2.71	pCi/L	JH	<5X equipment blank	648922	860-67547-2
EP-35	Radium-228	1.78	pCi/L	JH	<5X equipment blank	648922	860-67547-2
EP-36	Radium-228	3.52	pCi/L	JH	<5X equipment blank	648922	860-67547-2
EP-38	Radium-228	1.45	pCi/L	JH	<5X equipment blank	648922	860-67547-2
MW-04	Radium-228	2.09	pCi/L	JH	<5X equipment blank	648922	860-67547-2
DUP-03	Radium-228	2.19	pCi/L	JH	<5X equipment blank	648922	860-67547-2

Notes:
1. pCi/L: picocuries per liter.
2. JH: estimated value, biased high

Attachment A

TCEQ NELAP-Recognized Laboratory Accreditation Certificates

Texas Commission on Environmental Quality

NELAP-Recognized Laboratory Accreditation is hereby awarded to

Eurofins St. Louis

13715 Rider Trail North
Earth City, MO 63045-1205

in accordance with Texas Water Code Chapter 5, Subchapter R, Title 30 Texas Administrative Code Chapter 25, and the National Environmental Laboratory Accreditation Program.

The laboratory's scope of accreditation includes the fields of accreditation that accompany this certificate. Continued accreditation depends upon successful ongoing participation in the program. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current location(s) and accreditation status for particular methods and analyses (www.tceq.texas.gov/goto/lab). Accreditation does not imply that a product, process, system or person is approved by the Texas Commission on Environmental Quality.

Erin E. Chancellor

Executive Director Texas Commission on Environmental Quality

Certificate Number: T104704193-23-22
Effective Date: 8/1/2023
Expiration Date: 7/31/2024

Texas Commission on Environmental Quality

NELAP-Recognized Laboratory Accreditation is hereby awarded to

Eurofins Eaton Analytical, LLC - South Bend

110 South Hill Street
South Bend, IN 46617-2702

in accordance with Texas Water Code Chapter 5, Subchapter R, Title 30 Texas Administrative Code Chapter 25, and the National Environmental Laboratory Accreditation Program.

The laboratory's scope of accreditation includes the fields of accreditation that accompany this certificate. Continued accreditation depends upon successful ongoing participation in the program. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current location(s) and accreditation status for particular methods and analyses (www.tceq.texas.gov/goto/lab). Accreditation does not imply that a product, process, system or person is approved by the Texas Commission on Environmental Quality.

Erin E. Chancellor

Executive Director Texas Commission on Environmental Quality

Certificate Number: T104704187-23-17
Effective Date: 1/1/2024
Expiration Date: 12/31/2024

Attachment B

Eurofins Houston – Stafford, Texas

Analytical Report

Job ID.: 860-67547-2

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mike Schofield
GSI Environmental Inc
9600 Great Hills Trail
Suite 350E
Austin, Texas 78759

Generated 3/5/2024 9:33:35 AM

JOB DESCRIPTION

Ash Pond

JOB NUMBER

860-67548-2

Eurofins Houston
4145 Greenbriar Dr
Stafford TX 77477

See page two for job notes and contact information.

my EOL

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.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Generated
3/5/2024 9:33:35 AM

Authorized for release by
Sachin Kudchadkar, Senior Project Manager
Sachin.Kudchadkar@et.eurofinsus.com
(281)748-9025

Table of Contents

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Definitions/Glossary

Client: GSI Environmental Inc
Job ID: 860-67548-2
Project/Site: Ash Pond

Qualifiers

Rad

Qualifier	Qualifier Description
U	Result is less than the sample detection limit.
X	Carrier is outside acceptance limits.

Glossary

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

Job Narrative
860-67548-2

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 2/8/2024 10:24 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 0.5°C, 0.6°C, 2.5°C and 2.7°C.

Gas Flow Proportional Counter
Method 904.0: Radium 228 prep batch 160-649242

The barium carrier recovery is outside the upper control limit (110%) for the following samples: PZ-03 (860-67548-2[MSD]), AP-35 (860-67548-9), AP-36 (860-67548-10) and MW-03 (860-67548-11). The QC samples associated with the batch have acceptable carrier recovery indicating the presence of matrix interference.

Method 904.0: Radium-228 prep batch 160-649242:

The following sample has a barium carrier recovery above the 110% QC limit. There is significant concentrations of salt-like compounds (i.e. calcium, magnesium, sodium, and strontium) that can interfere with a barium sulfate recovery. The LCS (laboratory control sample) has an acceptable spike recovery demonstrating acceptable sample preparation and instrument performance. The samples have been truncated to 100% to reduce any potential bias a high carrier recovery may have. The data have been qualified and reported. PZ-03 (860-67548-2[MSD]), AP-35 (860-67548-9), AP-36 (860-67548-10) and MW-03 (860-67548-11)

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

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

Detection Summary

Client: GSI Environmental Inc
Project/Site: Ash Pond

Job ID: 860-67548-2

Client Sample ID: PZ-02 — **Lab Sample ID: 860-67548-1**

No Detections.

Client Sample ID: PZ-03 — **Lab Sample ID: 860-67548-2**

No Detections.

Client Sample ID: PZ-05 — **Lab Sample ID: 860-67548-3**

No Detections.

Client Sample ID: PZ-06 — **Lab Sample ID: 860-67548-4**

No Detections.

Client Sample ID: AP-31 — **Lab Sample ID: 860-67548-5**

No Detections.

Client Sample ID: AP-32 — **Lab Sample ID: 860-67548-6**

No Detections.

Client Sample ID: AP-33 — **Lab Sample ID: 860-67548-7**

No Detections.

Client Sample ID: AP-34 — **Lab Sample ID: 860-67548-8**

No Detections.

Client Sample ID: AP-35 — **Lab Sample ID: 860-67548-9**

No Detections.

Client Sample ID: AP-36 — **Lab Sample ID: 860-67548-10**

No Detections.

Client Sample ID: MW-03 — **Lab Sample ID: 860-67548-11**

No Detections.

Client Sample ID: DUP-02 — **Lab Sample ID: 860-67548-12**

No Detections.

Client Sample ID: FB-02 — **Lab Sample ID: 860-67548-13**

No Detections.

Client Sample ID: EB-01 — **Lab Sample ID: 860-67548-14**

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: PZ-02

Lab Sample ID: 860-67548-1

Date Collected: 02/07/24 11:15

Matrix: Water

Date Received: 02/08/24 10:24

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.78		0.619	0.640	1.00	0.781	pCi/L	02/22/24 10:09	03/04/24 12:40	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*98.5*		*30 - 110*	*02/22/24 10:09*	*03/04/24 12:40*	*1*
Y Carrier	*84.5*		*30 - 110*	*02/22/24 10:09*	*03/04/24 12:40*	*1*

Method: SM7500 Ra B - Radium-226

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra-226	0.680		1.87		1.00	0.380	pCi/L	02/09/24 13:57	02/19/24 10:47	1

Client Sample ID: PZ-03

Lab Sample ID: 860-67548-2

Date Collected: 02/07/24 11:15

Matrix: Water

Date Received: 02/08/24 10:24

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.73		0.557	0.580	1.00	0.640	pCi/L	02/22/24 10:09	03/04/24 12:40	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*102*		*30 - 110*	*02/22/24 10:09*	*03/04/24 12:40*	*1*
Y Carrier	*82.2*		*30 - 110*	*02/22/24 10:09*	*03/04/24 12:40*	*1*

Method: SM7500 Ra B - Radium-226

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra-226	0.390		2.19		1.00	0.320	pCi/L	02/09/24 13:57	02/19/24 10:47	1

Client Sample ID: PZ-05

Lab Sample ID: 860-67548-3

Date Collected: 02/07/24 11:00

Matrix: Water

Date Received: 02/08/24 10:24

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	2.67		0.521	0.576	1.00	0.494	pCi/L	02/22/24 10:09	03/04/24 12:41	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*109*		*30 - 110*	*02/22/24 10:09*	*03/04/24 12:41*	*1*
Y Carrier	*85.2*		*30 - 110*	*02/22/24 10:09*	*03/04/24 12:41*	*1*

Client Sample ID: PZ-05

Lab Sample ID: 860-67548-3

Date Collected: 02/07/24 11:00

Matrix: Water

Date Received: 02/08/24 10:24

Method: SM7500 Ra B - Radium-226

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra-226	1.89		1.84		1.00	0.370	pCi/L	02/09/24 13:57	02/19/24 10:47	1

Client Sample ID: PZ-06

Lab Sample ID: 860-67548-4

Date Collected: 02/07/24 09:20

Matrix: Water

Date Received: 02/08/24 10:24

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.72		0.465	0.492	1.00	0.503	pCi/L	02/22/24 10:09	03/04/24 12:41	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*101*		*30 - 110*	*02/22/24 10:09*	*03/04/24 12:41*	*1*
Y Carrier	*83.4*		*30 - 110*	*02/22/24 10:09*	*03/04/24 12:41*	*1*

Method: SM7500 Ra B - Radium-226

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra-226	1.80		1.98		1.00	0.330	pCi/L	02/09/24 13:57	02/19/24 11:11	1

Client Sample ID: AP-31

Lab Sample ID: 860-67548-5

Date Collected: 02/07/24 11:30

Matrix: Water

Date Received: 02/08/24 10:24

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.28		0.414	0.430	1.00	0.486	pCi/L	02/22/24 10:09	03/04/24 12:41	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*106*		*30 - 110*	*02/22/24 10:09*	*03/04/24 12:41*	*1*
Y Carrier	*81.5*		*30 - 110*	*02/22/24 10:09*	*03/04/24 12:41*	*1*

Method: SM7500 Ra B - Radium-226

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra-226	0.180	U	1.49		1.00	0.460	pCi/L	02/09/24 13:57	02/19/24 10:47	1

Client Sample ID: AP-32

Lab Sample ID: 860-67548-6

Date Collected: 02/07/24 09:30

Matrix: Water

Date Received: 02/08/24 10:24

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	7.87		0.807	1.08	1.00	0.433	pCi/L	02/22/24 10:09	03/04/24 12:41	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*109*		*30 - 110*	*02/22/24 10:09*	*03/04/24 12:41*	*1*
Y Carrier	*86.4*		*30 - 110*	*02/22/24 10:09*	*03/04/24 12:41*	*1*

Method: SM7500 Ra B - Radium-226

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra-226	2.17		2.71		1.00	0.350	pCi/L	02/09/24 13:57	02/19/24 10:47	1

Client Sample ID: AP-33

Lab Sample ID: 860-67548-7

Date Collected: 02/07/24 08:45

Matrix: Water

Date Received: 02/08/24 10:24

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	5.31		0.856	0.986	1.00	0.701	pCi/L	02/22/24 10:09	03/04/24 12:42	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*102*		*30 - 110*	*02/22/24 10:09*	*03/04/24 12:42*	*1*
Y Carrier	*84.9*		*30 - 110*	*02/22/24 10:09*	*03/04/24 12:42*	*1*

Method: SM7500 Ra B - Radium-226

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra-226	1.98		2.56		1.00	0.380	pCi/L	02/09/24 13:57	02/19/24 10:47	1

Client Sample ID: AP-34

Lab Sample ID: 860-67548-8

Date Collected: 02/07/24 10:15

Matrix: Water

Date Received: 02/08/24 10:24

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	2.10		0.476	0.514	1.00	0.484	pCi/L	02/22/24 10:09	03/04/24 12:42	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*107*		*30 - 110*	*02/22/24 10:09*	*03/04/24 12:42*	*1*
Y Carrier	*86.7*		*30 - 110*	*02/22/24 10:09*	*03/04/24 12:42*	*1*

Client Sample ID: AP-34

Lab Sample ID: 860-67548-8

Date Collected: 02/07/24 10:15

Matrix: Water

Date Received: 02/08/24 10:24

Method: SM7500 Ra B - Radium-226

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra-226	1.11		1.62		1.00	0.300	pCi/L	02/09/24 13:57	02/19/24 10:47	1

Client Sample ID: AP-35

Lab Sample ID: 860-67548-9

Date Collected: 02/07/24 10:45

Matrix: Water

Date Received: 02/08/24 10:24

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	15.3		1.14	1.81	1.00	0.469	pCi/L	02/22/24 10:09	03/04/24 12:42	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*115*	*X*	*30 - 110*	*02/22/24 10:09*	*03/04/24 12:42*	*1*
Y Carrier	*89.0*		*30 - 110*	*02/22/24 10:09*	*03/04/24 12:42*	*1*

Method: SM7500 Ra B - Radium-226

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra-226	7.95		3.10		1.00	0.330	pCi/L	02/12/24 08:44	02/19/24 10:09	1

Client Sample ID: AP-36

Lab Sample ID: 860-67548-10

Date Collected: 02/07/24 10:20

Matrix: Water

Date Received: 02/08/24 10:24

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	3.14		0.577	0.646	1.00	0.501	pCi/L	02/22/24 10:09	03/04/24 12:42	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*113*	*X*	*30 - 110*	*02/22/24 10:09*	*03/04/24 12:42*	*1*
Y Carrier	*85.2*		*30 - 110*	*02/22/24 10:09*	*03/04/24 12:42*	*1*

Method: SM7500 Ra B - Radium-226

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra-226	1.77		1.99		1.00	0.300	pCi/L	02/12/24 08:44	02/19/24 10:09	1

Client Sample ID: MW-03

Lab Sample ID: 860-67548-11

Date Collected: 02/07/24 10:15

Matrix: Water

Date Received: 02/08/24 10:24

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	3.40		0.602	0.679	1.00	0.523	pCi/L	02/22/24 10:09	03/04/24 12:42	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*119*	*X*	*30 - 110*	*02/22/24 10:09*	*03/04/24 12:42*	*1*
Y Carrier	*84.9*		*30 - 110*	*02/22/24 10:09*	*03/04/24 12:42*	*1*

Method: SM7500 Ra B - Radium-226

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra-226	1.74		2.62		1.00	0.360	pCi/L	02/12/24 08:44	02/19/24 10:09	1

Client Sample ID: DUP-02

Lab Sample ID: 860-67548-12

Date Collected: 02/07/24 09:00

Matrix: Water

Date Received: 02/08/24 10:24

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	3.32		0.532	0.613	1.00	0.398	pCi/L	02/22/24 10:09	03/04/24 12:43	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*109*		*30 - 110*	*02/22/24 10:09*	*03/04/24 12:43*	*1*
Y Carrier	*91.2*		*30 - 110*	*02/22/24 10:09*	*03/04/24 12:43*	*1*

Method: SM7500 Ra B - Radium-226

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra-226	1.42		2.76		1.00	0.390	pCi/L	02/12/24 08:44	02/19/24 10:09	1

Client Sample ID: FB-02

Lab Sample ID: 860-67548-13

Date Collected: 02/07/24 11:30

Matrix: Water

Date Received: 02/08/24 10:24

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.121	U	0.247	0.247	1.00	0.432	pCi/L	02/22/24 10:09	03/04/24 12:43	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*107*		*30 - 110*	*02/22/24 10:09*	*03/04/24 12:43*	*1*
Y Carrier	*86.0*		*30 - 110*	*02/22/24 10:09*	*03/04/24 12:43*	*1*

Client Sample ID: FB-02

Lab Sample ID: 860-67548-13

Date Collected: 02/07/24 11:30

Matrix: Water

Date Received: 02/08/24 10:24

Method: SM7500 Ra B - Radium-226

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra-226	0.140	U	0.400		1.00	0.470	pCi/L	02/12/24 08:44	02/14/24 09:40	1

Client Sample ID: EB-01

Lab Sample ID: 860-67548-14

Date Collected: 02/07/24 09:45

Matrix: Water

Date Received: 02/08/24 10:24

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.141	U	0.260	0.260	1.00	0.515	pCi/L	02/22/24 10:09	03/04/24 12:41	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*109*		*30 - 110*	*02/22/24 10:09*	*03/04/24 12:41*	*1*
Y Carrier	*85.2*		*30 - 110*	*02/22/24 10:09*	*03/04/24 12:41*	*1*

Method: SM7500 Ra B - Radium-226

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra-226	**0.360**		0.350		1.00	0.340	pCi/L	02/12/24 08:44	02/14/24 09:40	1

Tracer/Carrier Summary

Client: GSI Environmental Inc
Project/Site: Ash Pond

Job ID: 860-67548-2

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)	
		Ba	Y
Lab Sample ID	Client Sample ID	(30-110)	(30-110)
860-67548-1	PZ-02	98.5	84.5
860-67548-2	PZ-03	102	82.2
860-67548-2 MS	PZ-03	106	82.2
860-67548-2 MSD	PZ-03	117 X	81.9
860-67548-3	PZ-05	109	85.2
860-67548-4	PZ-06	101	83.4
860-67548-5	AP-31	106	81.5
860-67548-6	AP-32	109	86.4
860-67548-7	AP-33	102	84.9
860-67548-8	AP-34	107	86.7
860-67548-9	AP-35	115 X	89.0
860-67548-10	AP-36	113 X	85.2
860-67548-11	MW-03	119 X	84.9
860-67548-12	DUP-02	109	91.2
860-67548-13	FB-02	107	86.0
860-67548-14	EB-01	109	85.2
LCS 160-649242/2-A	Lab Control Sample	106	89.3
MB 160-649242/1-A	Method Blank	102	86.0

Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-649242/1-A
Matrix: Water
Analysis Batch: 650963

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 649242

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.08125	U	0.251	0.251	1.00	0.451	pCi/L	02/22/24 10:09	03/04/24 12:40	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*102*		*30 - 110*	*02/22/24 10:09*	*03/04/24 12:40*	*1*
Y Carrier	*86.0*		*30 - 110*	*02/22/24 10:09*	*03/04/24 12:40*	*1*

Lab Sample ID: LCS 160-649242/2-A
Matrix: Water
Analysis Batch: 650963

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 649242

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			9.15	7.412		1.03	1.00	0.430	pCi/L	81	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*106*		*30 - 110*
Y Carrier	*89.3*		*30 - 110*

Lab Sample ID: 860-67548-2 MS
Matrix: Water
Analysis Batch: 650963

Client Sample ID: PZ-03
Prep Type: Total/NA
Prep Batch: 649242

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228	1.73		12.3	15.67		1.97	1.00	0.576	pCi/L	114	60 - 140		

Carrier	*MS %Yield*	*MS Qualifier*	*Limits*
Ba Carrier	*106*		*30 - 110*
Y Carrier	*82.2*		*30 - 110*

Lab Sample ID: 860-67548-2 MSD
Matrix: Water
Analysis Batch: 650963

Client Sample ID: PZ-03
Prep Type: Total/NA
Prep Batch: 649242

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-228	1.73		12.0	15.75		2.00	1.00	0.610	pCi/L	116	60 - 140	0.22	1

Carrier	*MSD %Yield*	*MSD Qualifier*	*Limits*
Ba Carrier	*117*	*X*	*30 - 110*
Y Carrier	*81.9*		*30 - 110*

Method: SM7500 Ra B - Radium-226

Lab Sample ID: MB 810-88223/1-A
Matrix: Water
Analysis Batch: 88648

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 88223

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra-226	0.3900		0.380		1.00	0.380	pCi/L	02/09/24 13:57	02/14/24 09:43	1

Lab Sample ID: LCS 810-88223/2-A
Matrix: Water
Analysis Batch: 88648

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 88223

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Ra-226			5.26	5.670			1.00	0.350	pCi/L	108	90 - 110		

Lab Sample ID: 860-67548-2 MS
Matrix: Water
Analysis Batch: 89162

Client Sample ID: PZ-03
Prep Type: Total/NA
Prep Batch: 88223

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Ra-226	6.25		5.81	11.61			1.00	0.340	pCi/L	92	80 - 120		

Lab Sample ID: 860-67548-2 MSD
Matrix: Water
Analysis Batch: 89162

Client Sample ID: PZ-03
Prep Type: Total/NA
Prep Batch: 88223

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Ra-226	6.25		5.81	11.04			1.00	0.310	pCi/L	83	80 - 120	0.21	

Lab Sample ID: MB 810-88277/1-A
Matrix: Water
Analysis Batch: 88647

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 88277

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra-226	0.1500	U	0.260		1.00	0.290	pCi/L	02/12/24 08:44	02/14/24 09:40	1

Lab Sample ID: LCS 810-88277/2-A
Matrix: Water
Analysis Batch: 88647

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 88277

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Ra-226			5.26	5.670			1.00	0.290	pCi/L	108	90 - 110		

Rad

Prep Batch: 88223

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-67548-1	PZ-02	Total/NA	Water	RAD Prep	
860-67548-2	PZ-03	Total/NA	Water	RAD Prep	
860-67548-3	PZ-05	Total/NA	Water	RAD Prep	
860-67548-4	PZ-06	Total/NA	Water	RAD Prep	
860-67548-5	AP-31	Total/NA	Water	RAD Prep	
860-67548-6	AP-32	Total/NA	Water	RAD Prep	
860-67548-7	AP-33	Total/NA	Water	RAD Prep	
860-67548-8	AP-34	Total/NA	Water	RAD Prep	
MB 810-88223/1-A	Method Blank	Total/NA	Water	RAD Prep	
LCS 810-88223/2-A	Lab Control Sample	Total/NA	Water	RAD Prep	
860-67548-2 MS	PZ-03	Total/NA	Water	RAD Prep	
860-67548-2 MSD	PZ-03	Total/NA	Water	RAD Prep	

Prep Batch: 88277

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-67548-9	AP-35	Total/NA	Water	RAD Prep	
860-67548-10	AP-36	Total/NA	Water	RAD Prep	
860-67548-11	MW-03	Total/NA	Water	RAD Prep	
860-67548-12	DUP-02	Total/NA	Water	RAD Prep	
860-67548-13	FB-02	Total/NA	Water	RAD Prep	
860-67548-14	EB-01	Total/NA	Water	RAD Prep	
MB 810-88277/1-A	Method Blank	Total/NA	Water	RAD Prep	
LCS 810-88277/2-A	Lab Control Sample	Total/NA	Water	RAD Prep	

Prep Batch: 649242

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-67548-1	PZ-02	Total/NA	Water	PrecSep_0	
860-67548-2	PZ-03	Total/NA	Water	PrecSep_0	
860-67548-3	PZ-05	Total/NA	Water	PrecSep_0	
860-67548-4	PZ-06	Total/NA	Water	PrecSep_0	
860-67548-5	AP-31	Total/NA	Water	PrecSep_0	
860-67548-6	AP-32	Total/NA	Water	PrecSep_0	
860-67548-7	AP-33	Total/NA	Water	PrecSep_0	
860-67548-8	AP-34	Total/NA	Water	PrecSep_0	
860-67548-9	AP-35	Total/NA	Water	PrecSep_0	
860-67548-10	AP-36	Total/NA	Water	PrecSep_0	
860-67548-11	MW-03	Total/NA	Water	PrecSep_0	
860-67548-12	DUP-02	Total/NA	Water	PrecSep_0	
860-67548-13	FB-02	Total/NA	Water	PrecSep_0	
860-67548-14	EB-01	Total/NA	Water	PrecSep_0	
MB 160-649242/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-649242/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
860-67548-2 MS	PZ-03	Total/NA	Water	PrecSep_0	
860-67548-2 MSD	PZ-03	Total/NA	Water	PrecSep_0	

Lab Chronicle

Client: GSI Environmental Inc
Project/Site: Ash Pond

Job ID: 860-67548-2

Client Sample ID: PZ-02

Lab Sample ID: 860-67548-1

Date Collected: 02/07/24 11:15

Matrix: Water

Date Received: 02/08/24 10:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			744.91 mL	1.0 g	649242	02/22/24 10:09	KAC	EET SL
Total/NA	Analysis	904.0		1	1.0 mL	1.0 mL	650963	03/04/24 12:40	SCB	EET SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	88223	02/09/24 13:57	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			89160	02/19/24 10:47	SM	EA SB
							Completed:	02/19/24 11:17 [1]		

Client Sample ID: PZ-03

Lab Sample ID: 860-67548-2

Date Collected: 02/07/24 11:15

Matrix: Water

Date Received: 02/08/24 10:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			741.70 mL	1.0 g	649242	02/22/24 10:09	KAC	EET SL
Total/NA	Analysis	904.0		1	1.0 mL	1.0 mL	650963	03/04/24 12:40	SCB	EET SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	88223	02/09/24 13:57	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			89160	02/19/24 10:47	SM	EA SB
							Completed:	02/19/24 11:17 [1]		

Client Sample ID: PZ-05

Lab Sample ID: 860-67548-3

Date Collected: 02/07/24 11:00

Matrix: Water

Date Received: 02/08/24 10:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			999.61 mL	1.0 g	649242	02/22/24 10:09	KAC	EET SL
Total/NA	Analysis	904.0		1	1.0 mL	1.0 mL	650963	03/04/24 12:41	SCB	EET SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	88223	02/09/24 13:57	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			89160	02/19/24 10:47	SM	EA SB
							Completed:	02/19/24 11:17 [1]		

Client Sample ID: PZ-06

Lab Sample ID: 860-67548-4

Date Collected: 02/07/24 09:20

Matrix: Water

Date Received: 02/08/24 10:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			1000.64 mL	1.0 g	649242	02/22/24 10:09	KAC	EET SL
Total/NA	Analysis	904.0		1	1.0 mL	1.0 mL	650963	03/04/24 12:41	SCB	EET SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	88223	02/09/24 13:57	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			89160	02/19/24 10:47	SM	EA SB
							Completed:	02/19/24 11:41 [1]		

Client Sample ID: AP-31

Lab Sample ID: 860-67548-5

Date Collected: 02/07/24 11:30

Matrix: Water

Date Received: 02/08/24 10:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			998.05 mL	1.0 g	649242	02/22/24 10:09	KAC	EET SL
Total/NA	Analysis	904.0		1	1.0 mL	1.0 mL	650963	03/04/24 12:41	SCB	EET SL

Lab Chronicle

Client: GSI Environmental Inc
Project/Site: Ash Pond

Job ID: 860-67548-2

Client Sample ID: AP-31

Date Collected: 02/07/24 11:30
Date Received: 02/08/24 10:24

Lab Sample ID: 860-67548-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	88223	02/09/24 13:57	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			89160	02/19/24 10:47	SM	EA SB
							Completed:	02/19/24 11:17 [1]		

Client Sample ID: AP-32

Date Collected: 02/07/24 09:30
Date Received: 02/08/24 10:24

Lab Sample ID: 860-67548-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			993.18 mL	1.0 g	649242	02/22/24 10:09	KAC	EET SL
Total/NA	Analysis	904.0		1	1.0 mL	1.0 mL	650963	03/04/24 12:41	SCB	EET SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	88223	02/09/24 13:57	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			89160	02/19/24 10:47	SM	EA SB
							Completed:	02/19/24 11:17 [1]		

Client Sample ID: AP-33

Date Collected: 02/07/24 08:45
Date Received: 02/08/24 10:24

Lab Sample ID: 860-67548-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			741.23 mL	1.0 g	649242	02/22/24 10:09	KAC	EET SL
Total/NA	Analysis	904.0		1	1.0 mL	1.0 mL	650963	03/04/24 12:42	SCB	EET SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	88223	02/09/24 13:57	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			89160	02/19/24 10:47	SM	EA SB
							Completed:	02/19/24 11:17 [1]		

Client Sample ID: AP-34

Date Collected: 02/07/24 10:15
Date Received: 02/08/24 10:24

Lab Sample ID: 860-67548-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			1002.78 mL	1.0 g	649242	02/22/24 10:09	KAC	EET SL
Total/NA	Analysis	904.0		1	1.0 mL	1.0 mL	650963	03/04/24 12:42	SCB	EET SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	88223	02/09/24 13:57	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			89160	02/19/24 10:47	SM	EA SB
							Completed:	02/19/24 11:17 [1]		

Client Sample ID: AP-35

Date Collected: 02/07/24 10:45
Date Received: 02/08/24 10:24

Lab Sample ID: 860-67548-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			997.74 mL	1.0 g	649242	02/22/24 10:09	KAC	EET SL
Total/NA	Analysis	904.0		1	1.0 mL	1.0 mL	650963	03/04/24 12:42	SCB	EET SL

Lab Chronicle

Client: GSI Environmental Inc
Project/Site: Ash Pond

Job ID: 860-67548-2

Client Sample ID: AP-35

Date Collected: 02/07/24 10:45
Date Received: 02/08/24 10:24

Lab Sample ID: 860-67548-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	88277	02/12/24 08:44	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			89148	02/19/24 10:09	SM	EA SB
							Completed:	02/19/24 10:39 [1]		

Client Sample ID: AP-36

Date Collected: 02/07/24 10:20
Date Received: 02/08/24 10:24

Lab Sample ID: 860-67548-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			999.66 mL	1.0 g	649242	02/22/24 10:09	KAC	EET SL
Total/NA	Analysis	904.0		1	1.0 mL	1.0 mL	650963	03/04/24 12:42	SCB	EET SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	88277	02/12/24 08:44	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			89148	02/19/24 10:09	SM	EA SB
							Completed:	02/19/24 10:39 [1]		

Client Sample ID: MW-03

Date Collected: 02/07/24 10:15
Date Received: 02/08/24 10:24

Lab Sample ID: 860-67548-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			995.76 mL	1.0 g	649242	02/22/24 10:09	KAC	EET SL
Total/NA	Analysis	904.0		1	1.0 mL	1.0 mL	650963	03/04/24 12:42	SCB	EET SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	88277	02/12/24 08:44	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			89148	02/19/24 10:09	SM	EA SB
							Completed:	02/19/24 10:39 [1]		

Client Sample ID: DUP-02

Date Collected: 02/07/24 09:00
Date Received: 02/08/24 10:24

Lab Sample ID: 860-67548-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			995.94 mL	1.0 g	649242	02/22/24 10:09	KAC	EET SL
Total/NA	Analysis	904.0		1	1.0 mL	1.0 mL	650963	03/04/24 12:43	SCB	EET SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	88277	02/12/24 08:44	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			89148	02/19/24 10:09	SM	EA SB
							Completed:	02/19/24 10:39 [1]		

Client Sample ID: FB-02

Date Collected: 02/07/24 11:30
Date Received: 02/08/24 10:24

Lab Sample ID: 860-67548-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			1003.16 mL	1.0 g	649242	02/22/24 10:09	KAC	EET SL
Total/NA	Analysis	904.0		1	1.0 mL	1.0 mL	650963	03/04/24 12:43	SCB	EET SL

Lab Chronicle

Client: GSI Environmental Inc
Project/Site: Ash Pond

Job ID: 860-67548-2

Client Sample ID: FB-02

Lab Sample ID: 860-67548-13

Date Collected: 02/07/24 11:30

Matrix: Water

Date Received: 02/08/24 10:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	88277	02/12/24 08:44	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			88647	02/14/24 09:40	SM	EA SB
							Completed:	02/14/24 10:40 [1]		

Client Sample ID: EB-01

Lab Sample ID: 860-67548-14

Date Collected: 02/07/24 09:45

Matrix: Water

Date Received: 02/08/24 10:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			1005.90 mL	1.0 g	649242	02/22/24 10:09	KAC	EET SL
Total/NA	Analysis	904.0		1	1.0 mL	1.0 mL	650947	03/04/24 12:41	SCB	EET SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	88277	02/12/24 08:44	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			88647	02/14/24 09:40	SM	EA SB
							Completed:	02/14/24 10:40 [1]		

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EA SB = Eurofins Eaton Analytical South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Accreditation/Certification Summary

Client: GSI Environmental Inc
Project/Site: Ash Pond

Job ID: 860-67548-2

Laboratory: Eurofins Eaton Analytical South Bend

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

Authority	Program	Identification Number	Expiration Date
A2LA	ISO/IEC 17025	5794.01	07-31-24
Alabama	State	40700	06-30-24
Alaska	State	IN00035	06-30-24
Arizona	State	AZ0432	07-26-24
Arkansas (DW)	State	EPA IN00035	06-30-24
California	State	2920	06-30-24
Colorado	State	IN00035	02-29-24
Connecticut	State	PH-0132	03-31-24
Delaware (DW)	State	IN00035	06-30-24
Florida	NELAP	E87775	06-30-24
Georgia (DW)	State	929	06-30-24
Guam	State	23-011R	07-15-24
Hawaii	State	IN035	06-30-24
Idaho (DW)	State	IN00035	12-31-24
IL Dept. of Public Health (Micro)	State	17767	07-01-24
Illinois	NELAP	200001	09-19-24
Indiana	State	C-71-01	12-31-25
Indiana (Micro)	State	M-76-07	12-31-25
Iowa	State	IA Lab #098	11-01-25
Kansas	NELAP	E-10233	10-31-24
Kentucky (DW)	State	KY90056	12-31-24
Louisiana (DW)	State	LA014	12-31-24
Maine	State	IN00035	05-01-25
Maryland	State	209	06-30-24
Massachusetts	State	M-IN035	06-30-24
MI - RadChem Recognition	State	9926	06-30-24
Michigan	State	9926	06-30-24
Minnesota	NELAP	1989807	12-31-24
Mississippi	State	IN00035	06-30-24
Missouri	State	880	09-30-24
Montana (DW)	State	CERT0026	01-01-25
Nebraska	State	NE-OS-05-04	06-30-24
Nevada	State	IN000352024-01	07-31-24
New Hampshire	NELAP	2124	11-05-24
New Jersey	NELAP	IN598	06-30-24
New Mexico	State	IN00035	06-30-24
New York	NELAP	11398	04-01-24
North Carolina (DW)	State	18700	07-31-24
North Dakota	State	R-035	06-30-24
Northern Mariana Islands (DW)	State	IN00035	06-30-24
Ohio	State	87775	06-30-24
Oklahoma	NELAP	D9508	08-31-24
Oregon	NELAP	4156	09-16-24
Pennsylvania	NELAP	68-00466	04-30-24
Puerto Rico	State	IN00035	04-01-24
Rhode Island	State	LAO00343	12-30-24
South Carolina	State	95005001	06-30-24
South Dakota (DW)	State	IN00035	06-30-24
Tennessee	State	TN02973	06-30-24
Texas	NELAP	T104704187-22-16	12-31-24

Accreditation/Certification Summary

Client: GSI Environmental Inc
Project/Site: Ash Pond

Job ID: 860-67548-2

Laboratory: Eurofins Eaton Analytical South Bend (Continued)

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

Authority	Program	Identification Number	Expiration Date
Texas	TCEQ Water Supply	TX207	06-30-24
USEPA Reg X SDWA	US Federal Programs	IN00035	08-24-24
USEPA UCMR 5	US Federal Programs	IN00035	12-31-25
Utah	NELAP	IN00035	07-31-24
Vermont	State	VT-8775	11-15-24
Virginia	NELAP	460275	03-14-24
Washington	State	C837	01-01-25
West Virginia (DW)	State	9927 C	01-31-25
Wisconsin	State	999766900	08-31-24
Wisconsin (Micro)	State	10121	12-31-24
Wyoming	State	8TMS-L	06-30-24

Laboratory: Eurofins St. Louis

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704193	07-31-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
904.0	PrecSep_0	Water	Radium-228

Method Summary

Client: GSI Environmental Inc
Project/Site: Ash Pond

Job ID: 860-67548-2

Method	Method Description	Protocol	Laboratory
904.0	Radium-228 (GFPC)	EPA	EET SL
SM7500 Ra B	Radium-226	SM	EA SB
PrecSep_0	Preparation, Precipitate Separation	None	EET SL
RAD Prep	Preparation, Radiologicals	None	EA SB

Protocol References:

EPA = US Environmental Protection Agency

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

EA SB = Eurofins Eaton Analytical South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Sample Summary

Client: GSI Environmental Inc
Job ID: 860-67548-2
Project/Site: Ash Pond

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-67548-1	PZ-02	Water	02/07/24 11:15	02/08/24 10:24
860-67548-2	PZ-03	Water	02/07/24 11:15	02/08/24 10:24
860-67548-3	PZ-05	Water	02/07/24 11:00	02/08/24 10:24
860-67548-4	PZ-06	Water	02/07/24 09:20	02/08/24 10:24
860-67548-5	AP-31	Water	02/07/24 11:30	02/08/24 10:24
860-67548-6	AP-32	Water	02/07/24 09:30	02/08/24 10:24
860-67548-7	AP-33	Water	02/07/24 08:45	02/08/24 10:24
860-67548-8	AP-34	Water	02/07/24 10:15	02/08/24 10:24
860-67548-9	AP-35	Water	02/07/24 10:45	02/08/24 10:24
860-67548-10	AP-36	Water	02/07/24 10:20	02/08/24 10:24
860-67548-11	MW-03	Water	02/07/24 10:15	02/08/24 10:24
860-67548-12	DUP-02	Water	02/07/24 09:00	02/08/24 10:24
860-67548-13	FB-02	Water	02/07/24 11:30	02/08/24 10:24
860-67548-14	EB-01	Water	02/07/24 09:45	02/08/24 10:24

Eurofins Xenco, Stafford
4147 Greenbriar Dr
Stafford TX 77477
Phone (281) 240-4200

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: Scott Hoe + HMI Team	Lab PM: Kudchadkar Sachin G	Carrier Tracking No(s):	COC No: 860-3614-1220.1
Client Contact: Mike Schofield	Phone: 832-347-4521	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: TX	Page: Page 1 of 2
Company: GSI Environmental Inc	PWSID:			Job #:
Address: 9600 Great Hills Trail Suite 350E	Due Date Requested:			
City: Austin	TAT Requested (days):			
State, Zip: TX, 78759	Compliance Project: Δ Yes Δ No			
Phone: 512-346-4474(Tel) 512-346-4476(Fax)	PO #:			
Email: mlschofield@gsi-net.com	WO #:			
Project Name: San Miguel Electrical Co-Op GW	Project #: 86001746			
Site: Ash Pond	SSOW#:			

Analysis Requested

Preservation Codes:

A	HCL	M	Hexane
B	NaOH	N	None
C	Zn Acetate	O	AsNaO2
D	Nitric Acid	P	Na2O4S
E	NaHSO4	Q	Na2SO3
F	MeOH	R	Na2S2O3
G	Amchlor	S	H2SO4
H	Ascorbic Acid	T	TSP Dodecahydrate
I	Ice	U	Acetone
J	DI Water	V	MCAA
K	EDTA	W	pH 4-5
L	EDA	Z	other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2320B, Alkalinity	6020A - 7470- B, Ca,Sb, As, Ba, Be, Cd, Cr Co, Pb, Li, Mo, Se, Ti;Hg- Eurofins Pittsburg + Na, Mg	2540C_TDS	300- Cl, F, SO4	901 1_Ra- Rad 228 Eurofins St Louis	SM7500_Ra_B Rad 226- South Bend IN	O - MS/MSD not provided	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	D	N	N	D	D			
PZ-02	2-7-24	1115	G	Water			✓	✓	✓	✓	✓	✓			
PZ-03		1115		Water		Y	✓	✓	✓	✓	✓	✓			
PZ-05		1100		Water			✓	✓	✓	✓	✓	✓			
PZ-06		920		Water			✓	✓	✓	✓	✓	✓			
AP-31		1130		Water			✓	✓	✓	✓	✓	✓			
AP-32		930		Water			✓	✓	✓	✓	✓	✓			
AP-33		845		Water			✓	✓	✓	✓	✓	✓			
AP-34		1015		Water			✓	✓	✓	✓	✓	✓			
AP-35		1045		Water			✓	✓	✓	✓	✓	✓			
AP-36		1020		Water			✓	✓	✓	✓	✓	✓			
MW-03	↓	1015	↓	Water			✓	✓	✓	✓	✓	✓			

Temp: 2.5 IR ID:HOU-369
C/F -0.0
Corrected Temp: 2.5

Temp: 0.5 IR ID:HOU-369
C/F -0.0
Corrected Temp: 0.5

Temp: 2.7 IR ID:HOU-369
C/F -0.0
Corrected Temp: 2.7

Temp: 0.6 IR ID:HOU-369
C/F -0.0
Corrected Temp: 0.6

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I II III IV Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: Cons. Dropoff	
Relinquished by:	Date/Time: 2-8-24 1024	Company HMI	Received by:	Date/Time: Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: Company
Relinquished by:		Company	Received by:	Date/Time: 2 8 24 1024 Company
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.		Cooler Temperature(s) °C and Other Remarks:	

860-67548 Chain of Custody

Ver: 01/16/2019

3/5/2024

Eurofins Xenco, Stafford
4147 Greenbriar Dr
Stafford TX 77477
Phone (281) 240-4200

Chain of Custody Record

eurofins Environment Testing Amer

3/5/2024

Client Information	Sampler: Scott Wde + Hml Team	Lab PM: Kudchadkar Sachin G	Carrier Tracking No(s):	COC No: 860-3614-1220.1
Client Contact: Mike Schofield	Phone: 832-347-4521	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: TX	Page: Page 2 of 2
Company: GSI Environmental, Inc	PWSID:	Analysis Requested		Job #:
Address: 9600 Great Hills Trail Suite 350E	Due Date Requested:			
City: Austin	TAT Requested (days):			
State, Zip: TX, 78759	Compliance Project: Δ Yes Δ No			
Phone: 512-346-4474(Tel) 512-346-4476(Fax)	PO #:			
Email: mlschofield@gsi-net.com	WO #:			
Project Name: San Miguel Electrical Co-Op GW	Project #: 86001746			
Site: Ash Pond	SSOW#:			

Preservation Codes:
A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Z other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	23208_Alkalinity	6020A -7470- B, Ca,Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl;Hg- Eurofins Pittsburg + Na, Mg	2540C_TDS	300- Cl, F, SO4	901.1_Ra- Rad 228 Eurofins St Louis	SM7500_Ra_B Rad 226- South Bend IN	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	D	N	N	D	D		
DUP-02	2-7-24	900	G	Water			✓	✓	✓	✓	✓	✓		
FB-02	↓	1130	↓	Water			✓	✓	✓	✓	✓	✓		
EB-01	↓	945	↓	Water			✓	✓	✓	✓	✓	✓		
				Water										
				Water										
				Water										
				Water										
				Water										
				Water										
				Water										
				Water										

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I, II III IV Other (specify)

Special Instructions/QC Requirements.

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: Cons Dropoff

Relinquished by:	Date/Time:	Company	Received by	Date/Time:	Company
[signature]	2-8-24 1024	HM			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: [signature]	Date/Time: 2.8.24 1024	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

ORIGIN ID:SGRA (281) 240-4200
ADMINISTRATIVE OFFICES
XENCO HOUSTON
4145 GREENBRIAR DR

STAFFORD, TX 77477
UNITED STATES US

SHIP DATE: 08FEB24
ACTWGT: 10.00 LB
CAD: 110189707/INET4700

BILL SENDER

TO SHIPPING AND RECEIVING
EUROFINS TEST AMERICA, PITTSBURGH
301 ALPHA DRIVE RIDC PARK

PITTSBURGH PA 15238
(412) 963-7058 REF
INV
PO DEPT

583J5/EC2B/9AE3

Uncorrected temp C
Thermometer ID 1.8 21
CF 0.0 Initials RB
PT-WI-SR-001 effective 11/8/18

FedEx Express

J241024011001uv

FRI - 09 FEB 10:30A
PRIORITY OVERNIGHT

TRK# 0201 7751 2496 3670

NX AGCA

15238
PA-US PIT

860-67548 Waybill

ORIGIN ID:SGRA (281) 240-4200
ADMINISTRATIVE OFFICES
XENCO HOUSTON
4145 GREENBRIAR DR

STAFFORD, TX 77477
UNITED STATES US

SHIP DATE: 08FEB24
ACTWGT: 10.00 LB
CAD: 110189707/INET4700

BILL SENDER

TO SHIPPING AND RECEIVING
EUROFINS TEST AMERICA, PITTSBURGH
301 ALPHA DRIVE RIDC PARK

PITTSBURGH PA 15238
(412) 963-7058 REF
INV
PO DEPT

583J5/EC2B/9AE3

Uncorrected temp C
Thermometer ID 4.9 21
CF 0.0 Initials RB
PT-WI-SR-001 effective 11/8/18

FedEx Express

J241024011001uv

FRI - 09 FEB 10:30A
PRIORITY OVERNIGHT

TRK# 0201 7751 2562 2770

NX AGCA

15238
PA-US PIT

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins
Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-94980.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@et.eurofinsus.com	State of Origin: Texas	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 860-67548-1
Address: 13715 Rider Trail North,	Due Date Requested: 3/7/2024			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #			
Email:	WO #			
Project Name: San Miguel Electrical Co-Op 2H23 GW	Project #: 86001746			
Site:	SSOW#:			

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Analysis Requested

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)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	904.0/PrecSep_0 Standard Target List	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
PZ-02 (860-67548-1)	2/7/24	11:15 Central		Water			X	3	
PZ-03 (860-67548-2)	2/7/24	11:15 Central		Water			X	3	
PZ-03 (860-67548-2MS)	2/7/24	11:15 Central	MS	Water			X	3	
PZ-03 (860-67548-2MSD)	2/7/24	11:15 Central	MSD	Water			X	3	
PZ-05 (860-67548-3)	2/7/24	11:00 Central		Water			X	3	
PZ-06 (860-67548-4)	2/7/24	09:20 Central		Water			X	3	
AP-31 (860-67548-5)	2/7/24	11:30 Central		Water			X	2	
AP-32 (860-67548-6)	2/7/24	09:30 Central		Water			X	3	
AP-33 (860-67548-7)	2/7/24	08:45 Central		Water			X	3	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Linda	2/8/24		Richard Thornley	FEB 09 2024 0825	FTA STL
2	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
3	Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-94980.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@et.eurofinsus.com	State of Origin: Texas	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 860-67548-1
Address: 13715 Rider Trail North,	Due Date Requested: 3/7/2024			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: San Miguel Electrical Co-Op 2H23 GW	Project #: 86001746			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

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)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	904.0/PrecSep_0 Standard Target List	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
AP-34 (860-67548-8)	2/7/24	10:15 Central		Water			X	3	
AP-35 (860-67548-9)	2/7/24	10:45 Central		Water			X	3	
AP-36 (860-67548-10)	2/7/24	10:20 Central		Water			X	3	
MW-03 (860-67548-11)	2/7/24	10:15 Central		Water			X	3	
DUP-02 (860-67548-12)	2/7/24	09:00 Central		Water			X	3	
FB-02 (860-67548-13)	2/7/24	11:30 Central		Water			X	3	
EB-01 (860-67548-14)	2/7/24	09:45 Central		Water			X	3	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:		
Relinquished by:	Date/Time: 2/8/24	Company	Received by: Richard Thornley	Date/Time: FEB 09 2024 0825	Company ETA STL	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins Environment Testing

3/5/2024

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-95014.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@et.eurofinsus.com	State of Origin: Texas	Page: Page 1 of 2
Company: Eurofins Eaton Analytical		Accreditations Required (See note): NELAP - Texas		Job #: 860-67548-1
Address: 110 S Hill Street,	Due Date Requested: 3/7/2024			
City: South Bend	TAT Requested (days):			
State, Zip: IN, 46617				
Phone: 574-233-4777(Tel) 574-233-8207(Fax)	PO #:			
Email:	WO #:			
Project Name: San Miguel Electrical Co-Op 2H23 GW	Project #: 86001746			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

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)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SM7500_Ra_B/Rad_Prep Radium 226	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
PZ-02 (860-67548-1)	2/7/24	11:15 Central		Water			X	1	pH Accept
PZ-03 (860-67548-2MSD)	2/7/24	11:15 Central	MSD	Water			X	3	Less than 2
PZ-05 (860-67548-3)	2/7/24	11:00 Central		Water			X	1	
PZ-06 (860-67548-4)	2/7/24	09:20 Central		Water			X	1	
AP-31 (860-67548-5)	2/7/24	11:30 Central		Water			X	1	
AP-32 (860-67548-6)	2/7/24	09:30 Central		Water			X	1	Initial Temp: 1.8 Corrected Temp: 2.0 IR Gun # 2
AP-33 (860-67548-7)	2/7/24	08:45 Central		Water			X	1	
AP-34 (860-67548-8)	2/7/24	10:15 Central		Water			X	1	
AP-35 (860-67548-9)	2/7/24	10:45 Central		Water			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		2/8/24			2-9-24 08	
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing

3/5/2024

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-95014.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@et.eurofinsus.com	State of Origin: Texas	Page: Page 2 of 2
Company: Eurofins Eaton Analytical		Accreditations Required (See note): NELAP - Texas		Job #: 860-67548-1
Address: 110 S Hill Street, ,	Due Date Requested: 3/7/2024			
City: South Bend	TAT Requested (days):			
State, Zip: IN, 46617				
Phone: 574-233-4777(Tel) 574-233-8207(Fax)	PO #:			
Email:	WO #:			
Project Name: San Miguel Electrical Co-Op 2H23 GW	Project #: 86001746			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

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)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SM7500_Ra_B/Rad_Prep Radium 226	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
AP-36 (860-67548-10)	2/7/24	10:20 Central		Water			X	1	
MW-03 (860-67548-11)	2/7/24	10:15 Central		Water			X	1	
DUP-02 (860-67548-12)	2/7/24	09:00 Central		Water			X	1	
FB-02 (860-67548-13)	2/7/24	11:30 Central		Water			X	1	
EB-01 (860-67548-14)	2/7/24	09:45 Central		Water			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing

3/5/2024

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-95027.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@et.eurofinsus.com	State of Origin: Texas	Page: Page 1 of 1
Company: Eurofins Eaton Analytical		Accreditations Required (See note): NELAP - Texas		Job #: 860-67548-1
Address: 110 S Hill Street, ,	Due Date Requested: 3/7/2024			
City: South Bend	TAT Requested (days):			
State, Zip: IN, 46617				
Phone: 574-233-4777(Tel) 574-233-8207(Fax)	PO #:			
Email:	WO #:			
Project Name: San Miguel Electrical Co-Op 2H23 GW	Project #: 86001746			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

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)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SM7500_Ra_B/Rad_Prep Radium 226	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
PZ-03 (860-67548-2)	2/7/24	11:15 Central		Water			X	1	
PZ-03 (860-67548-2MS)	2/7/24	11:15 Central	MS	Water			X	1	
PZ-03 (860-67548-2MSD)	2/7/24	11:15 Central	MSD	Water			X	1	

Initial Temp: 1.8
Corrected Temp: 1.7
IR Gun # 29

pH Acceptable
Lesshung

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Lucter	2/8/24			2-9-24 0900	
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: GSI Environmental Inc

Job Number: 860-67548-2

Login Number: 67548

List Source: Eurofins Houston

List Number: 1

Creator: Torrez, Lisandra

Question	Answer	Comment
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	

Login Sample Receipt Checklist

Client: GSI Environmental Inc

Job Number: 860-67548-2

Login Number: 67548
List Number: 2
Creator: Moore, Gary

List Source: Eurofins Eaton Analytical South Bend
List Creation: 02/09/24 11:49 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	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	
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	
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	
Samples do not require splitting or compositing.	True	
Container provided by EEA	True	

Login Sample Receipt Checklist

Client: GSI Environmental Inc

Job Number: 860-67548-2

Login Number: 67548
List Number: 4
Creator: Worthington, Sierra M

List Source: Eurofins St. Louis
List Creation: 02/12/24 08:58 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are 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?	N/A	
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").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

GSI ENVIRONMENTAL

DATA USABILITY SUMMARY

March 2024 Sampling Event (Job ID: 860-69805-1)

OVERVIEW

GSI Environmental Inc. (GSI) reviewed one data package from Eurofins Houston located in Stafford, Texas (EET HOU) for the analysis of **five groundwater samples collected at the Ash Pile on 12 March 2024** at the San Miguel Electric Cooperative, Inc., Christine, Atascosa County, Texas site. Data were reviewed for i) conformance to the requirements of the guidance document *Review and Reporting of COC Concentration Data* (RG-366/TRRP-13) and ii) adherence to project objectives (e.g., GSI 2019). GSI certifies that at the time the laboratory data were generated for the project, EET HOU was National Environmental Laboratory Accreditation Program (NELAP)-accredited under the Texas Laboratory Accreditation Program (Certification Number: T104704215) for the matrices, analytes, and methods of analysis requested on the chain-of-custody documentation. A copy of EET HOU's NELAP certificates applicable to the period during which the laboratory generated the data in this report is included as Attachment A. No radiochemistry analyses were performed because the Ash Pile is in detection monitoring.

Intended Use of Data

Samples were collected to provide current data on groundwater conditions at the test location. The samples were collected as part of a resampling event to confirm concentrations. As a result, a focused list of analytes was requested as compared to a typical semiannual monitoring event at the Ash Pile. Analyses requested included:

- Method 6020A - Metals (Inductively Coupled Plasma (ICP)/Mass Spectrometry)
- Method 300.0 – Anions, Ion Chromatography
- Method SM2540C - Total Dissolved Solids (TDS)

Data were reviewed and validated, as described in *Review and Reporting of COC Concentration Data* (RG-366/TRRP-13), and the results are discussed in this Data Usability Summary (DUS). The following laboratory submittals and field data were examined:

- the reportable data (i.e., results provided in the laboratory data package),
- the laboratory review checklists and associated exception reports, and
- the field notes with respect to field instrument calibrations, filtering procedures (if applicable), and sampling procedures.

The results of supporting quality control (QC) analyses were summarized in the laboratory case narrative (LCN), which was included in this review. The case narrative and reportable data included in this review are attached to this DUS as Attachment B.

INTRODUCTION

Five (5) water samples were submitted to the laboratory, and all requested analyses were completed. Table 1 lists the sample identifications cross-referenced to laboratory identifications.

PROJECT MEASUREMENT QUALITY OBJECTIVES

The following criteria were used in this review:

	LCS/LCSD	
Analytes	% R	RPD
Metals	80 – 120	20
Inorganic Anions	90 – 110	20
Total Dissolved Solids (TDS)	80 – 120	10

DATA REVIEW / VALIDATION RESULTS

Analytical Results

Results from these samples may be considered usable with the limitations and exceptions described in this section. Sample data qualified as a result of this DUS, if any, are listed in Table 2. Non-detected results are reported as less than the value of the method detection limit (MDL). Results between the MDL and reporting (RL) are J-flagged.

Finding: All requested analyses were completed, and results were reported as requested.

Preservation and Holding Times

The samples were evaluated for agreement with the chain-of-custody (C-O-C). The samples were received by the laboratory in the appropriate containers and in good condition, with proper completion of the C-O-C documentation. Samples receipt temperature was within the acceptance criteria, and field preservation was done as specified in the Sampling and Analysis Plan [SAP] (GSI, 2019). Samples were prepared and analyzed within method-specified holding times. Items related to sample preparation are listed below.

- Samples SP-02 and SP-03 by Method 300.0 were diluted to bring the concentration of target analytes within the calibration range. Elevated RLs are provided.
- Samples SP-01, SP-03, SP-32 and SP-34 by Method 6020A were diluted to bring the concentration of target analytes within the calibration range. Elevated RLs are provided.

Finding: No qualifiers were added per this evaluation.

Calibrations

No calibration issues were identified in the LCN or during review of the laboratory data package.

Finding: No qualifiers were added per this evaluation.

Blanks

Method (Laboratory) Blanks

The following issues were noted with the laboratory blanks:

- For Method 300.0, the instrument blank for analytical batch 860-149572 contained Chloride greater than the MDL, and were not reanalyzed because associated sample results were greater than 10X the value found in the instrument blank/CCB. No qualifiers were added as part of this data review.

Finding: No qualifiers were added per this evaluation.

Internal Standard and Surrogate Recoveries (VOCs and SVOCs Only)

Not applicable.

Laboratory Control Samples

The Laboratory Control Sample (LCS)/Laboratory Control Sample Duplicate (LCSD) recoveries and Relative Percent Differences (RPDs) were within the project-defined QC acceptance criteria.

Finding: No qualifiers were added per this evaluation.

Matrix Spike/Matrix Spike Duplicates and Laboratory Duplicates

Not applicable.

Field Duplicates (Field Precision)

Not applicable.

Field Procedures

Sample collection and documentation was done in accordance with the Groundwater Sampling and Analysis Plan (SAP; GSI, 2019).

Finding: Field activities were consistent with the SAP.

SUMMARY

The analytical data are usable for the purpose of characterizing groundwater conditions. No qualifiers were added based on this review and evaluation.

REFERENCES

GSI Environmental, Inc., 2019, Groundwater Sampling and Analysis Plan, San Miguel Electric Cooperative, Inc., December 26.

TCEQ 2010. Review and Reporting of COC Concentration Data under TRRP, RG-366/TRRP-13 https://www.tceq.texas.gov/assets/public/comm_exec/pubs/rg/rg-366-trrp-13.pdf

TABLES

TABLE 1
Cross-Reference Field Sample and Laboratory Identifications

Sample Date	Lab	Lab Sample ID	Field Sample ID	Matrix
03/12/2024	EET HOU	860-69805-1	SP-01	Water
03/12/2024	EET HOU	860-69805-2	SP-02	Water
03/12/2024	EET HOU	860-69805-3	SP-03	Water
03/12/2024	EET HOU	860-69805-4	SP-32	Water
03/12/2024	EET HOU	860-69805-5	SP-34	Water

Notes:
1. EET HOU: Eurofins Houston, Stafford, Texas

Attachment A

TCEQ NELAP-Recognized Laboratory Accreditation Certificates

Texas Commission on Environmental Quality

NELAP-Recognized Laboratory Accreditation is hereby awarded to

Eurofins Houston

4147 Greenbriar Dr.
Stafford, TX 77477

in accordance with Texas Water Code Chapter 5, Subchapter R, Title 30 Texas Administrative Code Chapter 25, and the National Environmental Laboratory Accreditation Program.

The laboratory's scope of accreditation includes the fields of accreditation that accompany this certificate. Continued accreditation depends upon successful ongoing participation in the program. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current location(s) and accreditation status for particular methods and analyses (www.tceq.texas.gov/goto/lab). Accreditation does not imply that a product, process, system or person is approved by the Texas Commission on Environmental Quality.

Certificate Number: T104704215-23-53
Effective Date: 8/31/2023
Expiration Date: 6/30/2024

Executive Director Texas Commission on Environmental Quality

Attachment B

Eurofins Houston – Stafford, Texas

Analytical Report

Job ID.: 860-69805-1

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mike Schofield
GSI Environmental Inc
9600 Great Hills Trail
Suite 350E
Austin, Texas 78759

Generated 3/19/2024 1:22:56 PM

JOB DESCRIPTION

San Miguel Electrical Co-Op 1H24

JOB NUMBER

860-69805-1

Eurofins Houston
4145 Greenbriar Dr
Stafford TX 77477

See page two for job notes and contact information.

myEOL

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.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

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3/19/2024 1:22:56 PM

Authorized for release by
Sachin Kudchadkar, Senior Project Manager
Sachin.Kudchadkar@et.eurofinsus.com
(281)748-9025

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Definitions/Glossary

Client: GSI Environmental Inc
Job ID: 860-69805-1
Project/Site: San Miguel Electrical Co-Op 1H24

Qualifiers

HPLC/IC

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.

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
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.
¤	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)
TNTC	Too Numerous To Count

Job Narrative
860-69805-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 3/13/2024 8:07 AM. 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 time was 1.1°C.

HPLC/IC
Method 300_ORGFM_28D: The instrument blank/CCB for analytical batch 860-149572 contained Chloride greater than the method detection limit (MDL), and were not reanalyzed because associated sample(s) results were greater than 10X the value found in the instrument blank/CCB. The data have been reported.

Method 300_ORGFM_28D: The following samples were diluted to bring the concentration of target analytes within the calibration range: SP - 02 (860-69805-2) and SP - 03 (860-69805-3). 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.

Metals
Method 6020A: The following samples were diluted to bring the concentration of target analytes within the calibration range: SP - 01 (860-69805-1), SP - 03 (860-69805-3), SP - 32 (860-69805-4) and SP - 34 (860-69805-5). Elevated reporting limits (RLs) are provided.

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

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

Detection Summary

Client: GSI Environmental Inc
Job ID: 860-69805-1
Project/Site: San Miguel Electrical Co-Op 1H24

Client Sample ID: SP - 01 — Lab Sample ID: 860-69805-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	677		20.0	6.01	mg/L	200		6020A	Total/NA

Client Sample ID: SP - 02 — Lab Sample ID: 860-69805-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate - DL	1840		5.00	2.00	mg/L	10		300.0	Total/NA

Client Sample ID: SP - 03 — Lab Sample ID: 860-69805-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride - DL	4170		5.00	2.50	mg/L	10		300.0	Total/NA
Calcium	1060		20.0	6.01	mg/L	200		6020A	Total/NA

Client Sample ID: SP - 32 — Lab Sample ID: 860-69805-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	9.26		1.00	0.401	mg/L	100		6020A	Total/NA
Calcium	821		20.0	6.01	mg/L	200		6020A	Total/NA

Client Sample ID: SP - 34 — Lab Sample ID: 860-69805-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	864		20.0	6.01	mg/L	200		6020A	Total/NA
Total Dissolved Solids	8890		100	100	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SP - 01
Lab Sample ID: 860-69805-1
Date Collected: 03/12/24 12:05
Matrix: Water
Date Received: 03/13/24 08:07

Method: SW846 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	677		20.0	6.01	mg/L		03/13/24 10:00	03/13/24 21:04	200

Client Sample ID: SP - 02
Lab Sample ID: 860-69805-2
Date Collected: 03/12/24 12:40
Matrix: Water
Date Received: 03/13/24 08:07

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	1840		5.00	2.00	mg/L			03/13/24 19:30	10

Client Sample ID: SP - 03
Lab Sample ID: 860-69805-3
Date Collected: 03/12/24 10:50
Matrix: Water
Date Received: 03/13/24 08:07

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4170		5.00	2.50	mg/L			03/13/24 22:52	10

Method: SW846 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	1060		20.0	6.01	mg/L		03/13/24 10:00	03/13/24 21:06	200

Client Sample ID: SP - 32
Lab Sample ID: 860-69805-4
Date Collected: 03/12/24 11:30
Matrix: Water
Date Received: 03/13/24 08:07

Method: SW846 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	9.26		1.00	0.401	mg/L		03/13/24 10:00	03/13/24 21:08	100
Calcium	821		20.0	6.01	mg/L		03/13/24 10:00	03/13/24 21:10	200

Client Sample ID: SP - 34
Lab Sample ID: 860-69805-5
Date Collected: 03/12/24 13:15
Matrix: Water
Date Received: 03/13/24 08:07

Method: SW846 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	864		20.0	6.01	mg/L		03/13/24 10:00	03/13/24 21:12	200

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	8890		100	100	mg/L			03/15/24 16:01	1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-149572/15
Matrix: Water
Analysis Batch: 149572

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.250	U	0.500	0.250	mg/L			03/13/24 17:54	1
Sulfate	0.200	U	0.500	0.200	mg/L			03/13/24 17:54	1

Lab Sample ID: LCS 860-149572/16
Matrix: Water
Analysis Batch: 149572

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	5.00	5.034		mg/L		101	90 - 110
Sulfate	5.00	5.138		mg/L		103	90 - 110

Lab Sample ID: LCSD 860-149572/17
Matrix: Water
Analysis Batch: 149572

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	5.00	5.150		mg/L		103	90 - 110	2	20
Sulfate	5.00	5.136		mg/L		103	90 - 110	0	20

Lab Sample ID: LLCS 860-149572/7
Matrix: Water
Analysis Batch: 149572

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	0.500	0.6114		mg/L		122	50 - 150
Sulfate	0.500	0.3617	J	mg/L		72	50 - 150

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 860-149488/1-A
Matrix: Water
Analysis Batch: 149581

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 149488

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.00401	U	0.0100	0.00401	mg/L		03/13/24 10:00	03/13/24 16:26	1
Calcium	0.0301	U	0.100	0.0301	mg/L		03/13/24 10:00	03/13/24 16:26	1

Lab Sample ID: LCS 860-149488/2-A
Matrix: Water
Analysis Batch: 149581

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 149488

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	0.100	0.09368		mg/L		94	80 - 120
Calcium	2.50	2.606		mg/L		104	80 - 120

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSD 860-149488/3-A
Client Sample ID: Lab Control Sample Dup
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 149581
Prep Batch: 149488

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron			0.100	0.09689		mg/L		97	80 - 120	3	20
Calcium			2.50	2.673		mg/L		107	80 - 120	3	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 860-150014/1
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 150014

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5.00	U	5.00	5.00	mg/L			03/15/24 16:01	1

Lab Sample ID: LCS 860-150014/2
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 150014

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			1000	1112		mg/L		111	80 - 120		

Lab Sample ID: LCSD 860-150014/3
Client Sample ID: Lab Control Sample Dup
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 150014

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids			1000	1111		mg/L		111	80 - 120	0	10

Lab Sample ID: LLCS 860-150014/4
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 150014

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			5.00	6.000		mg/L		120	50 - 150		

QC Association Summary

Client: GSI Environmental Inc
Job ID: 860-69805-1
Project/Site: San Miguel Electrical Co-Op 1H24

HPLC/IC

Analysis Batch: 149572

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-69805-2 - DL	SP - 02	Total/NA	Water	300.0	
860-69805-3 - DL	SP - 03	Total/NA	Water	300.0	
MB 860-149572/15	Method Blank	Total/NA	Water	300.0	
LCS 860-149572/16	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-149572/17	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-149572/7	Lab Control Sample	Total/NA	Water	300.0	

Metals

Prep Batch: 149488

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-69805-1	SP - 01	Total/NA	Water	3010A	
860-69805-3	SP - 03	Total/NA	Water	3010A	
860-69805-4	SP - 32	Total/NA	Water	3010A	
860-69805-5	SP - 34	Total/NA	Water	3010A	
MB 860-149488/1-A	Method Blank	Total/NA	Water	3010A	
LCS 860-149488/2-A	Lab Control Sample	Total/NA	Water	3010A	
LCSD 860-149488/3-A	Lab Control Sample Dup	Total/NA	Water	3010A	

Analysis Batch: 149581

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-69805-1	SP - 01	Total/NA	Water	6020A	149488
860-69805-3	SP - 03	Total/NA	Water	6020A	149488
860-69805-4	SP - 32	Total/NA	Water	6020A	149488
860-69805-4	SP - 32	Total/NA	Water	6020A	149488
860-69805-5	SP - 34	Total/NA	Water	6020A	149488
MB 860-149488/1-A	Method Blank	Total/NA	Water	6020A	149488
LCS 860-149488/2-A	Lab Control Sample	Total/NA	Water	6020A	149488
LCSD 860-149488/3-A	Lab Control Sample Dup	Total/NA	Water	6020A	149488

General Chemistry

Analysis Batch: 150014

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-69805-5	SP - 34	Total/NA	Water	SM 2540C	
MB 860-150014/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-150014/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-150014/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
LLCS 860-150014/4	Lab Control Sample	Total/NA	Water	SM 2540C	

Lab Chronicle

Client: GSI Environmental Inc
Job ID: 860-69805-1
Project/Site: San Miguel Electrical Co-Op 1H24

Client Sample ID: SP - 01
Lab Sample ID: 860-69805-1
Date Collected: 03/12/24 12:05
Matrix: Water
Date Received: 03/13/24 08:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			50 mL	50 mL	149488	03/13/24 10:00	MD	EET HOU
Total/NA	Analysis	6020A		200			149581	03/13/24 21:04	DP	EET HOU

Client Sample ID: SP - 02
Lab Sample ID: 860-69805-2
Date Collected: 03/12/24 12:40
Matrix: Water
Date Received: 03/13/24 08:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0	DL	10			149572	03/13/24 19:30	A1S	EET HOU

Client Sample ID: SP - 03
Lab Sample ID: 860-69805-3
Date Collected: 03/12/24 10:50
Matrix: Water
Date Received: 03/13/24 08:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0	DL	10			149572	03/13/24 22:52	A1S	EET HOU
Total/NA	Prep	3010A			50 mL	50 mL	149488	03/13/24 10:00	MD	EET HOU
Total/NA	Analysis	6020A		200			149581	03/13/24 21:06	DP	EET HOU

Client Sample ID: SP - 32
Lab Sample ID: 860-69805-4
Date Collected: 03/12/24 11:30
Matrix: Water
Date Received: 03/13/24 08:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			50 mL	50 mL	149488	03/13/24 10:00	MD	EET HOU
Total/NA	Analysis	6020A		100			149581	03/13/24 21:08	DP	EET HOU
Total/NA	Prep	3010A			50 mL	50 mL	149488	03/13/24 10:00	MD	EET HOU
Total/NA	Analysis	6020A		200			149581	03/13/24 21:10	DP	EET HOU

Client Sample ID: SP - 34
Lab Sample ID: 860-69805-5
Date Collected: 03/12/24 13:15
Matrix: Water
Date Received: 03/13/24 08:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			50 mL	50 mL	149488	03/13/24 10:00	MD	EET HOU
Total/NA	Analysis	6020A		200			149581	03/13/24 21:12	DP	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	150014	03/15/24 16:01	MLEI	EET HOU

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: GSI Environmental Inc
Job ID: 860-69805-1
Project/Site: San Miguel Electrical Co-Op 1H24

Laboratory: Eurofins Houston

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215	06-30-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
6020A	3010A	Water	Calcium

Method Summary

Client: GSI Environmental Inc
Job ID: 860-69805-1
Project/Site: San Miguel Electrical Co-Op 1H24

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	EPA	EET HOU
6020A	Metals (ICP/MS)	SW846	EET HOU
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET HOU
3010A	Preparation, Total Metals	SW846	EET HOU

Protocol References:

EPA = US Environmental Protection Agency

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 HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Sample Summary

Client: GSI Environmental Inc
Job ID: 860-69805-1
Project/Site: San Miguel Electrical Co-Op 1H24

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-69805-1	SP - 01	Water	03/12/24 12:05	03/13/24 08:07
860-69805-2	SP - 02	Water	03/12/24 12:40	03/13/24 08:07
860-69805-3	SP - 03	Water	03/12/24 10:50	03/13/24 08:07
860-69805-4	SP - 32	Water	03/12/24 11:30	03/13/24 08:07
860-69805-5	SP - 34	Water	03/12/24 13:15	03/13/24 08:07

Eurofins Xenco, Stafford
4147 Greenbriar Dr
Stafford TX 77477
Phone (281) 240-4200

Chain of Custody Record

eurofins

Client Information	Sampler: Scott Use + HMI Team	Lab PM: Kudchadkar Sachin G	Carrier Tracking No(s):	COC No: 860-3614-1220.1
Client Contact: Mike Schofield	Phone: 832-347-4521	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: TX	Page: Page 1 of 1
Company: GSI Environmental Inc	PWSID:			Job #:
Address: 9600 Great Hills Trail Suite 350E	Due Date Requested:			
City: Austin	TAT Requested (days): 48 Hour TAT			
State, Zip: TX, 78759	Compliance Project: Δ Yes Δ No			
Phone: 512-346-4474(Tel) 512-346-4476(Fax)	PO #:			
Email: mlschofield@gsi-net.com	WO #:			
Project Name: San Miguel Electrical Co-Op GW 1H24 Ltd. Resample	Project #: 86001746			
Site: Ash Pile	SSOW#:			

Analysis Requested

Preservation Codes:

A	HCL	M	Hexane
B	NaOH	N	None
C	Zn Acetate	O	AsNaO2
D	Nitric Acid	P	Na2O4S
E	NaHSO4	Q	Na2SO3
F	MeOH	R	Na2S2O3
G	Amchlor	S	H2SO4
H	Ascorbic Acid	T	TSP Dodecahydrate
I	Ice	U	Acetone
J	DI Water	V	MCAA
K	EDTA	W	pH 4-5
L	EDA	Z	other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2320B_Alkalinity	6020A_B,Ca_Eurofins Pittsburg	2540C_TDS (1-Liter plastic unpres)	300_Cl,F,SO4	Chloride (250 ml unpres)	Sulfate (250 ml unpres.)	Calcium (250 ml HNO3)	Boron (250 ml HNO3)	Total Number of containers	Special Instructions/Note
			Preservation Code:				N	D	N	N						
SP-01	3-12-24	1205	G	Water	N	N							✓			
SP-02		1240		Water								✓				
SP-03		1050		Water							✓		✓			
SP-32		1130		Water									✓	✓		
SP-34	↓	1315	↓	Water	↓	↓			✓				✓			
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												

860-69805 Chain of Custody

Temp 0.9 IR ID:HOU-368
C/F:+0.2
Corrected Temp: 1.1

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I II III IV Other (specify)

Special Instructions/QC Requirements: 48 Hour TAT, per GSI

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: Courier Dropoff		
Relinquished by:	Date/Time: 3-13-24 807	Company: HMI	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: CA	Date/Time: 3-13-24 0807	Company E

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: GSI Environmental Inc

Job Number: 860-69805-1

Login Number: 69805

List Source: Eurofins Houston

List Number: 1

Creator: Rubio, Yuri

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are 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 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	

GSI ENVIRONMENTAL

DATA USABILITY SUMMARY

May 2024 Sampling Event (Job ID: 860-73420-1)

OVERVIEW

GSI Environmental Inc. (GSI) reviewed one data package from Eurofins Houston located in Stafford, Texas (EET HOU) for the analysis of **three groundwater samples collected at the Ash Pile on 2 May 2024** at the San Miguel Electric Cooperative, Inc., Christine, Atascosa County, Texas site. Data were reviewed for i) conformance to the requirements of the guidance document *Review and Reporting of COC Concentration Data* (RG-366/TRRP-13) and ii) adherence to project objectives (e.g., GSI 2019). GSI certifies that at the time the laboratory data were generated for the project, EET HOU was National Environmental Laboratory Accreditation Program (NELAP)-accredited under the Texas Laboratory Accreditation Program (Certification Number: T104704215) for the matrices, analytes, and methods of analysis requested on the chain-of-custody documentation. A copy of EET HOU's NELAP certificates applicable to the period during which the laboratory generated the data in this report is included as Attachment A. No radiochemistry analyses were performed because the Ash Pile is in detection monitoring.

Intended Use of Data

Samples were collected to provide current data on groundwater conditions at the test location. The samples were collected as part of a resampling event to confirm concentrations. As a result, a focused list of analytes was requested as compared to a typical semiannual monitoring event at the Ash Pile. Analyses requested included:

- Method 6020A - Metals (Inductively Coupled Plasma (ICP)/Mass Spectrometry)

Data were reviewed and validated, as described in *Review and Reporting of COC Concentration Data* (RG-366/TRRP-13), and the results are discussed in this Data Usability Summary (DUS). The following laboratory submittals and field data were examined:

- the reportable data (i.e., results provided in the laboratory data package),
- the laboratory review checklists and associated exception reports, and
- the field notes with respect to field instrument calibrations, filtering procedures (if applicable), and sampling procedures.

The results of supporting quality control (QC) analyses were summarized in the laboratory case narrative (LCN), which was included in this review. The case narrative and reportable data included in this review are attached to this DUS as Attachment B.

INTRODUCTION

Three (3) water samples were submitted to the laboratory, and all requested analyses were completed. Table 1 lists the sample identifications cross-referenced to laboratory identifications.

PROJECT MEASUREMENT QUALITY OBJECTIVES

The following criteria were used in this review:

	LCS/LCSD	
Analytes	% R	RPD
Metals	80 – 120	20

DATA REVIEW / VALIDATION RESULTS

Analytical Results

Results from these samples may be considered usable with the limitations and exceptions described in this section. Sample data qualified as a result of this DUS, if any, are listed in Table 2. Non-detected results are reported as less than the value of the method detection limit (MDL). Results between the MDL and reporting (RL) are J-flagged.

Finding: All requested analyses were completed, and results were reported as requested.

Preservation and Holding Times

The samples were evaluated for agreement with the chain-of-custody (C-O-C). The samples were received by the laboratory in the appropriate containers and in good condition, with proper completion of the C-O-C documentation. Samples receipt temperature was within the acceptance criteria, and field preservation was done as specified in the Sampling and Analysis Plan [SAP] (GSI, 2019). Samples were prepared and analyzed within method-specified holding times. Items related to sample preparation are listed below.

- Samples SP-03, SP-32 and SP-34 by Method 6020A were diluted to bring the concentration of target analytes within the calibration range. Elevated RLs are provided.

Finding: No qualifiers were added per this evaluation.

Calibrations

No calibration issues were identified in the LCN or during review of the laboratory data package.

Finding: No qualifiers were added per this evaluation.

Blanks

Method (Laboratory) Blanks

No laboratory blank issues were identified in the LCN or during review of the laboratory data package.

Finding: No qualifiers were added per this evaluation.

Internal Standard and Surrogate Recoveries (VOCs and SVOCs Only)

Not applicable.

Laboratory Control Samples

The Laboratory Control Sample (LCS)/Laboratory Control Sample Duplicate (LCSD) recoveries and Relative Percent Differences (RPDs) were within the project-defined QC acceptance criteria.

Finding: No qualifiers were added per this evaluation.

Matrix Spike/Matrix Spike Duplicates and Laboratory Duplicates

Not applicable.

Field Duplicates (Field Precision)

Not applicable.

Field Procedures

Sample collection and documentation was done in accordance with the Groundwater Sampling and Analysis Plan (SAP; GSI, 2019).

Finding: Field activities were consistent with the SAP.

SUMMARY

The analytical data are usable for the purpose of characterizing groundwater conditions. No qualifiers were added based on this review and evaluation.

REFERENCES

GSI Environmental, Inc., 2019, Groundwater Sampling and Analysis Plan, San Miguel Electric Cooperative, Inc., December 26.

TCEQ 2010. Review and Reporting of COC Concentration Data under TRRP, RG-366/TRRP-13 https://www.tceq.texas.gov/assets/public/comm_exec/pubs/rg/rg-366-trrp-13.pdf

TABLES

TABLE 1
Cross-Reference Field Sample and Laboratory Identifications

Sample Date	Lab	Lab Sample ID	Field Sample ID	Matrix
05/02/2024	EET HOU	860-73420-1	SP-03	Water
05/02/2024	EET HOU	860-73420-2	SP-32	Water
05/02/2024	EET HOU	860-73420-3	SP-34	Water

Notes:
1. EET HOU: Eurofins Houston, Stafford, Texas

Attachment A

TCEQ NELAP-Recognized Laboratory Accreditation Certificates

Texas Commission on Environmental Quality

NELAP-Recognized Laboratory Accreditation is hereby awarded to

Eurofins Houston

4147 Greenbriar Dr.
Stafford, TX 77477

in accordance with Texas Water Code Chapter 5, Subchapter R, Title 30 Texas Administrative Code Chapter 25, and the National Environmental Laboratory Accreditation Program.

The laboratory's scope of accreditation includes the fields of accreditation that accompany this certificate. Continued accreditation depends upon successful ongoing participation in the program. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current location(s) and accreditation status for particular methods and analyses (www.tceq.texas.gov/goto/lab). Accreditation does not imply that a product, process, system or person is approved by the Texas Commission on Environmental Quality.

Certificate Number: T104704215-23-53
Effective Date: 8/31/2023
Expiration Date: 6/30/2024

Executive Director Texas Commission on Environmental Quality

Attachment B

Eurofins Houston – Stafford, Texas

Analytical Report

Job ID.: 860-73420-1

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mike Schofield
GSI Environmental Inc
9600 Great Hills Trail
Suite 350E
Austin, Texas 78759

Generated 5/6/2024 5:18:06 PM

JOB DESCRIPTION

San Miguel Electrical Co-Op 2H23 GW

JOB NUMBER

860-73420-1

Eurofins Houston
4145 Greenbriar Dr
Stafford TX 77477

See page two for job notes and contact information.

my EOL

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.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Generated
5/6/2024 5:18:06 PM

Authorized for release by
Sachin Kudchadkar, Senior Project Manager
Sachin.Kudchadkar@et.eurofinsus.com
(281)748-9025

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Definitions/Glossary

Client: GSI Environmental Inc
Job ID: 860-73420-1
Project/Site: San Miguel Electrical Co-Op 2H23 GW

Qualifiers

Metals

Qualifier	Qualifier Description
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.
¤	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)
TNTC	Too Numerous To Count

Job ID: 860-73420-1 — Eurofins Houston

Job Narrative
860-73420-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 5/3/2024 9:14 AM. 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 time was 2.1°C.

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

Detection Summary

Client: GSI Environmental Inc
Job ID: 860-73420-1
Project/Site: San Miguel Electrical Co-Op 2H23 GW

Client Sample ID: SP-03 — Lab Sample ID: 860-73420-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	939		40.0	12.0	mg/L	400		6020A	Total/NA

Client Sample ID: SP-32 — Lab Sample ID: 860-73420-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	604		40.0	12.0	mg/L	400		6020A	Total/NA

Client Sample ID: SP-34 — Lab Sample ID: 860-73420-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	821		40.0	12.0	mg/L	400		6020A	Total/NA

This Detection Summary does not include radiochemical test results.

Client: GSI Environmental Inc
Job ID: 860-73420-1
Project/Site: San Miguel Electrical Co-Op 2H23 GW

Client Sample ID: SP-03
Lab Sample ID: 860-73420-1
Date Collected: 05/02/24 10:55
Matrix: Water
Date Received: 05/03/24 09:14

Method: SW846 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	939		40.0	12.0	mg/L		05/06/24 09:00	05/06/24 15:57	400

Client Sample ID: SP-32
Lab Sample ID: 860-73420-2
Date Collected: 05/02/24 10:25
Matrix: Water
Date Received: 05/03/24 09:14

Method: SW846 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	604		40.0	12.0	mg/L		05/06/24 09:00	05/06/24 15:59	400

Client Sample ID: SP-34
Lab Sample ID: 860-73420-3
Date Collected: 05/02/24 11:30
Matrix: Water
Date Received: 05/03/24 09:14

Method: SW846 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	821		40.0	12.0	mg/L		05/06/24 09:00	05/06/24 16:01	400

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 860-158492/1-B
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 158707
Prep Batch: 158595

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	0.0301	U	0.100	0.0301	mg/L		05/06/24 09:00	05/06/24 14:22	1

Lab Sample ID: LCS 860-158492/2-B
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 158707
Prep Batch: 158595

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Calcium			2.50	2.553		mg/L		102	80 - 120		

Lab Sample ID: LCSD 860-158492/3-B
Client Sample ID: Lab Control Sample Dup
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 158707
Prep Batch: 158595

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium			2.50	2.504		mg/L		100	80 - 120	2	20

QC Association Summary

Client: GSI Environmental Inc
Job ID: 860-73420-1
Project/Site: San Miguel Electrical Co-Op 2H23 GW

Metals

Filtration Batch: 158492

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-158492/1-B	Method Blank	Total/NA	Water	Filtration	
LCS 860-158492/2-B	Lab Control Sample	Total/NA	Water	Filtration	
LCSD 860-158492/3-B	Lab Control Sample Dup	Total/NA	Water	Filtration	

Prep Batch: 158595

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-73420-1	SP-03	Total/NA	Water	3010A	
860-73420-2	SP-32	Total/NA	Water	3010A	
860-73420-3	SP-34	Total/NA	Water	3010A	
MB 860-158492/1-B	Method Blank	Total/NA	Water	3010A	158492
LCS 860-158492/2-B	Lab Control Sample	Total/NA	Water	3010A	158492
LCSD 860-158492/3-B	Lab Control Sample Dup	Total/NA	Water	3010A	158492

Analysis Batch: 158707

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-73420-1	SP-03	Total/NA	Water	6020A	158595
860-73420-2	SP-32	Total/NA	Water	6020A	158595
860-73420-3	SP-34	Total/NA	Water	6020A	158595
MB 860-158492/1-B	Method Blank	Total/NA	Water	6020A	158595
LCS 860-158492/2-B	Lab Control Sample	Total/NA	Water	6020A	158595
LCSD 860-158492/3-B	Lab Control Sample Dup	Total/NA	Water	6020A	158595

Lab Chronicle

Client: GSI Environmental Inc
Job ID: 860-73420-1
Project/Site: San Miguel Electrical Co-Op 2H23 GW

Client Sample ID: SP-03
Lab Sample ID: 860-73420-1
Date Collected: 05/02/24 10:55
Matrix: Water
Date Received: 05/03/24 09:14

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			50 mL	50 mL	158595	05/06/24 09:00	MD	EET HOU
Total/NA	Analysis	6020A		400			158707	05/06/24 15:57	DP	EET HOU

Client Sample ID: SP-32
Lab Sample ID: 860-73420-2
Date Collected: 05/02/24 10:25
Matrix: Water
Date Received: 05/03/24 09:14

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			50 mL	50 mL	158595	05/06/24 09:00	MD	EET HOU
Total/NA	Analysis	6020A		400			158707	05/06/24 15:59	DP	EET HOU

Client Sample ID: SP-34
Lab Sample ID: 860-73420-3
Date Collected: 05/02/24 11:30
Matrix: Water
Date Received: 05/03/24 09:14

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			50 mL	50 mL	158595	05/06/24 09:00	MD	EET HOU
Total/NA	Analysis	6020A		400			158707	05/06/24 16:01	DP	EET HOU

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: GSI Environmental Inc
Job ID: 860-73420-1
Project/Site: San Miguel Electrical Co-Op 2H23 GW

Laboratory: Eurofins Houston

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215	06-30-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
6020A	3010A	Water	Calcium

Method Summary

Client: GSI Environmental Inc
Job ID: 860-73420-1
Project/Site: San Miguel Electrical Co-Op 2H23 GW

Method	Method Description	Protocol	Laboratory
6020A	Metals (ICP/MS)	SW846	EET HOU
3010A	Preparation, Total Metals	SW846	EET HOU

Protocol References:

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

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Sample Summary

Client: GSI Environmental Inc
Job ID: 860-73420-1
Project/Site: San Miguel Electrical Co-Op 2H23 GW

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-73420-1	SP-03	Water	05/02/24 10:55	05/03/24 09:14
860-73420-2	SP-32	Water	05/02/24 10:25	05/03/24 09:14
860-73420-3	SP-34	Water	05/02/24 11:30	05/03/24 09:14

Eurofins Xenco, Stafford
4147 Greenbriar Dr
Stafford, TX 77477
Phone (281) 240-4200

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: Jakob Trojan	Lab PM: Kudchadkar Sachin G	Carrier Tracking No(s):	COC No: 860-3614-1220.1
Client Contact: Mike Schofield	Phone: 832 314-8099	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: TX	Page: Page
Company: GSI Environmental, Inc	PWSID:			Job #:
Address: 9600 Great Hills Trail Suite 350E	Due Date Requested:			
City: Austin	TAT Requested (days): 24 HOW TAT			
State, Zip: TX, 78759	Compliance Project: Δ Yes Δ No			
Phone: 512-346-4474(Tel) 512-346-4476(Fax)	PO #:			
Email: mlschofield@gsi-net.com	WO #:			
Project Name: San Miguel Electrical Co-Op GW (MW 24 Resample)	Project #: 86001746			
Site: Ash Pond	SSOW#:			

Analysis Requested

Preservation Codes:

A HCL M Hexane
B NaOH N None
C Zn Acetate O AsNaO2
D Nitric Acid P Na2O4S
E NaHSO4 Q Na2SO3
F MeOH R Na2S2O3
G Amchlor S H2SO4
H Ascorbic Acid T TSP Dodecahydrate
I Ice U Acetone
J DI Water V MCAA
K EDTA W pH 4-5
L EDA Z other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2320B, Alkalinity	6020A -7470- B, Ca, Be, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl;Hg- Eurofins Pittsburg (Cal, Mn only)	2540C_TDS	300- Cl, F, SO4	901.1_Ra- Rad 228 Eurofins St Louis	SM7500_Ra_B Rad 226- South Bend IN	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	N	D	N	N	D	D	X	
SP 03	5-2-24	1055	G	Water				X					1	
SP-32	↓	1025	G	Water				X					1	
SP 34		1130	G	Water				X					1	
				Water										
				Water										
				Water										
				Water										
				Water										
				Water										
				Water										
				Water										

860-73420 Chain of Custody

Temp: 19 IR ID:HOU-368
C/F +0.2
Corrected Temp: 2.1

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III IV Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	Jakob Trojan	5-3 24 0914	HMI			
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by: CC	Date/Time: 5/3/24 0914	Company E

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks.

Ver 01/16/2019

Login Sample Receipt Checklist

Client: GSI Environmental Inc

Job Number: 860-73420-1

Login Number: 73420

List Source: Eurofins Houston

List Number: 1

Creator: Rubio, Yuri

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are 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 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	

Job No. 5076
Issued: 31 January 2025

2024 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

San Miguel Electric Cooperative, Inc.
Christine, Atascosa County, Texas

Appendix B.2 Data Usability Summaries – August 2024

GSI ENVIRONMENTAL

DATA USABILITY SUMMARY

August 2024 Sampling Event (Job ID: 860-80540-1)

OVERVIEW

GSI Environmental Inc. (GSI) reviewed one data package from Eurofins Houston located in Stafford, Texas (EET HOU) for the analysis of **eight groundwater samples collected at the Ash Pile on 14 August 2024**[1] at the San Miguel Electric Cooperative, Inc., Christine, Atascosa County, Texas site. Data were reviewed for i) conformance to the requirements of the guidance document *Review and Reporting of COC Concentration Data* (RG-366/TRRP-13) and ii) adherence to project objectives (e.g., GSI 2019). The majority of analyses were conducted by EET HOU, while the metals analyses were conducted by the Eurofins Pittsburgh, Pennsylvania (EET PIT) laboratory. GSI certifies that at the time the laboratory data were generated for the project, EET HOU and EET PIT were National Environmental Laboratory Accreditation Program (NELAP)-accredited under the Texas Laboratory Accreditation Program (Certification Number: T104704215 and T104704528 respectively) for the matrices, analytes, and methods of analysis requested on the chain-of-custody documentation. A copy of EET HOU and EET PIT's NELAP certificates applicable to the period during which the laboratory generated the data in this report is included as Attachment A. No radiochemistry analyses were performed because the Ash Pile is in detection monitoring.

Intended Use of Data

Samples were collected to provide current data on groundwater conditions at the test location. Analyses requested included:

- Method 6020A - Metals (Inductively Coupled Plasma (ICP)/Mass Spectrometry)
- Method 300.0 – Anions, Ion Chromatography
- Method SM2320B - Alkalinity
- Method SM2540C - Total Dissolved Solids (TDS)

Data were reviewed and validated, as described in *Review and Reporting of COC Concentration Data* (RG-366/TRRP-13), and the results are discussed in this Data Usability Summary (DUS). The following laboratory submittals and field data were examined:

- the reportable data (i.e., results provided in the laboratory data package),
- the laboratory review checklists and associated exception reports, and
- the field notes with respect to field instrument calibrations, filtering procedures (if applicable), and sampling procedures.

The results of supporting quality control (QC) analyses were summarized in the laboratory case narrative (LCN), which was included in this review. The case narrative and reportable data included in this review are attached to this DUS as Attachment B.

[1] Six samples plus one field duplicate and one field blank.

INTRODUCTION

Eight (8) water samples were submitted to the laboratory, and all requested analyses were completed. Table 1 lists the sample identifications cross-referenced to laboratory identifications.

PROJECT MEASUREMENT QUALITY OBJECTIVES

The following criteria were used in this review:

Analytes	MS/MSD % R	MS/MSD RPD	LCS/LCSD % R	LCS/LCSD RPD	Lab Dup RPD	Field Precision RPD
Metals	75 – 125	20	80 – 120	-	-	≤ 30%
Inorganic Anions	90 – 110	15	90 – 110	20	-	≤ 30%
Alkalinity	-	-	85 – 115	20	20	≤ 30%
Total Dissolved Solids (TDS)	-	-	80 – 120	-	10	≤ 30%

DATA REVIEW / VALIDATION RESULTS

Analytical Results

Results from these samples may be considered usable with the limitations and exceptions described in this section. Sample data qualified as a result of this DUS, if any, are listed in Table 3. Non-detected results are reported as less than the value of the method detection limit (MDL). Results between the MDL and reporting (RL) are J-flagged.

Finding: All requested analyses were completed, and results were reported as requested.

Preservation and Holding Times

The samples were evaluated for agreement with the chain-of-custody (C-O-C). The samples were received by the laboratory in the appropriate containers and in good condition, with proper completion of the C-O-C documentation. Samples receipt temperature was within the acceptance criteria, and field preservation was done as specified in the Sampling and Analysis Plan [SAP] (GSI, 2019). Samples were prepared and analyzed within method-specified holding times, with exceptions noted below. Items related to the C-O-C are also listed below.

- The sample identified as DUP-01 on the C-O-C is a field duplicate of sample SP-02.

Items related to sample preparation are listed below.

- Samples SP-34, SP-01, SP-02, SP-03, SP-32, SP-35, DUP-01 and FB-01 by Method 300.0 were diluted to bring the concentration of target analytes within the calibration range. Elevated RLs are provided.

- Samples SP-34, SP-01, SP-02, SP-03, SP-32, SP-35 and DUP-01 by Method 6020A were diluted to bring the concentration of target analytes within the calibration range. Elevated RLs are provided.

Finding: No qualifiers were added per this evaluation.

Calibrations

No issues were noted with the laboratory calibrations in the LCN or lab report.

Finding: No qualifiers were added per this evaluation.

Blanks

Method (Laboratory) Blanks

No issues were noted with the laboratory blanks.

Field Blanks

The following issues were noted with the blank collected in the field:

- Chloride, Calcium, Sodium, and TDS were detected in the Field Blank at concentrations above the MDL. The field blank sample (FB-01) consists of distilled water that is exposed to ambient air on the day of sample collection. All field samples collected contained concentrations of Chloride, Calcium, Sodium, and TDS that were greater than 5X the associated field blank concentration and did not require qualifiers.

Finding: No qualifiers were added per this evaluation.

Internal Standard and Surrogate Recoveries (VOCs and SVOCs Only)

Not applicable.

Laboratory Control Samples

No issues were noted with the Laboratory Control Sample (LCS)/Laboratory Control Sample Duplicate (LCSD) recoveries in the LCN or lab report.

Finding: No qualifiers were added per this evaluation.

Matrix Spike/Matrix Spike Duplicates and Laboratory Duplicates

The LCN and lab report indicated the following issues with matrix spike (MS)/matrix spike duplicate (MSD) data:

- By Method 300.0, the recoveries for analytical batch 182326 analyzed using sample SP-34 were outside control limits for Fluoride (MS/MSD) and Sulfate (MS/MSD). Recoveries of Fluoride in the MS/MSD samples were 125% and 124%, respectively, above the desired range of 90-110%. Recoveries of Sulfate in the MS/MSD samples were 123% and 122%, respectively, above the desired range of 90-110%. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample/laboratory control sample duplicate (LCS/LCSD) recoveries were within acceptance limits. “JH” flags were given to samples with detected results for Fluoride in the same analytical batch (SP-01 and SP-32). The spiking amounts for Sulfate were less than 4 times the result in the unspiked parent sample; therefore, no qualifiers were added as part of this evaluation.

- By Method 6020A, the recoveries for analytical batch 477804 and preparation batch 477242 analyzed using sample SP-34 were outside control limits for Sodium (MS/MSD), Calcium (MS/MSD), and Boron (MS/MSD). Recoveries of Sodium in the MS/MSD samples were 200% and 56%, respectively, outside the desired range of 75-125%. Recoveries of Calcium in the MS/MSD samples were 248% and 159%, respectively, above the desired range of 75-125%. Recoveries of Boron in the MS/MSD samples were -217% and -289%, respectively, below the desired range of 75-125%. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample/laboratory control sample duplicate (LCS/LCSD) recoveries were within acceptance limits. In addition, the spiking amounts were less than 4 times the result in the unspiked parent sample. As a result, no additional qualifiers were added as part of this evaluation.

Finding: "JH" flags were given to the Fluoride results for samples SP-01 and SP-32 per this evaluation.

Field Duplicates (Field Precision)

One field duplicate, identified as DUP-01, was collected with sample SP-02. Results indicate that, RPDs between the parent and duplicate sample results were less than the TCEQ-recommended maximum of 40% (organics) or 30% (metals) for concentrations greater than five times the MQL, or the difference between concentrations was less than twice the MQL for analytes with concentrations less than five times the MQL for the majority of analyses. A comparison of the field sample and the duplicate sample are shown in Table 2.

Finding: No qualifiers were added per this evaluation.

Field Procedures

Sample collection and documentation was done in accordance with the Groundwater Sampling and Analysis Plan (SAP; GSI, 2019).

Finding: Field activities were consistent with the SAP.

SUMMARY

The analytical data are usable for the purpose of characterizing groundwater conditions. In addition, qualifiers were added based on this review and evaluation (see Table 3).

REFERENCES

GSI Environmental, Inc., 2019, Groundwater Sampling and Analysis Plan, San Miguel Electric Cooperative, Inc., December 26.

TCEQ 2010. Review and Reporting of COC Concentration Data under TRRP, RG-366/TRRP-13 https://www.tceq.texas.gov/assets/public/comm_exec/pubs/rg/rg-366-trrp-13.pdf

TABLES

TABLE 1
Cross-Reference Field Sample and Laboratory Identifications

Sample Date	Lab	Lab Sample ID	Field Sample ID	Matrix
08/14/2024	EET HOU/EET PIT	860-80540-1	SP-34	Water
08/14/2024	EET HOU/EET PIT	860-80540-2	SP-01	Water
08/14/2024	EET HOU/EET PIT	860-80540-3	SP-02	Water
08/14/2024	EET HOU/EET PIT	860-80540-4	SP-03	Water
08/14/2024	EET HOU/EET PIT	860-80540-5	SP-32	Water
08/14/2024	EET HOU/EET PIT	860-80540-6	SP-35	Water
08/14/2024	EET HOU/EET PIT	860-80540-7	DUP-01	Water
08/14/2024	EET HOU/EET PIT	860-80540-8	FB-01	Water

Notes:
1. EET HOU: Eurofins Houston, Stafford, Texas; EET PIT: Eurofins Pittsburgh, Pittsburgh, Pennsylvania

TABLE 2
Field Duplicate Detections

Analyte	MDL (mg/L)	Primary Sample Result (mg/L)	Field Duplicate Result (mg/L)	Relative Percent Difference (RPD)
Chloride	2.50	2800	2860	2.1
Fluoride	1.00	<1.00	<1.00	0.0
Sulfate	2.00	2100	2130	1.4
Sodium	18.4	1810	1790	1.1
Potassium	15.6	41.8 J	47.3 J	12.3
Calcium	12.7	867	904	4.2
Magnesium	7.89	38.3 J	44.3 J	14.5
Boron	6.01	13.7	13.5	1.5
Total Alkalinity	4.00	53.5	51.7	3.4
Bicarbonate Alkalinity as CaCO3	4.00	53.5	51.7	3.4
Carbonate Alkalinity as CaCO3	4.00	<4.00	<4.00	0.0
Hydroxide Alkalinity	4.00	<4.00	<4.00	0.0
Total Dissolved Solids	100	8120	7900	2.7

Notes:
1. MDL: Method Detection Limit
2. mg/L: milligrams per liter
3. RPD = ABS(PR-FD)/AVERAGE(PR+FD)*100), where PR is the Primary Sample and FD is the Field Duplicate, where the MDL is substituted for results below detection.
4. < = analyte not detected at the stated limit; J = result is less than the reporting limit but greater than or equal to to the MDL and the concentration is an approximate value
5. CaCO3: Calcium carbonate

TABLE 3
Qualifiers Added During Data Usability Review

Sample ID	Analyte	Lab Result	Unit	DUS Qualifier or Bias Code	Reason for Qualification	Analysis Batch Number	Report Number
SP-01	Fluoride	16.4	mg/L	JH	MS/MSD %R above specifications	182326	860-80540-1
SP-32	Fluoride	6.97	mg/L	JH	MS/MSD %R above specifications	182326	860-80540-1

Notes:
1. mg/L: milligrams per liter
2. JH: estimated value, biased high
3. MS/MSD: matrix spike/matrix spike duplicate
4. %R: percent recovery

Attachment A

TCEQ NELAP-Recognized Laboratory Accreditation Certificates

Texas Commission on Environmental Quality

Certificate of Accreditation

Accreditation is hereby granted to

Eurofins Houston
4147 Greenbriar Dr.
Stafford, TX 77477

State Lab ID: T104704215
Effective Date: 07/01/2024
Expiration Date: 06/30/2025
Document ID: TX-C24-00243

Conditions of Accreditation

This laboratory has been found to conform with TCEQ rules and applicable standards for laboratory accreditation. The scope of accreditation is limited to the Fields of Accreditation (FoA) specifically listed on the subsequent page(s) of this certificate. Accreditation is for all version of a method approved per 40 CFR 136, 40 CFR 141, and/ or 40 CFR 143. Continued accreditation requires ongoing compliance with all applicable standards and requirements.

Note: For the attached FoA table, matrices may include DW (drinking water), NPW (non-potable water), S (solid and chemical materials), A (air), and/ or BT (biological tissue).

Issued By: Kelly Keel, Executive Director Texas Commission on Environmental Quality
Date Issued: 07/01/2024

Texas Commission on Environmental Quality

Certificate of Accreditation

Accreditation is hereby granted to

Eurofins Pittsburgh
301 Alpha Drive
Pittsburgh, PA 15238-2907

State Lab ID: T104704528
Effective Date: 04/09/2024
Expiration Date: 03/31/2025
Document ID: TX-C24-00110

Conditions of Accreditation

This laboratory has been found to conform with TCEQ rules and applicable standards for laboratory accreditation. The scope of accreditation is limited to the Fields of Accreditation specifically listed on the subsequent page(s) of this certificate. Accreditation is for all version of a method approved per 40 CFR 136, 40 CFR 141, and/ or 40 CFR 143. Continued accreditation requires ongoing compliance with all applicable standards and requirements.

Issued By: Kelly Keel, Executive Director Texas Commission on Environmental Quality
Date Issued: 04/09/2024

Attachment B

Eurofins Houston – Stafford, Texas

Analytical Report

Job ID.: 860-80540-1

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mike Schofield
GSI Environmental Inc
9600 Great Hills Trail
Suite 350E
Austin, Texas 78759

Generated 8/29/2024 6:00:08 PM

JOB DESCRIPTION

San Miguel Electrical Co-Op 2H23 GW

JOB NUMBER

860-80540-1

Eurofins Houston
4145 Greenbriar Dr
Stafford TX 77477

See page two for job notes and contact information.

my EOL

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.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Generated
8/29/2024 6:00:08 PM

Authorized for release by
Sachin Kudchadkar, Senior Project Manager
Sachin.Kudchadkar@et.eurofinsus.com
(281)748-9025

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Qualifiers

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
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.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
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.

General Chemistry

Qualifier	Qualifier Description
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.
¤	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)
TNTC	Too Numerous To Count

Job Narrative
860-80540-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 8/15/2024 9:39 AM. 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 time was 4.8°C.

HPLC/IC
Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-182326 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 300_ORGFM_28D: The following samples were diluted to bring the concentration of target analytes within the calibration range: SP-34 (860-80540-1), SP-01 (860-80540-2), SP-02 (860-80540-3), SP-03 (860-80540-4), SP-32 (860-80540-5), SP-35 (860-80540-6), DUP-01 (860-80540-7) and FB-01 (860-80540-8). 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.

Metals
Method 6020A - Total Recoverable: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 180-477242 and analytical batch 180-477804 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 6020A - Total Recoverable: The following samples were diluted to bring the concentration of target analytes within the calibration range: SP-34 (860-80540-1), SP-34 (860-80540-1[MS]), SP-34 (860-80540-1[MSD]), SP-01 (860-80540-2), SP-02 (860-80540-3), SP-03 (860-80540-4), SP-32 (860-80540-5), SP-35 (860-80540-6) and DUP-01 (860-80540-7). Elevated reporting limits (RLs) are provided. Due to the matrix of the samples, no lower dilution was performed.

Method 6020A - Total Recoverable: The following samples were diluted to bring the concentration of target analytes within the calibration range: SP-34 (860-80540-1), SP-02 (860-80540-3), SP-03 (860-80540-4), SP-32 (860-80540-5), SP-35 (860-80540-6) and DUP-01 (860-80540-7). Elevated reporting limits (RLs) are provided.

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

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

Detection Summary

Client: GSI Environmental Inc
Job ID: 860-80540-1
Project/Site: San Miguel Electrical Co-Op 2H23 GW

Client Sample ID: SP-34 — Lab Sample ID: 860-80540-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	2250		50.0	25.0	mg/L	100		300.0	Total/NA
Sulfate	2540	F1	50.0	20.0	mg/L	100		300.0	Total/NA
Sodium	1660		50.0	18.4	mg/L	100		EPA 6020A	Total Recoverable
Potassium	32.6	J	50.0	15.6	mg/L	100		EPA 6020A	Total Recoverable
Calcium	771		50.0	12.7	mg/L	100		EPA 6020A	Total Recoverable
Magnesium	87.9		50.0	7.89	mg/L	100		EPA 6020A	Total Recoverable
Boron	13.3		8.00	6.01	mg/L	100		EPA 6020A	Total Recoverable
Total Dissolved Solids	8130		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SP-01 — Lab Sample ID: 860-80540-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	3200		5.00	2.50	mg/L	10		300.0	Total/NA
Fluoride	16.4		5.00	1.00	mg/L	10		300.0	Total/NA
Sulfate - DL	7540		50.0	20.0	mg/L	100		300.0	Total/NA
Sodium	2950		50.0	18.4	mg/L	100		EPA 6020A	Total Recoverable
Calcium	576		50.0	12.7	mg/L	100		EPA 6020A	Total Recoverable
Magnesium	264		50.0	7.89	mg/L	100		EPA 6020A	Total Recoverable
Boron	8.84		8.00	6.01	mg/L	100		EPA 6020A	Total Recoverable
Total Dissolved Solids	14900		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SP-02 — Lab Sample ID: 860-80540-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	2800		5.00	2.50	mg/L	10		300.0	Total/NA
Sulfate	2100		5.00	2.00	mg/L	10		300.0	Total/NA
Sodium	1810		50.0	18.4	mg/L	100		EPA 6020A	Total Recoverable
Potassium	41.8	J	50.0	15.6	mg/L	100		EPA 6020A	Total Recoverable
Calcium	867		50.0	12.7	mg/L	100		EPA 6020A	Total Recoverable
Magnesium	38.3	J	50.0	7.89	mg/L	100		EPA 6020A	Total Recoverable
Boron	13.7		8.00	6.01	mg/L	100		EPA 6020A	Total Recoverable
Total Alkalinity	53.5		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	53.5		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	8120		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SP-03 — Lab Sample ID: 860-80540-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	4750		5.00	2.50	mg/L	10		300.0	Total/NA
Sulfate	2670		5.00	2.00	mg/L	10		300.0	Total/NA
Sodium	3180		50.0	18.4	mg/L	100		EPA 6020A	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Houston

Client Sample ID: SP-03 (Continued) — Lab Sample ID: 860-80540-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	64.2		50.0	15.6	mg/L	100		EPA 6020A	Total Recoverable
Calcium	953		50.0	12.7	mg/L	100		EPA 6020A	Total Recoverable
Magnesium	110		50.0	7.89	mg/L	100		EPA 6020A	Total Recoverable
Boron	8.88		8.00	6.01	mg/L	100		EPA 6020A	Total Recoverable
Total Dissolved Solids	11900		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SP-32 — Lab Sample ID: 860-80540-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	2450		5.00	2.50	mg/L	10		300.0	Total/NA
Fluoride	6.97		5.00	1.00	mg/L	10		300.0	Total/NA
Sulfate - DL	5880		50.0	20.0	mg/L	100		300.0	Total/NA
Sodium	2570		50.0	18.4	mg/L	100		EPA 6020A	Total Recoverable
Potassium	17.9	J	50.0	15.6	mg/L	100		EPA 6020A	Total Recoverable
Calcium	580		50.0	12.7	mg/L	100		EPA 6020A	Total Recoverable
Magnesium	172		50.0	7.89	mg/L	100		EPA 6020A	Total Recoverable
Boron	9.89		8.00	6.01	mg/L	100		EPA 6020A	Total Recoverable
Total Dissolved Solids	11300		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SP-35 — Lab Sample ID: 860-80540-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1760		5.00	2.50	mg/L	10		300.0	Total/NA
Sulfate	3680		5.00	2.00	mg/L	10		300.0	Total/NA
Sodium	2110		50.0	18.4	mg/L	100		EPA 6020A	Total Recoverable
Potassium	68.0		50.0	15.6	mg/L	100		EPA 6020A	Total Recoverable
Calcium	664		50.0	12.7	mg/L	100		EPA 6020A	Total Recoverable
Magnesium	78.8		50.0	7.89	mg/L	100		EPA 6020A	Total Recoverable
Boron	8.54		8.00	6.01	mg/L	100		EPA 6020A	Total Recoverable
Total Alkalinity	195		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	195		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	9080		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: DUP-01 — Lab Sample ID: 860-80540-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	2860		5.00	2.50	mg/L	10		300.0	Total/NA
Sulfate	2130		5.00	2.00	mg/L	10		300.0	Total/NA
Sodium	1790		50.0	18.4	mg/L	100		EPA 6020A	Total Recoverable
Potassium	47.3	J	50.0	15.6	mg/L	100		EPA 6020A	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: DUP-01 (Continued)
Lab Sample ID: 860-80540-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	904		50.0	12.7	mg/L	100		EPA 6020A	Total Recoverable
Magnesium	44.3	J	50.0	7.89	mg/L	100		EPA 6020A	Total Recoverable
Boron	13.5		8.00	6.01	mg/L	100		EPA 6020A	Total Recoverable
Total Alkalinity	51.7		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	51.7		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	7900		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: FB-01
Lab Sample ID: 860-80540-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	26.1		5.00	2.50	mg/L	10		300.0	Total/NA
Sodium	1.29		0.500	0.184	mg/L	1		EPA 6020A	Total Recoverable
Calcium	0.551		0.500	0.127	mg/L	1		EPA 6020A	Total Recoverable
Total Dissolved Solids	23.0		5.00	5.00	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SP-34
Lab Sample ID: 860-80540-1

Date Collected: 08/14/24 12:25
Matrix: Water
Date Received: 08/15/24 09:39

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2250**		50.0	25.0	mg/L			08/19/24 19:54	100
Fluoride	10.0	U F1	50.0	10.0	mg/L			08/19/24 19:54	100
Sulfate	**2540**	**F1**	50.0	20.0	mg/L			08/19/24 19:54	100

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	**1660**		50.0	18.4	mg/L		08/21/24 10:25	08/27/24 15:59	100
Potassium	**32.6**	**J**	50.0	15.6	mg/L		08/21/24 10:25	08/27/24 15:59	100
Calcium	**771**		50.0	12.7	mg/L		08/21/24 10:25	08/27/24 15:59	100
Magnesium	**87.9**		50.0	7.89	mg/L		08/21/24 10:25	08/27/24 15:59	100
Boron	**13.3**		8.00	6.01	mg/L		08/21/24 10:25	08/28/24 14:24	100

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/16/24 16:06	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/16/24 16:06	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/16/24 16:06	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/16/24 16:06	1
Total Dissolved Solids (SM 2540C)	**8130**		100	100	mg/L			08/21/24 12:38	1

Client Sample ID: SP-01
Lab Sample ID: 860-80540-2

Date Collected: 08/14/24 09:40
Matrix: Water
Date Received: 08/15/24 09:39

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3200**		5.00	2.50	mg/L			08/19/24 20:38	10
Fluoride	**16.4**		5.00	1.00	mg/L			08/19/24 20:38	10

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**7540**		50.0	20.0	mg/L			08/19/24 20:46	100

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	**2950**		50.0	18.4	mg/L		08/21/24 10:25	08/27/24 16:07	100
Potassium	15.6	U	50.0	15.6	mg/L		08/21/24 10:25	08/27/24 16:07	100
Calcium	**576**		50.0	12.7	mg/L		08/21/24 10:25	08/27/24 16:07	100
Magnesium	**264**		50.0	7.89	mg/L		08/21/24 10:25	08/27/24 16:07	100
Boron	**8.84**		8.00	6.01	mg/L		08/21/24 10:25	08/28/24 14:33	100

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/16/24 17:55	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/16/24 17:55	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/16/24 17:55	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/16/24 17:55	1
Total Dissolved Solids (SM 2540C)	**14900**		100	100	mg/L			08/21/24 12:38	1

Client Sample ID: SP-02

Lab Sample ID: 860-80540-3

Date Collected: 08/14/24 10:55

Matrix: Water

Date Received: 08/15/24 09:39

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2800**		5.00	2.50	mg/L			08/19/24 20:53	10
Fluoride	1.00	U	5.00	1.00	mg/L			08/19/24 20:53	10
Sulfate	**2100**		5.00	2.00	mg/L			08/19/24 20:53	10

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	**1810**		50.0	18.4	mg/L		08/21/24 10:25	08/27/24 16:16	100
Potassium	**41.8**	**J**	50.0	15.6	mg/L		08/21/24 10:25	08/27/24 16:16	100
Calcium	**867**		50.0	12.7	mg/L		08/21/24 10:25	08/27/24 16:16	100
Magnesium	**38.3**	**J**	50.0	7.89	mg/L		08/21/24 10:25	08/27/24 16:16	100
Boron	**13.7**		8.00	6.01	mg/L		08/21/24 10:25	08/28/24 14:41	100

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	**53.5**		4.00	4.00	mg/L			08/16/24 17:36	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**53.5**		4.00	4.00	mg/L			08/16/24 17:36	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/16/24 17:36	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/16/24 17:36	1
Total Dissolved Solids (SM 2540C)	**8120**		100	100	mg/L			08/21/24 12:38	1

Client Sample ID: SP-03

Lab Sample ID: 860-80540-4

Date Collected: 08/14/24 10:15

Matrix: Water

Date Received: 08/15/24 09:39

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4750**		5.00	2.50	mg/L			08/19/24 21:08	10
Fluoride	1.00	U	5.00	1.00	mg/L			08/19/24 21:08	10
Sulfate	**2670**		5.00	2.00	mg/L			08/19/24 21:08	10

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	**3180**		50.0	18.4	mg/L		08/21/24 10:25	08/27/24 16:18	100
Potassium	**64.2**		50.0	15.6	mg/L		08/21/24 10:25	08/27/24 16:18	100
Calcium	**953**		50.0	12.7	mg/L		08/21/24 10:25	08/27/24 16:18	100
Magnesium	**110**		50.0	7.89	mg/L		08/21/24 10:25	08/27/24 16:18	100
Boron	**8.88**		8.00	6.01	mg/L		08/21/24 10:25	08/28/24 14:44	100

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/16/24 17:29	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/16/24 17:29	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/16/24 17:29	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/16/24 17:29	1
Total Dissolved Solids (SM 2540C)	**11900**		100	100	mg/L			08/21/24 12:38	1

Client Sample ID: SP-32

Lab Sample ID: 860-80540-5

Date Collected: 08/14/24 08:55

Matrix: Water

Date Received: 08/15/24 09:39

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2450**		5.00	2.50	mg/L			08/19/24 21:23	10
Fluoride	**6.97**		5.00	1.00	mg/L			08/19/24 21:23	10

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**5880**		50.0	20.0	mg/L			08/19/24 21:31	100

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	**2570**		50.0	18.4	mg/L		08/21/24 10:25	08/27/24 16:21	100
Potassium	**17.9**	**J**	50.0	15.6	mg/L		08/21/24 10:25	08/27/24 16:21	100
Calcium	**580**		50.0	12.7	mg/L		08/21/24 10:25	08/27/24 16:21	100
Magnesium	**172**		50.0	7.89	mg/L		08/21/24 10:25	08/27/24 16:21	100
Boron	**9.89**		8.00	6.01	mg/L		08/21/24 10:25	08/28/24 14:47	100

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/16/24 15:21	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/16/24 15:21	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/16/24 15:21	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/16/24 15:21	1
Total Dissolved Solids (SM 2540C)	**11300**		100	100	mg/L			08/21/24 12:38	1

Client Sample ID: SP-35

Lab Sample ID: 860-80540-6

Date Collected: 08/14/24 11:55

Matrix: Water

Date Received: 08/15/24 09:39

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1760**		5.00	2.50	mg/L			08/19/24 21:38	10
Fluoride	1.00	U	5.00	1.00	mg/L			08/19/24 21:38	10
Sulfate	**3680**		5.00	2.00	mg/L			08/19/24 21:38	10

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	**2110**		50.0	18.4	mg/L		08/21/24 10:25	08/27/24 16:24	100
Potassium	**68.0**		50.0	15.6	mg/L		08/21/24 10:25	08/27/24 16:24	100
Calcium	**664**		50.0	12.7	mg/L		08/21/24 10:25	08/27/24 16:24	100
Magnesium	**78.8**		50.0	7.89	mg/L		08/21/24 10:25	08/27/24 16:24	100
Boron	**8.54**		8.00	6.01	mg/L		08/21/24 10:25	08/28/24 14:49	100

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	**195**		4.00	4.00	mg/L			08/16/24 15:16	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**195**		4.00	4.00	mg/L			08/16/24 15:16	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/16/24 15:16	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/16/24 15:16	1
Total Dissolved Solids (SM 2540C)	**9080**		100	100	mg/L			08/21/24 12:38	1

Client Sample ID: DUP-01
Lab Sample ID: 860-80540-7

Date Collected: 08/14/24 09:00
Matrix: Water
Date Received: 08/15/24 09:39

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2860**		5.00	2.50	mg/L			08/19/24 22:08	10
Fluoride	1.00	U	5.00	1.00	mg/L			08/19/24 22:08	10
Sulfate	**2130**		5.00	2.00	mg/L			08/19/24 22:08	10

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	**1790**		50.0	18.4	mg/L		08/21/24 10:25	08/27/24 16:27	100
Potassium	**47.3**	**J**	50.0	15.6	mg/L		08/21/24 10:25	08/27/24 16:27	100
Calcium	**904**		50.0	12.7	mg/L		08/21/24 10:25	08/27/24 16:27	100
Magnesium	**44.3**	**J**	50.0	7.89	mg/L		08/21/24 10:25	08/27/24 16:27	100
Boron	**13.5**		8.00	6.01	mg/L		08/21/24 10:25	08/28/24 14:52	100

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	**51.7**		4.00	4.00	mg/L			08/16/24 15:08	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**51.7**		4.00	4.00	mg/L			08/16/24 15:08	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/16/24 15:08	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/16/24 15:08	1
Total Dissolved Solids (SM 2540C)	**7900**		100	100	mg/L			08/21/24 12:38	1

Client Sample ID: FB-01
Lab Sample ID: 860-80540-8

Date Collected: 08/14/24 10:25
Matrix: Water
Date Received: 08/15/24 09:39

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**26.1**		5.00	2.50	mg/L			08/19/24 22:23	10
Fluoride	1.00	U	5.00	1.00	mg/L			08/19/24 22:23	10
Sulfate	2.00	U	5.00	2.00	mg/L			08/19/24 22:23	10

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	**1.29**		0.500	0.184	mg/L		08/21/24 10:25	08/27/24 14:13	1
Potassium	0.156	U	0.500	0.156	mg/L		08/21/24 10:25	08/27/24 14:13	1
Calcium	**0.551**		0.500	0.127	mg/L		08/21/24 10:25	08/27/24 14:13	1
Magnesium	0.0789	U	0.500	0.0789	mg/L		08/21/24 10:25	08/27/24 14:13	1
Boron	0.0601	U	0.0800	0.0601	mg/L		08/21/24 10:25	08/27/24 14:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/16/24 17:43	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/16/24 17:43	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/16/24 17:43	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/16/24 17:43	1
Total Dissolved Solids (SM 2540C)	**23.0**		5.00	5.00	mg/L			08/21/24 12:38	1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-182326/13
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 182326

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.250	U	0.500	0.250	mg/L			08/19/24 17:28	1
Fluoride	0.100	U	0.500	0.100	mg/L			08/19/24 17:28	1
Sulfate	0.200	U	0.500	0.200	mg/L			08/19/24 17:28	1

Lab Sample ID: LCS 860-182326/14
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 182326

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			10.0	10.29		mg/L		103	90 - 110		
Fluoride			10.0	9.843		mg/L		98	90 - 110		
Sulfate			10.0	9.996		mg/L		100	90 - 110		

Lab Sample ID: LCSD 860-182326/15
Client Sample ID: Lab Control Sample Dup
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 182326

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			10.0	10.36		mg/L		104	90 - 110	1	20
Fluoride			10.0	9.817		mg/L		98	90 - 110	0	20
Sulfate			10.0	9.962		mg/L		100	90 - 110	0	20

Lab Sample ID: LLCS 860-182326/17
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 182326

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			0.500	0.5020		mg/L		100	50 - 150		
Fluoride			0.500	0.4954	J	mg/L		99	50 - 150		
Sulfate			0.500	0.5455		mg/L		109	50 - 150		

Lab Sample ID: 860-80540-1 MS
Client Sample ID: SP-34
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 182326

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	2250		1000	3203		mg/L		96	90 - 110		
Fluoride	10.0	U F1	1000	1248	F1	mg/L		125	90 - 110		
Sulfate	2540	F1	1000	3763	F1	mg/L		123	90 - 110		

Lab Sample ID: 860-80540-1 MSD
Client Sample ID: SP-34
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 182326

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	2250		1000	3199		mg/L		95	90 - 110	0	15
Fluoride	10.0	U F1	1000	1243	F1	mg/L		124	90 - 110	0	15
Sulfate	2540	F1	1000	3760	F1	mg/L		122	90 - 110	0	15

Method: EPA 6020A - Metals (ICP/MS)

Lab Sample ID: MB 180-477242/1-B
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total Recoverable
Analysis Batch: 477804
Prep Batch: 477242

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	0.184	U	0.500	0.184	mg/L		08/21/24 10:25	08/27/24 13:59	1
Potassium	0.156	U	0.500	0.156	mg/L		08/21/24 10:25	08/27/24 13:59	1
Calcium	0.127	U	0.500	0.127	mg/L		08/21/24 10:25	08/27/24 13:59	1
Magnesium	0.0789	U	0.500	0.0789	mg/L		08/21/24 10:25	08/27/24 13:59	1
Boron	0.0601	U	0.0800	0.0601	mg/L		08/21/24 10:25	08/27/24 13:59	1

Lab Sample ID: LCS 180-477242/2-B
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total Recoverable
Analysis Batch: 477804
Prep Batch: 477242

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sodium	25.0	27.04		mg/L		108	80 - 120
Potassium	25.0	26.58		mg/L		106	80 - 120
Calcium	25.0	27.58		mg/L		110	80 - 120
Magnesium	25.0	26.35		mg/L		105	80 - 120
Boron	0.250	0.2680		mg/L		107	80 - 120

Lab Sample ID: 860-80540-1 MS
Client Sample ID: SP-34
Matrix: Water
Prep Type: Total Recoverable
Analysis Batch: 477804
Prep Batch: 477242

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sodium	1660		25.0	1710	4	mg/L		200	75 - 125
Potassium	32.6	J	25.0	53.24		mg/L		83	75 - 125
Calcium	771		25.0	833.0	4	mg/L		248	75 - 125
Magnesium	87.9		25.0	113.2		mg/L		101	75 - 125

Lab Sample ID: 860-80540-1 MS
Client Sample ID: SP-34
Matrix: Water
Prep Type: Total Recoverable
Analysis Batch: 477875
Prep Batch: 477242

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	13.3		0.250	12.78	4	mg/L		-217	75 - 125

Lab Sample ID: 860-80540-1 MSD
Client Sample ID: SP-34
Matrix: Water
Prep Type: Total Recoverable
Analysis Batch: 477804
Prep Batch: 477242

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sodium	1660		25.0	1674	4	mg/L		56	75 - 125	2	20
Potassium	32.6	J	25.0	60.78		mg/L		113	75 - 125	13	20
Calcium	771		25.0	810.7	4	mg/L		159	75 - 125	3	20
Magnesium	87.9		25.0	112.4		mg/L		98	75 - 125	1	20

Lab Sample ID: 860-80540-1 MSD
Client Sample ID: SP-34
Matrix: Water
Prep Type: Total Recoverable
Analysis Batch: 477875
Prep Batch: 477242

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	13.3		0.250	12.60	4	mg/L		-289	75 - 125	1	20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-182148/17
Matrix: Water
Analysis Batch: 182148

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	4.00	U	4.00	4.00	mg/L			08/16/24 11:53	1
Bicarbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			08/16/24 11:53	1
Carbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			08/16/24 11:53	1
Hydroxide Alkalinity	4.00	U	4.00	4.00	mg/L			08/16/24 11:53	1

Lab Sample ID: MB 860-182148/48
Matrix: Water
Analysis Batch: 182148

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	4.00	U	4.00	4.00	mg/L			08/16/24 15:44	1
Bicarbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			08/16/24 15:44	1
Carbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			08/16/24 15:44	1
Hydroxide Alkalinity	4.00	U	4.00	4.00	mg/L			08/16/24 15:44	1

Lab Sample ID: LCS 860-182148/18
Matrix: Water
Analysis Batch: 182148

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity	250	246.9		mg/L		99	85 - 115

Lab Sample ID: LCS 860-182148/49
Matrix: Water
Analysis Batch: 182148

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity	250	242.4		mg/L		97	85 - 115

Lab Sample ID: LCSD 860-182148/19
Matrix: Water
Analysis Batch: 182148

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Alkalinity	250	249.6		mg/L		100	85 - 115	1	20

Lab Sample ID: LCSD 860-182148/50
Matrix: Water
Analysis Batch: 182148

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Alkalinity	250	245.3		mg/L		98	85 - 115	1	20

Lab Sample ID: 860-80540-1 DU
Matrix: Water
Analysis Batch: 182148

Client Sample ID: SP-34
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Alkalinity	4.00	U	4.00	U	mg/L		NC	20
Bicarbonate Alkalinity as CaCO3	4.00	U	4.00	U	mg/L		NC	20

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: 860-80540-1 DU
Matrix: Water
Analysis Batch: 182148

Client Sample ID: SP-34
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Carbonate Alkalinity as CaCO3	4.00	U	4.00	U	mg/L		NC	20
Hydroxide Alkalinity	4.00	U	4.00	U	mg/L		NC	20

Lab Sample ID: MB 860-182558/4
Matrix: Water
Analysis Batch: 182558

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	4.00	U	4.00	4.00	mg/L			08/19/24 12:31	1
Bicarbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			08/19/24 12:31	1
Carbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			08/19/24 12:31	1
Hydroxide Alkalinity	4.00	U	4.00	4.00	mg/L			08/19/24 12:31	1

Lab Sample ID: LCS 860-182558/5
Matrix: Water
Analysis Batch: 182558

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity	250	239.5		mg/L		96	85 - 115

Lab Sample ID: LCSD 860-182558/6
Matrix: Water
Analysis Batch: 182558

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Alkalinity	250	241.6		mg/L		97	85 - 115	1	20

Lab Sample ID: 860-80540-1 DU
Matrix: Water
Analysis Batch: 182558

Client Sample ID: SP-34
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Alkalinity	4.00	U	4.00	U	mg/L		NC	20
Bicarbonate Alkalinity as CaCO3	4.00	U	4.00	U	mg/L		NC	20
Carbonate Alkalinity as CaCO3	4.00	U	4.00	U	mg/L		NC	20
Hydroxide Alkalinity	4.00	U	4.00	U	mg/L		NC	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 860-182771/1
Matrix: Water
Analysis Batch: 182771

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5.00	U	5.00	5.00	mg/L			08/21/24 12:38	1

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: LCS 860-182771/2
Matrix: Water
Analysis Batch: 182771

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			1000	1074		mg/L		107	80 - 120		

Lab Sample ID: LLCS 860-182771/3
Matrix: Water
Analysis Batch: 182771

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

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			5.00	7.000		mg/L		140	50 - 150		

Lab Sample ID: 860-80540-1 DU
Matrix: Water
Analysis Batch: 182771

Client Sample ID: SP-34
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	8130			8180		mg/L				0.6	10

HPLC/IC

Analysis Batch: 182326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-80540-1	SP-34	Total/NA	Water	300.0	
860-80540-2	SP-01	Total/NA	Water	300.0	
860-80540-2 - DL	SP-01	Total/NA	Water	300.0	
860-80540-3	SP-02	Total/NA	Water	300.0	
860-80540-4	SP-03	Total/NA	Water	300.0	
860-80540-5	SP-32	Total/NA	Water	300.0	
860-80540-5 - DL	SP-32	Total/NA	Water	300.0	
860-80540-6	SP-35	Total/NA	Water	300.0	
860-80540-7	DUP-01	Total/NA	Water	300.0	
860-80540-8	FB-01	Total/NA	Water	300.0	
MB 860-182326/13	Method Blank	Total/NA	Water	300.0	
LCS 860-182326/14	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-182326/15	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-182326/17	Lab Control Sample	Total/NA	Water	300.0	
860-80540-1 MS	SP-34	Total/NA	Water	300.0	
860-80540-1 MSD	SP-34	Total/NA	Water	300.0	

Metals

Prep Batch: 477242

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-80540-1	SP-34	Total Recoverable	Water	3005A	
860-80540-2	SP-01	Total Recoverable	Water	3005A	
860-80540-3	SP-02	Total Recoverable	Water	3005A	
860-80540-4	SP-03	Total Recoverable	Water	3005A	
860-80540-5	SP-32	Total Recoverable	Water	3005A	
860-80540-6	SP-35	Total Recoverable	Water	3005A	
860-80540-7	DUP-01	Total Recoverable	Water	3005A	
860-80540-8	FB-01	Total Recoverable	Water	3005A	
MB 180-477242/1-B	Method Blank	Total Recoverable	Water	3005A	
LCS 180-477242/2-B	Lab Control Sample	Total Recoverable	Water	3005A	
860-80540-1 MS	SP-34	Total Recoverable	Water	3005A	
860-80540-1 MSD	SP-34	Total Recoverable	Water	3005A	

Analysis Batch: 477804

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-80540-1	SP-34	Total Recoverable	Water	EPA 6020A	477242
860-80540-2	SP-01	Total Recoverable	Water	EPA 6020A	477242
860-80540-3	SP-02	Total Recoverable	Water	EPA 6020A	477242
860-80540-4	SP-03	Total Recoverable	Water	EPA 6020A	477242
860-80540-5	SP-32	Total Recoverable	Water	EPA 6020A	477242
860-80540-6	SP-35	Total Recoverable	Water	EPA 6020A	477242
860-80540-7	DUP-01	Total Recoverable	Water	EPA 6020A	477242
860-80540-8	FB-01	Total Recoverable	Water	EPA 6020A	477242
MB 180-477242/1-B	Method Blank	Total Recoverable	Water	EPA 6020A	477242
LCS 180-477242/2-B	Lab Control Sample	Total Recoverable	Water	EPA 6020A	477242
860-80540-1 MS	SP-34	Total Recoverable	Water	EPA 6020A	477242
860-80540-1 MSD	SP-34	Total Recoverable	Water	EPA 6020A	477242

Metals

Analysis Batch: 477875

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-80540-1	SP-34	Total Recoverable	Water	EPA 6020A	477242
860-80540-2	SP-01	Total Recoverable	Water	EPA 6020A	477242
860-80540-3	SP-02	Total Recoverable	Water	EPA 6020A	477242
860-80540-4	SP-03	Total Recoverable	Water	EPA 6020A	477242
860-80540-5	SP-32	Total Recoverable	Water	EPA 6020A	477242
860-80540-6	SP-35	Total Recoverable	Water	EPA 6020A	477242
860-80540-7	DUP-01	Total Recoverable	Water	EPA 6020A	477242
860-80540-1 MS	SP-34	Total Recoverable	Water	EPA 6020A	477242
860-80540-1 MSD	SP-34	Total Recoverable	Water	EPA 6020A	477242

General Chemistry

Analysis Batch: 182148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-80540-1	SP-34	Total/NA	Water	SM 2320B	
860-80540-2	SP-01	Total/NA	Water	SM 2320B	
860-80540-3	SP-02	Total/NA	Water	SM 2320B	
860-80540-4	SP-03	Total/NA	Water	SM 2320B	
860-80540-5	SP-32	Total/NA	Water	SM 2320B	
860-80540-6	SP-35	Total/NA	Water	SM 2320B	
860-80540-7	DUP-01	Total/NA	Water	SM 2320B	
860-80540-8	FB-01	Total/NA	Water	SM 2320B	
MB 860-182148/17	Method Blank	Total/NA	Water	SM 2320B	
MB 860-182148/48	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-182148/18	Lab Control Sample	Total/NA	Water	SM 2320B	
LCS 860-182148/49	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-182148/19	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
LCSD 860-182148/50	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
860-80540-1 DU	SP-34	Total/NA	Water	SM 2320B	

Analysis Batch: 182558

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-182558/4	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-182558/5	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-182558/6	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
860-80540-1 DU	SP-34	Total/NA	Water	SM 2320B	

Analysis Batch: 182771

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-80540-1	SP-34	Total/NA	Water	SM 2540C	
860-80540-2	SP-01	Total/NA	Water	SM 2540C	
860-80540-3	SP-02	Total/NA	Water	SM 2540C	
860-80540-4	SP-03	Total/NA	Water	SM 2540C	
860-80540-5	SP-32	Total/NA	Water	SM 2540C	
860-80540-6	SP-35	Total/NA	Water	SM 2540C	
860-80540-7	DUP-01	Total/NA	Water	SM 2540C	
860-80540-8	FB-01	Total/NA	Water	SM 2540C	
MB 860-182771/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-182771/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LLCS 860-182771/3	Lab Control Sample	Total/NA	Water	SM 2540C	
860-80540-1 DU	SP-34	Total/NA	Water	SM 2540C	

Client Sample ID: SP-34
Lab Sample ID: 860-80540-1

Date Collected: 08/14/24 12:25
Matrix: Water
Date Received: 08/15/24 09:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		100			182326	08/19/24 19:54	A1S	EET HOU
Total Recoverable	Prep	3005A			25 mL	25 mL	477242	08/21/24 10:25	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		100			477804	08/27/24 15:59	LWM	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	477242	08/21/24 10:25	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		100			477875	08/28/24 14:24	LWM	EET PIT
Total/NA	Analysis	SM 2320B		1			182148	08/16/24 16:06	RY	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	182771	08/21/24 12:38	TR	EET HOU

Client Sample ID: SP-01
Lab Sample ID: 860-80540-2

Date Collected: 08/14/24 09:40
Matrix: Water
Date Received: 08/15/24 09:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		10			182326	08/19/24 20:38	A1S	EET HOU
Total/NA	Analysis	300.0	DL	100			182326	08/19/24 20:46	A1S	EET HOU
Total Recoverable	Prep	3005A			25 mL	25 mL	477242	08/21/24 10:25	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		100			477804	08/27/24 16:07	LWM	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	477242	08/21/24 10:25	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		100			477875	08/28/24 14:33	LWM	EET PIT
Total/NA	Analysis	SM 2320B		1			182148	08/16/24 17:55	RY	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	182771	08/21/24 12:38	TR	EET HOU

Client Sample ID: SP-02
Lab Sample ID: 860-80540-3

Date Collected: 08/14/24 10:55
Matrix: Water
Date Received: 08/15/24 09:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		10			182326	08/19/24 20:53	A1S	EET HOU
Total Recoverable	Prep	3005A			25 mL	25 mL	477242	08/21/24 10:25	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		100			477804	08/27/24 16:16	LWM	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	477242	08/21/24 10:25	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		100			477875	08/28/24 14:41	LWM	EET PIT
Total/NA	Analysis	SM 2320B		1			182148	08/16/24 17:36	RY	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	182771	08/21/24 12:38	TR	EET HOU

Client Sample ID: SP-03
Lab Sample ID: 860-80540-4

Date Collected: 08/14/24 10:15
Matrix: Water
Date Received: 08/15/24 09:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		10			182326	08/19/24 21:08	A1S	EET HOU
Total Recoverable	Prep	3005A			25 mL	25 mL	477242	08/21/24 10:25	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		100			477804	08/27/24 16:18	LWM	EET PIT

Client Sample ID: SP-03
Lab Sample ID: 860-80540-4

Date Collected: 08/14/24 10:15
Matrix: Water
Date Received: 08/15/24 09:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			25 mL	25 mL	477242	08/21/24 10:25	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		100			477875	08/28/24 14:44	LWM	EET PIT
Total/NA	Analysis	SM 2320B		1			182148	08/16/24 17:29	RY	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	182771	08/21/24 12:38	TR	EET HOU

Client Sample ID: SP-32
Lab Sample ID: 860-80540-5

Date Collected: 08/14/24 08:55
Matrix: Water
Date Received: 08/15/24 09:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		10			182326	08/19/24 21:23	A1S	EET HOU
Total/NA	Analysis	300.0	DL	100			182326	08/19/24 21:31	A1S	EET HOU
Total Recoverable	Prep	3005A			25 mL	25 mL	477242	08/21/24 10:25	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		100			477804	08/27/24 16:21	LWM	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	477242	08/21/24 10:25	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		100			477875	08/28/24 14:47	LWM	EET PIT
Total/NA	Analysis	SM 2320B		1			182148	08/16/24 15:21	RY	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	182771	08/21/24 12:38	TR	EET HOU

Client Sample ID: SP-35
Lab Sample ID: 860-80540-6

Date Collected: 08/14/24 11:55
Matrix: Water
Date Received: 08/15/24 09:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		10			182326	08/19/24 21:38	A1S	EET HOU
Total Recoverable	Prep	3005A			25 mL	25 mL	477242	08/21/24 10:25	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		100			477804	08/27/24 16:24	LWM	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	477242	08/21/24 10:25	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		100			477875	08/28/24 14:49	LWM	EET PIT
Total/NA	Analysis	SM 2320B		1			182148	08/16/24 15:16	RY	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	182771	08/21/24 12:38	TR	EET HOU

Client Sample ID: DUP-01
Lab Sample ID: 860-80540-7

Date Collected: 08/14/24 09:00
Matrix: Water
Date Received: 08/15/24 09:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		10			182326	08/19/24 22:08	A1S	EET HOU
Total Recoverable	Prep	3005A			25 mL	25 mL	477242	08/21/24 10:25	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		100			477804	08/27/24 16:27	LWM	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	477242	08/21/24 10:25	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		100			477875	08/28/24 14:52	LWM	EET PIT
Total/NA	Analysis	SM 2320B		1			182148	08/16/24 15:08	RY	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	182771	08/21/24 12:38	TR	EET HOU

Lab Chronicle

Client: GSI Environmental Inc
Job ID: 860-80540-1
Project/Site: San Miguel Electrical Co-Op 2H23 GW

Client Sample ID: FB-01
Lab Sample ID: 860-80540-8

Date Collected: 08/14/24 10:25
Matrix: Water

Date Received: 08/15/24 09:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		10			182326	08/19/24 22:23	A1S	EET HOU
Total Recoverable	Prep	3005A			25 mL	25 mL	477242	08/21/24 10:25	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			477804	08/27/24 14:13	LWM	EET PIT
Total/NA	Analysis	SM 2320B		1			182148	08/16/24 17:43	RY	EET HOU
Total/NA	Analysis	SM 2540C		1	200 mL	200 mL	182771	08/21/24 12:38	TR	EET HOU

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

EET PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Accreditation/Certification Summary

Client: GSI Environmental Inc
Job ID: 860-80540-1
Project/Site: San Miguel Electrical Co-Op 2H23 GW

Laboratory: Eurofins Houston

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
SM 2320B		Water	Bicarbonate Alkalinity as CaCO3
SM 2320B		Water	Carbonate Alkalinity as CaCO3
SM 2320B		Water	Hydroxide Alkalinity

Laboratory: Eurofins Pittsburgh

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

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	06-28-25
California	State	2891	04-30-24 *
Connecticut	State	PH-0688	09-30-24
Florida	NELAP	E871008	06-30-25
Georgia	State	PA 02-00416	04-30-25
Illinois	NELAP	004375	07-31-25
Kansas	NELAP	E-10350	01-31-25
Kentucky (UST)	State	162013	04-30-25
Kentucky (WW)	State	KY98043	12-31-24
Louisiana	NELAP	04041	06-30-22 *
Louisiana (All)	NELAP	04041	06-30-25
Maine	State	PA00164	03-06-26
Minnesota	NELAP	042-999-482	12-31-24
New Hampshire	NELAP	2030	04-04-25
New Jersey	NELAP	PA005	06-30-25
New York	NELAP	11182	04-01-25
North Carolina (WW/SW)	State	434	12-31-24
North Dakota	State	R-227	04-30-24 *
Oregon	NELAP	PA-2151	02-06-25
Pennsylvania	NELAP	02-00416	04-30-25
Rhode Island	State	LAO00362	01-01-25
South Carolina	State	89014	04-30-25
Texas	NELAP	T104704528	03-31-25
US Fish & Wildlife	US Federal Programs	058448	04-30-25
USDA	US Federal Programs	P330-16-00211	04-11-26
Utah	NELAP	PA001462024-14	05-31-25
Virginia	NELAP	10043	07-14-24 *
West Virginia DEP	State	142	01-31-25
Wisconsin	State	998027800	08-31-25

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: GSI Environmental Inc
Job ID: 860-80540-1
Project/Site: San Miguel Electrical Co-Op 2H23 GW

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	EPA	EET HOU
EPA 6020A	Metals (ICP/MS)	SW846	EET PIT
SM 2320B	Alkalinity	SM	EET HOU
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET HOU
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET PIT

Protocol References:

EPA = US Environmental Protection Agency

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 HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

EET PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Sample Summary

Client: GSI Environmental Inc
Job ID: 860-80540-1
Project/Site: San Miguel Electrical Co-Op 2H23 GW

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-80540-1	SP-34	Water	08/14/24 12:25	08/15/24 09:39
860-80540-2	SP-01	Water	08/14/24 09:40	08/15/24 09:39
860-80540-3	SP-02	Water	08/14/24 10:55	08/15/24 09:39
860-80540-4	SP-03	Water	08/14/24 10:15	08/15/24 09:39
860-80540-5	SP-32	Water	08/14/24 08:55	08/15/24 09:39
860-80540-6	SP-35	Water	08/14/24 11:55	08/15/24 09:39
860-80540-7	DUP-01	Water	08/14/24 09:00	08/15/24 09:39
860-80540-8	FB-01	Water	08/14/24 10:25	08/15/24 09:39

Eurofins Xenco, Stafford
4147 Greenbriar Dr
Stafford, TX 77477
Phone (281) 240-4200

Chain of Custody Record

eurofins | Environment Testing America

8/29/2024

Client Information	Sampler: Mason Boyd + HMT Team	Lab PM: Kudchadkar Sachin G	Carrier Tracking No(s):	COC No: 860-3614-1220.1
Client Contact: Mike Schofield	Phone: 281-725-4825	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin:	Page: Page 1 of 1
Company: GSI Environmental, Inc	PWSID:			Job #:
Address: 9600 Great Hills Trail Suite 350E	Due Date Requested:			
City: Austin	TAT Requested (days):			
State, Zip: TX, 78759	Compliance Project: Δ Yes Δ No			
Phone: 512-346-4474(Tel) 512-346-4476(Fax)	PO #:			
Email: mlschofield@gsi-net.com	WO #:			
Project Name: San Miguel Electrical Co-Op GW	Project #: 86001746			
Site: Ash Pile	SSOW#:			

Analysis Requested

Preservation Codes:

A	HCL	M	Hexane
B	NaOH	N	None
C	Zn Acetate	O	AsNaO2
D	Nitric Acid	P	Na2O4S
E	NaHSO4	Q	Na2SO3
F	MeOH	R	Na2S2O3
G	Amchlor	S	H2SO4
H	Ascorbic Acid	T	TSP Dodecahydrate
I	Ice	U	Acetone
J	DI Water	V	MCAA
K	EDTA	W	pH 4-5
L	EDA	Z	other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2320B, Alkalinity	6020A -B, Ca Eurofins Pittsburg (+Na, Mg, K)	2540C_TDS	300- Cl, F SO4	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	D	N	N		
SP-34	8-14-24	1225	G	Water	N		X	X	X	X		
SP-01		940		Water			X	X	X	X		
SP-02		1055		Water			X	X	X	X		
SP-03		1015		Water			X	X	X	X		
SP-32		855		Water			X	X	X	X		
SP-35		1155		Water			X	X	X	X		
SP-34(MS)		1225		Water		Y	X	X	X	X		
SP-34 (MSD)		1225		Water		Y	X	X	X	X		
Dup-01		900		Water			X	X	X	X		
FB-01	↓	1025	↓	Water	↓		X	X	X	X		
				Water								

860-80540 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I II III, IV Other (specify)

Special Instructions/QC Requirements: ~~Reg-Ltr~~ MDL

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: Cody Springer	Date/Time: 8-15-24/939	Company: HMT	Received by:	Date/Time: 8/15/24 9:39	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.		Cooler Temperature(s) °C and Other Remarks:	HW36P 4 C	

Ver: 01/16/2019

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Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s)	COC No: 860-147090.1
Client Contact: Shipping/Receiving	Phone.	E-Mail: Sachin.Kudchadkar@et.eurofinsus.com	State of Origin: Texas	Page: Page 1 of 2
Company: Eurofins Environment Testing Northeast L		Accreditations Required (See note): NELAP - Texas		Job #: 860-80540-1
Address: 301 Alpha Drive, RIDC Park,	Due Date Requested: 9/10/2024			Preservation Codes:
City: Pittsburgh	TAT Requested (days):			
State, Zip: PA, 15238	PO #:			
Phone: 412-963-7058(Tel) 412-963-2468(Fax)	WO #:			Other:
Email:				
Project Name: San Miguel Electrical Co-Op 2H23 GW	Project #: 86001746			
Site:	SSOW#:			

Analysis Requested

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)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020A/3005A (MOD) Custom List	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
SP-34 (860-80540-1)	8/14/24	12:25 Central		Water			X	1	Please analyze at the lowest possible dilution
SP-34 (860-80540-1MS)	8/14/24	12:25 Central	MS	Water			X	1	Please analyze at the lowest possible dilution
SP-34 (860-80540-1MSD)	8/14/24	12:25 Central	MSD	Water			X	1	Please analyze at the lowest possible dilution
SP-01 (860-80540-2)	8/14/24	09:40 Central		Water			X	1	Please analyze at the lowest possible dilution
SP-02 (860-80540-3)	8/14/24	10:55 Central		Water			X	1	Please analyze at the lowest possible dilution
SP-03 (860-80540-4)	8/14/24	10:15 Central		Water			X	1	Please analyze at the lowest possible dilution
SP-32 (860-80540-5)	8/14/24	08:55 Central		Water			X	1	Please analyze at the lowest possible dilution
SP-35 (860-80540-6)	8/14/24	11:55 Central		Water			X	1	Please analyze at the lowest possible dilution
DUP-01 (860-80540-7)	8/14/24	09:00 Central		Water			X	1	Please analyze at the lowest possible dilution

860-80540 Chain of Custody

Note Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date.	Time:	Method of Shipment:				
Relinquished by:	Date/Time: 8/15/24	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time.	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time.	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks.

4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-147090.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@et.eurofinsus.com	State of Origin: Texas	Page: Page 2 of 2
Company: Eurofins Environment Testing Northeast L		Accreditations Required (See note): NELAP - Texas		Job #: 860-80540-1
Address: 301 Alpha Drive, RIDC Park,	Due Date Requested: 9/10/2024			Preservation Codes:
City: Pittsburgh	TAT Requested (days):			
State, Zip: PA, 15238				
Phone: 412-963-7058(Tel) 412-963-2468(Fax)	PO #:			
Email	WO #:			
Project Name: San Miguel Electrical Co-Op 2H23 GW	Project #: 86001746			
Site	SSOW#:			Other:

Analysis Requested

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)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020A/3005A (MOD) Custom List	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
FB-01 (860-80540-8)	8/14/24	10:25 Central		Water			X	1	Please analyze at the lowest possible dilution

Note. Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested. I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	8/15/24				
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by:	Date/Time	Company	Received by	Date/Time.	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks.

Ver: 04/02/2024

Login Sample Receipt Checklist

Client: GSI Environmental Inc

Job Number: 860-80540-1

Login Number: 80540

List Source: Eurofins Houston

List Number: 1

Creator: Torrez, Lisandra

Question	Answer	Comment
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	

Login Sample Receipt Checklist

Client: GSI Environmental Inc

Job Number: 860-80540-1

Login Number: 80540
List Number: 2
Creator: Mullins, Plumm A

List Source: Eurofins Pittsburgh
List Creation: 08/17/24 01:55 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are 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?	N/A	
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	

DATA USABILITY SUMMARY

August 2024 Sampling Event (Job ID: 860-80537-1)

OVERVIEW

GSI Environmental Inc. (GSI) reviewed one data package from Eurofins Houston located in Stafford, Texas (EET HOU) for the analysis of **fourteen groundwater samples collected from the Ash Ponds on 14 August 2024**[1] at the San Miguel Electric Cooperative, Inc., Christine, Atascosa County, Texas site. Data were reviewed for i) conformance to the requirements of the guidance document *Review and Reporting of COC Concentration Data* (RG-366/TRRP-13) and ii) adherence to project objectives (e.g., GSI 2019). The majority of analyses were conducted by EET HOU, while the metals analyses were conducted by the Eurofins Pittsburgh, Pennsylvania (EET PIT) laboratory and the Radium analyses were conducted by the Eurofins St. Louis, Missouri (EET SL) and Eurofins South Bend, Indiana (EA SB) laboratories. GSI certifies that at the time the laboratory data were generated for the project, EET HOU, EET PIT, EET SL, and EA SB were National Environmental Laboratory Accreditation Program (NELAP)-accredited under the Texas Laboratory Accreditation Program (Certification Number: T104704215, T104704528, T104704193, and T104704187, respectively) for the matrices, analytes, and methods of analysis requested on the chain-of-custody documentation. A copy of EET HOU, EET PIT, EET SL, and EA SB's NELAP certificates applicable to the period during which the laboratory generated the data in this report is included as Attachment A.

Intended Use of Data

Samples were collected to provide current data on groundwater conditions at the test location. Analyses requested included:

- Method 300.0 – Anions, Ion Chromatography
- Method 6020A – Metals (Inductively Coupled Plasma [ICP]/Mass Spectrometry[MS])
- Method 7470A – Mercury (Cold Vapor Atomic Absorption [CVAA] Spectroscopy)
- Method SM2320B – Alkalinity
- Method SM2540C – Total Dissolved Solids (TDS)
- Method 904.0 – Radium-228 (GFPC)
- Method SM7500 Ra B – Radium-226

Data were reviewed and validated, as described in *Review and Reporting of COC Concentration Data* (RG-366/TRRP-13), and the results are discussed in this Data Usability Summary (DUS). The following laboratory submittals and field data were examined:

- the reportable data (i.e., results provided in the laboratory data package),
- the laboratory review checklists and associated exception reports, and

[1] Eleven samples plus one field duplicate, one field blank and one equipment blank.

- the field notes with respect to field instrument calibrations, filtering procedures (if applicable), and sampling procedures.

The results of supporting quality control (QC) analyses were summarized in the laboratory case narrative (LCN), which was included in this review. The case narrative and reportable data included in this review are attached to this DUS as Attachment B.

INTRODUCTION

Fourteen (14) water samples were submitted to the laboratory, and all requested analyses were completed. Table 1 lists the sample identifications cross-referenced to laboratory identifications.

PROJECT MEASUREMENT QUALITY OBJECTIVES

The following criteria were used in this review:

	MS/MSD		LCS/LCSD		Lab Dup	Field Precision
Analytes	% R	RPD/RER	% R	RPD	RPD	RPD
Metals	75 – 125	20	80 – 120	-	-	≤ 30%
Inorganic Anions	90 – 110	15	90 – 110	20	-	≤ 30%
Alkalinity	-	-	85 – 115	20	20	≤ 30%
Total Dissolved Solids (TDS)	-	-	80 – 120	-	10	≤ 30%
Radium-228	60 – 140	1	75 – 125	-	-	≤ 30%
Radium-226	80 – 120	1	90 – 110	-	-	≤ 30%

DATA REVIEW / VALIDATION RESULTS

Analytical Results

Results from these samples may be considered usable with the limitations and exceptions described in this section. Sample data qualified as a result of this DUS, if any, are listed in Table 3. Non-detected results are reported as less than the value of the method detection limit (MDL). Results between the MDL and reporting (RL) are J-flagged.

Finding: All requested analyses were completed, and results were reported as requested.

Preservation and Holding Times

The samples were evaluated for agreement with the chain-of-custody (C-O-C). The samples were received by the laboratory in the appropriate containers and in good condition, with proper completion of the C-O-C documentation. Samples receipt temperature was within the acceptance criteria, and field preservation was done as specified in the Sampling and Analysis Plan [SAP] (GSI, 2019). Samples were prepared and analyzed within method-specified holding times, with exceptions noted below. Items related to the C-O-C are also listed below.

- The sample identified as DUP-02 on the C-O-C is a field duplicate of sample MW-03.

Items related to sample preparation are listed below.

- Samples PZ-02, PZ-03, AP-31, AP-32, AP-33, AP-34, AP-35, AP-36, MW-03, PZ-05, PZ-06 and DUP-02 by Method 6020A were diluted to bring the concentration of target analytes within the calibration range. Elevated RLs are provided.

Finding: No qualifiers were added per this evaluation.

Calibrations

No issues were noted with the laboratory calibrations in the LCN or lab report.

Finding: No qualifiers were added per this evaluation.

Blanks

Method (Laboratory) Blanks

No issues were noted with the laboratory blanks in the LCN or lab report.

- Ra-226 was detected in the method blanks for preparation batches 110725 and 111010 at concentrations above the minimum detectable concentration (MDC). All other samples in these preparation batches were detected at concentrations greater than 5X the associated method blank concentration and did not require qualifiers.

Field Blanks

The following issues were noted with the blank collected in the field:

- Sulfate and Mercury were detected in the Field Blank at concentrations above the MDL. The field blank sample (FB-02) consists of distilled water that is exposed to ambient air on the day of sample collection. Most field samples collected contained concentrations of Sulfate and Mercury that were greater than 5X the associated field blank concentration and did not require qualifiers. Samples PZ-05 and AP-35 were detected for concentrations of Mercury less than 5X the field blank concentration and were therefore given “JH” flags.

- Calcium, Cadmium, Cobalt, Sodium and Lead were detected in the Equipment Blank at concentrations above the MDL. The equipment blank sample (EB-01) consists of distilled water that was poured over decontaminated non-dedicated sampling equipment. All field samples collected contained concentrations of Calcium, Cadmium, Cobalt, Sodium and Lead that were greater than 5X the associated equipment blank concentration and did not require qualifiers.

Finding: “JH” flags were given to the Mercury results for samples PZ-05 and AP-35 per this evaluation.

Internal Standard and Surrogate Recoveries (VOCs and SVOCs Only)

Not applicable.

Laboratory Control Samples

The Laboratory Control Sample (LCS)/Laboratory Control Sample Duplicate (LCSD) recoveries and Relative Percent Differences (RPDs) were within the project-defined QC acceptance criteria.

Finding: No qualifiers were added per this evaluation.

Matrix Spike/Matrix Spike Duplicates and Laboratory Duplicates

The LCN and lab report indicated the following issues with matrix spike (MS)/matrix spike duplicate (MSD) data:

- The recoveries for analytical batch 182530 analyzed using sample PZ-03 were outside control limits for Fluoride (MS/MSD) and Sulfate (MSD). Recoveries of Fluoride in the MS/MSD samples were 45%, below the desired range of 90-110%. Recovery of Sulfate in the MSD sample was 85%, below the desired range of 90-110%. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample/laboratory control sample duplicate (LCS/LCSD) recoveries were within acceptance limits. The spiking amounts for Sulfate were less than 4 times the result in the unspiked parent sample and did not require qualifiers. The spiking amounts for Fluoride were greater than 4 times the result in the unspiked parent sample; therefore "JL" flags were given to Fluoride results for affected samples.
- The recoveries for analytical batch 184311 analyzed using sample PZ-03 were outside control limits for Chloride (MS/MSD). Recoveries of Chloride in the MS/MSD samples were 292%, above the desired range of 90-110%. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample/laboratory control sample duplicate (LCS/LCSD) recoveries were within acceptance limits. In addition, the spiking amounts were less than 4 times the result in the unspiked parent sample. As a result, no additional qualifiers were added as part of this evaluation.
- The recoveries for preparation batch 477235 and analytical batch 477804 analyzed using sample PZ-03 were outside control limits for Boron (MS/MSD), Calcium (MS/MSD), Magnesium (MS/MSD), Sodium (MS/MSD) and Antimony (MSD). Recoveries of Boron in the MS/MSD samples were 74% and -89%, respectively, below the desired range of 75-125%. Recoveries of Calcium in the MS/MSD samples were -183% and -236%, respectively, below the desired range of 75-125%. Recoveries of Magnesium in the MS/MSD samples were 25% and 35%, respectively, below the desired range of 75-125%. Recoveries of Sodium in the MS/MSD samples were -744% and -909%, respectively, below the desired range of 75-125%. Recovery of Antimony in the MDS was 130%, above the desired range of 75-125%. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample/laboratory control sample duplicate (LCS/LCSD) recoveries were within acceptance limits. In addition, the spiking amounts were less than 4 times the result in the unspiked parent sample. As a result, no additional qualifiers were added as part of this evaluation.
- The recoveries for preparation batch 477831 and analytical batch 477977 analyzed using sample PZ-03 were outside control limits for Mercury (MSD). Recovery of Mercury in the MSD sample was 61%, below the desired range of 75-125%. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample/laboratory control sample duplicate (LCS/LCSD) recoveries were within acceptance limits. In addition, the spiking amounts were less than 4 times the result in the unspiked parent sample. As a result, no additional qualifiers were added as part of this evaluation.

- The recoveries for preparation batch 11010 and analytical batch 114784 analyzed using sample PZ-03 were outside control limits for Ra-226 (MS/MSD). Recoveries of Ra-226 in the MS/MSD samples were 47% and 55%, respectively, below the desired range of 80-120%. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample/laboratory control sample duplicate (LCS/LCSD) recoveries were within acceptance limits. In addition, the spiking amounts were less than 4 times the result in the unspiked parent sample. As a result, no additional qualifiers were added as part of this evaluation.

Findings: "JL" flags were given to the Fluoride results for samples PZ-05, PZ-03, AP-34, and AP-35 per this evaluation.

Field Duplicates (Field Precision)

One field duplicate, identified as DUP-02, was collected with sample MW-03. Results indicate that, RPDs between the parent and duplicate sample results were less than the TCEQ-recommended maximum of 40% (organics) or 30% (metals) for concentrations greater than five times the MQL, or the difference between concentrations was less than twice the MQL for analytes with concentrations less than five times the MQL. A comparison of the field sample and the duplicate sample are shown in Table 2.

Finding: No qualifiers were added per this evaluation.

Field Procedures

Sample collection and documentation was done in accordance with the Groundwater Sampling and Analysis Plan (SAP; GSI, 2019).

Finding: Field activities were consistent with the SAP.

SUMMARY

The analytical data are usable for the purpose of characterizing groundwater conditions. In addition, qualifiers were added based on this review and evaluation (see Table 3).

REFERENCES

GSI Environmental, Inc., 2019, Groundwater Sampling and Analysis Plan, San Miguel Electric Cooperative, Inc., December 26.

TCEQ 2010. Review and Reporting of COC Concentration Data under TRRP, RG-366/TRRP-13 https://www.tceq.texas.gov/assets/public/comm_exec/pubs/rg/rg-366-trrp-13.pdf

TABLES

TABLE 1
Cross-Reference Field Sample and Laboratory Identifications

Sample Date	Lab	Lab Sample ID	Field Sample ID	Matrix
08/14/2024	EET HOU/EET PIT/EET SL/EA SB	860-80537-1	PZ-02	Water
08/14/2024	EET HOU/EET PIT/EET SL/EA SB	860-80537-2	PZ-03	Water
08/14/2024	EET HOU/EET PIT/EET SL/EA SB	860-80537-3	AP-31	Water
08/14/2024	EET HOU/EET PIT/EET SL/EA SB	860-80537-4	AP-32	Water
08/14/2024	EET HOU/EET PIT/EET SL/EA SB	860-80537-5	AP-33	Water
08/14/2024	EET HOU/EET PIT/EET SL/EA SB	860-80537-6	AP-34	Water
08/14/2024	EET HOU/EET PIT/EET SL/EA SB	860-80537-7	AP-35	Water
08/14/2024	EET HOU/EET PIT/EET SL/EA SB	860-80537-8	AP-36	Water
08/14/2024	EET HOU/EET PIT/EET SL/EA SB	860-80537-9	MW-03	Water
08/14/2024	EET HOU/EET PIT/EET SL/EA SB	860-80537-10	PZ-05	Water
08/14/2024	EET HOU/EET PIT/EET SL/EA SB	860-80537-11	PZ-06	Water
08/14/2024	EET HOU/EET PIT/EET SL/EA SB	860-80537-12	EB-01	Water
08/14/2024	EET HOU/EET PIT/EET SL/EA SB	860-80537-13	DUP-02	Water
08/14/2024	EET HOU/EET PIT/EET SL/EA SB	860-80537-14	FB-02	Water

Notes:
1. EET HOU: Eurofins Houston, Stafford, Texas; EET PIT: Eurofins Pittsburgh, Pittsburgh, Pennsylvania; EET SL: Eurofins St. Louis, Earth City, Missouri; EA SB: Eurofins Eaton South Bend, South Bend, Indiana

TABLE 2
Field Duplicate Detections

Analyte	MDL (mg/L)	Primary Sample Result (mg/L)	Field Duplicate Result (mg/L)	Relative Percent Difference (RPD)
Antimony	0.0967	0.0967 U	0.0967 U	0.0
Arsenic	0.0563	0.0563 U	0.0563 U	0.0
Barium	0.314	0.314 U	0.314 U	0.0
Beryllium	0.0274	0.0304 J	0.0304 J	0.0
Bicarbonate Alkalinity as CaCO3	4	4 U	4 U	0.0
Boron	6.01	13.8	14.1	2.2
Cadmium	0.0217	0.0594 J	0.0728 J	20.3
Calcium	12.7	571	566	0.9
Carbonate Alkalinity as CaCO3	4	4 U	4 U	0.0
Chloride	2.5	1790	1750	2.3
Chromium	0.153	0.153 U	0.153 U	0.0
Cobalt	0.0261	0.366	0.415	12.5
Fluoride	1	1 U	1 U	0.0
Hydroxide Alkalinity	4	4 U	4 U	0.0
Lead	0.0376	0.0376 U	0.0376 U	0.0
Lithium	0.129	1.94	1.99	2.5
Magnesium	7.89	101	102	1.0
Mercury	0.13	0.13 U	0.13 U	0.0
Molybdenum	0.061	0.061 U	0.061 U	0.0
Potassium	15.6	30.4 J	31.9 J	4.8
Ra-226	0.19	1.33	1.14	15.4
Radium-228	0.659	5.27	4.97	5.9
Selenium	0.153	0.153 U	0.153 U	0.0
Sodium	18.4	2230	2300	3.1
Sulfate	2	4010	4030	0.5
Thallium	0.0472	0.0472 U	0.0472 U	0.0
Total Alkalinity	4	4 U	4 U	0.0
Total Dissolved Solids	100	9420	9480	0.6

Notes:
1. MDL: Method Detection Limit
2. mg/L: milligrams per liter
3. RPD = ABS(PR-FD)/AVERAGE(PR+FD)*100), where PR is the Primary Sample and FD is the Field Duplicate, where the MDL is substituted for results below detection.
4. U = analyte not detected at the stated limit; J = result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value
5. CaCO3: Calcium carbonate

TABLE 3
Qualifiers Added During Data Usability Review

Sample ID	Analyte	Lab Result	Unit	DUS Qualifier or Bias Code	Reason for Qualification	Analysis Batch Number	Report Number
PZ-05	Mercury	0.171 J	mg/L	JH	Detected result within 5X field blank concentration	477977	860-80537-1
AP-35	Mercury	0.468	mg/L	JH	Detected result within 5X field blank concentration	477977	860-80537-1
PZ-05	Fluoride	1.63 J	mg/L	JL	MS/MSD %R below specifications	182530	860-80537-1
PZ-03	Fluoride	4.26 J F1	mg/L	JL	MS/MSD %R below specifications	182530	860-80537-1
AP-34	Fluoride	60.6	mg/L	JL	MS/MSD %R below specifications	182530	860-80537-1
AP-35	Fluoride	9.41	mg/L	JL	MS/MSD %R below specifications	182530	860-80537-1

Notes:
1. mg/L: milligrams per liter
2. JH: estimated value, biased high; JL: estimated value, biased low
3. MS/MSD: matrix spike/matrix spike duplicate
4. %R: percent recovery

Attachment A

TCEQ NELAP-Recognized Laboratory Accreditation Certificates

Texas Commission on Environmental Quality

Certificate of Accreditation

Accreditation is hereby granted to

Eurofins Houston
4147 Greenbriar Dr.
Stafford, TX 77477

State Lab ID: T104704215
Effective Date: 07/01/2024
Expiration Date: 06/30/2025
Document ID: TX-C24-00243

Conditions of Accreditation

This laboratory has been found to conform with TCEQ rules and applicable standards for laboratory accreditation. The scope of accreditation is limited to the Fields of Accreditation (FoA) specifically listed on the subsequent page(s) of this certificate. Accreditation is for all version of a method approved per 40 CFR 136, 40 CFR 141, and/ or 40 CFR 143. Continued accreditation requires ongoing compliance with all applicable standards and requirements.

Note: For the attached FoA table, matrices may include DW (drinking water), NPW (non-potable water), S (solid and chemical materials), A (air), and/ or BT (biological tissue).

Issued By: Kelly Keel, Executive Director Texas Commission on Environmental Quality
Date Issued: 07/01/2024

Texas Commission on Environmental Quality

Certificate of Accreditation

Accreditation is hereby granted to

Eurofins Pittsburgh
301 Alpha Drive
Pittsburgh, PA 15238-2907

State Lab ID: T104704528
Effective Date: 04/09/2024
Expiration Date: 03/31/2025
Document ID: TX-C24-00110

Conditions of Accreditation

This laboratory has been found to conform with TCEQ rules and applicable standards for laboratory accreditation. The scope of accreditation is limited to the Fields of Accreditation specifically listed on the subsequent page(s) of this certificate. Accreditation is for all version of a method approved per 40 CFR 136, 40 CFR 141, and/ or 40 CFR 143. Continued accreditation requires ongoing compliance with all applicable standards and requirements.

Issued By: Kelly Keel, Executive Director Texas Commission on Environmental Quality
Date Issued: 04/09/2024

Texas Commission on
Environmental Quality

Certificate of Accreditation

Accreditation is hereby granted to

Eurofins St. Louis
13715 Rider Trail North
Earth City, MO 63045-1205

State Lab ID: T104704193
Effective Date: 08/01/2024
Expiration Date: 07/31/2025
Certificate ID: TX-C24-00256

Conditions of Accreditation

This laboratory has been found to conform with TCEQ rules and applicable standards for laboratory accreditation. The scope of accreditation is limited to the Fields of Accreditation (FoA) specifically listed on the subsequent page(s) of this certificate. Accreditation is for all version of a method approved per 40 CFR 136, 40 CFR 141, and/or 40 CFR 143. Continued accreditation requires ongoing compliance with all applicable standards and requirements.

Note: For the attached FoA table, matrices may include DW (drinking water), NPW (non-potable water), S (solid and chemical materials), A (air), and/or BT (biological tissue).

Issued By: Kelly Keel, Executive Director Texas Commission on Environmental Quality
Date Issued: 08/01/2024

Texas Commission on Environmental Quality

NELAP-Recognized Laboratory Accreditation is hereby awarded to

Eurofins Eaton Analytical, LLC - South Bend

110 South Hill Street
South Bend, IN 46617-2702

in accordance with Texas Water Code Chapter 5, Subchapter R, Title 30 Texas Administrative Code Chapter 25, and the National Environmental Laboratory Accreditation Program.

The laboratory's scope of accreditation includes the fields of accreditation that accompany this certificate. Continued accreditation depends upon successful ongoing participation in the program. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current location(s) and accreditation status for particular methods and analyses (www.tceq.texas.gov/goto/lab). Accreditation does not imply that a product, process, system or person is approved by the Texas Commission on Environmental Quality.

Erin E. Chancellor

Executive Director Texas Commission on Environmental Quality

Certificate Number: T104704187-23-17
Effective Date: 1/1/2024
Expiration Date: 12/31/2024

Attachment B

Eurofins Houston – Stafford, Texas

Analytical Report

Job ID.: 860-80537-1

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mike Schofield
GSI Environmental Inc
9600 Great Hills Trail
Suite 350E
Austin, Texas 78759

Generated 9/16/2024 6:24:04 PM

JOB DESCRIPTION

Ash Pond

JOB NUMBER

860-80537-1

Eurofins Houston
4145 Greenbriar Dr
Stafford TX 77477

See page two for job notes and contact information.

my EOL

Eurofins Houston

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.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Generated
9/16/2024 6:24:04 PM

Authorized for release by
Sachin Kudchadkar, Senior Project Manager
Sachin.Kudchadkar@et.eurofinsus.com
(281)748-9025

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Qualifiers

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
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.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
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.

General Chemistry

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Rad

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Result is less than the sample detection limit.

Glossary

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

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 Narrative
860-80537-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 8/15/2024 9:39 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 1.0°C, 2.3°C, 3.5°C and 4.5°C.

HPLC/IC
Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-182530 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-184311 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

Metals
Method 6020A - Total Recoverable: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 180-477235 and analytical batch 180-477804 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 6020A - Total Recoverable: The following samples were diluted to bring the concentration of target analytes within the calibration range: PZ-02 (860-80537-1), PZ-03 (860-80537-2), PZ-03 (860-80537-2[MS]), PZ-03 (860-80537-2[MSD]), AP-31 (860-80537-3), AP-32 (860-80537-4), AP-33 (860-80537-5), AP-34 (860-80537-6), AP-35 (860-80537-7), AP-36 (860-80537-8), MW-03 (860-80537-9), PZ-05 (860-80537-10), PZ-06 (860-80537-11) and DUP-02 (860-80537-13). Elevated reporting limits (RLs) are provided. Due to the matrix of the samples, no lower dilution was performed.

Method 7470A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 180-477831 and analytical batch 180-477977 were outside the control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

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

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

Rad
Method SM7500_Ra_B: Sample had a high biased barium carrier recovery. Results may be high biased, but because result is less than the detection limit of 1pCi/L sample is unaffected. The barium carrier limits are 19.9-50.6mg. The sample barium precipitate is 59.7 mg.

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Method SM7500_Ra_B: MS and MSD result are low biased at 46.5 for the MS and 54.9 for the MSD with limits of 80-120. Sample result may have matrix effects.

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

Detection Summary

Client: GSI Environmental Inc
Project/Site: Ash Pond

Job ID: 860-80537-1

Client Sample ID: PZ-02 — Lab Sample ID: 860-80537-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	3860		5.00	2.50	mg/L	10		300.0	Total/NA
Sulfate	2730		5.00	2.00	mg/L	10		300.0	Total/NA
Boron	8.43		8.00	6.01	mg/L	100		EPA 6020A	Total Recoverable
Calcium	831		50.0	12.7	mg/L	100		EPA 6020A	Total Recoverable
Magnesium	132		50.0	7.89	mg/L	100		EPA 6020A	Total Recoverable
Sodium	2580		50.0	18.4	mg/L	100		EPA 6020A	Total Recoverable
Potassium	48.2	J	50.0	15.6	mg/L	100		EPA 6020A	Total Recoverable
Lithium	2.16		0.500	0.129	mg/L	100		EPA 6020A	Total Recoverable
Total Alkalinity	82.1		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	82.1		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	9900		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: PZ-03 — Lab Sample ID: 860-80537-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	5850		50.0	25.0	mg/L	100		300.0	Total/NA
Fluoride	4.26	J F1	5.00	1.00	mg/L	10		300.0	Total/NA
Sulfate	3700		5.00	2.00	mg/L	10		300.0	Total/NA
Arsenic	0.105		0.100	0.0563	mg/L	100		EPA 6020A	Total Recoverable
Boron	11.2		8.00	6.01	mg/L	100		EPA 6020A	Total Recoverable
Beryllium	0.262		0.100	0.0274	mg/L	100		EPA 6020A	Total Recoverable
Calcium	989		50.0	12.7	mg/L	100		EPA 6020A	Total Recoverable
Cadmium	0.617		0.100	0.0217	mg/L	100		EPA 6020A	Total Recoverable
Cobalt	1.68		0.0500	0.0261	mg/L	100		EPA 6020A	Total Recoverable
Magnesium	312		50.0	7.89	mg/L	100		EPA 6020A	Total Recoverable
Sodium	3870		50.0	18.4	mg/L	100		EPA 6020A	Total Recoverable
Potassium	29.5	J	50.0	15.6	mg/L	100		EPA 6020A	Total Recoverable
Lithium	2.76		0.500	0.129	mg/L	100		EPA 6020A	Total Recoverable
Mercury	2.44	F1	0.200	0.130	ug/L	1		EPA 7470A	Total/NA
Total Dissolved Solids	15300		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: AP-31 — Lab Sample ID: 860-80537-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	2230		5.00	2.50	mg/L	10		300.0	Total/NA
Sulfate	2820		5.00	2.00	mg/L	10		300.0	Total/NA
Boron	67.8		8.00	6.01	mg/L	100		EPA 6020A	Total Recoverable
Calcium	687		50.0	12.7	mg/L	100		EPA 6020A	Total Recoverable

This Detection Summary does not include radiochemical test results.

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Detection Summary

Client: GSI Environmental Inc
Project/Site: Ash Pond

Job ID: 860-80537-1

Client Sample ID: AP-31 (Continued) — Lab Sample ID: 860-80537-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	0.284		0.0500	0.0261	mg/L	100		EPA 6020A	Total Recoverable
Magnesium	78.1		50.0	7.89	mg/L	100		EPA 6020A	Total Recoverable
Sodium	1990		50.0	18.4	mg/L	100		EPA 6020A	Total Recoverable
Lithium	0.928		0.500	0.129	mg/L	100		EPA 6020A	Total Recoverable
Mercury	0.776		0.200	0.130	ug/L	1		EPA 7470A	Total/NA
Total Dissolved Solids	7960		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: AP-32 — Lab Sample ID: 860-80537-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	2670		5.00	2.50	mg/L	10		300.0	Total/NA
Sulfate	3300		5.00	2.00	mg/L	10		300.0	Total/NA
Boron	26.1		8.00	6.01	mg/L	100		EPA 6020A	Total Recoverable
Beryllium	0.0655	J	0.100	0.0274	mg/L	100		EPA 6020A	Total Recoverable
Calcium	717		50.0	12.7	mg/L	100		EPA 6020A	Total Recoverable
Cadmium	0.0893	J	0.100	0.0217	mg/L	100		EPA 6020A	Total Recoverable
Cobalt	0.633		0.0500	0.0261	mg/L	100		EPA 6020A	Total Recoverable
Magnesium	93.9		50.0	7.89	mg/L	100		EPA 6020A	Total Recoverable
Sodium	2340		50.0	18.4	mg/L	100		EPA 6020A	Total Recoverable
Potassium	36.2	J	50.0	15.6	mg/L	100		EPA 6020A	Total Recoverable
Lithium	1.76		0.500	0.129	mg/L	100		EPA 6020A	Total Recoverable
Mercury	1.75		0.200	0.130	ug/L	1		EPA 7470A	Total/NA
Total Dissolved Solids	8620		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: AP-33 — Lab Sample ID: 860-80537-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	4300		50.0	25.0	mg/L	100		300.0	Total/NA
Sulfate	3670		50.0	20.0	mg/L	100		300.0	Total/NA
Boron	59.9		8.00	6.01	mg/L	100		EPA 6020A	Total Recoverable
Beryllium	0.273		0.100	0.0274	mg/L	100		EPA 6020A	Total Recoverable
Calcium	771		50.0	12.7	mg/L	100		EPA 6020A	Total Recoverable
Cadmium	0.117		0.100	0.0217	mg/L	100		EPA 6020A	Total Recoverable
Cobalt	1.36		0.0500	0.0261	mg/L	100		EPA 6020A	Total Recoverable
Magnesium	187		50.0	7.89	mg/L	100		EPA 6020A	Total Recoverable
Sodium	2630		50.0	18.4	mg/L	100		EPA 6020A	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: AP-33 (Continued) — Lab Sample ID: 860-80537-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	20.7	J	50.0	15.6	mg/L	100		EPA 6020A	Total Recoverable
Lithium	1.27		0.500	0.129	mg/L	100		EPA 6020A	Total Recoverable
Mercury	4.73		0.200	0.130	ug/L	1		EPA 7470A	Total/NA
Total Dissolved Solids	11300		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: AP-34 — Lab Sample ID: 860-80537-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	2850		5.00	2.50	mg/L	10		300.0	Total/NA
Fluoride	6.06		5.00	1.00	mg/L	10		300.0	Total/NA
Sulfate	3300		5.00	2.00	mg/L	10		300.0	Total/NA
Arsenic	0.0664	J	0.100	0.0563	mg/L	100		EPA 6020A	Total Recoverable
Boron	24.6		8.00	6.01	mg/L	100		EPA 6020A	Total Recoverable
Beryllium	0.280		0.100	0.0274	mg/L	100		EPA 6020A	Total Recoverable
Calcium	735		50.0	12.7	mg/L	100		EPA 6020A	Total Recoverable
Cadmium	0.0251	J	0.100	0.0217	mg/L	100		EPA 6020A	Total Recoverable
Cobalt	1.23		0.0500	0.0261	mg/L	100		EPA 6020A	Total Recoverable
Magnesium	147		50.0	7.89	mg/L	100		EPA 6020A	Total Recoverable
Sodium	1830		50.0	18.4	mg/L	100		EPA 6020A	Total Recoverable
Lithium	1.51		0.500	0.129	mg/L	100		EPA 6020A	Total Recoverable
Mercury	2.83		0.200	0.130	ug/L	1		EPA 7470A	Total/NA
Total Dissolved Solids	9800		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: AP-35 — Lab Sample ID: 860-80537-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	2300		5.00	2.50	mg/L	10		300.0	Total/NA
Fluoride	9.41		5.00	1.00	mg/L	10		300.0	Total/NA
Sulfate	3230		5.00	2.00	mg/L	10		300.0	Total/NA
Boron	6.40	J	8.00	6.01	mg/L	100		EPA 6020A	Total Recoverable
Beryllium	0.280		0.100	0.0274	mg/L	100		EPA 6020A	Total Recoverable
Calcium	677		50.0	12.7	mg/L	100		EPA 6020A	Total Recoverable
Cobalt	0.0360	J	0.0500	0.0261	mg/L	100		EPA 6020A	Total Recoverable
Magnesium	186		50.0	7.89	mg/L	100		EPA 6020A	Total Recoverable
Sodium	1810		50.0	18.4	mg/L	100		EPA 6020A	Total Recoverable
Potassium	51.4		50.0	15.6	mg/L	100		EPA 6020A	Total Recoverable
Lithium	1.84		0.500	0.129	mg/L	100		EPA 6020A	Total Recoverable
Mercury	0.468		0.200	0.130	ug/L	1		EPA 7470A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: AP-35 (Continued) — Lab Sample ID: 860-80537-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	11300		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: AP-36 — Lab Sample ID: 860-80537-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1520		5.00	2.50	mg/L	10		300.0	Total/NA
Sulfate	2780		5.00	2.00	mg/L	10		300.0	Total/NA
Calcium	616		50.0	12.7	mg/L	100		EPA 6020A	Total Recoverable
Cobalt	0.0624		0.0500	0.0261	mg/L	100		EPA 6020A	Total Recoverable
Magnesium	107		50.0	7.89	mg/L	100		EPA 6020A	Total Recoverable
Sodium	1370		50.0	18.4	mg/L	100		EPA 6020A	Total Recoverable
Potassium	38.6	J	50.0	15.6	mg/L	100		EPA 6020A	Total Recoverable
Lithium	1.15		0.500	0.129	mg/L	100		EPA 6020A	Total Recoverable
Total Dissolved Solids	6540		40.0	40.0	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-03 — Lab Sample ID: 860-80537-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1790		5.00	2.50	mg/L	10		300.0	Total/NA
Sulfate	4010		5.00	2.00	mg/L	10		300.0	Total/NA
Boron	13.8		8.00	6.01	mg/L	100		EPA 6020A	Total Recoverable
Beryllium	0.0304	J	0.100	0.0274	mg/L	100		EPA 6020A	Total Recoverable
Calcium	571		50.0	12.7	mg/L	100		EPA 6020A	Total Recoverable
Cadmium	0.0594	J	0.100	0.0217	mg/L	100		EPA 6020A	Total Recoverable
Cobalt	0.366		0.0500	0.0261	mg/L	100		EPA 6020A	Total Recoverable
Magnesium	101		50.0	7.89	mg/L	100		EPA 6020A	Total Recoverable
Sodium	2230		50.0	18.4	mg/L	100		EPA 6020A	Total Recoverable
Potassium	30.4	J	50.0	15.6	mg/L	100		EPA 6020A	Total Recoverable
Lithium	1.94		0.500	0.129	mg/L	100		EPA 6020A	Total Recoverable
Total Dissolved Solids	9420		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: PZ-05 — Lab Sample ID: 860-80537-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	2160		5.00	2.50	mg/L	10		300.0	Total/NA
Fluoride	1.63	J	5.00	1.00	mg/L	10		300.0	Total/NA
Sulfate	3000		5.00	2.00	mg/L	10		300.0	Total/NA
Boron	27.4		8.00	6.01	mg/L	100		EPA 6020A	Total Recoverable
Beryllium	0.177		0.100	0.0274	mg/L	100		EPA 6020A	Total Recoverable

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: GSI Environmental Inc
Project/Site: Ash Pond

Job ID: 860-80537-1

Client Sample ID: PZ-05 (Continued)

Lab Sample ID: 860-80537-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	670		50.0	12.7	mg/L	100		EPA 6020A	Total Recoverable
Cadmium	0.0733	J	0.100	0.0217	mg/L	100		EPA 6020A	Total Recoverable
Cobalt	0.955		0.0500	0.0261	mg/L	100		EPA 6020A	Total Recoverable
Magnesium	114		50.0	7.89	mg/L	100		EPA 6020A	Total Recoverable
Sodium	1700		50.0	18.4	mg/L	100		EPA 6020A	Total Recoverable
Potassium	21.4	J	50.0	15.6	mg/L	100		EPA 6020A	Total Recoverable
Lithium	1.12		0.500	0.129	mg/L	100		EPA 6020A	Total Recoverable
Mercury	0.171	J	0.200	0.130	ug/L	1		EPA 7470A	Total/NA
Total Dissolved Solids	8510		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: PZ-06

Lab Sample ID: 860-80537-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	2090		5.00	2.50	mg/L	10		300.0	Total/NA
Sulfate	2740		5.00	2.00	mg/L	10		300.0	Total/NA
Calcium	703		50.0	12.7	mg/L	100		EPA 6020A	Total Recoverable
Magnesium	110		50.0	7.89	mg/L	100		EPA 6020A	Total Recoverable
Sodium	1670		50.0	18.4	mg/L	100		EPA 6020A	Total Recoverable
Potassium	39.8	J	50.0	15.6	mg/L	100		EPA 6020A	Total Recoverable
Lithium	1.27		0.500	0.129	mg/L	100		EPA 6020A	Total Recoverable
Total Alkalinity	70.9		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	70.9		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	7970		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: EB-01

Lab Sample ID: 860-80537-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	0.169	J	0.500	0.127	mg/L	1		EPA 6020A	Total Recoverable
Cadmium	0.000292	J	0.00100	0.000217	mg/L	1		EPA 6020A	Total Recoverable
Cobalt	0.000303	J	0.000500	0.000261	mg/L	1		EPA 6020A	Total Recoverable
Sodium	0.278	J	0.500	0.184	mg/L	1		EPA 6020A	Total Recoverable
Lead	0.000430	J	0.00100	0.000376	mg/L	1		EPA 6020A	Total Recoverable
Total Dissolved Solids	11.0		5.00	5.00	mg/L	1		SM 2540C	Total/NA

Client Sample ID: DUP-02

Lab Sample ID: 860-80537-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1750		5.00	2.50	mg/L	10		300.0	Total/NA
Sulfate	4030		5.00	2.00	mg/L	10		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

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Client Sample ID: DUP-02 (Continued)

Lab Sample ID: 860-80537-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	14.1		8.00	6.01	mg/L	100		EPA 6020A	Total Recoverable
Beryllium	0.0304	J	0.100	0.0274	mg/L	100		EPA 6020A	Total Recoverable
Calcium	566		50.0	12.7	mg/L	100		EPA 6020A	Total Recoverable
Cadmium	0.0728	J	0.100	0.0217	mg/L	100		EPA 6020A	Total Recoverable
Cobalt	0.415		0.0500	0.0261	mg/L	100		EPA 6020A	Total Recoverable
Magnesium	102		50.0	7.89	mg/L	100		EPA 6020A	Total Recoverable
Sodium	2300		50.0	18.4	mg/L	100		EPA 6020A	Total Recoverable
Potassium	31.9	J	50.0	15.6	mg/L	100		EPA 6020A	Total Recoverable
Lithium	1.99		0.500	0.129	mg/L	100		EPA 6020A	Total Recoverable
Total Dissolved Solids	9480		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: FB-02

Lab Sample ID: 860-80537-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	2.20	J	5.00	2.00	mg/L	10		300.0	Total/NA
Mercury	0.138	J	0.200	0.130	ug/L	1		EPA 7470A	Total/NA

This Detection Summary does not include radiochemical test results.

Client: GSI Environmental Inc
Project/Site: Ash Pond

Job ID: 860-80537-1

Client Sample ID: PZ-02

Date Collected: 08/14/24 10:45
Date Received: 08/15/24 09:39

Lab Sample ID: 860-80537-1

Matrix: Water

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3860**		5.00	2.50	mg/L			08/20/24 13:45	10
Fluoride	1.00	U	5.00	1.00	mg/L			08/20/24 13:45	10
Sulfate	**2730**		5.00	2.00	mg/L			08/20/24 13:45	10

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0563	U	0.100	0.0563	mg/L		08/21/24 09:18	08/27/24 14:35	100
Boron	**8.43**		8.00	6.01	mg/L		08/21/24 09:18	08/27/24 14:35	100
Barium	0.314	U	1.00	0.314	mg/L		08/21/24 09:18	08/27/24 14:35	100
Beryllium	0.0274	U	0.100	0.0274	mg/L		08/21/24 09:18	08/27/24 14:35	100
Calcium	**831**		50.0	12.7	mg/L		08/21/24 09:18	08/27/24 14:35	100
Cadmium	0.0217	U	0.100	0.0217	mg/L		08/21/24 09:18	08/27/24 14:35	100
Chromium	0.153	U	0.200	0.153	mg/L		08/21/24 09:18	08/27/24 14:35	100
Cobalt	0.0261	U	0.0500	0.0261	mg/L		08/21/24 09:18	08/27/24 14:35	100
Magnesium	**132**		50.0	7.89	mg/L		08/21/24 09:18	08/27/24 14:35	100
Molybdenum	0.0610	U	0.500	0.0610	mg/L		08/21/24 09:18	08/27/24 14:35	100
Sodium	**2580**		50.0	18.4	mg/L		08/21/24 09:18	08/27/24 14:35	100
Lead	0.0376	U	0.100	0.0376	mg/L		08/21/24 09:18	08/27/24 14:35	100
Antimony	0.0967	U	0.200	0.0967	mg/L		08/21/24 09:18	08/27/24 14:35	100
Thallium	0.0472	U	0.100	0.0472	mg/L		08/21/24 09:18	08/27/24 14:35	100
Selenium	0.153	U	0.500	0.153	mg/L		08/21/24 09:18	08/27/24 14:35	100
Potassium	**48.2**	**J**	50.0	15.6	mg/L		08/21/24 09:18	08/27/24 14:35	100
Lithium	**2.16**		0.500	0.129	mg/L		08/21/24 09:18	08/27/24 14:35	100

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.130	U	0.200	0.130	ug/L		08/28/24 09:50	08/29/24 15:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	**82.1**		4.00	4.00	mg/L			08/17/24 21:25	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**82.1**		4.00	4.00	mg/L			08/17/24 21:25	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/17/24 21:25	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/17/24 21:25	1
Total Dissolved Solids (SM 2540C)	**9900**		100	100	mg/L			08/20/24 12:44	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**2.23**		0.595	0.630	1.00	0.648	pCi/L	08/23/24 08:52	09/03/24 12:13	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*105*		*30 - 110*	*08/23/24 08:52*	*09/03/24 12:13*	*1*
Y Carrier	*79.6*		*30 - 110*	*08/23/24 08:52*	*09/03/24 12:13*	*1*

Client Sample ID: PZ-02

Lab Sample ID: 860-80537-1

Date Collected: 08/14/24 10:45

Matrix: Water

Date Received: 08/15/24 09:39

Method: SM7500 Ra B - Radium-226

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra-226	0.740		0.580		1.00	0.500	pCi/L	08/20/24 16:33	09/11/24 14:07	1

Client Sample ID: PZ-03

Lab Sample ID: 860-80537-2

Date Collected: 08/14/24 09:15

Matrix: Water

Date Received: 08/15/24 09:39

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5850		50.0	25.0	mg/L			08/20/24 14:22	100
Fluoride	4.26	J F1	5.00	1.00	mg/L			08/20/24 14:10	10
Sulfate	3700		5.00	2.00	mg/L			08/20/24 14:10	10

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.105		0.100	0.0563	mg/L		08/21/24 09:18	08/27/24 14:38	100
Boron	11.2		8.00	6.01	mg/L		08/21/24 09:18	08/27/24 14:38	100
Barium	0.314	U	1.00	0.314	mg/L		08/21/24 09:18	08/27/24 14:38	100
Beryllium	0.262		0.100	0.0274	mg/L		08/21/24 09:18	08/27/24 14:38	100
Calcium	989		50.0	12.7	mg/L		08/21/24 09:18	08/27/24 14:38	100
Cadmium	0.617		0.100	0.0217	mg/L		08/21/24 09:18	08/27/24 14:38	100
Chromium	0.153	U	0.200	0.153	mg/L		08/21/24 09:18	08/27/24 14:38	100
Cobalt	1.68		0.0500	0.0261	mg/L		08/21/24 09:18	08/27/24 14:38	100
Magnesium	312		50.0	7.89	mg/L		08/21/24 09:18	08/27/24 14:38	100
Molybdenum	0.0610	U	0.500	0.0610	mg/L		08/21/24 09:18	08/27/24 14:38	100
Sodium	3870		50.0	18.4	mg/L		08/21/24 09:18	08/27/24 14:38	100
Lead	0.0376	U	0.100	0.0376	mg/L		08/21/24 09:18	08/27/24 14:38	100
Antimony	0.0967	U F1	0.200	0.0967	mg/L		08/21/24 09:18	08/27/24 14:38	100
Thallium	0.0472	U	0.100	0.0472	mg/L		08/21/24 09:18	08/27/24 14:38	100
Selenium	0.153	U	0.500	0.153	mg/L		08/21/24 09:18	08/27/24 14:38	100
Potassium	29.5	J	50.0	15.6	mg/L		08/21/24 09:18	08/27/24 14:38	100
Lithium	2.76		0.500	0.129	mg/L		08/21/24 09:18	08/27/24 14:38	100

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	2.44	F1	0.200	0.130	ug/L		08/28/24 09:50	08/29/24 15:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/17/24 21:19	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/17/24 21:19	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/17/24 21:19	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/17/24 21:19	1
Total Dissolved Solids (SM 2540C)	15300		100	100	mg/L			08/21/24 12:36	1

Client Sample ID: PZ-03

Lab Sample ID: 860-80537-2

Date Collected: 08/14/24 09:15

Matrix: Water

Date Received: 08/15/24 09:39

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**3.95**		0.590	0.692	1.00	0.407	pCi/L	08/23/24 08:52	09/03/24 12:13	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*104*		*30 - 110*	*08/23/24 08:52*	*09/03/24 12:13*	*1*
Y Carrier	*83.0*		*30 - 110*	*08/23/24 08:52*	*09/03/24 12:13*	*1*

Method: SM7500 Ra B - Radium-226

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra-226	**1.56**		0.410		1.00	0.180	pCi/L	08/20/24 09:29	09/13/24 15:22	1

Client Sample ID: AP-31

Lab Sample ID: 860-80537-3

Date Collected: 08/14/24 11:20

Matrix: Water

Date Received: 08/15/24 09:39

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2230**		5.00	2.50	mg/L			08/20/24 15:00	10
Fluoride	1.00	U	5.00	1.00	mg/L			08/20/24 15:00	10
Sulfate	**2820**		5.00	2.00	mg/L			08/20/24 15:00	10

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0563	U	0.100	0.0563	mg/L		08/21/24 09:18	08/27/24 14:46	100
Boron	**67.8**		8.00	6.01	mg/L		08/21/24 09:18	08/27/24 14:46	100
Barium	0.314	U	1.00	0.314	mg/L		08/21/24 09:18	08/27/24 14:46	100
Beryllium	0.0274	U	0.100	0.0274	mg/L		08/21/24 09:18	08/27/24 14:46	100
Calcium	**687**		50.0	12.7	mg/L		08/21/24 09:18	08/27/24 14:46	100
Cadmium	0.0217	U	0.100	0.0217	mg/L		08/21/24 09:18	08/27/24 14:46	100
Chromium	0.153	U	0.200	0.153	mg/L		08/21/24 09:18	08/27/24 14:46	100
Cobalt	**0.284**		0.0500	0.0261	mg/L		08/21/24 09:18	08/27/24 14:46	100
Magnesium	**78.1**		50.0	7.89	mg/L		08/21/24 09:18	08/27/24 14:46	100
Molybdenum	0.0610	U	0.500	0.0610	mg/L		08/21/24 09:18	08/27/24 14:46	100
Sodium	**1990**		50.0	18.4	mg/L		08/21/24 09:18	08/27/24 14:46	100
Lead	0.0376	U	0.100	0.0376	mg/L		08/21/24 09:18	08/27/24 14:46	100
Antimony	0.0967	U	0.200	0.0967	mg/L		08/21/24 09:18	08/27/24 14:46	100
Thallium	0.0472	U	0.100	0.0472	mg/L		08/21/24 09:18	08/27/24 14:46	100
Selenium	0.153	U	0.500	0.153	mg/L		08/21/24 09:18	08/27/24 14:46	100
Potassium	15.6	U	50.0	15.6	mg/L		08/21/24 09:18	08/27/24 14:46	100
Lithium	**0.928**		0.500	0.129	mg/L		08/21/24 09:18	08/27/24 14:46	100

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.776**		0.200	0.130	ug/L		08/28/24 09:50	08/29/24 15:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/17/24 22:44	1

Client Sample ID: AP-31

Lab Sample ID: 860-80537-3

Date Collected: 08/14/24 11:20

Matrix: Water

Date Received: 08/15/24 09:39

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/17/24 22:44	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/17/24 22:44	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/17/24 22:44	1
Total Dissolved Solids (SM 2540C)	**7960**		100	100	mg/L			08/20/24 12:44	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**1.38**		0.452	0.470	1.00	0.548	pCi/L	08/23/24 08:52	09/03/24 12:16	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*102*		*30 - 110*	*08/23/24 08:52*	*09/03/24 12:16*	*1*
Y Carrier	*75.5*		*30 - 110*	*08/23/24 08:52*	*09/03/24 12:16*	*1*

Method: SM7500 Ra B - Radium-226

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra-226	0.250	U	0.750		1.00	0.370	pCi/L	08/20/24 16:33	09/16/24 10:12	1

Client Sample ID: AP-32

Lab Sample ID: 860-80537-4

Date Collected: 08/14/24 09:25

Matrix: Water

Date Received: 08/15/24 09:39

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2670**		5.00	2.50	mg/L			08/20/24 15:24	10
Fluoride	1.00	U	5.00	1.00	mg/L			08/20/24 15:24	10
Sulfate	**3300**		5.00	2.00	mg/L			08/20/24 15:24	10

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0563	U	0.100	0.0563	mg/L		08/21/24 09:18	08/27/24 14:49	100
Boron	**26.1**		8.00	6.01	mg/L		08/21/24 09:18	08/27/24 14:49	100
Barium	0.314	U	1.00	0.314	mg/L		08/21/24 09:18	08/27/24 14:49	100
Beryllium	**0.0655**	**J**	0.100	0.0274	mg/L		08/21/24 09:18	08/27/24 14:49	100
Calcium	**717**		50.0	12.7	mg/L		08/21/24 09:18	08/27/24 14:49	100
Cadmium	**0.0893**	**J**	0.100	0.0217	mg/L		08/21/24 09:18	08/27/24 14:49	100
Chromium	0.153	U	0.200	0.153	mg/L		08/21/24 09:18	08/27/24 14:49	100
Cobalt	**0.633**		0.0500	0.0261	mg/L		08/21/24 09:18	08/27/24 14:49	100
Magnesium	**93.9**		50.0	7.89	mg/L		08/21/24 09:18	08/27/24 14:49	100
Molybdenum	0.0610	U	0.500	0.0610	mg/L		08/21/24 09:18	08/27/24 14:49	100
Sodium	**2340**		50.0	18.4	mg/L		08/21/24 09:18	08/27/24 14:49	100
Lead	0.0376	U	0.100	0.0376	mg/L		08/21/24 09:18	08/27/24 14:49	100
Antimony	0.0967	U	0.200	0.0967	mg/L		08/21/24 09:18	08/27/24 14:49	100
Thallium	0.0472	U	0.100	0.0472	mg/L		08/21/24 09:18	08/27/24 14:49	100
Selenium	0.153	U	0.500	0.153	mg/L		08/21/24 09:18	08/27/24 14:49	100
Potassium	**36.2**	**J**	50.0	15.6	mg/L		08/21/24 09:18	08/27/24 14:49	100

Client Sample ID: AP-32

Lab Sample ID: 860-80537-4

Date Collected: 08/14/24 09:25

Matrix: Water

Date Received: 08/15/24 09:39

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	**1.76**		0.500	0.129	mg/L		08/21/24 09:18	08/27/24 14:49	100

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**1.75**		0.200	0.130	ug/L		08/28/24 09:50	08/29/24 15:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/17/24 21:38	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/17/24 21:38	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/17/24 21:38	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/17/24 21:38	1
Total Dissolved Solids (SM 2540C)	**8620**		100	100	mg/L			08/20/24 12:44	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**9.65**		0.949	1.30	1.00	0.466	pCi/L	08/23/24 08:52	09/03/24 12:14	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*95.9*		*30 - 110*	*08/23/24 08:52*	*09/03/24 12:14*	*1*
Y Carrier	*79.3*		*30 - 110*	*08/23/24 08:52*	*09/03/24 12:14*	*1*

Method: SM7500 Ra B - Radium-226

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra-226	**1.16**		1.17		1.00	0.380	pCi/L	08/20/24 16:33	09/16/24 10:12	1

Client Sample ID: AP-33

Lab Sample ID: 860-80537-5

Date Collected: 08/14/24 08:35

Matrix: Water

Date Received: 08/15/24 09:39

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4300**		50.0	25.0	mg/L			08/20/24 16:26	100
Fluoride	10.0	U	50.0	10.0	mg/L			08/20/24 16:26	100
Sulfate	**3670**		50.0	20.0	mg/L			08/20/24 16:26	100

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0563	U	0.100	0.0563	mg/L		08/21/24 09:18	08/27/24 14:52	100
Boron	**59.9**		8.00	6.01	mg/L		08/21/24 09:18	08/27/24 14:52	100
Barium	0.314	U	1.00	0.314	mg/L		08/21/24 09:18	08/27/24 14:52	100
Beryllium	**0.273**		0.100	0.0274	mg/L		08/21/24 09:18	08/27/24 14:52	100
Calcium	**771**		50.0	12.7	mg/L		08/21/24 09:18	08/27/24 14:52	100
Cadmium	**0.117**		0.100	0.0217	mg/L		08/21/24 09:18	08/27/24 14:52	100
Chromium	0.153	U	0.200	0.153	mg/L		08/21/24 09:18	08/27/24 14:52	100
Cobalt	**1.36**		0.0500	0.0261	mg/L		08/21/24 09:18	08/27/24 14:52	100

Client Sample ID: AP-33

Lab Sample ID: 860-80537-5

Date Collected: 08/14/24 08:35

Matrix: Water

Date Received: 08/15/24 09:39

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	**187**		50.0	7.89	mg/L		08/21/24 09:18	08/27/24 14:52	100
Molybdenum	0.0610	U	0.500	0.0610	mg/L		08/21/24 09:18	08/27/24 14:52	100
Sodium	**2630**		50.0	18.4	mg/L		08/21/24 09:18	08/27/24 14:52	100
Lead	0.0376	U	0.100	0.0376	mg/L		08/21/24 09:18	08/27/24 14:52	100
Antimony	0.0967	U	0.200	0.0967	mg/L		08/21/24 09:18	08/27/24 14:52	100
Thallium	0.0472	U	0.100	0.0472	mg/L		08/21/24 09:18	08/27/24 14:52	100
Selenium	0.153	U	0.500	0.153	mg/L		08/21/24 09:18	08/27/24 14:52	100
Potassium	**20.7**	**J**	50.0	15.6	mg/L		08/21/24 09:18	08/27/24 14:52	100
Lithium	**1.27**		0.500	0.129	mg/L		08/21/24 09:18	08/27/24 14:52	100

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**4.73**		0.200	0.130	ug/L		08/28/24 09:50	08/29/24 15:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/16/24 18:36	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/16/24 18:36	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/16/24 18:36	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/16/24 18:36	1
Total Dissolved Solids (SM 2540C)	**11300**		100	100	mg/L			08/20/24 12:44	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**7.89**		0.941	1.19	1.00	0.634	pCi/L	08/23/24 08:52	09/03/24 12:15	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*98.5*		*30 - 110*	*08/23/24 08:52*	*09/03/24 12:15*	*1*
Y Carrier	*67.3*		*30 - 110*	*08/23/24 08:52*	*09/03/24 12:15*	*1*

Method: SM7500 Ra B - Radium-226

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra-226	**0.710**		0.930		1.00	0.360	pCi/L	08/20/24 16:33	09/16/24 10:12	1

Client Sample ID: AP-34

Lab Sample ID: 860-80537-6

Date Collected: 08/14/24 09:15

Matrix: Water

Date Received: 08/15/24 09:39

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2850**		5.00	2.50	mg/L			08/20/24 17:29	10
Fluoride	**6.06**		5.00	1.00	mg/L			08/20/24 17:29	10
Sulfate	**3300**		5.00	2.00	mg/L			08/20/24 17:29	10

Client Sample ID: AP-34
Date Collected: 08/14/24 09:15
Date Received: 08/15/24 09:39

Lab Sample ID: 860-80537-6
Matrix: Water

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0664**	**J**	0.100	0.0563	mg/L		08/21/24 09:18	08/27/24 14:55	100
Boron	**24.6**		8.00	6.01	mg/L		08/21/24 09:18	08/27/24 14:55	100
Barium	0.314	U	1.00	0.314	mg/L		08/21/24 09:18	08/27/24 14:55	100
Beryllium	**0.280**		0.100	0.0274	mg/L		08/21/24 09:18	08/27/24 14:55	100
Calcium	**735**		50.0	12.7	mg/L		08/21/24 09:18	08/27/24 14:55	100
Cadmium	**0.0251**	**J**	0.100	0.0217	mg/L		08/21/24 09:18	08/27/24 14:55	100
Chromium	0.153	U	0.200	0.153	mg/L		08/21/24 09:18	08/27/24 14:55	100
Cobalt	**1.23**		0.0500	0.0261	mg/L		08/21/24 09:18	08/27/24 14:55	100
Magnesium	**147**		50.0	7.89	mg/L		08/21/24 09:18	08/27/24 14:55	100
Molybdenum	0.0610	U	0.500	0.0610	mg/L		08/21/24 09:18	08/27/24 14:55	100
Sodium	**1830**		50.0	18.4	mg/L		08/21/24 09:18	08/27/24 14:55	100
Lead	0.0376	U	0.100	0.0376	mg/L		08/21/24 09:18	08/27/24 14:55	100
Antimony	0.0967	U	0.200	0.0967	mg/L		08/21/24 09:18	08/27/24 14:55	100
Thallium	0.0472	U	0.100	0.0472	mg/L		08/21/24 09:18	08/27/24 14:55	100
Selenium	0.153	U	0.500	0.153	mg/L		08/21/24 09:18	08/27/24 14:55	100
Potassium	15.6	U	50.0	15.6	mg/L		08/21/24 09:18	08/27/24 14:55	100
Lithium	**1.51**		0.500	0.129	mg/L		08/21/24 09:18	08/27/24 14:55	100

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**2.83**		0.200	0.130	ug/L		08/28/24 09:50	08/29/24 15:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/16/24 18:41	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/16/24 18:41	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/16/24 18:41	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/16/24 18:41	1
Total Dissolved Solids (SM 2540C)	**9800**		100	100	mg/L			08/21/24 12:36	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**4.15**		0.704	0.800	1.00	0.597	pCi/L	08/23/24 08:52	09/03/24 12:15	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.4*		*30 - 110*	*08/23/24 08:52*	*09/03/24 12:15*	*1*
Y Carrier	*74.8*		*30 - 110*	*08/23/24 08:52*	*09/03/24 12:15*	*1*

Method: SM7500 Ra B - Radium-226

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra-226	**1.00**		0.600		1.00	0.170	pCi/L	08/19/24 10:42	09/16/24 11:18	1

Client Sample ID: AP-35
Date Collected: 08/14/24 11:30
Date Received: 08/15/24 09:39

Lab Sample ID: 860-80537-7
Matrix: Water

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2300**		5.00	2.50	mg/L			08/20/24 17:53	10
Fluoride	**9.41**		5.00	1.00	mg/L			08/20/24 17:53	10
Sulfate	**3230**		5.00	2.00	mg/L			08/20/24 17:53	10

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0563	U	0.100	0.0563	mg/L		08/21/24 09:18	08/27/24 14:57	100
Boron	**6.40**	**J**	8.00	6.01	mg/L		08/21/24 09:18	08/27/24 14:57	100
Barium	0.314	U	1.00	0.314	mg/L		08/21/24 09:18	08/27/24 14:57	100
Beryllium	**0.280**		0.100	0.0274	mg/L		08/21/24 09:18	08/27/24 14:57	100
Calcium	**677**		50.0	12.7	mg/L		08/21/24 09:18	08/27/24 14:57	100
Cadmium	0.0217	U	0.100	0.0217	mg/L		08/21/24 09:18	08/27/24 14:57	100
Chromium	0.153	U	0.200	0.153	mg/L		08/21/24 09:18	08/27/24 14:57	100
Cobalt	**0.0360**	**J**	0.0500	0.0261	mg/L		08/21/24 09:18	08/27/24 14:57	100
Magnesium	**186**		50.0	7.89	mg/L		08/21/24 09:18	08/27/24 14:57	100
Molybdenum	0.0610	U	0.500	0.0610	mg/L		08/21/24 09:18	08/27/24 14:57	100
Sodium	**1810**		50.0	18.4	mg/L		08/21/24 09:18	08/27/24 14:57	100
Lead	0.0376	U	0.100	0.0376	mg/L		08/21/24 09:18	08/27/24 14:57	100
Antimony	0.0967	U	0.200	0.0967	mg/L		08/21/24 09:18	08/27/24 14:57	100
Thallium	0.0472	U	0.100	0.0472	mg/L		08/21/24 09:18	08/27/24 14:57	100
Selenium	0.153	U	0.500	0.153	mg/L		08/21/24 09:18	08/27/24 14:57	100
Potassium	**51.4**		50.0	15.6	mg/L		08/21/24 09:18	08/27/24 14:57	100
Lithium	**1.84**		0.500	0.129	mg/L		08/21/24 09:18	08/27/24 14:57	100

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.468**		0.200	0.130	ug/L		08/28/24 09:50	08/29/24 15:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/17/24 21:49	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/17/24 21:49	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/17/24 21:49	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/17/24 21:49	1
Total Dissolved Solids (SM 2540C)	**11300**		100	100	mg/L			08/21/24 12:36	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**15.3**		1.23	1.87	1.00	0.570	pCi/L	08/23/24 08:52	09/03/24 12:15	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*96.7*		*30 - 110*	*08/23/24 08:52*	*09/03/24 12:15*	*1*
Y Carrier	*74.8*		*30 - 110*	*08/23/24 08:52*	*09/03/24 12:15*	*1*

Client Sample ID: AP-35

Lab Sample ID: 860-80537-7

Date Collected: 08/14/24 11:30

Matrix: Water

Date Received: 08/15/24 09:39

Method: SM7500 Ra B - Radium-226

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra-226	**3.55**		1.00		1.00	0.160	pCi/L	08/19/24 10:42	09/16/24 11:18	1

Client Sample ID: AP-36

Lab Sample ID: 860-80537-8

Date Collected: 08/14/24 10:45

Matrix: Water

Date Received: 08/15/24 09:39

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1520**		5.00	2.50	mg/L			08/20/24 18:18	10
Fluoride	1.00	U	5.00	1.00	mg/L			08/20/24 18:18	10
Sulfate	**2780**		5.00	2.00	mg/L			08/20/24 18:18	10

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0563	U	0.100	0.0563	mg/L		08/21/24 09:18	08/27/24 15:00	100
Boron	6.01	U	8.00	6.01	mg/L		08/21/24 09:18	08/27/24 15:00	100
Barium	0.314	U	1.00	0.314	mg/L		08/21/24 09:18	08/27/24 15:00	100
Beryllium	0.0274	U	0.100	0.0274	mg/L		08/21/24 09:18	08/27/24 15:00	100
Calcium	**616**		50.0	12.7	mg/L		08/21/24 09:18	08/27/24 15:00	100
Cadmium	0.0217	U	0.100	0.0217	mg/L		08/21/24 09:18	08/27/24 15:00	100
Chromium	0.153	U	0.200	0.153	mg/L		08/21/24 09:18	08/27/24 15:00	100
Cobalt	**0.0624**		0.0500	0.0261	mg/L		08/21/24 09:18	08/27/24 15:00	100
Magnesium	**107**		50.0	7.89	mg/L		08/21/24 09:18	08/27/24 15:00	100
Molybdenum	0.0610	U	0.500	0.0610	mg/L		08/21/24 09:18	08/27/24 15:00	100
Sodium	**1370**		50.0	18.4	mg/L		08/21/24 09:18	08/27/24 15:00	100
Lead	0.0376	U	0.100	0.0376	mg/L		08/21/24 09:18	08/27/24 15:00	100
Antimony	0.0967	U	0.200	0.0967	mg/L		08/21/24 09:18	08/27/24 15:00	100
Thallium	0.0472	U	0.100	0.0472	mg/L		08/21/24 09:18	08/27/24 15:00	100
Selenium	0.153	U	0.500	0.153	mg/L		08/21/24 09:18	08/27/24 15:00	100
Potassium	**38.6**	**J**	50.0	15.6	mg/L		08/21/24 09:18	08/27/24 15:00	100
Lithium	**1.15**		0.500	0.129	mg/L		08/21/24 09:18	08/27/24 15:00	100

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.130	U	0.200	0.130	ug/L		08/28/24 09:50	08/29/24 15:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/17/24 21:44	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/17/24 21:44	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/17/24 21:44	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/17/24 21:44	1
Total Dissolved Solids (SM 2540C)	**6540**		40.0	40.0	mg/L			08/21/24 12:36	1

Client Sample ID: AP-36

Lab Sample ID: 860-80537-8

Date Collected: 08/14/24 10:45

Matrix: Water

Date Received: 08/15/24 09:39

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**4.63**		0.688	0.809	1.00	0.506	pCi/L	08/23/24 08:52	09/03/24 12:15	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*95.9*		*30 - 110*	*08/23/24 08:52*	*09/03/24 12:15*	*1*
Y Carrier	*78.5*		*30 - 110*	*08/23/24 08:52*	*09/03/24 12:15*	*1*

Method: SM7500 Ra B - Radium-226

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra-226	0.150	U	0.530		1.00	0.180	pCi/L	08/19/24 10:42	09/16/24 11:18	1

Client Sample ID: MW-03

Lab Sample ID: 860-80537-9

Date Collected: 08/14/24 10:20

Matrix: Water

Date Received: 08/15/24 09:39

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1790**		5.00	2.50	mg/L			08/20/24 18:43	10
Fluoride	1.00	U	5.00	1.00	mg/L			08/20/24 18:43	10
Sulfate	**4010**		5.00	2.00	mg/L			08/20/24 18:43	10

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0563	U	0.100	0.0563	mg/L		08/21/24 09:18	08/27/24 15:09	100
Boron	**13.8**		8.00	6.01	mg/L		08/21/24 09:18	08/27/24 15:09	100
Barium	0.314	U	1.00	0.314	mg/L		08/21/24 09:18	08/27/24 15:09	100
Beryllium	**0.0304**	**J**	0.100	0.0274	mg/L		08/21/24 09:18	08/27/24 15:09	100
Calcium	**571**		50.0	12.7	mg/L		08/21/24 09:18	08/27/24 15:09	100
Cadmium	**0.0594**	**J**	0.100	0.0217	mg/L		08/21/24 09:18	08/27/24 15:09	100
Chromium	0.153	U	0.200	0.153	mg/L		08/21/24 09:18	08/27/24 15:09	100
Cobalt	**0.366**		0.0500	0.0261	mg/L		08/21/24 09:18	08/27/24 15:09	100
Magnesium	**101**		50.0	7.89	mg/L		08/21/24 09:18	08/27/24 15:09	100
Molybdenum	0.0610	U	0.500	0.0610	mg/L		08/21/24 09:18	08/27/24 15:09	100
Sodium	**2230**		50.0	18.4	mg/L		08/21/24 09:18	08/27/24 15:09	100
Lead	0.0376	U	0.100	0.0376	mg/L		08/21/24 09:18	08/27/24 15:09	100
Antimony	0.0967	U	0.200	0.0967	mg/L		08/21/24 09:18	08/27/24 15:09	100
Thallium	0.0472	U	0.100	0.0472	mg/L		08/21/24 09:18	08/27/24 15:09	100
Selenium	0.153	U	0.500	0.153	mg/L		08/21/24 09:18	08/27/24 15:09	100
Potassium	**30.4**	**J**	50.0	15.6	mg/L		08/21/24 09:18	08/27/24 15:09	100
Lithium	**1.94**		0.500	0.129	mg/L		08/21/24 09:18	08/27/24 15:09	100

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.130	U	0.200	0.130	ug/L		08/28/24 09:50	08/29/24 15:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/17/24 21:54	1

Client Sample ID: MW-03

Lab Sample ID: 860-80537-9

Date Collected: 08/14/24 10:20

Matrix: Water

Date Received: 08/15/24 09:39

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/17/24 21:54	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/17/24 21:54	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/17/24 21:54	1
Total Dissolved Solids (SM 2540C)	**9420**		100	100	mg/L			08/21/24 12:36	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**5.27**		0.761	0.903	1.00	0.659	pCi/L	08/23/24 08:52	09/03/24 12:15	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*102*		*30 - 110*	*08/23/24 08:52*	*09/03/24 12:15*	*1*
Y Carrier	*74.8*		*30 - 110*	*08/23/24 08:52*	*09/03/24 12:15*	*1*

Method: SM7500 Ra B - Radium-226

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra-226	**1.33**		0.650		1.00	0.190	pCi/L	08/19/24 10:42	09/16/24 11:18	1

Client Sample ID: PZ-05

Lab Sample ID: 860-80537-10

Date Collected: 08/14/24 10:30

Matrix: Water

Date Received: 08/15/24 09:39

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2160**		5.00	2.50	mg/L			08/20/24 19:33	10
Fluoride	**1.63**	**J**	5.00	1.00	mg/L			08/20/24 19:33	10
Sulfate	**3000**		5.00	2.00	mg/L			08/20/24 19:33	10

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0563	U	0.100	0.0563	mg/L		08/21/24 09:18	08/27/24 15:11	100
Boron	**27.4**		8.00	6.01	mg/L		08/21/24 09:18	08/27/24 15:11	100
Barium	0.314	U	1.00	0.314	mg/L		08/21/24 09:18	08/27/24 15:11	100
Beryllium	**0.177**		0.100	0.0274	mg/L		08/21/24 09:18	08/27/24 15:11	100
Calcium	**670**		50.0	12.7	mg/L		08/21/24 09:18	08/27/24 15:11	100
Cadmium	**0.0733**	**J**	0.100	0.0217	mg/L		08/21/24 09:18	08/27/24 15:11	100
Chromium	0.153	U	0.200	0.153	mg/L		08/21/24 09:18	08/27/24 15:11	100
Cobalt	**0.955**		0.0500	0.0261	mg/L		08/21/24 09:18	08/27/24 15:11	100
Magnesium	**114**		50.0	7.89	mg/L		08/21/24 09:18	08/27/24 15:11	100
Molybdenum	0.0610	U	0.500	0.0610	mg/L		08/21/24 09:18	08/27/24 15:11	100
Sodium	**1700**		50.0	18.4	mg/L		08/21/24 09:18	08/27/24 15:11	100
Lead	0.0376	U	0.100	0.0376	mg/L		08/21/24 09:18	08/27/24 15:11	100
Antimony	0.0967	U	0.200	0.0967	mg/L		08/21/24 09:18	08/27/24 15:11	100
Thallium	0.0472	U	0.100	0.0472	mg/L		08/21/24 09:18	08/27/24 15:11	100
Selenium	0.153	U	0.500	0.153	mg/L		08/21/24 09:18	08/27/24 15:11	100
Potassium	**21.4**	**J**	50.0	15.6	mg/L		08/21/24 09:18	08/27/24 15:11	100

Client Sample ID: PZ-05

Lab Sample ID: 860-80537-10

Date Collected: 08/14/24 10:30

Matrix: Water

Date Received: 08/15/24 09:39

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	**1.12**		0.500	0.129	mg/L		08/21/24 09:18	08/27/24 15:11	100

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.171**	**J**	0.200	0.130	ug/L		08/28/24 09:50	08/29/24 15:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/17/24 21:13	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/17/24 21:13	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/17/24 21:13	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/17/24 21:13	1
Total Dissolved Solids (SM 2540C)	**8510**		100	100	mg/L			08/21/24 12:36	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**3.46**		0.599	0.679	1.00	0.527	pCi/L	08/23/24 08:52	09/03/24 12:15	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*98.7*		*30 - 110*	*08/23/24 08:52*	*09/03/24 12:15*	*1*
Y Carrier	*81.1*		*30 - 110*	*08/23/24 08:52*	*09/03/24 12:15*	*1*

Method: SM7500 Ra B - Radium-226

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra-226	**0.870**		0.340		1.00	0.160	pCi/L	08/19/24 10:55	09/09/24 09:54	1

Client Sample ID: PZ-06

Lab Sample ID: 860-80537-11

Date Collected: 08/14/24 09:45

Matrix: Water

Date Received: 08/15/24 09:39

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2090**		5.00	2.50	mg/L			08/20/24 19:58	10
Fluoride	1.00	U	5.00	1.00	mg/L			08/20/24 19:58	10
Sulfate	**2740**		5.00	2.00	mg/L			08/20/24 19:58	10

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0563	U	0.100	0.0563	mg/L		08/21/24 09:18	08/27/24 15:14	100
Boron	6.01	U	8.00	6.01	mg/L		08/21/24 09:18	08/27/24 15:14	100
Barium	0.314	U	1.00	0.314	mg/L		08/21/24 09:18	08/27/24 15:14	100
Beryllium	0.0274	U	0.100	0.0274	mg/L		08/21/24 09:18	08/27/24 15:14	100
Calcium	**703**		50.0	12.7	mg/L		08/21/24 09:18	08/27/24 15:14	100
Cadmium	0.0217	U	0.100	0.0217	mg/L		08/21/24 09:18	08/27/24 15:14	100
Chromium	0.153	U	0.200	0.153	mg/L		08/21/24 09:18	08/27/24 15:14	100
Cobalt	0.0261	U	0.0500	0.0261	mg/L		08/21/24 09:18	08/27/24 15:14	100

Client Sample ID: PZ-06

Lab Sample ID: 860-80537-11

Date Collected: 08/14/24 09:45

Matrix: Water

Date Received: 08/15/24 09:39

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	**110**		50.0	7.89	mg/L		08/21/24 09:18	08/27/24 15:14	100
Molybdenum	0.0610	U	0.500	0.0610	mg/L		08/21/24 09:18	08/27/24 15:14	100
Sodium	**1670**		50.0	18.4	mg/L		08/21/24 09:18	08/27/24 15:14	100
Lead	0.0376	U	0.100	0.0376	mg/L		08/21/24 09:18	08/27/24 15:14	100
Antimony	0.0967	U	0.200	0.0967	mg/L		08/21/24 09:18	08/27/24 15:14	100
Thallium	0.0472	U	0.100	0.0472	mg/L		08/21/24 09:18	08/27/24 15:14	100
Selenium	0.153	U	0.500	0.153	mg/L		08/21/24 09:18	08/27/24 15:14	100
Potassium	**39.8**	**J**	50.0	15.6	mg/L		08/21/24 09:18	08/27/24 15:14	100
Lithium	**1.27**		0.500	0.129	mg/L		08/21/24 09:18	08/27/24 15:14	100

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.130	U	0.200	0.130	ug/L		08/28/24 09:50	08/29/24 15:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	**70.9**		4.00	4.00	mg/L			08/16/24 18:08	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**70.9**		4.00	4.00	mg/L			08/16/24 18:08	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/16/24 18:08	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/16/24 18:08	1
Total Dissolved Solids (SM 2540C)	**7970**		100	100	mg/L			08/21/24 12:36	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**2.88**		0.533	0.595	1.00	0.470	pCi/L	08/23/24 08:52	09/03/24 12:15	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*99.0*		*30 - 110*	*08/23/24 08:52*	*09/03/24 12:15*	*1*
Y Carrier	*84.5*		*30 - 110*	*08/23/24 08:52*	*09/03/24 12:15*	*1*

Method: SM7500 Ra B - Radium-226

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra-226	**0.240**		0.460		1.00	0.150	pCi/L	08/19/24 10:55	09/13/24 15:25	1

Client Sample ID: EB-01

Lab Sample ID: 860-80537-12

Date Collected: 08/14/24 10:25

Matrix: Water

Date Received: 08/15/24 09:39

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.50	U	5.00	2.50	mg/L			08/20/24 20:22	10
Fluoride	1.00	U	5.00	1.00	mg/L			08/20/24 20:22	10
Sulfate	2.00	U	5.00	2.00	mg/L			08/20/24 20:22	10

Client Sample ID: EB-01
Date Collected: 08/14/24 10:25
Date Received: 08/15/24 09:39

Lab Sample ID: 860-80537-12
Matrix: Water

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.000563	U	0.00100	0.000563	mg/L		08/21/24 09:18	08/27/24 14:01	1
Boron	0.0601	U	0.0800	0.0601	mg/L		08/21/24 09:18	08/27/24 14:01	1
Barium	0.00314	U	0.0100	0.00314	mg/L		08/21/24 09:18	08/27/24 14:01	1
Beryllium	0.000274	U	0.00100	0.000274	mg/L		08/21/24 09:18	08/27/24 14:01	1
Calcium	**0.169**	**J**	0.500	0.127	mg/L		08/21/24 09:18	08/27/24 14:01	1
Cadmium	**0.000292**	**J**	0.00100	0.000217	mg/L		08/21/24 09:18	08/27/24 14:01	1
Chromium	0.00153	U	0.00200	0.00153	mg/L		08/21/24 09:18	08/27/24 14:01	1
Cobalt	**0.000303**	**J**	0.000500	0.000261	mg/L		08/21/24 09:18	08/27/24 14:01	1
Magnesium	0.0789	U	0.500	0.0789	mg/L		08/21/24 09:18	08/27/24 14:01	1
Molybdenum	0.000610	U	0.00500	0.000610	mg/L		08/21/24 09:18	08/27/24 14:01	1
Sodium	**0.278**	**J**	0.500	0.184	mg/L		08/21/24 09:18	08/27/24 14:01	1
Lead	**0.000430**	**J**	0.00100	0.000376	mg/L		08/21/24 09:18	08/27/24 14:01	1
Antimony	0.000967	U	0.00200	0.000967	mg/L		08/21/24 09:18	08/27/24 14:01	1
Thallium	0.000472	U	0.00100	0.000472	mg/L		08/21/24 09:18	08/27/24 14:01	1
Selenium	0.00153	U	0.00500	0.00153	mg/L		08/21/24 09:18	08/27/24 14:01	1
Potassium	0.156	U	0.500	0.156	mg/L		08/21/24 09:18	08/27/24 14:01	1
Lithium	0.00129	U	0.00500	0.00129	mg/L		08/21/24 09:18	08/27/24 14:01	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.130	U	0.200	0.130	ug/L		08/28/24 09:50	08/29/24 15:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/16/24 18:15	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/16/24 18:15	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/16/24 18:15	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/16/24 18:15	1
Total Dissolved Solids (SM 2540C)	**11.0**		5.00	5.00	mg/L			08/21/24 12:36	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.252	U	0.285	0.286	1.00	0.466	pCi/L	08/23/24 08:52	09/03/24 12:15	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*99.7*		*30 - 110*	*08/23/24 08:52*	*09/03/24 12:15*	*1*
Y Carrier	*83.4*		*30 - 110*	*08/23/24 08:52*	*09/03/24 12:15*	*1*

Method: SM7500 Ra B - Radium-226

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra-226	0.190	U	0.200		1.00	0.200	pCi/L	08/19/24 10:55	09/09/24 09:54	1

Client Sample ID: DUP-02
Date Collected: 08/14/24 12:00
Date Received: 08/15/24 09:39

Lab Sample ID: 860-80537-13
Matrix: Water

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1750**		5.00	2.50	mg/L			08/20/24 20:47	10
Fluoride	1.00	U	5.00	1.00	mg/L			08/20/24 20:47	10
Sulfate	**4030**		5.00	2.00	mg/L			08/20/24 20:47	10

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0563	U	0.100	0.0563	mg/L		08/21/24 09:18	08/27/24 15:17	100
Boron	**14.1**		8.00	6.01	mg/L		08/21/24 09:18	08/27/24 15:17	100
Barium	0.314	U	1.00	0.314	mg/L		08/21/24 09:18	08/27/24 15:17	100
Beryllium	**0.0304**	**J**	0.100	0.0274	mg/L		08/21/24 09:18	08/27/24 15:17	100
Calcium	**566**		50.0	12.7	mg/L		08/21/24 09:18	08/27/24 15:17	100
Cadmium	**0.0728**	**J**	0.100	0.0217	mg/L		08/21/24 09:18	08/27/24 15:17	100
Chromium	0.153	U	0.200	0.153	mg/L		08/21/24 09:18	08/27/24 15:17	100
Cobalt	**0.415**		0.0500	0.0261	mg/L		08/21/24 09:18	08/27/24 15:17	100
Magnesium	**102**		50.0	7.89	mg/L		08/21/24 09:18	08/27/24 15:17	100
Molybdenum	0.0610	U	0.500	0.0610	mg/L		08/21/24 09:18	08/27/24 15:17	100
Sodium	**2300**		50.0	18.4	mg/L		08/21/24 09:18	08/27/24 15:17	100
Lead	0.0376	U	0.100	0.0376	mg/L		08/21/24 09:18	08/27/24 15:17	100
Antimony	0.0967	U	0.200	0.0967	mg/L		08/21/24 09:18	08/27/24 15:17	100
Thallium	0.0472	U	0.100	0.0472	mg/L		08/21/24 09:18	08/27/24 15:17	100
Selenium	0.153	U	0.500	0.153	mg/L		08/21/24 09:18	08/27/24 15:17	100
Potassium	**31.9**	**J**	50.0	15.6	mg/L		08/21/24 09:18	08/27/24 15:17	100
Lithium	**1.99**		0.500	0.129	mg/L		08/21/24 09:18	08/27/24 15:17	100

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.130	U	0.200	0.130	ug/L		08/28/24 09:50	08/29/24 15:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/16/24 18:01	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/16/24 18:01	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/16/24 18:01	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/16/24 18:01	1
Total Dissolved Solids (SM 2540C)	**9480**		100	100	mg/L			08/21/24 12:38	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**4.97**		0.668	0.810	1.00	0.429	pCi/L	08/23/24 08:52	09/03/24 12:15	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*102*		*30 - 110*	*08/23/24 08:52*	*09/03/24 12:15*	*1*
Y Carrier	*84.9*		*30 - 110*	*08/23/24 08:52*	*09/03/24 12:15*	*1*

Client Sample ID: DUP-02

Lab Sample ID: 860-80537-13

Date Collected: 08/14/24 12:00

Matrix: Water

Date Received: 08/15/24 09:39

Method: SM7500 Ra B - Radium-226

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra-226	1.14		0.670		1.00	0.150	pCi/L	08/19/24 10:55	09/13/24 15:25	1

Client Sample ID: FB-02

Lab Sample ID: 860-80537-14

Date Collected: 08/14/24 11:20

Matrix: Water

Date Received: 08/15/24 09:39

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.50	U	5.00	2.50	mg/L			08/20/24 21:12	10
Fluoride	1.00	U	5.00	1.00	mg/L			08/20/24 21:12	10
Sulfate	2.20	J	5.00	2.00	mg/L			08/20/24 21:12	10

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.000563	U	0.00100	0.000563	mg/L		08/21/24 09:18	08/27/24 14:04	1
Boron	0.0601	U	0.0800	0.0601	mg/L		08/21/24 09:18	08/27/24 14:04	1
Barium	0.00314	U	0.0100	0.00314	mg/L		08/21/24 09:18	08/27/24 14:04	1
Beryllium	0.000274	U	0.00100	0.000274	mg/L		08/21/24 09:18	08/27/24 14:04	1
Calcium	0.127	U	0.500	0.127	mg/L		08/21/24 09:18	08/27/24 14:04	1
Cadmium	0.000217	U	0.00100	0.000217	mg/L		08/21/24 09:18	08/27/24 14:04	1
Chromium	0.00153	U	0.00200	0.00153	mg/L		08/21/24 09:18	08/27/24 14:04	1
Cobalt	0.000261	U	0.000500	0.000261	mg/L		08/21/24 09:18	08/27/24 14:04	1
Magnesium	0.0789	U	0.500	0.0789	mg/L		08/21/24 09:18	08/27/24 14:04	1
Molybdenum	0.000610	U	0.00500	0.000610	mg/L		08/21/24 09:18	08/27/24 14:04	1
Sodium	0.184	U	0.500	0.184	mg/L		08/21/24 09:18	08/27/24 14:04	1
Lead	0.000376	U	0.00100	0.000376	mg/L		08/21/24 09:18	08/27/24 14:04	1
Antimony	0.000967	U	0.00200	0.000967	mg/L		08/21/24 09:18	08/27/24 14:04	1
Thallium	0.000472	U	0.00100	0.000472	mg/L		08/21/24 09:18	08/27/24 14:04	1
Selenium	0.00153	U	0.00500	0.00153	mg/L		08/21/24 09:18	08/27/24 14:04	1
Potassium	0.156	U	0.500	0.156	mg/L		08/21/24 09:18	08/27/24 14:04	1
Lithium	0.00129	U	0.00500	0.00129	mg/L		08/21/24 09:18	08/27/24 14:04	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.138	J	0.200	0.130	ug/L		08/28/24 09:50	08/29/24 15:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/16/24 01:17	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/16/24 01:17	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/16/24 01:17	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/16/24 01:17	1
Total Dissolved Solids (SM 2540C)	5.00	U	5.00	5.00	mg/L			08/21/24 12:38	1

Client: GSI Environmental Inc
Project/Site: Ash Pond

Job ID: 860-80537-1

Client Sample ID: FB-02
Date Collected: 08/14/24 11:20
Date Received: 08/15/24 09:39

Lab Sample ID: 860-80537-14
Matrix: Water

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.412	U	0.366	0.368	1.00	0.579	pCi/L	08/26/24 08:27	09/05/24 13:08	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*98.5*		*30 - 110*	*08/26/24 08:27*	*09/05/24 13:08*	*1*
Y Carrier	*81.9*		*30 - 110*	*08/26/24 08:27*	*09/05/24 13:08*	*1*

Method: SM7500 Ra B - Radium-226

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra-226	0.0400	U	0.100		1.00	0.170	pCi/L	08/19/24 10:55	09/09/24 09:54	1

Tracer/Carrier Summary

Client: GSI Environmental Inc
Project/Site: Ash Pond

Job ID: 860-80537-1

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)	
		Ba	Y
Lab Sample ID	Client Sample ID	(30-110)	(30-110)
860-80537-1	PZ-02	105	79.6
860-80537-2	PZ-03	104	83.0
860-80537-2 MS	PZ-03	103	81.1
860-80537-2 MSD	PZ-03	103	83.4
860-80537-3	AP-31	102	75.5
860-80537-4	AP-32	95.9	79.3
860-80537-5	AP-33	98.5	67.3
860-80537-6	AP-34	93.4	74.8
860-80537-7	AP-35	96.7	74.8
860-80537-8	AP-36	95.9	78.5
860-80537-9	MW-03	102	74.8
860-80537-10	PZ-05	98.7	81.1
860-80537-11	PZ-06	99.0	84.5
860-80537-12	EB-01	99.7	83.4
860-80537-13	DUP-02	102	84.9
860-80537-14	FB-02	98.5	81.9
LCS 160-676473/2-A	Lab Control Sample	99.2	78.9
LCS 160-676627/2-A	Lab Control Sample	98.2	83.4
MB 160-676473/1-A	Method Blank	101	80.0
MB 160-676627/1-A	Method Blank	99.5	83.0

Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-182530/3
Matrix: Water
Analysis Batch: 182530

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.250	U	0.500	0.250	mg/L			08/20/24 11:03	1
Fluoride	0.100	U	0.500	0.100	mg/L			08/20/24 11:03	1
Sulfate	0.200	U	0.500	0.200	mg/L			08/20/24 11:03	1

Lab Sample ID: LCS 860-182530/4
Matrix: Water
Analysis Batch: 182530

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.0	9.997		mg/L		100	90 - 110
Fluoride	10.0	10.24		mg/L		102	90 - 110
Sulfate	10.0	10.08		mg/L		101	90 - 110

Lab Sample ID: LCSD 860-182530/5
Matrix: Water
Analysis Batch: 182530

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	10.0	9.948		mg/L		99	90 - 110	0	20
Fluoride	10.0	10.25		mg/L		102	90 - 110	0	20
Sulfate	10.0	10.07		mg/L		101	90 - 110	0	20

Lab Sample ID: LLCS 860-182530/7
Matrix: Water
Analysis Batch: 182530

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	0.500	0.4915	J	mg/L		98	50 - 150
Fluoride	0.500	0.3430	J	mg/L		69	50 - 150
Sulfate	0.500	0.4949	J	mg/L		99	50 - 150

Lab Sample ID: 860-80537-2 MS
Matrix: Water
Analysis Batch: 182530

Client Sample ID: PZ-03
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	4.26	J F1	100	49.20	F1	mg/L		45	90 - 110
Sulfate	3700		100	3790	4	mg/L		91	90 - 110

Lab Sample ID: 860-80537-2 MSD
Matrix: Water
Analysis Batch: 182530

Client Sample ID: PZ-03
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	4.26	J F1	100	49.52	F1	mg/L		45	90 - 110	1	15
Sulfate	3700		100	3784	4	mg/L		85	90 - 110	0	15

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 860-184311/3
Matrix: Water
Analysis Batch: 184311

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.250	U	0.500	0.250	mg/L			08/29/24 12:02	1
Fluoride	0.100	U	0.500	0.100	mg/L			08/29/24 12:02	1
Sulfate	0.200	U	0.500	0.200	mg/L			08/29/24 12:02	1

Lab Sample ID: LCS 860-184311/4
Matrix: Water
Analysis Batch: 184311

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.0	9.928		mg/L		99	90 - 110
Fluoride	10.0	10.14		mg/L		101	90 - 110
Sulfate	10.0	10.19		mg/L		102	90 - 110

Lab Sample ID: LCSD 860-184311/5
Matrix: Water
Analysis Batch: 184311

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	10.0	9.964		mg/L		100	90 - 110	0	20
Fluoride	10.0	10.18		mg/L		102	90 - 110	0	20
Sulfate	10.0	10.20		mg/L		102	90 - 110	0	20

Lab Sample ID: LLCS 860-184311/7
Matrix: Water
Analysis Batch: 184311

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	0.500	0.5397		mg/L		108	50 - 150
Fluoride	0.500	0.4230	J	mg/L		85	50 - 150
Sulfate	0.500	0.4941	J	mg/L		99	50 - 150

Lab Sample ID: 860-80537-2 MS
Matrix: Water
Analysis Batch: 184311

Client Sample ID: PZ-03
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	5850		1000	8772	4	mg/L		292	90 - 110

Lab Sample ID: 860-80537-2 MSD
Matrix: Water
Analysis Batch: 184311

Client Sample ID: PZ-03
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	5850		1000	8770	4	mg/L		292	90 - 110	0	15

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 860-184619/3
Matrix: Water
Analysis Batch: 184619

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.250	U	0.500	0.250	mg/L			08/30/24 09:52	1
Fluoride	0.100	U	0.500	0.100	mg/L			08/30/24 09:52	1
Sulfate	0.200	U	0.500	0.200	mg/L			08/30/24 09:52	1

Lab Sample ID: LCS 860-184619/4
Matrix: Water
Analysis Batch: 184619

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.0	10.33		mg/L		103	90 - 110
Fluoride	10.0	10.00		mg/L		100	90 - 110
Sulfate	10.0	9.400		mg/L		94	90 - 110

Lab Sample ID: LCSD 860-184619/5
Matrix: Water
Analysis Batch: 184619

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	10.0	10.26		mg/L		103	90 - 110	1	20
Fluoride	10.0	9.954		mg/L		100	90 - 110	0	20
Sulfate	10.0	9.583		mg/L		96	90 - 110	2	20

Lab Sample ID: LLCS 860-184619/7
Matrix: Water
Analysis Batch: 184619

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	0.500	0.4855	J	mg/L		97	50 - 150
Fluoride	0.500	0.4441	J	mg/L		89	50 - 150
Sulfate	0.500	0.4549	J	mg/L		91	50 - 150

Method: EPA 6020A - Metals (ICP/MS)

Lab Sample ID: MB 180-477235/1-A
Matrix: Water
Analysis Batch: 477804

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 477235

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.000563	U	0.00100	0.000563	mg/L		08/21/24 09:18	08/27/24 13:53	1
Boron	0.0601	U	0.0800	0.0601	mg/L		08/21/24 09:18	08/27/24 13:53	1
Barium	0.00314	U	0.0100	0.00314	mg/L		08/21/24 09:18	08/27/24 13:53	1
Beryllium	0.000274	U	0.00100	0.000274	mg/L		08/21/24 09:18	08/27/24 13:53	1
Calcium	0.127	U	0.500	0.127	mg/L		08/21/24 09:18	08/27/24 13:53	1
Cadmium	0.000217	U	0.00100	0.000217	mg/L		08/21/24 09:18	08/27/24 13:53	1
Chromium	0.00153	U	0.00200	0.00153	mg/L		08/21/24 09:18	08/27/24 13:53	1
Cobalt	0.000261	U	0.000500	0.000261	mg/L		08/21/24 09:18	08/27/24 13:53	1
Magnesium	0.0789	U	0.500	0.0789	mg/L		08/21/24 09:18	08/27/24 13:53	1
Molybdenum	0.000610	U	0.00500	0.000610	mg/L		08/21/24 09:18	08/27/24 13:53	1
Sodium	0.184	U	0.500	0.184	mg/L		08/21/24 09:18	08/27/24 13:53	1
Lead	0.000376	U	0.00100	0.000376	mg/L		08/21/24 09:18	08/27/24 13:53	1

Method: EPA 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 180-477235/1-A
Matrix: Water
Analysis Batch: 477804

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 477235

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.000967	U	0.00200	0.000967	mg/L		08/21/24 09:18	08/27/24 13:53	1
Thallium	0.000472	U	0.00100	0.000472	mg/L		08/21/24 09:18	08/27/24 13:53	1
Selenium	0.00153	U	0.00500	0.00153	mg/L		08/21/24 09:18	08/27/24 13:53	1
Potassium	0.156	U	0.500	0.156	mg/L		08/21/24 09:18	08/27/24 13:53	1
Lithium	0.00129	U	0.00500	0.00129	mg/L		08/21/24 09:18	08/27/24 13:53	1

Lab Sample ID: LCS 180-477235/2-A
Matrix: Water
Analysis Batch: 477804

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 477235

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	1.00	1.076		mg/L		108	80 - 120
Boron	0.250	0.2567		mg/L		103	80 - 120
Barium	1.00	1.039		mg/L		104	80 - 120
Beryllium	0.500	0.5034		mg/L		101	80 - 120
Calcium	25.0	28.03		mg/L		112	80 - 120
Cadmium	0.500	0.5427		mg/L		109	80 - 120
Chromium	0.500	0.5434		mg/L		109	80 - 120
Cobalt	0.500	0.5286		mg/L		106	80 - 120
Magnesium	25.0	26.34		mg/L		105	80 - 120
Molybdenum	0.500	0.5491		mg/L		110	80 - 120
Sodium	25.0	27.57		mg/L		110	80 - 120
Lead	0.500	0.5520		mg/L		110	80 - 120
Antimony	0.250	0.2765		mg/L		111	80 - 120
Thallium	1.00	1.140		mg/L		114	80 - 120
Selenium	1.00	1.053		mg/L		105	80 - 120
Potassium	25.0	26.56		mg/L		106	80 - 120
Lithium	0.500	0.5296		mg/L		106	80 - 120

Lab Sample ID: 860-80537-2 MS
Matrix: Water
Analysis Batch: 477804

Client Sample ID: PZ-03
Prep Type: Total Recoverable
Prep Batch: 477235

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.105		1.00	1.210		mg/L		110	75 - 125
Boron	11.2		0.250	11.36	4	mg/L		74	75 - 125
Barium	0.314	U	1.00	1.071		mg/L		107	75 - 125
Beryllium	0.262		0.500	0.7916		mg/L		106	75 - 125
Calcium	989		25.0	943.1	4	mg/L		-183	75 - 125
Cadmium	0.617		0.500	1.152		mg/L		107	75 - 125
Chromium	0.153	U	0.500	0.5734		mg/L		115	75 - 125
Cobalt	1.68		0.500	2.254		mg/L		116	75 - 125
Magnesium	312		25.0	318.1	4	mg/L		25	75 - 125
Molybdenum	0.0610	U	0.500	0.5377		mg/L		108	75 - 125
Sodium	3870		25.0	3686	4	mg/L		-744	75 - 125
Lead	0.0376	U	0.500	0.5526		mg/L		111	75 - 125
Antimony	0.0967	U F1	0.250	0.2777		mg/L		111	75 - 125
Thallium	0.0472	U	1.00	1.094		mg/L		109	75 - 125
Selenium	0.153	U	1.00	1.131		mg/L		113	75 - 125

Method: EPA 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 860-80537-2 MS
Matrix: Water
Analysis Batch: 477804

Client Sample ID: PZ-03
Prep Type: Total Recoverable
Prep Batch: 477235

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Potassium	29.5	J	25.0	59.06		mg/L		118	75 - 125
Lithium	2.76		0.500	3.329	4	mg/L		113	75 - 125

Lab Sample ID: 860-80537-2 MSD
Matrix: Water
Analysis Batch: 477804

Client Sample ID: PZ-03
Prep Type: Total Recoverable
Prep Batch: 477235

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	0.105		1.00	1.176		mg/L		107	75 - 125	3	20
Boron	11.2		0.250	10.95	4	mg/L		-89	75 - 125	4	20
Barium	0.314	U	1.00	1.015		mg/L		101	75 - 125	5	20
Beryllium	0.262		0.500	0.7419		mg/L		96	75 - 125	6	20
Calcium	989		25.0	929.8	4	mg/L		-236	75 - 125	1	20
Cadmium	0.617		0.500	1.177		mg/L		112	75 - 125	2	20
Chromium	0.153	U	0.500	0.5402		mg/L		108	75 - 125	6	20
Cobalt	1.68		0.500	2.203		mg/L		105	75 - 125	2	20
Magnesium	312		25.0	320.7	4	mg/L		35	75 - 125	1	20
Molybdenum	0.0610	U	0.500	0.5615		mg/L		112	75 - 125	4	20
Sodium	3870		25.0	3645	4	mg/L		-909	75 - 125	1	20
Lead	0.0376	U	0.500	0.5733		mg/L		115	75 - 125	4	20
Antimony	0.0967	U F1	0.250	0.3255	F1	mg/L		130	75 - 125	16	20
Thallium	0.0472	U	1.00	1.152		mg/L		115	75 - 125	5	20
Selenium	0.153	U	1.00	1.081		mg/L		108	75 - 125	4	20
Potassium	29.5	J	25.0	54.60		mg/L		100	75 - 125	8	20
Lithium	2.76		0.500	3.303	4	mg/L		108	75 - 125	1	20

Method: EPA 7470A - Mercury (CVAA)

Lab Sample ID: MB 180-477831/1-A
Matrix: Water
Analysis Batch: 477977

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 477831

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.130	U	0.200	0.130	ug/L		08/28/24 09:49	08/29/24 15:38	1

Lab Sample ID: LCS 180-477831/2-A
Matrix: Water
Analysis Batch: 477977

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 477831

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	2.50	2.736		ug/L		109	80 - 120

Lab Sample ID: 860-80537-2 MS
Matrix: Water
Analysis Batch: 477977

Client Sample ID: PZ-03
Prep Type: Total/NA
Prep Batch: 477831

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	2.44	F1	1.00	3.234		ug/L		80	75 - 125

Method: EPA 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: 860-80537-2 MSD
Matrix: Water
Analysis Batch: 477977

Client Sample ID: PZ-03
Prep Type: Total/NA
Prep Batch: 477831

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	2.44	F1	1.00	3.042	F1	ug/L		61	75 - 125	6	20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-181950/39
Matrix: Water
Analysis Batch: 181950

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	4.00	U	4.00	4.00	mg/L			08/15/24 22:29	1
Bicarbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			08/15/24 22:29	1
Carbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			08/15/24 22:29	1
Hydroxide Alkalinity	4.00	U	4.00	4.00	mg/L			08/15/24 22:29	1

Lab Sample ID: LCS 860-181950/40
Matrix: Water
Analysis Batch: 181950

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity	250	250.3		mg/L		100	85 - 115

Lab Sample ID: LCSD 860-181950/41
Matrix: Water
Analysis Batch: 181950

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Alkalinity	250	252.2		mg/L		101	85 - 115	1	20

Lab Sample ID: MB 860-182148/48
Matrix: Water
Analysis Batch: 182148

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	4.00	U	4.00	4.00	mg/L			08/16/24 15:44	1
Bicarbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			08/16/24 15:44	1
Carbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			08/16/24 15:44	1
Hydroxide Alkalinity	4.00	U	4.00	4.00	mg/L			08/16/24 15:44	1

Lab Sample ID: LCS 860-182148/49
Matrix: Water
Analysis Batch: 182148

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity	250	242.4		mg/L		97	85 - 115

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: LCSD 860-182148/50
Matrix: Water
Analysis Batch: 182148

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Alkalinity			250	245.3		mg/L		98	85 - 115	1	20

Lab Sample ID: MB 860-182179/3
Matrix: Water
Analysis Batch: 182179

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	4.00	U	4.00	4.00	mg/L			08/17/24 19:30	1
Bicarbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			08/17/24 19:30	1
Carbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			08/17/24 19:30	1
Hydroxide Alkalinity	4.00	U	4.00	4.00	mg/L			08/17/24 19:30	1

Lab Sample ID: LCS 860-182179/4
Matrix: Water
Analysis Batch: 182179

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Alkalinity			250	241.2		mg/L		96	85 - 115		

Lab Sample ID: LCSD 860-182179/5
Matrix: Water
Analysis Batch: 182179

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Alkalinity			250	238.8		mg/L		96	85 - 115	1	20

Lab Sample ID: MB 860-182558/4
Matrix: Water
Analysis Batch: 182558

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	4.00	U	4.00	4.00	mg/L			08/19/24 12:31	1
Bicarbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			08/19/24 12:31	1
Carbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			08/19/24 12:31	1
Hydroxide Alkalinity	4.00	U	4.00	4.00	mg/L			08/19/24 12:31	1

Lab Sample ID: LCS 860-182558/5
Matrix: Water
Analysis Batch: 182558

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Alkalinity			250	239.5		mg/L		96	85 - 115		

Lab Sample ID: LCSD 860-182558/6
Matrix: Water
Analysis Batch: 182558

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Alkalinity			250	241.6		mg/L		97	85 - 115	1	20

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: 860-80537-2 DU
Matrix: Water
Analysis Batch: 182558

Client Sample ID: PZ-03
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Alkalinity	4.00	U	4.00	U	mg/L		NC	20
Bicarbonate Alkalinity as CaCO3	4.00	U	4.00	U	mg/L		NC	20
Carbonate Alkalinity as CaCO3	4.00	U	4.00	U	mg/L		NC	20
Hydroxide Alkalinity	4.00	U	4.00	U	mg/L		NC	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 860-182527/1
Matrix: Water
Analysis Batch: 182527

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5.00	U	5.00	5.00	mg/L			08/20/24 12:44	1

Lab Sample ID: LCS 860-182527/2
Matrix: Water
Analysis Batch: 182527

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	1000	957.0		mg/L		96	80 - 120

Lab Sample ID: LLCS 860-182527/3
Matrix: Water
Analysis Batch: 182527

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	5.00	5.00	U	mg/L		90	50 - 150

Lab Sample ID: 860-80537-1 DU
Matrix: Water
Analysis Batch: 182527

Client Sample ID: PZ-02
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	9900		10530		mg/L		6	10

Lab Sample ID: MB 860-182770/1
Matrix: Water
Analysis Batch: 182770

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5.00	U	5.00	5.00	mg/L			08/21/24 12:35	1

Lab Sample ID: LCS 860-182770/2
Matrix: Water
Analysis Batch: 182770

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	1000	989.0		mg/L		99	80 - 120

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: LLCS 860-182770/3
Matrix: Water
Analysis Batch: 182770

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	5.00	5.500		mg/L		110	50 - 150

Lab Sample ID: MB 860-182771/1
Matrix: Water
Analysis Batch: 182771

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5.00	U	5.00	5.00	mg/L			08/21/24 12:38	1

Lab Sample ID: LCS 860-182771/2
Matrix: Water
Analysis Batch: 182771

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	1000	1074		mg/L		107	80 - 120

Lab Sample ID: LLCS 860-182771/3
Matrix: Water
Analysis Batch: 182771

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	5.00	7.000		mg/L		140	50 - 150

Lab Sample ID: 860-80537-13 DU
Matrix: Water
Analysis Batch: 182771

Client Sample ID: DUP-02
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	9480		8710		mg/L		8	10

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-676473/1-A
Matrix: Water
Analysis Batch: 677738

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 676473

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.2283	U	0.290	0.291	1.00	0.483	pCi/L	08/23/24 08:52	09/03/24 12:10	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*101*		*30 - 110*	*08/23/24 08:52*	*09/03/24 12:10*	*1*
Y Carrier	*80.0*		*30 - 110*	*08/23/24 08:52*	*09/03/24 12:10*	*1*

Method: 904.0 - Radium-228 (GFPC) (Continued)

Lab Sample ID: LCS 160-676473/2-A
Matrix: Water
Analysis Batch: 677738

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 676473

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			8.55	9.885		1.31	1.00	0.469	pCi/L	116	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*99.2*		*30 - 110*
Y Carrier	*78.9*		*30 - 110*

Lab Sample ID: 860-80537-2 MS
Matrix: Water
Analysis Batch: 677738

Client Sample ID: PZ-03
Prep Type: Total/NA
Prep Batch: 676473

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228	3.95		8.57	13.19		1.61	1.00	0.496	pCi/L	108	60 - 140		

Carrier	*MS %Yield*	*MS Qualifier*	*Limits*
Ba Carrier	*103*		*30 - 110*
Y Carrier	*81.1*		*30 - 110*

Lab Sample ID: 860-80537-2 MSD
Matrix: Water
Analysis Batch: 677738

Client Sample ID: PZ-03
Prep Type: Total/NA
Prep Batch: 676473

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-228	3.95		8.51	13.08		1.58	1.00	0.468	pCi/L	107	60 - 140	0.04	1

Carrier	*MSD %Yield*	*MSD Qualifier*	*Limits*
Ba Carrier	*103*		*30 - 110*
Y Carrier	*83.4*		*30 - 110*

Lab Sample ID: MB 160-676627/1-A
Matrix: Water
Analysis Batch: 678159

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 676627

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.1710	U	0.320	0.321	1.00	0.553	pCi/L	08/26/24 08:27	09/05/24 13:04	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*99.5*		*30 - 110*	*08/26/24 08:27*	*09/05/24 13:04*	*1*
Y Carrier	*83.0*		*30 - 110*	*08/26/24 08:27*	*09/05/24 13:04*	*1*

Method: 904.0 - Radium-228 (GFPC) (Continued)

Lab Sample ID: LCS 160-676627/2-A
Matrix: Water
Analysis Batch: 678159

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 676627

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			8.54	8.281		1.19	1.00	0.549	pCi/L	97	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*98.2*		*30 - 110*
Y Carrier	*83.4*		*30 - 110*

Method: SM7500 Ra B - Radium-226

Lab Sample ID: MB 810-110725/1-A
Matrix: Water
Analysis Batch: 114567

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 110725

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra-226	0.2500		0.240		1.00	0.240	pCi/L	08/19/24 10:42	09/12/24 14:17	1

Lab Sample ID: LCS 810-110725/2-A
Matrix: Water
Analysis Batch: 114567

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 110725

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Ra-226			5.26	5.290			1.00	0.210	pCi/L	101	90 - 110		

Lab Sample ID: MB 810-110730/1-A
Matrix: Water
Analysis Batch: 113892

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 110730

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra-226	0.0000	U	0.0800		1.00	0.200	pCi/L	08/19/24 10:55	09/09/24 09:54	1

Lab Sample ID: LCS 810-110730/2-A
Matrix: Water
Analysis Batch: 113892

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 110730

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Ra-226			5.06	4.750			1.00	0.180	pCi/L	94	90 - 110		

Lab Sample ID: MB 810-111010/1-A
Matrix: Water
Analysis Batch: 114136

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 111010

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra-226	0.2600		0.210		1.00	0.180	pCi/L	08/20/24 09:29	09/09/24 10:29	1

Method: SM7500 Ra B - Radium-226 (Continued)

Lab Sample ID: LCS 810-111010/2-A
Matrix: Water
Analysis Batch: 114136

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 111010

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Ra-226			5.06	4.600			1.00	0.200	pCi/L	91	90 - 110		

Lab Sample ID: 860-80537-2 MS
Matrix: Water
Analysis Batch: 114784

Client Sample ID: PZ-03
Prep Type: Total/NA
Prep Batch: 111010

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Ra-226	1.56		5.08	3.920	F1		1.00	0.170	pCi/L	47	80 - 120		

Lab Sample ID: 860-80537-2 MSD
Matrix: Water
Analysis Batch: 114784

Client Sample ID: PZ-03
Prep Type: Total/NA
Prep Batch: 111010

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Ra-226	1.56		5.08	4.340	F1		1.00	0.160	pCi/L	55	80 - 120	0.31	

Lab Sample ID: MB 810-111136/1-A
Matrix: Water
Analysis Batch: 114350

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 111136

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra-226	-0.1400	U	0.390		1.00	0.680	pCi/L	08/20/24 16:33	09/11/24 14:07	1

Lab Sample ID: LCS 810-111136/2-A
Matrix: Water
Analysis Batch: 114350

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 111136

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Ra-226			5.06	5.000			1.00	0.560	pCi/L	99	90 - 110		

HPLC/IC

Analysis Batch: 182530

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-80537-1	PZ-02	Total/NA	Water	300.0	
860-80537-2	PZ-03	Total/NA	Water	300.0	
860-80537-2	PZ-03	Total/NA	Water	300.0	
860-80537-3	AP-31	Total/NA	Water	300.0	
860-80537-4	AP-32	Total/NA	Water	300.0	
860-80537-5	AP-33	Total/NA	Water	300.0	
860-80537-6	AP-34	Total/NA	Water	300.0	
860-80537-7	AP-35	Total/NA	Water	300.0	
860-80537-8	AP-36	Total/NA	Water	300.0	
860-80537-9	MW-03	Total/NA	Water	300.0	
860-80537-10	PZ-05	Total/NA	Water	300.0	
860-80537-11	PZ-06	Total/NA	Water	300.0	
860-80537-12	EB-01	Total/NA	Water	300.0	
860-80537-13	DUP-02	Total/NA	Water	300.0	
860-80537-14	FB-02	Total/NA	Water	300.0	
MB 860-182530/3	Method Blank	Total/NA	Water	300.0	
LCS 860-182530/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-182530/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-182530/7	Lab Control Sample	Total/NA	Water	300.0	
860-80537-2 MS	PZ-03	Total/NA	Water	300.0	
860-80537-2 MSD	PZ-03	Total/NA	Water	300.0	

Analysis Batch: 184311

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-184311/3	Method Blank	Total/NA	Water	300.0	
LCS 860-184311/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-184311/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-184311/7	Lab Control Sample	Total/NA	Water	300.0	
860-80537-2 MS	PZ-03	Total/NA	Water	300.0	
860-80537-2 MSD	PZ-03	Total/NA	Water	300.0	

Analysis Batch: 184619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-184619/3	Method Blank	Total/NA	Water	300.0	
LCS 860-184619/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-184619/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-184619/7	Lab Control Sample	Total/NA	Water	300.0	

Metals

Prep Batch: 477235

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-80537-1	PZ-02	Total Recoverable	Water	3005A	
860-80537-2	PZ-03	Total Recoverable	Water	3005A	
860-80537-3	AP-31	Total Recoverable	Water	3005A	
860-80537-4	AP-32	Total Recoverable	Water	3005A	
860-80537-5	AP-33	Total Recoverable	Water	3005A	
860-80537-6	AP-34	Total Recoverable	Water	3005A	
860-80537-7	AP-35	Total Recoverable	Water	3005A	
860-80537-8	AP-36	Total Recoverable	Water	3005A	
860-80537-9	MW-03	Total Recoverable	Water	3005A	

Metals (Continued)

Prep Batch: 477235 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-80537-10	PZ-05	Total Recoverable	Water	3005A	
860-80537-11	PZ-06	Total Recoverable	Water	3005A	
860-80537-12	EB-01	Total Recoverable	Water	3005A	
860-80537-13	DUP-02	Total Recoverable	Water	3005A	
860-80537-14	FB-02	Total Recoverable	Water	3005A	
MB 180-477235/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-477235/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
860-80537-2 MS	PZ-03	Total Recoverable	Water	3005A	
860-80537-2 MSD	PZ-03	Total Recoverable	Water	3005A	

Analysis Batch: 477804

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-80537-1	PZ-02	Total Recoverable	Water	EPA 6020A	477235
860-80537-2	PZ-03	Total Recoverable	Water	EPA 6020A	477235
860-80537-3	AP-31	Total Recoverable	Water	EPA 6020A	477235
860-80537-4	AP-32	Total Recoverable	Water	EPA 6020A	477235
860-80537-5	AP-33	Total Recoverable	Water	EPA 6020A	477235
860-80537-6	AP-34	Total Recoverable	Water	EPA 6020A	477235
860-80537-7	AP-35	Total Recoverable	Water	EPA 6020A	477235
860-80537-8	AP-36	Total Recoverable	Water	EPA 6020A	477235
860-80537-9	MW-03	Total Recoverable	Water	EPA 6020A	477235
860-80537-10	PZ-05	Total Recoverable	Water	EPA 6020A	477235
860-80537-11	PZ-06	Total Recoverable	Water	EPA 6020A	477235
860-80537-12	EB-01	Total Recoverable	Water	EPA 6020A	477235
860-80537-13	DUP-02	Total Recoverable	Water	EPA 6020A	477235
860-80537-14	FB-02	Total Recoverable	Water	EPA 6020A	477235
MB 180-477235/1-A	Method Blank	Total Recoverable	Water	EPA 6020A	477235
LCS 180-477235/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020A	477235
860-80537-2 MS	PZ-03	Total Recoverable	Water	EPA 6020A	477235
860-80537-2 MSD	PZ-03	Total Recoverable	Water	EPA 6020A	477235

Prep Batch: 477831

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-80537-1	PZ-02	Total/NA	Water	7470A	
860-80537-2	PZ-03	Total/NA	Water	7470A	
860-80537-3	AP-31	Total/NA	Water	7470A	
860-80537-4	AP-32	Total/NA	Water	7470A	
860-80537-5	AP-33	Total/NA	Water	7470A	
860-80537-6	AP-34	Total/NA	Water	7470A	
860-80537-7	AP-35	Total/NA	Water	7470A	
860-80537-8	AP-36	Total/NA	Water	7470A	
860-80537-9	MW-03	Total/NA	Water	7470A	
860-80537-10	PZ-05	Total/NA	Water	7470A	
860-80537-11	PZ-06	Total/NA	Water	7470A	
860-80537-12	EB-01	Total/NA	Water	7470A	
860-80537-13	DUP-02	Total/NA	Water	7470A	
860-80537-14	FB-02	Total/NA	Water	7470A	
MB 180-477831/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-477831/2-A	Lab Control Sample	Total/NA	Water	7470A	
860-80537-2 MS	PZ-03	Total/NA	Water	7470A	
860-80537-2 MSD	PZ-03	Total/NA	Water	7470A	

Metals

Analysis Batch: 477977

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-80537-1	PZ-02	Total/NA	Water	EPA 7470A	477831
860-80537-2	PZ-03	Total/NA	Water	EPA 7470A	477831
860-80537-3	AP-31	Total/NA	Water	EPA 7470A	477831
860-80537-4	AP-32	Total/NA	Water	EPA 7470A	477831
860-80537-5	AP-33	Total/NA	Water	EPA 7470A	477831
860-80537-6	AP-34	Total/NA	Water	EPA 7470A	477831
860-80537-7	AP-35	Total/NA	Water	EPA 7470A	477831
860-80537-8	AP-36	Total/NA	Water	EPA 7470A	477831
860-80537-9	MW-03	Total/NA	Water	EPA 7470A	477831
860-80537-10	PZ-05	Total/NA	Water	EPA 7470A	477831
860-80537-11	PZ-06	Total/NA	Water	EPA 7470A	477831
860-80537-12	EB-01	Total/NA	Water	EPA 7470A	477831
860-80537-13	DUP-02	Total/NA	Water	EPA 7470A	477831
860-80537-14	FB-02	Total/NA	Water	EPA 7470A	477831
MB 180-477831/1-A	Method Blank	Total/NA	Water	EPA 7470A	477831
LCS 180-477831/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	477831
860-80537-2 MS	PZ-03	Total/NA	Water	EPA 7470A	477831
860-80537-2 MSD	PZ-03	Total/NA	Water	EPA 7470A	477831

General Chemistry

Analysis Batch: 181950

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-80537-14	FB-02	Total/NA	Water	SM 2320B	
MB 860-181950/39	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-181950/40	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-181950/41	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Analysis Batch: 182148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-80537-5	AP-33	Total/NA	Water	SM 2320B	
860-80537-6	AP-34	Total/NA	Water	SM 2320B	
860-80537-11	PZ-06	Total/NA	Water	SM 2320B	
860-80537-12	EB-01	Total/NA	Water	SM 2320B	
860-80537-13	DUP-02	Total/NA	Water	SM 2320B	
MB 860-182148/48	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-182148/49	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-182148/50	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Analysis Batch: 182179

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-80537-1	PZ-02	Total/NA	Water	SM 2320B	
860-80537-2	PZ-03	Total/NA	Water	SM 2320B	
860-80537-3	AP-31	Total/NA	Water	SM 2320B	
860-80537-4	AP-32	Total/NA	Water	SM 2320B	
860-80537-7	AP-35	Total/NA	Water	SM 2320B	
860-80537-8	AP-36	Total/NA	Water	SM 2320B	
860-80537-9	MW-03	Total/NA	Water	SM 2320B	
860-80537-10	PZ-05	Total/NA	Water	SM 2320B	
MB 860-182179/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-182179/4	Lab Control Sample	Total/NA	Water	SM 2320B	

General Chemistry (Continued)

Analysis Batch: 182179 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 860-182179/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Analysis Batch: 182527

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-80537-1	PZ-02	Total/NA	Water	SM 2540C	
860-80537-3	AP-31	Total/NA	Water	SM 2540C	
860-80537-4	AP-32	Total/NA	Water	SM 2540C	
860-80537-5	AP-33	Total/NA	Water	SM 2540C	
MB 860-182527/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-182527/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LLCS 860-182527/3	Lab Control Sample	Total/NA	Water	SM 2540C	
860-80537-1 DU	PZ-02	Total/NA	Water	SM 2540C	

Analysis Batch: 182558

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-182558/4	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-182558/5	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-182558/6	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
860-80537-2 DU	PZ-03	Total/NA	Water	SM 2320B	

Analysis Batch: 182770

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-80537-2	PZ-03	Total/NA	Water	SM 2540C	
860-80537-6	AP-34	Total/NA	Water	SM 2540C	
860-80537-7	AP-35	Total/NA	Water	SM 2540C	
860-80537-8	AP-36	Total/NA	Water	SM 2540C	
860-80537-9	MW-03	Total/NA	Water	SM 2540C	
860-80537-10	PZ-05	Total/NA	Water	SM 2540C	
860-80537-11	PZ-06	Total/NA	Water	SM 2540C	
860-80537-12	EB-01	Total/NA	Water	SM 2540C	
MB 860-182770/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-182770/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LLCS 860-182770/3	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 182771

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-80537-13	DUP-02	Total/NA	Water	SM 2540C	
860-80537-14	FB-02	Total/NA	Water	SM 2540C	
MB 860-182771/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-182771/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LLCS 860-182771/3	Lab Control Sample	Total/NA	Water	SM 2540C	
860-80537-13 DU	DUP-02	Total/NA	Water	SM 2540C	

Rad

Prep Batch: 110725

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-80537-6	AP-34	Total/NA	Water	RAD Prep	
860-80537-7	AP-35	Total/NA	Water	RAD Prep	
860-80537-8	AP-36	Total/NA	Water	RAD Prep	
860-80537-9	MW-03	Total/NA	Water	RAD Prep	

Rad (Continued)

Prep Batch: 110725 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 810-110725/1-A	Method Blank	Total/NA	Water	RAD Prep	
LCS 810-110725/2-A	Lab Control Sample	Total/NA	Water	RAD Prep	

Prep Batch: 110730

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-80537-10	PZ-05	Total/NA	Water	RAD Prep	
860-80537-11	PZ-06	Total/NA	Water	RAD Prep	
860-80537-12	EB-01	Total/NA	Water	RAD Prep	
860-80537-13	DUP-02	Total/NA	Water	RAD Prep	
860-80537-14	FB-02	Total/NA	Water	RAD Prep	
MB 810-110730/1-A	Method Blank	Total/NA	Water	RAD Prep	
LCS 810-110730/2-A	Lab Control Sample	Total/NA	Water	RAD Prep	

Prep Batch: 111010

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-80537-2	PZ-03	Total/NA	Water	RAD Prep	
MB 810-111010/1-A	Method Blank	Total/NA	Water	RAD Prep	
LCS 810-111010/2-A	Lab Control Sample	Total/NA	Water	RAD Prep	
860-80537-2 MS	PZ-03	Total/NA	Water	RAD Prep	
860-80537-2 MSD	PZ-03	Total/NA	Water	RAD Prep	

Prep Batch: 111136

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-80537-1	PZ-02	Total/NA	Water	RAD Prep	
860-80537-3	AP-31	Total/NA	Water	RAD Prep	
860-80537-4	AP-32	Total/NA	Water	RAD Prep	
860-80537-5	AP-33	Total/NA	Water	RAD Prep	
MB 810-111136/1-A	Method Blank	Total/NA	Water	RAD Prep	
LCS 810-111136/2-A	Lab Control Sample	Total/NA	Water	RAD Prep	

Prep Batch: 676473

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-80537-1	PZ-02	Total/NA	Water	PrecSep_0	
860-80537-2	PZ-03	Total/NA	Water	PrecSep_0	
860-80537-3	AP-31	Total/NA	Water	PrecSep_0	
860-80537-4	AP-32	Total/NA	Water	PrecSep_0	
860-80537-5	AP-33	Total/NA	Water	PrecSep_0	
860-80537-6	AP-34	Total/NA	Water	PrecSep_0	
860-80537-7	AP-35	Total/NA	Water	PrecSep_0	
860-80537-8	AP-36	Total/NA	Water	PrecSep_0	
860-80537-9	MW-03	Total/NA	Water	PrecSep_0	
860-80537-10	PZ-05	Total/NA	Water	PrecSep_0	
860-80537-11	PZ-06	Total/NA	Water	PrecSep_0	
860-80537-12	EB-01	Total/NA	Water	PrecSep_0	
860-80537-13	DUP-02	Total/NA	Water	PrecSep_0	
MB 160-676473/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-676473/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
860-80537-2 MS	PZ-03	Total/NA	Water	PrecSep_0	
860-80537-2 MSD	PZ-03	Total/NA	Water	PrecSep_0	

QC Association Summary

Client: GSI Environmental Inc
Project/Site: Ash Pond

Job ID: 860-80537-1

Rad

Prep Batch: 676627

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-80537-14	FB-02	Total/NA	Water	PrecSep_0	
MB 160-676627/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-676627/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Client Sample ID: PZ-02

Lab Sample ID: 860-80537-1

Date Collected: 08/14/24 10:45

Matrix: Water

Date Received: 08/15/24 09:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		10			182530	08/20/24 13:45	HN	EET HOU
Total Recoverable	Prep	3005A			25 mL	25 mL	477235	08/21/24 09:18	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		100			477804	08/27/24 14:35	LWM	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	477831	08/28/24 09:50	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			477977	08/29/24 15:40	RJR	EET PIT
Total/NA	Analysis	SM 2320B		1			182179	08/17/24 21:25	RY	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	182527	08/20/24 12:44	TR	EET HOU
Total/NA	Prep	PrecSep_0			749.40 mL	1.0 g	676473	08/23/24 08:52	MLT	EET SL
Total/NA	Analysis	904.0		1			677738	09/03/24 12:13	SWS	EET SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	111136	08/20/24 16:33	SM	EA SB
Total/NA	Analysis	SM7500 Ra B		1			114350	09/11/24 14:07	SM	EA SB
							Completed:	09/11/24 14:37 [1]		

Client Sample ID: PZ-03

Lab Sample ID: 860-80537-2

Date Collected: 08/14/24 09:15

Matrix: Water

Date Received: 08/15/24 09:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		10			182530	08/20/24 14:10	HN	EET HOU
Total/NA	Analysis	300.0		100			182530	08/20/24 14:22	HN	EET HOU
Total Recoverable	Prep	3005A			25 mL	25 mL	477235	08/21/24 09:18	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		100			477804	08/27/24 14:38	LWM	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	477831	08/28/24 09:50	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			477977	08/29/24 15:41	RJR	EET PIT
Total/NA	Analysis	SM 2320B		1			182179	08/17/24 21:19	RY	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	182770	08/21/24 12:36	TR	EET HOU
Total/NA	Prep	PrecSep_0			998.09 mL	1.0 g	676473	08/23/24 08:52	MLT	EET SL
Total/NA	Analysis	904.0		1			677738	09/03/24 12:13	SWS	EET SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	111010	08/20/24 09:29	SB	EA SB
Total/NA	Analysis	SM7500 Ra B		1			114783	09/13/24 15:22	SM	EA SB
							Completed:	09/13/24 15:52 [1]		

Client Sample ID: AP-31

Lab Sample ID: 860-80537-3

Date Collected: 08/14/24 11:20

Matrix: Water

Date Received: 08/15/24 09:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		10			182530	08/20/24 15:00	HN	EET HOU
Total Recoverable	Prep	3005A			25 mL	25 mL	477235	08/21/24 09:18	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		100			477804	08/27/24 14:46	LWM	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	477831	08/28/24 09:50	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			477977	08/29/24 15:44	RJR	EET PIT
Total/NA	Analysis	SM 2320B		1			182179	08/17/24 22:44	RY	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	182527	08/20/24 12:44	TR	EET HOU

Lab Chronicle

Client: GSI Environmental Inc
Project/Site: Ash Pond

Job ID: 860-80537-1

Client Sample ID: AP-31

Date Collected: 08/14/24 11:20
Date Received: 08/15/24 09:39

Lab Sample ID: 860-80537-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			997.68 mL	1.0 g	676473	08/23/24 08:52	MLT	EET SL
Total/NA	Analysis	904.0		1	1.0 mL	1.0 mL	677741	09/03/24 12:16	SCB	EET SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	111136	08/20/24 16:33	SM	EA SB
Total/NA	Analysis	SM7500 Ra B		1			114928	09/16/24 10:12	SM	EA SB
							Completed:	09/16/24 10:42 [1]		

Client Sample ID: AP-32

Date Collected: 08/14/24 09:25
Date Received: 08/15/24 09:39

Lab Sample ID: 860-80537-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		10			182530	08/20/24 15:24	HN	EET HOU
Total Recoverable	Prep	3005A			25 mL	25 mL	477235	08/21/24 09:18	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		100			477804	08/27/24 14:49	LWM	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	477831	08/28/24 09:50	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			477977	08/29/24 15:45	RJR	EET PIT
Total/NA	Analysis	SM 2320B		1			182179	08/17/24 21:38	RY	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	182527	08/20/24 12:44	TR	EET HOU
Total/NA	Prep	PrecSep_0			998.37 mL	1.0 g	676473	08/23/24 08:52	MLT	EET SL
Total/NA	Analysis	904.0		1	1.0 mL	1.0 mL	677741	09/03/24 12:14	SCB	EET SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	111136	08/20/24 16:33	SM	EA SB
Total/NA	Analysis	SM7500 Ra B		1			114928	09/16/24 10:12	SM	EA SB
							Completed:	09/16/24 10:42 [1]		

Client Sample ID: AP-33

Date Collected: 08/14/24 08:35
Date Received: 08/15/24 09:39

Lab Sample ID: 860-80537-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		100			182530	08/20/24 16:26	HN	EET HOU
Total Recoverable	Prep	3005A			25 mL	25 mL	477235	08/21/24 09:18	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		100			477804	08/27/24 14:52	LWM	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	477831	08/28/24 09:50	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			477977	08/29/24 15:46	RJR	EET PIT
Total/NA	Analysis	SM 2320B		1			182148	08/16/24 18:36	RY	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	182527	08/20/24 12:44	TR	EET HOU
Total/NA	Prep	PrecSep_0			1000.59 mL	1.0 g	676473	08/23/24 08:52	MLT	EET SL
Total/NA	Analysis	904.0		1	1.0 mL	1.0 mL	677741	09/03/24 12:15	SCB	EET SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	111136	08/20/24 16:33	SM	EA SB
Total/NA	Analysis	SM7500 Ra B		1			114928	09/16/24 10:12	SM	EA SB
							Completed:	09/16/24 10:42 [1]		

Client Sample ID: AP-34

Lab Sample ID: 860-80537-6

Date Collected: 08/14/24 09:15

Matrix: Water

Date Received: 08/15/24 09:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		10			182530	08/20/24 17:29	HN	EET HOU
Total Recoverable	Prep	3005A			25 mL	25 mL	477235	08/21/24 09:18	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		100			477804	08/27/24 14:55	LWM	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	477831	08/28/24 09:50	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			477977	08/29/24 15:47	RJR	EET PIT
Total/NA	Analysis	SM 2320B		1			182148	08/16/24 18:41	RY	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	182770	08/21/24 12:36	TR	EET HOU
Total/NA	Prep	PrecSep_0			1000.14 mL	1.0 g	676473	08/23/24 08:52	MLT	EET SL
Total/NA	Analysis	904.0		1	1.0 mL	1.0 mL	677741	09/03/24 12:15	SCB	EET SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	110725	08/19/24 10:42	SM	EA SB
Total/NA	Analysis	SM7500 Ra B		1			114933	09/16/24 11:18	SM	EA SB
							Completed:	09/16/24 11:48 [1]		

Client Sample ID: AP-35

Lab Sample ID: 860-80537-7

Date Collected: 08/14/24 11:30

Matrix: Water

Date Received: 08/15/24 09:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		10			182530	08/20/24 17:53	HN	EET HOU
Total Recoverable	Prep	3005A			25 mL	25 mL	477235	08/21/24 09:18	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		100			477804	08/27/24 14:57	LWM	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	477831	08/28/24 09:50	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			477977	08/29/24 15:51	RJR	EET PIT
Total/NA	Analysis	SM 2320B		1			182179	08/17/24 21:49	RY	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	182770	08/21/24 12:36	TR	EET HOU
Total/NA	Prep	PrecSep_0			999.24 mL	1.0 g	676473	08/23/24 08:52	MLT	EET SL
Total/NA	Analysis	904.0		1	1.0 mL	1.0 mL	677741	09/03/24 12:15	SCB	EET SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	110725	08/19/24 10:42	SM	EA SB
Total/NA	Analysis	SM7500 Ra B		1			114933	09/16/24 11:18	SM	EA SB
							Completed:	09/16/24 11:48 [1]		

Client Sample ID: AP-36

Lab Sample ID: 860-80537-8

Date Collected: 08/14/24 10:45

Matrix: Water

Date Received: 08/15/24 09:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		10			182530	08/20/24 18:18	HN	EET HOU
Total Recoverable	Prep	3005A			25 mL	25 mL	477235	08/21/24 09:18	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		100			477804	08/27/24 15:00	LWM	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	477831	08/28/24 09:50	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			477977	08/29/24 15:53	RJR	EET PIT
Total/NA	Analysis	SM 2320B		1			182179	08/17/24 21:44	RY	EET HOU
Total/NA	Analysis	SM 2540C		1	25 mL	200 mL	182770	08/21/24 12:36	TR	EET HOU

Lab Chronicle

Client: GSI Environmental Inc
Project/Site: Ash Pond

Job ID: 860-80537-1

Client Sample ID: AP-36

Date Collected: 08/14/24 10:45
Date Received: 08/15/24 09:39

Lab Sample ID: 860-80537-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			1002.81 mL	1.0 g	676473	08/23/24 08:52	MLT	EET SL
Total/NA	Analysis	904.0		1	1.0 mL	1.0 mL	677741	09/03/24 12:15	SCB	EET SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	110725	08/19/24 10:42	SM	EA SB
Total/NA	Analysis	SM7500 Ra B		1			114933	09/16/24 11:18	SM	EA SB
							Completed:	09/16/24 11:48 [1]		

Client Sample ID: MW-03

Date Collected: 08/14/24 10:20
Date Received: 08/15/24 09:39

Lab Sample ID: 860-80537-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		10			182530	08/20/24 18:43	HN	EET HOU
Total Recoverable	Prep	3005A			25 mL	25 mL	477235	08/21/24 09:18	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		100			477804	08/27/24 15:09	LWM	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	477831	08/28/24 09:50	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			477977	08/29/24 15:54	RJR	EET PIT
Total/NA	Analysis	SM 2320B		1			182179	08/17/24 21:54	RY	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	182770	08/21/24 12:36	TR	EET HOU
Total/NA	Prep	PrecSep_0			1002.19 mL	1.0 g	676473	08/23/24 08:52	MLT	EET SL
Total/NA	Analysis	904.0		1	1.0 mL	1.0 mL	677741	09/03/24 12:15	SCB	EET SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	110725	08/19/24 10:42	SM	EA SB
Total/NA	Analysis	SM7500 Ra B		1			114933	09/16/24 11:18	SM	EA SB
							Completed:	09/16/24 11:48 [1]		

Client Sample ID: PZ-05

Date Collected: 08/14/24 10:30
Date Received: 08/15/24 09:39

Lab Sample ID: 860-80537-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		10			182530	08/20/24 19:33	HN	EET HOU
Total Recoverable	Prep	3005A			25 mL	25 mL	477235	08/21/24 09:18	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		100			477804	08/27/24 15:11	LWM	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	477831	08/28/24 09:50	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			477977	08/29/24 15:55	RJR	EET PIT
Total/NA	Analysis	SM 2320B		1			182179	08/17/24 21:13	RY	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	182770	08/21/24 12:36	TR	EET HOU
Total/NA	Prep	PrecSep_0			995.04 mL	1.0 g	676473	08/23/24 08:52	MLT	EET SL
Total/NA	Analysis	904.0		1	1.0 mL	1.0 mL	677928	09/03/24 12:15	SCB	EET SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	110730	08/19/24 10:55	SM	EA SB
Total/NA	Analysis	SM7500 Ra B		1			113892	09/09/24 09:54	SM	EA SB
							Completed:	09/09/24 10:24 [1]		

Client Sample ID: PZ-06

Lab Sample ID: 860-80537-11

Date Collected: 08/14/24 09:45

Matrix: Water

Date Received: 08/15/24 09:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		10			182530	08/20/24 19:58	HN	EET HOU
Total Recoverable	Prep	3005A			25 mL	25 mL	477235	08/21/24 09:18	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		100			477804	08/27/24 15:14	LWM	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	477831	08/28/24 09:50	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			477977	08/29/24 15:56	RJR	EET PIT
Total/NA	Analysis	SM 2320B		1			182148	08/16/24 18:08	RY	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	182770	08/21/24 12:36	TR	EET HOU
Total/NA	Prep	PrecSep_0			999.94 mL	1.0 g	676473	08/23/24 08:52	MLT	EET SL
Total/NA	Analysis	904.0		1	1.0 mL	1.0 mL	677928	09/03/24 12:15	SCB	EET SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	110730	08/19/24 10:55	SM	EA SB
Total/NA	Analysis	SM7500 Ra B		1			114780	09/13/24 15:25	SM	EA SB
							Completed:	09/13/24 15:55 [1]		

Client Sample ID: EB-01

Lab Sample ID: 860-80537-12

Date Collected: 08/14/24 10:25

Matrix: Water

Date Received: 08/15/24 09:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		10			182530	08/20/24 20:22	HN	EET HOU
Total Recoverable	Prep	3005A			25 mL	25 mL	477235	08/21/24 09:18	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			477804	08/27/24 14:01	LWM	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	477831	08/28/24 09:50	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			477977	08/29/24 15:57	RJR	EET PIT
Total/NA	Analysis	SM 2320B		1			182148	08/16/24 18:15	RY	EET HOU
Total/NA	Analysis	SM 2540C		1	200 mL	200 mL	182770	08/21/24 12:36	TR	EET HOU
Total/NA	Prep	PrecSep_0			997.36 mL	1.0 g	676473	08/23/24 08:52	MLT	EET SL
Total/NA	Analysis	904.0		1	1.0 mL	1.0 mL	677928	09/03/24 12:15	SCB	EET SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	110730	08/19/24 10:55	SM	EA SB
Total/NA	Analysis	SM7500 Ra B		1			113892	09/09/24 09:54	SM	EA SB
							Completed:	09/09/24 10:24 [1]		

Client Sample ID: DUP-02

Lab Sample ID: 860-80537-13

Date Collected: 08/14/24 12:00

Matrix: Water

Date Received: 08/15/24 09:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		10			182530	08/20/24 20:47	HN	EET HOU
Total Recoverable	Prep	3005A			25 mL	25 mL	477235	08/21/24 09:18	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		100			477804	08/27/24 15:17	LWM	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	477831	08/28/24 09:50	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			477977	08/29/24 15:58	RJR	EET PIT
Total/NA	Analysis	SM 2320B		1			182148	08/16/24 18:01	RY	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	182771	08/21/24 12:38	TR	EET HOU

Lab Chronicle

Client: GSI Environmental Inc
Project/Site: Ash Pond

Job ID: 860-80537-1

Client Sample ID: DUP-02

Lab Sample ID: 860-80537-13

Date Collected: 08/14/24 12:00

Matrix: Water

Date Received: 08/15/24 09:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			1000.54 mL	1.0 g	676473	08/23/24 08:52	MLT	EET SL
Total/NA	Analysis	904.0		1	1.0 mL	1.0 mL	677928	09/03/24 12:15	SCB	EET SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	110730	08/19/24 10:55	SM	EA SB
Total/NA	Analysis	SM7500 Ra B		1			114780	09/13/24 15:25	SM	EA SB
							Completed:	09/13/24 15:55 [1]		

Client Sample ID: FB-02

Lab Sample ID: 860-80537-14

Date Collected: 08/14/24 11:20

Matrix: Water

Date Received: 08/15/24 09:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		10			182530	08/20/24 21:12	HN	EET HOU
Total Recoverable	Prep	3005A			25 mL	25 mL	477235	08/21/24 09:18	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			477804	08/27/24 14:04	LWM	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	477831	08/28/24 09:50	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			477977	08/29/24 15:59	RJR	EET PIT
Total/NA	Analysis	SM 2320B		1			181950	08/16/24 01:17	MR	EET HOU
Total/NA	Analysis	SM 2540C		1	200 mL	200 mL	182771	08/21/24 12:38	TR	EET HOU
Total/NA	Prep	PrecSep_0			998.51 mL	1.0 g	676627	08/26/24 08:27	MLT	EET SL
Total/NA	Analysis	904.0		1			678288	09/05/24 13:08	FLC	EET SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	110730	08/19/24 10:55	SM	EA SB
Total/NA	Analysis	SM7500 Ra B		1			113892	09/09/24 09:54	SM	EA SB
							Completed:	09/09/24 10:24 [1]		

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EA SB = Eurofins Eaton Analytical South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

EET PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Accreditation/Certification Summary

Client: GSI Environmental Inc
Project/Site: Ash Pond

Job ID: 860-80537-1

Laboratory: Eurofins Houston

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
SM 2320B		Water	Bicarbonate Alkalinity as CaCO3
SM 2320B		Water	Carbonate Alkalinity as CaCO3
SM 2320B		Water	Hydroxide Alkalinity

Laboratory: Eurofins Eaton Analytical South Bend

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

Authority	Program	Identification Number	Expiration Date
A2LA	ISO/IEC 17025	5794.01	07-31-26
Alabama	State	40700	06-30-25
Alaska	State	IN00035	06-30-25
Arizona	State	AZ0432	07-26-25
Arkansas (DW)	State	EPA IN00035	06-30-25
California	State	2920	06-30-25
Colorado	State	IN00035	02-28-25
Connecticut	State	PH-0132	03-31-26
Delaware (DW)	State	IN00035	06-30-25
Florida	NELAP	E87775	06-30-25
Georgia (DW)	State	929	06-30-25
Guam	State	23-011R	07-15-25
Hawaii	State	IN035	06-30-25
Idaho (DW)	State	IN00035	12-31-24
IL Dept. of Public Health (Micro)	State	17767	06-30-25
Illinois	NELAP	200001	09-19-24
Indiana	State	C-71-01	12-31-25
Indiana (Micro)	State	M-76-07	12-31-25
Iowa	State	IA Lab #098	11-01-25
Kansas	NELAP	E-10233	10-31-24
Kentucky (DW)	State	KY90056	12-31-24
Louisiana (DW)	State	LA014	12-31-24
Maine	State	IN00035	05-01-25
Maryland	State	209	06-30-25
Massachusetts	State	M-IN035	06-30-25
MI - RadChem Recognition	State	9926	03-22-25
Michigan	State	9926	03-22-25
Minnesota	NELAP	1989807	12-31-24
Mississippi	State	IN00035	06-30-25
Missouri	State	880	09-30-27
Montana (DW)	State	CERT0026	01-01-25
Nebraska	State	NE-OS-05-04	06-30-25
Nevada	State	IN000352024-01	07-31-25
New Hampshire	NELAP	2124	11-05-24
New Jersey	NELAP	IN598	06-30-25
New Mexico	State	IN00035	06-30-25
New York	NELAP	11398	04-01-25
North Carolina (DW)	State	18700	07-31-25

Accreditation/Certification Summary

Client: GSI Environmental Inc
Project/Site: Ash Pond

Job ID: 860-80537-1

Laboratory: Eurofins Eaton Analytical South Bend (Continued)

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

Authority	Program	Identification Number	Expiration Date
North Dakota	State	R-035	06-30-24 *
Northern Mariana Islands (DW)	State	IN00035	06-30-25
Ohio	State	87775	06-30-25
Oklahoma	NELAP	D9508	12-31-24
Oregon	NELAP	4156	09-16-24
Pennsylvania	NELAP	68-00466	04-30-25
Puerto Rico	State	IN00035	04-01-25
Rhode Island	State	LAO00343	12-30-24
South Carolina	State	95005001	06-30-24 *
South Dakota (DW)	State	IN00035	06-30-25
Tennessee	State	TN02973	06-30-25
Texas	NELAP	T104704187-22-16	12-31-24
Texas	TCEQ Water Supply	TX207	06-30-25
USEPA UCMR 5	US Federal Programs	IN00035	12-31-25
Utah	NELAP	IN00035	07-31-25
Vermont	State	VT-8775	11-15-24
Virginia	NELAP	460275	03-14-25
Washington	State	C837	01-01-25
West Virginia (DW)	State	9927 C	01-31-25
Wisconsin (Micro)	State	10121	12-31-24
Wyoming	State	8TMS-L	06-30-25

Laboratory: Eurofins Pittsburgh

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

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	06-28-25
California	State	2891	04-30-24 *
Connecticut	State	PH-0688	09-30-24
Florida	NELAP	E871008	06-30-25
Georgia	State	PA 02-00416	04-30-25
Illinois	NELAP	004375	07-31-25
Kansas	NELAP	E-10350	01-31-25
Kentucky (UST)	State	162013	04-30-25
Kentucky (WW)	State	KY98043	12-31-24
Louisiana	NELAP	04041	06-30-22 *
Louisiana (All)	NELAP	04041	06-30-25
Maine	State	PA00164	03-06-26
Minnesota	NELAP	042-999-482	12-31-24
New Hampshire	NELAP	2030	04-04-25
New Jersey	NELAP	PA005	06-30-25
New York	NELAP	11182	04-01-25
North Carolina (WW/SW)	State	434	12-31-24
North Dakota	State	R-227	04-30-24 *
Oregon	NELAP	PA-2151	02-06-25
Pennsylvania	NELAP	02-00416	04-30-25
Rhode Island	State	LAO00362	01-01-25
South Carolina	State	89014	04-30-25
Texas	NELAP	T104704528	03-31-25
US Fish & Wildlife	US Federal Programs	058448	04-30-25

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification Summary

Client: GSI Environmental Inc
Project/Site: Ash Pond

Job ID: 860-80537-1

Laboratory: Eurofins Pittsburgh (Continued)

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

Authority	Program	Identification Number	Expiration Date
USDA	US Federal Programs	P330-16-00211	04-11-26
Utah	NELAP	PA001462024-14	05-31-25
Virginia	NELAP	10043	07-14-24 *
West Virginia DEP	State	142	01-31-25
Wisconsin	State	998027800	08-31-25

Laboratory: Eurofins St. Louis

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704193	07-31-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
904.0	PrecSep_0	Water	Radium-228

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: GSI Environmental Inc
Project/Site: Ash Pond

Job ID: 860-80537-1

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	EPA	EET HOU
EPA 6020A	Metals (ICP/MS)	SW846	EET PIT
EPA 7470A	Mercury (CVAA)	SW846	EET PIT
SM 2320B	Alkalinity	SM	EET HOU
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET HOU
904.0	Radium-228 (GFPC)	EPA	EET SL
SM7500 Ra B	Radium-226	SM	EA SB
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET PIT
7470A	Preparation, Mercury	SW846	EET PIT
PrecSep_0	Preparation, Precipitate Separation	None	EET SL
RAD Prep	Preparation, Radiologicals	None	EA SB

Protocol References:

EPA = US Environmental Protection Agency

None = None

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:

EA SB = Eurofins Eaton Analytical South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

EET PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Sample Summary

Client: GSI Environmental Inc
Project/Site: Ash Pond

Job ID: 860-80537-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-80537-1	PZ-02	Water	08/14/24 10:45	08/15/24 09:39
860-80537-2	PZ-03	Water	08/14/24 09:15	08/15/24 09:39
860-80537-3	AP-31	Water	08/14/24 11:20	08/15/24 09:39
860-80537-4	AP-32	Water	08/14/24 09:25	08/15/24 09:39
860-80537-5	AP-33	Water	08/14/24 08:35	08/15/24 09:39
860-80537-6	AP-34	Water	08/14/24 09:15	08/15/24 09:39
860-80537-7	AP-35	Water	08/14/24 11:30	08/15/24 09:39
860-80537-8	AP-36	Water	08/14/24 10:45	08/15/24 09:39
860-80537-9	MW-03	Water	08/14/24 10:20	08/15/24 09:39
860-80537-10	PZ-05	Water	08/14/24 10:30	08/15/24 09:39
860-80537-11	PZ-06	Water	08/14/24 09:45	08/15/24 09:39
860-80537-12	EB-01	Water	08/14/24 10:25	08/15/24 09:39
860-80537-13	DUP-02	Water	08/14/24 12:00	08/15/24 09:39
860-80537-14	FB-02	Water	08/14/24 11:20	08/15/24 09:39

Eurofins Xenco, Stafford
4147 Greenbriar Dr
Stafford, TX 77477
Phone (281) 240-4200

Chain of Custody Record

eurofins | Environment Testing America

9/16/2024

Client Information	Sampler: Mason Bond + HMT Team	Lab PM: Kudchadkar Sachin G	Carrier Tracking No(s):	COC No: 860-3614-1220.1
Client Contact: Mike Schofield	Phone: 281-725-4825	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: TX	Page: Page 1 of 2
Company: GSI Environmental, Inc	PWSID:			Job #:
Address: 9600 Great Hills Trail Suite 350E	Due Date Requested:			
City: Austin	TAT Requested (days):			
State, Zip: TX, 78759	Compliance Project: Δ Yes Δ No			
Phone: 512-346-4474(Tel) 512-346-4476(Fax)	PO #:			
Email: mlschofield@gsi-net.com	WO #:			
Project Name: San Miguel Electrical Co-Op GW	Project #: 86001746			
Site: Ash Pond	SSOW#:			

Analysis Requested

Preservation Codes:

A	HCL	M	Hexane
B	NaOH	N	None
C	Zn Acetate	O	AsNaO2
D	Nitric Acid	P	Na2O4S
E	NaHSO4	Q	Na2SO3
F	MeOH	R	Na2S2O3
G	Amchlor	S	H2SO4
H	Ascorbic Acid	T	TSP Dodecahydrate
I	Ice	U	Acetone
J	DI Water	V	MCAA
K	EDTA	W	pH 4-5
L	EDA	Z	other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2320B, Alkalinity N	6020A :7470- B, Ca,Sb, As,Ba, Be, Cd, Cr Co, Pb, Li, Mo, Se, Tl;Hg- Eurofins Pittsburg (+ Na, Mg, K) D	2540C_TDS N	300- Cl, F, SO4 N	901 1_Ra- Rad 228 Eurofins St Louis D	SM7500_Ra_B Rad 226- South Bond IN D	Total Number of containers	Special Instructions/Note:
			Preservation Code:											
PZ-02	8-14-24	1045	G	Water			X	X	X	X	X	X		
PZ-03		915		Water			X	X	X	X	X	X		
AP-31		1120		Water			X	X	X	X	X	X		
AP-32		925		Water			X	X	X	X	X	X		
AP-33		835		Water			X	X	X	X	X	X		
AP-34		915		Water			X	X	X	X	X	X		
AP-35		1130		Water			X	X	X	X	X	X		
AP-36		1045		Water			X	X	X	X	X	X		
MW-03		1020		Water			X	X	X	X	X	X		
PZ-05		1030		Water			X	X	X	X	X	X		
PZ-06		945		Water			X	X	X	X	X	X		

860-80537 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III IV Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: Cody Springer	Date/Time: 8-15-24 1939	Company: HMT	Received by:	Date/Time: 8/15/24 9:39	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks: 4.0 3.6 8

Ver- 01/16/2019

73 35 +0.2 - 5

Eurofins Xenco, Stafford
4147 Greenbriar Dr
Stafford, TX 77477
Phone (281) 240-4200

Chain of Custody Record

eurofins | Environment Testing America

9/16/2024

Client Information	Sampler: Mason Bond + HMT Team	Lab PM: Kudchadkar Sachin G	Carrier Tracking No(s):	COC No: 860-3614-1220.1
Client Contact: Mike Schofield	Phone: 281-725-4825	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: TX	Page: Page 2 of 2
Company: GSI Environmental, Inc	PWSID:			Job #:
Address: 9600 Great Hills Trail Suite 350E	Due Date Requested:			
City: Austin	TAT Requested (days):			
State, Zip: TX, 78759	Compliance Project: Δ Yes Δ No			
Phone: 512-346-4474(Tel) 512-346-4476(Fax)	PO #:			
Email: mlschofield@gsi-net.com	WO #:			
Project Name: San Miguel Electrical Co-Op GW	Project #: 86001746			
Site: Ash Pond	SSOW#:			

Analysis Requested

Preservation Codes:

A HCL M Hexane
B NaOH N None
C Zn Acetate O AsNaO2
D Nitric Acid P Na2O4S
E NaHSO4 Q Na2SO3
F MeOH R Na2S2O3
G Amchlor S H2SO4
H Ascorbic Acid T TSP Dodecahydrate
I Ice U Acetone
J DI Water V MCAA
K EDTA W pH 4-5
L EDA Z other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2320B, Alkalinity	6020A -7470- B, Ca,Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl;Hg- Eurofins Pittsburg (+ Na, Mg, K)	2540C_TDS	300- Cl, F, SO4	901.1_Ra- Rad 228 Eurofins St Louis	SM7500_Ra_B Rad 226- South Bond IN								Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	D	N	N	D	D									
PZ-03 (MS)	8-14-24	915	G	Water		Y	X	X	X	X	X	X									
PZ-03 (MSD)		915		Water		Y	X	X	X	X	X	X									
EB-01		1025		Water			X	X	X	X	X	X									
Dup-02		1200		Water			X	X	X	X	X	X									
FB-02		1120		Water			X	X	X	X	X	X									
				Water																	
				Water																	
				Water																	
				Water																	
				Water																	
				Water																	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: Cody Springer	Date/Time: 8-15-24/1439	Company: HMT	Received by: Lindsey Date/Time: 8/15/24 9.39 Company:
Relinquished by:	Date/Time:	Company	Received by: Date/Time: Company
Relinquished by:	Date/Time:	Company	Received by: Date/Time: Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No. | Cooler Temperature(s) °C and Other Remarks:

Ver 01/16/2019

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-147091.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@et.eurofinsus.com	State of Origin: Texas	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 860-80537-1
Address: 13715 Rider Trail North,	Due Date Requested: 9/13/2024			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: San Miguel Electrical Co-Op 2H23 GW	Project #: 86001746			
Site:	SSOW#:			

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)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	904.0/PrecSep_0 Standard Target List	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
PZ-02 (860-80537-1)	8/14/24	10:45 Central		Water			X	1	
PZ-03 (860-80537-2)	8/14/24	09:15 Central		Water			X	1	
PZ-03 (860-80537-2MS)	8/14/24	09:15 Central	MS	Water			X	1	
PZ-03 (860-80537-2MSD)	8/14/24	09:15 Central	MSD	Water			X	1	
AP-31 (860-80537-3)	8/14/24	11:20 Central		Water			X	1	
AP-32 (860-80537-4)	8/14/24	09:25 Central		Water			X	1	
AP-33 (860-80537-5)	8/14/24	08:35 Central		Water			X	1	
AP-34 (860-80537-6)	8/14/24	09:15 Central		Water			X	1	
AP-35 (860-80537-7)	8/14/24	11:30 Central		Water			X	1	

Preservation Codes:
Other:

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:			
Relinquished by:	Date/Time: 8/15/24	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: M. Pinette	Date/Time: AUG 16 2024 810	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 04/02/2024

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-147091.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@et.eurofinsus.com	State of Origin: Texas	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 860-80537-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 9/13/2024			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: San Miguel Electrical Co-Op 2H23 GW	Project #: 86001746			
Site:	SSOW#:			

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)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	904.0/PrecSep_0 Standard Target List	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
AP-36 (860-80537-8)	8/14/24	10:45 Central		Water			X	1	
MW-03 (860-80537-9)	8/14/24	10:20 Central		Water			X	1	
PZ-05 (860-80537-10)	8/14/24	10:30 Central		Water			X	1	
PZ-06 (860-80537-11)	8/14/24	09:45 Central		Water			X	1	
EB-01 (860-80537-12)	8/14/24	10:25 Central		Water			X	1	
DUP-02 (860-80537-13)	8/14/24	12:00 Central		Water			X	1	
FB-02 (860-80537-14)	8/14/24	11:20 Central		Water			X	1	

Preservation Codes: -

Other:

Analysis Requested

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:			
Relinquished by:	Date/Time: 8/15/24	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: M. Pinette	Date/Time: AUG 16 2024 910	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 04/02/2024

9/16/2024

Chain of Custody Record

eurofins | Environment Testing

4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Client Information (Sub Contract Lab)

Client Contact: Shipping/Receiving
Company: Eurofins Environment Testing Northeast L
Address: 301 Alpha Drive, RIDC Park,
City: Pittsburgh
State, Zip: PA, 15238
Phone: 412-963-7058(Tel) 412-963-2468(Fax)
Email:

Project Name: San Miguel Electrical Co-Op 2H23 GW
Site:

Sampler:
Phone:

Due Date Requested: 9/10/2024
TAT Requested (days):
PO #:
WO #:
Project #: 86001746
SSOW#:

Lab PM: Kudchadkar, Sachin G
E-Mail: Sachin.Kudchadkar@et.eurofinsus.com

Carrier Tracking No(s):
State of Origin: Texas

Accreditations Required (See note): NELAP - Texas

COC No: 860-147090.1
Page: Page 1 of 2
Job #: 860-80537-1

Preservation Codes:
Other:

Analysis Requested

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)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020A/3005A (MOD) Custom List	7470A/7470A_Prep	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
PZ-02 (860-80537-1)	8/14/24	10:45 Central		Water			X	X	1	Please analyze at the lowest possible dilution
PZ-03 (860-80537-2)	8/14/24	09:15 Central		Water			X	X	1	Please analyze at the lowest possible dilution
PZ-03 (860-80537-2MS)	8/14/24	09:15 Central	MS	Water			X	X	1	Please analyze at the lowest possible dilution
PZ-03 (860-80537-2MSD)	8/14/24	09:15 Central	MSD	Water			X	X	1	Please analyze at the lowest possible dilution
AP-31 (860-80537-3)	8/14/24	11:20 Central		Water			X	X	1	Please analyze at the lowest possible dilution
AP-32 (860-80537-4)	8/14/24	09:25 Central		Water			X	X	1	Please analyze at the lowest possible dilution
AP-33 (860-80537-5)	8/14/24	08:35 Central		Water			X	X	1	Please analyze at the lowest possible dilution
AP-34 (860-80537-6)	8/14/24	09:15 Central		Water			X	X	1	Please analyze at the lowest possible dilution
AP-35 (860-80537-7)	8/14/24	11:30 Central		Water			X	X	1	Please analyze at the lowest possible dilution

860-80537 Chain of Custody

Note Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification
Unconfirmed

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Deliverable Requested. I, II, III, IV, Other (specify) Primary Deliverable Rank: 2

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: Linda	Date/Time: 8/15/24	Company	Received by:	Date/Time: 08/17/24 1020	Company: EPHK
Relinquished by:	Date/Time:	Company	Received by:	Date/Time	Company
Relinquished by:	Date/Time	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks:

Ver: 04/02/2024

Page 85 of 750
9/16/2024

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-147090.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@et.eurofinsus.com	State of Origin: Texas	Page: Page 2 of 2
Company: Eurofins Environment Testing Northeast L		Accreditations Required (See note): NELAP - Texas		Job #: 860-80537-1
Address: 301 Alpha Drive, RIDC Park,	Due Date Requested: 9/10/2024			Preservation Codes:
City: Pittsburgh	TAT Requested (days):			
State, Zip: PA, 15238				
Phone: 412-963-7058(Tel) 412-963-2468(Fax)	PO #:			
Email:	WO #:			
Project Name: San Miguel Electrical Co-Op 2H23 GW	Project #: 86001746			
Site:	SSOW#:			Other:

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)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020A/3005A (MOD) Custom List	7470A/7470A_Prep	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
AP-36 (860-80537-8)	8/14/24	10:45 Central		Water			X	X	1	Please analyze at the lowest possible dilution
MW-03 (860-80537-9)	8/14/24	10:20 Central		Water			X	X	1	Please analyze at the lowest possible dilution
PZ-05 (860-80537-10)	8/14/24	10:30 Central		Water			X	X	1	Please analyze at the lowest possible dilution
PZ-06 (860-80537-11)	8/14/24	09:45 Central		Water			X	X	1	Please analyze at the lowest possible dilution
EB-01 (860-80537-12)	8/14/24	10:25 Central		Water			X	X	1	Please analyze at the lowest possible dilution
DUP-02 (860-80537-13)	8/14/24	12:00 Central		Water			X	X	1	Please analyze at the lowest possible dilution
FB-02 (860-80537-14)	8/14/24	11:20 Central		Water			X	X	1	Please analyze at the lowest possible dilution

Note Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification: Unconfirmed	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	8/15/24			08/17/24 1020	EPHAWK
Relinquished by:	Date/Time	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 04/02/2024

ORIGIN ID:SGRA (281) 240-4200
ADMINISTRATIVE OFFICES
XENCO HOUSTON
4145 GREENBRIAR DR

STAFFORD, TX 77477
UNITED STATES US

SHIP DATE: 15AUG24
ACTWGT: 10.00 LB
CAD: 110189707/INET4730

BILL SENDER

TO **SHIPPING AND RECEIVING**
EUROFINS TEST AMERICA, PITTSBURGH
301 ALPHA DRIVE RIDC PARK

PITTSBURGH PA 15238
(412) 963-7058
INV
PO

REF
DEPT

583J6/A12D/9AE3

FedEx Express

J24302407130TUU

Uncorrected temp 15.6 —0.4
Thermometer ID
CF —0.4 Initials
PT-WI-SR-001 effective 11/8/18

FRI - 16 AUG 10:30A
PRIORITY OVERNIGHT

TRK# 0201 **7779 9368 1745**

NX AGCA

15238
PIT
PA-US

After printing this label:
1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.
Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is $1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s)	COC No: 860-147090.1
Client Contact: Shipping/Receiving	Phone	E-Mail: Sachin.Kudchadkar@et.eurofinsus.com	State of Origin: Texas	Page: Page 1 of 2
Company: Eurofins Environment Testing Northeast L		Accreditations Required (See note): NELAP - Texas		Job #: 860-80537-1
Address: 301 Alpha Drive, RIDC Park,	Due Date Requested: 9/10/2024			Preservation Codes:
City: Pittsburgh	TAT Requested (days):			
State, Zip: PA, 15238				
Phone: 412-963-7058(Tel) 412-963-2468(Fax)	PO #:			
Email	WO #:			
Project Name: San Miguel Electrical Co-Op 2H23 GW	Project #: 86001746			
Site	SSOW#:			Other:

Analysis Requested

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)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020A/3005A (MOD) Custom List	7470A/7470A_Prep	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
P-02 (860-80537-1)	8/14/24	10:45 Central		Water			X	X	1	Please analyze at the lowest possible dilution
P-03 (860-80537-2)	8/14/24	09:15 Central		Water			X	X	1	Please analyze at the lowest possible dilution
P-03 (860-80537-2MS)	8/14/24	09:15 Central	MS	Water			X	X	1	Please analyze at the lowest possible dilution
P-03 (860-80537-2MSD)	8/14/24	09:15 Central	MSD	Water			X	X	1	Please analyze at the lowest possible dilution
AP-31 (860-80537-3)	8/14/24	11:20 Central		Water			X	X	1	Please analyze at the lowest possible dilution
AP-32 (860-80537-4)	8/14/24	09:25 Central		Water			X	X	1	Please analyze at the lowest possible dilution
AP-33 (860-80537-5)	8/14/24	08:35 Central		Water			X	X	1	Please analyze at the lowest possible dilution
AP-34 (860-80537-6)	8/14/24	09:15 Central		Water			X	X	1	Please analyze at the lowest possible dilution
AP-35 (860-80537-7)	8/14/24	11:30 Central		Water			X	X	1	Please analyze at the lowest possible dilution

860-80537 Chain of Custody

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by.	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	Relinquished by	Date/Time: 8/15/24	Company	Received by	Date/Time: 08/17/24 1020	Company: EPSHK
	Relinquished by	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 04/02/2024

Page 68 of 75

9/16/2024

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone. 281-240-4200

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler	Lab PM. Kudchadkar, Sachin G	Carrier Tracking No(s)	COC No 860-147090.2
Client Contact: Shipping/Receiving	Phone.	E-Mail Sachin.Kudchadkar@et.eurofinsus.com	State of Origin. Texas	Page: Page 2 of 2
Company: Eurofins Environment Testing Northeast L		Accreditations Required (See note) NELAP - Texas		Job #: 860-80537-1
Address: 301 Alpha Drive, RIDC Park,	Due Date Requested: 9/10/2024			Preservation Codes: -
City: Pittsburgh	TAT Requested (days):			
State, Zip: PA, 15238				
Phone: 412-963-7058(Tel) 412-963-2468(Fax)	PO #:			
Email	WO #:			
Project Name: San Miguel Electrical Co-Op 2H23 GW	Project #: 86001746			
Site	SSOW#:			Other:

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)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020A/3005A (MOD) Custom List	7470A/7470A_Prep	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
AP-36 (860-80537-8)	8/14/24	10:45 Central		Water			X	X	1	Please analyze at the lowest possible dilution
MW-03 (860-80537-9)	8/14/24	10:20 Central		Water			X	X	1	Please analyze at the lowest possible dilution
PZ-05 (860-80537-10)	8/14/24	10:30 Central		Water			X	X	1	Please analyze at the lowest possible dilution
PZ-06 (860-80537-11)	8/14/24	09.45 Central		Water			X	X	1	Please analyze at the lowest possible dilution
EB-01 (860-80537-12)	8/14/24	10:25 Central		Water			X	X	1	Please analyze at the lowest possible dilution
DUP-02 (860-80537-13)	8/14/24	12:00 Central		Water			X	X	1	Please analyze at the lowest possible dilution
FB-02 (860-80537-14)	8/14/24	11:20 Central		Water			X	X	1	Please analyze at the lowest possible dilution

Note Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification: Unconfirmed	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by.	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time	Company
1		8/15/24			08/17/24 1020	EPHAM
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time	Company	Received by:	Date/Time.	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No..	Cooler Temperature(s) °C and Other Remarks.

Ver: 04/02/2024

9/16/2024

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-147088.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@et.eurofinsus.com	State of Origin: Texas	Page: Page 1 of 2
Company: Eurofins Eaton Analytical		Accreditations Required (See note): NELAP - Texas		Job #: 860-80537-1
Address: 110 S Hill Street,	Due Date Requested: 9/13/2024			Preservation Codes:
City: South Bend	TAT Requested (days):			
State, Zip: IN, 46617				
Phone: 574-233-4777(Tel) 574-233-8207(Fax)	PO #:			
Email:	WO #:			
Project Name: San Miguel Electrical Co-Op 2H23 GW	Project #: 86001746			
Site:	SSOW#:			Other:

Analysis Requested

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)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SM7500_Ra_B/Rad_Prep Radium 226																					Special Instructions/Note:
			Preservation Code:		X	X																						
PZ-02 (860-80537-1)	8/14/24	10:45 Central		Water			X																					2
PZ-03 (860-80537-2)	8/14/24	09:15 Central		Water			X																					2
PZ-03 (860-80537-2MS)	8/14/24	09:15 Central	MS	Water			X																					2
PZ-03 (860-80537-2MSD)	8/14/24	09:15 Central	MSD	Water			X																					2
AP-31 (860-80537-3)	8/14/24	11:20 Central		Water			X																					2
AP-32 (860-80537-4)	8/14/24	09:25 Central		Water			X																					2
AP-33 (860-80537-5)	8/14/24	08:35 Central		Water			X																					2
AP-34 (860-80537-6)	8/14/24	09:15 Central		Water			X																					2
AP-35 (860-80537-7)	8/14/24	11:30 Central		Water			X																					2

pH Acceptable
Client Provided Sample Container
Initial Temp: 11.4
Corrected Temp: 11.6
IR Gun # 22m

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:				
Relinquished by:	Date/Time: 8/15/24	Company	Received by:	Date/Time: 8-16-24 0915	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 04/02/2024

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-147088.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@et.eurofinsus.com	State of Origin: Texas	Page: Page 2 of 2
Company: Eurofins Eaton Analytical		Accreditations Required (See note): NELAP - Texas		Job #: 860-80537-1
Address: 110 S Hill Street, ,	Due Date Requested: 9/13/2024			Preservation Codes: -
City: South Bend	TAT Requested (days):			
State, Zip: IN, 46617	PO #:			
Phone: 574-233-4777(Tel) 574-233-8207(Fax)	WO #:			
Email:	Project #: 86001746			Other:
Project Name: San Miguel Electrical Co-Op 2H23 GW	SSOW#:			
Site:				

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)	Field Filtered Sample (Yes or No)	SM7500_Ra_B/Rad_Prep Radium 226	Special Instructions/Note:
		Preservation Code:					
AP-36 (860-80537-8)	8/14/24	10:45 Central		Water		X	2
MW-03 (860-80537-9)	8/14/24	10:20 Central		Water		X	2
PZ-05 (860-80537-10)	8/14/24	10:30 Central		Water		X	2
PZ-06 (860-80537-11)	8/14/24	09:45 Central		Water		X	2
EB-01 (860-80537-12)	8/14/24	10:25 Central		Water		X	2
DUP-02 (860-80537-13)	8/14/24	12:00 Central		Water		X	2
FB-02 (860-80537-14)	8/14/24	11:20 Central		Water		X	2

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification: Unconfirmed	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:			
Relinquished by:	Date/Time: 8/15/24	Company	Received by:	Date/Time: 8-15-24 0915	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:			

Login Sample Receipt Checklist

Client: GSI Environmental Inc

Job Number: 860-80537-1

Login Number: 80537

List Source: Eurofins Houston

List Number: 1

Creator: Torrez, Lisandra

Question	Answer	Comment
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	

Login Sample Receipt Checklist

Client: GSI Environmental Inc

Job Number: 860-80537-1

Login Number: 80537
List Number: 3
Creator: Moore, Gary

List Source: Eurofins Eaton Analytical South Bend
List Creation: 08/16/24 03:03 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	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	
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	
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	
Samples do not require splitting or compositing.	True	
Container provided by EEA	False	Client provided containers

Login Sample Receipt Checklist

Client: GSI Environmental Inc

Job Number: 860-80537-1

Login Number: 80537
List Number: 4
Creator: Mullins, Plumm A

List Source: Eurofins Pittsburgh
List Creation: 08/17/24 01:49 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are 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?	N/A	
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	

Login Sample Receipt Checklist

Client: GSI Environmental Inc

Job Number: 860-80537-1

Login Number: 80537
List Number: 2
Creator: Pinette, Meadow L

List Source: Eurofins St. Louis
List Creation: 08/16/24 01:16 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
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?	N/A	
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").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

GSI ENVIRONMENTAL

DATA USABILITY SUMMARY

August 2024 Sampling Event (Job ID: 860-80539-1)

OVERVIEW

GSI Environmental Inc. (GSI) reviewed one data package from Eurofins Houston located in Stafford, Texas (EET HOU) for the analysis of **twelve groundwater samples collected from the Equalization Pond on 14 August 2024**[1] at the San Miguel Electric Cooperative, Inc., Christine, Atascosa County, Texas site. Data were reviewed for i) conformance to the requirements of the guidance document *Review and Reporting of COC Concentration Data* (RG-366/TRRP-13) and ii) adherence to project objectives (e.g., GSI 2019). The majority of analyses were conducted by EET HOU, while the metals analyses were conducted by the Eurofins Pittsburgh, Pennsylvania (EET PIT) laboratory and the Radium analyses were conducted by the Eurofins St. Louis, Missouri (EET SL) and Eurofins South Bend, Indiana (EA SB) laboratories. GSI certifies that at the time the laboratory data were generated for the project, EET HOU, EET PIT, EET SL, and EA SB were National Environmental Laboratory Accreditation Program (NELAP)-accredited under the Texas Laboratory Accreditation Program (Certification Number: T104704215, T104704528, T104704193, and T104704187, respectively) for the matrices, analytes, and methods of analysis requested on the chain-of-custody documentation. A copy of EET HOU, EET PIT, EET SL, and EA SB's NELAP certificates applicable to the period during which the laboratory generated the data in this report is included as Attachment A.

Intended Use of Data

Samples were collected to provide current data on groundwater conditions at the test location. Analyses requested included:

- Method 300.0 – Anions, Ion Chromatography
- Method 6020A – Metals (Inductively Coupled Plasma [ICP]/Mass Spectrometry[MS])
- Method 7470A – Mercury (Cold Vapor Atomic Absorption [CVAA] Spectroscopy)
- Method SM2320B – Alkalinity
- Method SM2540C – Total Dissolved Solids (TDS)
- Method 904.0 – Radium-228 (GFPC)
- Method SM7500 Ra B – Radium-226

Data were reviewed and validated, as described in *Review and Reporting of COC Concentration Data* (RG-366/TRRP-13), and the results are discussed in this Data Usability Summary (DUS). The following laboratory submittals and field data were examined:

- the reportable data (i.e., results provided in the laboratory data package),
- the laboratory review checklists and associated exception reports, and

[1] Nine samples plus one field duplicate, one field blank and one equipment blank.

- the field notes with respect to field instrument calibrations, filtering procedures (if applicable), and sampling procedures.

The results of supporting quality control (QC) analyses were summarized in the laboratory case narrative (LCN), which was included in this review. The case narrative and reportable data included in this review are attached to this DUS as Attachment B.

INTRODUCTION

Twelve (12) water samples were submitted to the laboratory, and all requested analyses were completed. Table 1 lists the sample identifications cross-referenced to laboratory identifications.

PROJECT MEASUREMENT QUALITY OBJECTIVES

The following criteria were used in this review:

	MS/MSD		LCS/LCSD		Lab Dup	Field Precision
Analytes	% R	RPD/RER	% R	RPD	RPD	RPD
Metals	75 – 125	20	80 – 120	-	-	≤ 30%
Inorganic Anions	90 – 110	15	90 – 110	20	-	≤ 30%
Alkalinity	-	-	85 – 115	20	20	≤ 30%
Total Dissolved Solids (TDS)	-	-	80 – 120	-	10	≤ 30%
Radium-228	60 – 140	1	75 – 125	-	-	≤ 30%
Radium-226	80 – 120	1	90 – 110	-	-	≤ 30%

DATA REVIEW / VALIDATION RESULTS

Analytical Results

Results from these samples may be considered usable with the limitations and exceptions described in this section. Sample data qualified as a result of this DUS, if any, are listed in Table 3. Non-detected results are reported as less than the value of the method detection limit (MDL). Results between the MDL and reporting (RL) are J-flagged.

Finding: All requested analyses were completed, and results were reported as requested.

Preservation and Holding Times

The samples were evaluated for agreement with the chain-of-custody (C-O-C). The samples were received by the laboratory in the appropriate containers and in good condition, with proper completion of the C-O-C documentation. Samples receipt temperature was within the acceptance criteria, and field preservation was done as specified in the Sampling and Analysis Plan [SAP] (GSI, 2019). Samples were prepared and analyzed within method-specified holding times, with exceptions noted below. Items related to the C-O-C are also listed below.

- The sample identified as DUP-03 on the C-O-C is a field duplicate of sample EP-33.

- Two containers for sample DUP-03 arrived with the lid off and most or all of the sample spilled, so the lab could not complete the analysis of Ra-226 for this sample. Additionally, the detection goal was not met for Ra-228 for this sample due to reduced sample volume. Analytical results are reported with the detection limit achieved.

Items related to sample preparation are listed below.

- Samples EP-31, EP-32, EP-33, EP-34, EP-35, EP-36, EP-37, EP-38, MW-04, and DUP-03 by Method 6020A were diluted to bring the concentration of target analytes within the calibration range. Elevated RLs are provided.

Finding No qualifiers were added per this evaluation.

Calibrations

The following issues were noted with the calibrations:

- For Method 6020A, the continuing calibration verification (CCV) associated with batch 180-477804 recovered above the upper control limit for Boron. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Finding: No qualifiers were added per this evaluation.

Blanks

Method (Laboratory) Blanks

The following issues were noted with the laboratory blanks:

- Ra-226 was detected in the method blanks for preparation batches 110725 and 111010 at concentrations above the minimum detectable concentration (MDC). Samples in these preparation batches that were detected at concentrations less than 5X the associated method blank concentration were given “U” flags.

Field Blanks

The following issues were noted with the blank collected in the field:

- Barium, Calcium, Chromium, Magnesium, Sodium, Lead, Lithium, Total Alkalinity, Bicarbonate Alkalinity as CaCO3, Carbonate Alkalinity as CaCO3, and TDS were detected in the Field Blank at concentrations above the MDL. The field blank sample (FB-03) consists of distilled water that is exposed to ambient air on the day of sample collection. Bicarbonate Alkalinity as CaCO3 results for sample EP-38 was within 5X the field blank concentration and was given a “JH” flag. Ra-228 results for samples EP-31, DUP-03, EP-32, EP-33, EP-35, EP-36, EP-37, and EP-38 were within 5X the field blank concentration and were given “JH” flags. Total Alkalinity results for samples EP-36, EP-38, and MW-04 were within 5X the field blank concentration and were given “JH” flags. All other field samples collected contained Barium, Calcium, Chromium, Magnesium, Sodium, Lead, Lithium, Total Alkalinity, Bicarbonate Alkalinity as CaCO3, Carbonate Alkalinity as CaCO3,

and TDS that were greater than 5X the associated field blank concentration and did not require qualifiers.

- Ra-226 was detected in the Equipment Blank at concentrations above the MDC. The equipment blank sample (EB-02) consists of distilled water that was poured over decontaminated non-dedicated sampling equipment. The Ra-226 result for sample EB-02 was given a "U" flag, due to detected concentrations in the laboratory method blank, therefore no further qualifier was added per this evaluation.

Finding: "JH" flags were given to the Bicarbonate Alkalinity as CaCO3 results for sample EP-38; Ra-228 results for samples EP-31, DUP-03, EP-32, EP-33, EP-35, EP-36, EP-37, and EP-38; and Total Alkalinity results for samples EP-36, EP-38, and MW-04. "U" flags were given to the Ra-226 results for samples EB-02, EP-35, and MW-04.

Internal Standard and Surrogate Recoveries (VOCs and SVOCs Only)

Not applicable.

Laboratory Control Samples

The Laboratory Control Sample (LCS)/Laboratory Control Sample Duplicate (LCSD) recoveries and Relative Percent Differences (RPDs) were within the project-defined QC acceptance criteria.

Finding: No qualifiers were added per this evaluation.

Matrix Spike/Matrix Spike Duplicates and Laboratory Duplicates

The LCN and lab report indicated the following issues with matrix spike (MS)/matrix spike duplicate (MSD) data:

- The recoveries for analytical batch 182530 analyzed using sample EP-31 were outside control limits for Chloride (MS/MSD), Fluoride (MS/MSD), and Sulfate (MS/MSD). Recoveries of Chloride in the MS/MSD samples were 111%, above the desired range of 90-110%. Recoveries of Fluoride in the MS/MSD samples were 51% and 55%, respectively, below the desired range of 90-110%. Recoveries of Sulfate in the MS/MSD samples were 124% and 126%, respectively, above the desired range of 90-110%. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample/laboratory control sample duplicate (LCS/LCSD) recoveries were within acceptance limits. All associated samples for Fluoride were non-detect and didn't require qualifiers. The spiking amounts for Sulfate were less than 4 times the result in the unspiked parent sample and didn't require qualifiers. The spiking amounts for Chloride were greater than 4 times the result in the unspiked parent sample; therefore "JH" flags were given to Chloride results for affected samples.
- The recoveries for preparation batch 477270 and analytical batch 477804 analyzed using sample EP-31 were outside control limits for Boron (MS/MSD), Barium (MS), Calcium (MS/MSD), and Sodium (MS/MSD). Recoveries of Boron in the MS/MSD samples were 0%, below the desired range of 75-125%. Recovery of Barium in the MS sample was 135%, above the desired range of 75-125%. Recoveries of Calcium in the MS/MSD samples were 163% and 35%, respectively, outside the desired range of 75-125%. Recoveries of Sodium in the MS/MSD samples were 136% and 29%, respectively, outside

the desired range of 75-125%. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample/laboratory control sample duplicate (LCS/LCSD) recoveries were within acceptance limits. In addition, the spiking amounts were less than 4 times the result in the unspiked parent sample. As a result, no additional qualifiers were added as part of this evaluation.

Findings: "JH" flags were given to Chloride results for samples EP-31, DUP-03, EP-32, EP-33, EP-34, EP-35, EP-36, EP-37, EP-38, and MW-04 per this evaluation.

Field Duplicates (Field Precision)

One field duplicate, identified as DUP-03, was collected with sample EP-33. Results indicate that, RPDs between the parent and duplicate sample results were less than the TCEQ-recommended maximum of 40% (organics) or 30% (metals) for concentrations greater than five times the MQL, or the difference between concentrations was less than twice the MQL for analytes with concentrations less than five times the MQL. A comparison of the field sample and the duplicate sample are shown in Table 2.

Finding: No qualifiers were added per this evaluation.

Field Procedures

Sample collection and documentation was done in accordance with the Groundwater Sampling and Analysis Plan (SAP; GSI, 2019).

Finding: Field activities were consistent with the SAP.

SUMMARY

The analytical data are usable for the purpose of characterizing groundwater conditions. No qualifiers were added based on this review and evaluation.

REFERENCES

GSI Environmental, Inc., 2019, Groundwater Sampling and Analysis Plan, San Miguel Electric Cooperative, Inc., December 26.

TCEQ 2010. Review and Reporting of COC Concentration Data under TRRP, RG-366/TRRP-13 https://www.tceq.texas.gov/assets/public/comm_exec/pubs/rg/rg-366-trrp-13.pdf

TABLES

TABLE 1
Cross-Reference Field Sample and Laboratory Identifications

Sample Date	Lab	Lab Sample ID	Field Sample ID	Matrix
08/14/2024	EET HOU/EET PIT/EET SL/EA SB	860-80539-1	EP-31	Water
08/14/2024	EET HOU/EET PIT/EET SL/EA SB	860-80539-2	EP-32	Water
08/14/2024	EET HOU/EET PIT/EET SL/EA SB	860-80539-3	EP-33	Water
08/14/2024	EET HOU/EET PIT/EET SL/EA SB	860-80539-4	EP-34	Water
08/14/2024	EET HOU/EET PIT/EET SL/EA SB	860-80539-5	EP-35	Water
08/14/2024	EET HOU/EET PIT/EET SL/EA SB	860-80539-6	EP-36	Water
08/14/2024	EET HOU/EET PIT/EET SL/EA SB	860-80539-7	EP-37	Water
08/14/2024	EET HOU/EET PIT/EET SL/EA SB	860-80539-8	EP-38	Water
08/14/2024	EET HOU/EET PIT/EET SL/EA SB	860-80539-9	MW-04	Water
08/14/2024	EET HOU/EET PIT/EET SL/EA SB	860-80539-10	EB-02	Water
08/14/2024	EET HOU/EET PIT/EET SL/EA SB	860-80539-11	DUP-03	Water
08/14/2024	EET HOU/EET PIT/EET SL/EA SB	860-80539-12	FB-03	Water

Notes:
1. EET HOU: Eurofins Houston, Stafford, Texas; EET PIT: Eurofins Pittsburgh, Pittsburgh, Pennsylvania; EET SL: Eurofins St. Louis, Earth City, Missouri; EA SB: Eurofins Eaton South Bend, South Bend, Indiana

TABLE 2
Field Duplicate Detections

Analyte	MDL (mg/L)	Primary Sample Result (mg/L)	Field Duplicate Result (mg/L)	Relative Percent Difference (RPD)
Antimony	0.0967	0.0967 U	0.0967 U	0.0
Arsenic	0.0563	0.0563 U	0.0563 U	0.0
Barium	0.314	0.314 U	0.314 U	0.0
Beryllium	0.0274	0.0274 U	0.0274 U	0.0
Bicarbonate Alkalinity as CaCO3	4	221	235	6.1
Boron	6.01	46.8	44	6.2
Cadmium	0.0217	0.0217 U	0.0217 U	0.0
Calcium	12.7	476	455	4.5
Carbonate Alkalinity as CaCO3	4	4 U	4 U	0.0
Chloride	2.5	2110	2100	0.5
Chromium	0.153	0.153 U	0.153 U	0.0
Cobalt	0.0261	0.0261 U	0.0261 U	0.0
Fluoride	1	1 U	1 U	0.0
Hydroxide Alkalinity	4	4 U	4 U	0.0
Lead	0.0376	0.0376 U	0.0376 U	0.0
Lithium	0.129	0.919	0.939	2.2
Magnesium	7.89	41 J	39.7 J	3.2
Mercury	0.13	0.13 U	0.13 U	0.0
Molybdenum	0.061	0.061 U	0.061 U	0.0
Potassium	15.6	36.6 J	34 J	7.4
Ra-226	1.11	0.81	NA	NA
Radium-228	0.153	1.99	2.2 G	10.0
Selenium	18.4	0.153 U	0.153 U	0.0
Sodium	2	2550	2500	2.0
Sulfate	0.0472	3140	3130	0.3
Thallium	4	0.0472 U	0.0472 U	0.0
Total Alkalinity	100	221	235	6.1
Total Dissolved Solids	0.0967	7800	8600	9.8

Notes:
1. MDL: Method Detection Limit
2. mg/L: milligrams per liter
3. RPD = ABS(PR-FD)/AVERAGE(PR+FD)*100), where PR is the Primary Sample and FD is the Field Duplicate, where the MDL is substituted for results below detection.
4. U = analyte not detected at the stated limit; J = result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value; G=
5. NA= Not Analyzed
6. CaCO3: Calcium carbonate

TABLE 3
Qualifiers Added During Data Usability Review

Sample ID	Analyte	Lab Result	Unit	DUS Qualifier or Bias Code	Reason for Qualification	Analysis Batch Number	Report Number
EB-02	Ra-226	0.25	pCi/L	U	Detected result within 5X method blank concentration	114567	860-80539-1
EP-35	Ra-226	0.61	pCi/L	U	Detected result within 5X method blank concentration	114136	860-80539-1
MW-04	Ra-226	1.08	pCi/L	U	Detected result within 5X method blank concentration	114933	860-80539-1
EP-38	Bicarbonate Alkalinity as CaCO3	60.3	mg/L	JH	Detected result within 5X field blank concentration	678288	860-80539-1
EP-31	Ra-228	1.35	pCi/L	JH	Detected result within 5X field blank concentration	678290	860-80539-1
DUP-03	Ra-228	2.2 G	pCi/L	JH	Detected result within 5X field blank concentration	678288	860-80539-1
EP-32	Ra-228	3.82	pCi/L	JH	Detected result within 5X field blank concentration	678288	860-80539-1
EP-33	Ra-228	1.99	pCi/L	JH	Detected result within 5X field blank concentration	678288	860-80539-1
EP-35	Ra-228	1.87	pCi/L	JH	Detected result within 5X field blank concentration	678288	860-80539-1
EP-36	Ra-228	3.76	pCi/L	JH	Detected result within 5X field blank concentration	678288	860-80539-1
EP-37	Ra-228	3.81	pCi/L	JH	Detected result within 5X field blank concentration	678288	860-80539-1
EP-38	Ra-228	1.21	pCi/L	JH	Detected result within 5X field blank concentration	678288	860-80539-1
EP-36	Total Alkalinity	169	mg/L	JH	Detected result within 5X field blank concentration	182148	860-80539-1
EP-38	Total Alkalinity	60.3	mg/L	JH	Detected result within 5X field blank concentration	182148	860-80539-1
MW-04	Total Alkalinity	142	mg/L	JH	Detected result within 5X field blank concentration	182148	860-80539-1
EP-31	Chloride	11.7 F1	mg/L	JH	MS/MSD %R above specifications	182530	860-80539-1

Sample ID	Analyte	Lab Result	Unit	DUS Qualifier or Bias Code	Reason for Qualification	Analysis Batch Number	Report Number
DUP-03	Chloride	2100	mg/L	JH	MS/MSD %R above specifications	182530	860-80539-1
EP-32	Chloride	1510	mg/L	JH	MS/MSD %R above specifications	182530	860-80539-1
EP-33	Chloride	2110	mg/L	JH	MS/MSD %R above specifications	182530	860-80539-1
EP-34	Chloride	3920	mg/L	JH	MS/MSD %R above specifications	182530	860-80539-1
EP-35	Chloride	3520	mg/L	JH	MS/MSD %R above specifications	182530	860-80539-1
EP-36	Chloride	3440	mg/L	JH	MS/MSD %R above specifications	182530	860-80539-1
EP-37	Chloride	2920	mg/L	JH	MS/MSD %R above specifications	182530	860-80539-1
EP-38	Chloride	1260	mg/L	JH	MS/MSD %R above specifications	182530	860-80539-1
MW-04	Chloride	1580	mg/L	JH	MS/MSD %R above specifications	182530	860-80539-1

Notes:
1. mg/L: milligrams per liter; pCi/L: picocuries per liter
2. U: analyte not detected at the stated limit; F1: MS/MSD recovery exceeds control limits; JH: estimated value, biased high
3. MS/MSD: matrix spike/matrix spike duplicate
4. %R: percent recovery

Attachment A

TCEQ NELAP-Recognized Laboratory Accreditation Certificates

Texas Commission on Environmental Quality

Certificate of Accreditation

Accreditation is hereby granted to

Eurofins Houston
4147 Greenbriar Dr.
Stafford, TX 77477

State Lab ID: T104704215
Effective Date: 07/01/2024
Expiration Date: 06/30/2025
Document ID: TX-C24-00243

Conditions of Accreditation

This laboratory has been found to conform with TCEQ rules and applicable standards for laboratory accreditation. The scope of accreditation is limited to the Fields of Accreditation (FoA) specifically listed on the subsequent page(s) of this certificate. Accreditation is for all version of a method approved per 40 CFR 136, 40 CFR 141, and/ or 40 CFR 143. Continued accreditation requires ongoing compliance with all applicable standards and requirements.

Note: For the attached FoA table, matrices may include DW (drinking water), NPW (non-potable water), S (solid and chemical materials), A (air), and/ or BT (biological tissue).

Issued By: Kelly Keel, Executive Director Texas Commission on Environmental Quality
Date Issued: 07/01/2024

Texas Commission on Environmental Quality

Certificate of Accreditation

Accreditation is hereby granted to

Eurofins Pittsburgh
301 Alpha Drive
Pittsburgh, PA 15238-2907

State Lab ID: T104704528
Effective Date: 04/09/2024
Expiration Date: 03/31/2025
Document ID: TX-C24-00110

Conditions of Accreditation

This laboratory has been found to conform with TCEQ rules and applicable standards for laboratory accreditation. The scope of accreditation is limited to the Fields of Accreditation specifically listed on the subsequent page(s) of this certificate. Accreditation is for all version of a method approved per 40 CFR 136, 40 CFR 141, and/ or 40 CFR 143. Continued accreditation requires ongoing compliance with all applicable standards and requirements.

Issued By: Kelly Keel, Executive Director Texas Commission on Environmental Quality
Date Issued: 04/09/2024

Texas Commission on
Environmental Quality

Certificate of Accreditation

Accreditation is hereby granted to

Eurofins St. Louis
13715 Rider Trail North
Earth City, MO 63045-1205

State Lab ID: T104704193
Effective Date: 08/01/2024
Expiration Date: 07/31/2025
Certificate ID: TX-C24-00256

Conditions of Accreditation

This laboratory has been found to conform with TCEQ rules and applicable standards for laboratory accreditation. The scope of accreditation is limited to the Fields of Accreditation (FoA) specifically listed on the subsequent page(s) of this certificate. Accreditation is for all version of a method approved per 40 CFR 136, 40 CFR 141, and/or 40 CFR 143. Continued accreditation requires ongoing compliance with all applicable standards and requirements.

Note: For the attached FoA table, matrices may include DW (drinking water), NPW (non-potable water), S (solid and chemical materials), A (air), and/or BT (biological tissue).

Issued By: Kelly Keel, Executive Director Texas Commission on Environmental Quality
Date Issued: 08/01/2024

Texas Commission on Environmental Quality

NELAP-Recognized Laboratory Accreditation is hereby awarded to

Eurofins Eaton Analytical, LLC - South Bend

110 South Hill Street
South Bend, IN 46617-2702

in accordance with Texas Water Code Chapter 5, Subchapter R, Title 30 Texas Administrative Code Chapter 25, and the National Environmental Laboratory Accreditation Program.

The laboratory's scope of accreditation includes the fields of accreditation that accompany this certificate. Continued accreditation depends upon successful ongoing participation in the program. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current location(s) and accreditation status for particular methods and analyses (www.tceq.texas.gov/goto/lab). Accreditation does not imply that a product, process, system or person is approved by the Texas Commission on Environmental Quality.

Erin E. Chancellor

Executive Director Texas Commission on Environmental Quality

Certificate Number: T104704187-23-17
Effective Date: 1/1/2024
Expiration Date: 12/31/2024

Attachment B

Eurofins Houston – Stafford, Texas

Analytical Report

Job ID.: 860-80539-1

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mike Schofield
GSI Environmental Inc
9600 Great Hills Trail
Suite 350E
Austin, Texas 78759

Generated 9/23/2024 10:41:22 AM

JOB DESCRIPTION

Equilization Pond

JOB NUMBER

860-80539-1

Eurofins Houston
4145 Greenbriar Dr
Stafford TX 77477

See page two for job notes and contact information.

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.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Generated
9/23/2024 10:41:22 AM

Authorized for release by
Sachin Kudchadkar, Senior Project Manager
Sachin.Kudchadkar@et.eurofinsus.com
(281)748-9025

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Qualifiers

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
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.

Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
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.

General Chemistry

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Rad

Qualifier	Qualifier Description
G	The Sample MDC is greater than the requested RL.
U	Result is less than the sample detection limit.

Glossary

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

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job Narrative
860-80539-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 8/15/2024 9:39 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 2.0°C, 3.7°C, 4.3°C and 5.0°C.

Receipt Exceptions
One container for the following sample was received with the lid off and only 550mL left so we do not have enough volume to run the requested analysis.: DUP-03 (860-80539-11).

Affected container:
A-11

<Sample 11 B/C arrived with their lids off and no volume left. Please have client recollect.>

EP-31 (860-80539-1), EP-31 (860-80539-1[MS]), EP-31 (860-80539-1[MSD]), EP-32 (860-80539-2), EP-33 (860-80539-3), EP-34 (860-80539-4), EP-35 (860-80539-5), EP-36 (860-80539-6), EP-37 (860-80539-7), EP-38 (860-80539-8), MW-04 (860-80539-9), EB-02 (860-80539-10), DUP-03 (860-80539-11) and FB-03 (860-80539-12)

HPLC/IC
Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-182530 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

Metals
Method 6020A - Total Recoverable: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 180-477270 and analytical batch 180-477804 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 6020A - Total Recoverable: The following samples were diluted to bring the concentration of target analytes within the calibration range: EP-31 (860-80539-1), EP-31 (860-80539-1[MS]), EP-31 (860-80539-1[MSD]), EP-32 (860-80539-2), EP-33 (860-80539-3), EP-34 (860-80539-4), EP-35 (860-80539-5), EP-36 (860-80539-6), EP-37 (860-80539-7), EP-38 (860-80539-8), MW-04 (860-80539-9) and DUP-03 (860-80539-11). Elevated reporting limits (RLs) are provided. Due to the matrix of the samples, no lower dilution was performed.

Method 6020A - Total Recoverable: The following samples were diluted to bring the concentration of target analytes within the calibration range: EP-35 (860-80539-5), EP-36 (860-80539-6), EP-37 (860-80539-7), EP-38 (860-80539-8), MW-04 (860-80539-9) and DUP-03 (860-80539-11). Elevated reporting limits (RLs) are provided.

Method 6020A - Total Recoverable: The matrix spike / matrix spike duplicate / sample duplicate (MS/MSD/DUP) precision for preparation batch 180-477270 and analytical batch 180-477804 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits.

Job ID: 860-80539-1 (Continued)

Method 6020A - Total Recoverable: The continuing calibration verification (CCV) associated with batch 180-477804 recovered above the upper control limit for Boron. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: EP-38 (860-80539-8).

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

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

Gas Flow Proportional Counter
Method 904.0: Radium-228 batch 676627
The detection goal was not met for the following sample due to the reduced sample volume used in prep attributed to the presence of matrix interferences: DUP-03 (860-80539-11). Analytical results are reported with the detection limit achieved.

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

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

Detection Summary

Client: GSI Environmental Inc
Project/Site: Equilization Pond

Job ID: 860-80539-1

Client Sample ID: EP-31 — Lab Sample ID: 860-80539-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	11.7	F1	5.00	2.50	mg/L	10		300.0	Total/NA
Sulfate	310	F1	5.00	2.00	mg/L	10		300.0	Total/NA
Boron	6.19	J	8.00	6.01	mg/L	100		EPA 6020A	Total Recoverable
Beryllium	0.0712	J	0.100	0.0274	mg/L	100		EPA 6020A	Total Recoverable
Calcium	490		50.0	12.7	mg/L	100		EPA 6020A	Total Recoverable
Cobalt	0.0991		0.0500	0.0261	mg/L	100		EPA 6020A	Total Recoverable
Magnesium	45.3	J	50.0	7.89	mg/L	100		EPA 6020A	Total Recoverable
Sodium	964		50.0	18.4	mg/L	100		EPA 6020A	Total Recoverable
Potassium	39.9	J	50.0	15.6	mg/L	100		EPA 6020A	Total Recoverable
Lithium	0.700		0.500	0.129	mg/L	100		EPA 6020A	Total Recoverable
Total Dissolved Solids	5020		40.0	40.0	mg/L	1		SM 2540C	Total/NA

Client Sample ID: EP-32 — Lab Sample ID: 860-80539-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1510		5.00	2.50	mg/L	10		300.0	Total/NA
Sulfate	3930		5.00	2.00	mg/L	10		300.0	Total/NA
Boron	22.0		8.00	6.01	mg/L	100		EPA 6020A	Total Recoverable
Calcium	425		50.0	12.7	mg/L	100		EPA 6020A	Total Recoverable
Magnesium	54.3		50.0	7.89	mg/L	100		EPA 6020A	Total Recoverable
Sodium	2590		50.0	18.4	mg/L	100		EPA 6020A	Total Recoverable
Potassium	37.4	J	50.0	15.6	mg/L	100		EPA 6020A	Total Recoverable
Lithium	1.33		0.500	0.129	mg/L	100		EPA 6020A	Total Recoverable
Total Alkalinity	176		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	176		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	9190		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: EP-33 — Lab Sample ID: 860-80539-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	2110		5.00	2.50	mg/L	10		300.0	Total/NA
Sulfate	3140		5.00	2.00	mg/L	10		300.0	Total/NA
Boron	46.8		8.00	6.01	mg/L	100		EPA 6020A	Total Recoverable
Calcium	476		50.0	12.7	mg/L	100		EPA 6020A	Total Recoverable
Magnesium	41.0	J	50.0	7.89	mg/L	100		EPA 6020A	Total Recoverable
Sodium	2550		50.0	18.4	mg/L	100		EPA 6020A	Total Recoverable
Potassium	36.6	J	50.0	15.6	mg/L	100		EPA 6020A	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Houston

Detection Summary

Client: GSI Environmental Inc
Project/Site: Equilization Pond

Job ID: 860-80539-1

Client Sample ID: EP-33 (Continued) — Lab Sample ID: 860-80539-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.919		0.500	0.129	mg/L	100		EPA 6020A	Total Recoverable
Total Alkalinity	221		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	221		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	7800		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: EP-34 — Lab Sample ID: 860-80539-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	3920		5.00	2.50	mg/L	10		300.0	Total/NA
Sulfate	3200		5.00	2.00	mg/L	10		300.0	Total/NA
Boron	34.5		8.00	6.01	mg/L	100		EPA 6020A	Total Recoverable
Calcium	474		50.0	12.7	mg/L	100		EPA 6020A	Total Recoverable
Magnesium	68.6		50.0	7.89	mg/L	100		EPA 6020A	Total Recoverable
Sodium	3870		50.0	18.4	mg/L	100		EPA 6020A	Total Recoverable
Potassium	47.7	J	50.0	15.6	mg/L	100		EPA 6020A	Total Recoverable
Lithium	1.31		0.500	0.129	mg/L	100		EPA 6020A	Total Recoverable
Total Alkalinity	258		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	258		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	11200		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: EP-35 — Lab Sample ID: 860-80539-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	3520		5.00	2.50	mg/L	10		300.0	Total/NA
Sulfate	3280		5.00	2.00	mg/L	10		300.0	Total/NA
Boron	33.7		8.00	6.01	mg/L	100		EPA 6020A	Total Recoverable
Calcium	451		50.0	12.7	mg/L	100		EPA 6020A	Total Recoverable
Magnesium	79.3		50.0	7.89	mg/L	100		EPA 6020A	Total Recoverable
Sodium	3400		50.0	18.4	mg/L	100		EPA 6020A	Total Recoverable
Potassium	44.0	J	50.0	15.6	mg/L	100		EPA 6020A	Total Recoverable
Lithium	1.24		0.500	0.129	mg/L	100		EPA 6020A	Total Recoverable
Total Alkalinity	204		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	204		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	10900		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: EP-36 — Lab Sample ID: 860-80539-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	3440		5.00	2.50	mg/L	10		300.0	Total/NA
Sulfate	2420		5.00	2.00	mg/L	10		300.0	Total/NA
Boron	40.1		8.00	6.01	mg/L	100		EPA 6020A	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: EP-36 (Continued) — Lab Sample ID: 860-80539-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	555		50.0	12.7	mg/L	100		EPA 6020A	Total Recoverable
Magnesium	110		50.0	7.89	mg/L	100		EPA 6020A	Total Recoverable
Sodium	2770		50.0	18.4	mg/L	100		EPA 6020A	Total Recoverable
Potassium	46.6	J	50.0	15.6	mg/L	100		EPA 6020A	Total Recoverable
Lithium	1.28		0.500	0.129	mg/L	100		EPA 6020A	Total Recoverable
Total Alkalinity	169		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	169		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	9600		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: EP-37 — Lab Sample ID: 860-80539-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	2920		5.00	2.50	mg/L	10		300.0	Total/NA
Sulfate	2640		5.00	2.00	mg/L	10		300.0	Total/NA
Boron	10.8		8.00	6.01	mg/L	100		EPA 6020A	Total Recoverable
Beryllium	0.179		0.100	0.0274	mg/L	100		EPA 6020A	Total Recoverable
Calcium	401		50.0	12.7	mg/L	100		EPA 6020A	Total Recoverable
Magnesium	71.0		50.0	7.89	mg/L	100		EPA 6020A	Total Recoverable
Sodium	2670		50.0	18.4	mg/L	100		EPA 6020A	Total Recoverable
Potassium	46.8	J	50.0	15.6	mg/L	100		EPA 6020A	Total Recoverable
Lithium	1.29		0.500	0.129	mg/L	100		EPA 6020A	Total Recoverable
Total Alkalinity	199		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	199		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	8930		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: EP-38 — Lab Sample ID: 860-80539-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1260		5.00	2.50	mg/L	10		300.0	Total/NA
Sulfate	2360		5.00	2.00	mg/L	10		300.0	Total/NA
Calcium	442		50.0	12.7	mg/L	100		EPA 6020A	Total Recoverable
Magnesium	66.4		50.0	7.89	mg/L	100		EPA 6020A	Total Recoverable
Sodium	1340		50.0	18.4	mg/L	100		EPA 6020A	Total Recoverable
Potassium	37.0	J	50.0	15.6	mg/L	100		EPA 6020A	Total Recoverable
Lithium	0.843		0.500	0.129	mg/L	100		EPA 6020A	Total Recoverable
Total Alkalinity	60.3		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	60.3		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	5460		40.0	40.0	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: GSI Environmental Inc
Project/Site: Equilization Pond

Job ID: 860-80539-1

Client Sample ID: MW-04 — Lab Sample ID: 860-80539-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1580		5.00	2.50	mg/L	10		300.0	Total/NA
Sulfate	2240		5.00	2.00	mg/L	10		300.0	Total/NA
Boron	12.7		8.00	6.01	mg/L	100		EPA 6020A	Total Recoverable
Calcium	320		50.0	12.7	mg/L	100		EPA 6020A	Total Recoverable
Magnesium	60.8		50.0	7.89	mg/L	100		EPA 6020A	Total Recoverable
Sodium	1710		50.0	18.4	mg/L	100		EPA 6020A	Total Recoverable
Potassium	32.9	J	50.0	15.6	mg/L	100		EPA 6020A	Total Recoverable
Lithium	0.810		0.500	0.129	mg/L	100		EPA 6020A	Total Recoverable
Total Alkalinity	142		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	142		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	5530		40.0	40.0	mg/L	1		SM 2540C	Total/NA

Client Sample ID: EB-02 — Lab Sample ID: 860-80539-10

No Detections.

Client Sample ID: DUP-03 — Lab Sample ID: 860-80539-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	2100		5.00	2.50	mg/L	10		300.0	Total/NA
Sulfate	3130		5.00	2.00	mg/L	10		300.0	Total/NA
Boron	44.0		8.00	6.01	mg/L	100		EPA 6020A	Total Recoverable
Calcium	455		50.0	12.7	mg/L	100		EPA 6020A	Total Recoverable
Magnesium	39.7	J	50.0	7.89	mg/L	100		EPA 6020A	Total Recoverable
Sodium	2500		50.0	18.4	mg/L	100		EPA 6020A	Total Recoverable
Potassium	34.0	J	50.0	15.6	mg/L	100		EPA 6020A	Total Recoverable
Lithium	0.939		0.500	0.129	mg/L	100		EPA 6020A	Total Recoverable
Total Alkalinity	235		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	235		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	8600		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: FB-03 — Lab Sample ID: 860-80539-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.00702	J	0.0100	0.00314	mg/L	1		EPA 6020A	Total Recoverable
Calcium	1.88		0.500	0.127	mg/L	1		EPA 6020A	Total Recoverable
Chromium	0.00176	J	0.00200	0.00153	mg/L	1		EPA 6020A	Total Recoverable
Magnesium	0.432	J	0.500	0.0789	mg/L	1		EPA 6020A	Total Recoverable
Sodium	3.44		0.500	0.184	mg/L	1		EPA 6020A	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: FB-03 (Continued)

Lab Sample ID: 860-80539-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.000955	J	0.00100	0.000376	mg/L	1		EPA 6020A	Total Recoverable
Lithium	0.00151	J	0.00500	0.00129	mg/L	1		EPA 6020A	Total Recoverable
Total Alkalinity	34.7		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	25.2		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Carbonate Alkalinity as CaCO3	9.47		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	17.5		5.00	5.00	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: EP-31
Date Collected: 08/14/24 11:55
Date Received: 08/15/24 09:39

Lab Sample ID: 860-80539-1
Matrix: Water

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**11.7**	**F1**	5.00	2.50	mg/L			08/20/24 22:39	10
Fluoride	1.00	U F1	5.00	1.00	mg/L			08/20/24 22:39	10
Sulfate	**310**	**F1**	5.00	2.00	mg/L			08/20/24 22:39	10

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0563	U	0.100	0.0563	mg/L		08/21/24 10:25	08/27/24 15:20	100
Boron	**6.19**	**J**	8.00	6.01	mg/L		08/21/24 10:25	08/27/24 15:20	100
Barium	0.314	U F2 F1	1.00	0.314	mg/L		08/21/24 10:25	08/27/24 15:20	100
Beryllium	**0.0712**	**J**	0.100	0.0274	mg/L		08/21/24 10:25	08/27/24 15:20	100
Calcium	**490**		50.0	12.7	mg/L		08/21/24 10:25	08/27/24 15:20	100
Cadmium	0.0217	U	0.100	0.0217	mg/L		08/21/24 10:25	08/27/24 15:20	100
Chromium	0.153	U	0.200	0.153	mg/L		08/21/24 10:25	08/27/24 15:20	100
Cobalt	**0.0991**		0.0500	0.0261	mg/L		08/21/24 10:25	08/27/24 15:20	100
Magnesium	**45.3**	**J**	50.0	7.89	mg/L		08/21/24 10:25	08/27/24 15:20	100
Molybdenum	0.0610	U	0.500	0.0610	mg/L		08/21/24 10:25	08/27/24 15:20	100
Sodium	**964**		50.0	18.4	mg/L		08/21/24 10:25	08/27/24 15:20	100
Lead	0.0376	U	0.100	0.0376	mg/L		08/21/24 10:25	08/27/24 15:20	100
Antimony	0.0967	U	0.200	0.0967	mg/L		08/21/24 10:25	08/27/24 15:20	100
Thallium	0.0472	U	0.100	0.0472	mg/L		08/21/24 10:25	08/27/24 15:20	100
Selenium	0.153	U	0.500	0.153	mg/L		08/21/24 10:25	08/27/24 15:20	100
Potassium	**39.9**	**J**	50.0	15.6	mg/L		08/21/24 10:25	08/27/24 15:20	100
Lithium	**0.700**		0.500	0.129	mg/L		08/21/24 10:25	08/27/24 15:20	100

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.130	U	0.200	0.130	ug/L		08/28/24 09:40	08/29/24 15:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/17/24 22:39	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/17/24 22:39	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/17/24 22:39	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/17/24 22:39	1
Total Dissolved Solids (SM 2540C)	**5020**		40.0	40.0	mg/L			08/21/24 12:36	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**1.35**		0.483	0.498	1.00	0.608	pCi/L	08/26/24 08:27	09/05/24 13:09	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*99.5*		*30 - 110*	*08/26/24 08:27*	*09/05/24 13:09*	*1*
Y Carrier	*78.1*		*30 - 110*	*08/26/24 08:27*	*09/05/24 13:09*	*1*

Client Sample ID: EP-31

Lab Sample ID: 860-80539-1

Date Collected: 08/14/24 11:55

Matrix: Water

Date Received: 08/15/24 09:39

Method: SM7500 Ra B - Radium-226

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra-226	0.930		0.450		1.00	0.290	pCi/L	08/28/24 12:40	09/20/24 14:38	1

Client Sample ID: EP-32

Lab Sample ID: 860-80539-2

Date Collected: 08/14/24 12:35

Matrix: Water

Date Received: 08/15/24 09:39

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1510		5.00	2.50	mg/L			08/20/24 23:53	10
Fluoride	1.00	U	5.00	1.00	mg/L			08/20/24 23:53	10
Sulfate	3930		5.00	2.00	mg/L			08/20/24 23:53	10

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0563	U	0.100	0.0563	mg/L		08/21/24 10:25	08/27/24 15:28	100
Boron	22.0		8.00	6.01	mg/L		08/21/24 10:25	08/27/24 15:28	100
Barium	0.314	U	1.00	0.314	mg/L		08/21/24 10:25	08/27/24 15:28	100
Beryllium	0.0274	U	0.100	0.0274	mg/L		08/21/24 10:25	08/27/24 15:28	100
Calcium	425		50.0	12.7	mg/L		08/21/24 10:25	08/27/24 15:28	100
Cadmium	0.0217	U	0.100	0.0217	mg/L		08/21/24 10:25	08/27/24 15:28	100
Chromium	0.153	U	0.200	0.153	mg/L		08/21/24 10:25	08/27/24 15:28	100
Cobalt	0.0261	U	0.0500	0.0261	mg/L		08/21/24 10:25	08/27/24 15:28	100
Magnesium	54.3		50.0	7.89	mg/L		08/21/24 10:25	08/27/24 15:28	100
Molybdenum	0.0610	U	0.500	0.0610	mg/L		08/21/24 10:25	08/27/24 15:28	100
Sodium	2590		50.0	18.4	mg/L		08/21/24 10:25	08/27/24 15:28	100
Lead	0.0376	U	0.100	0.0376	mg/L		08/21/24 10:25	08/27/24 15:28	100
Antimony	0.0967	U	0.200	0.0967	mg/L		08/21/24 10:25	08/27/24 15:28	100
Thallium	0.0472	U	0.100	0.0472	mg/L		08/21/24 10:25	08/27/24 15:28	100
Selenium	0.153	U	0.500	0.153	mg/L		08/21/24 10:25	08/27/24 15:28	100
Potassium	37.4	J	50.0	15.6	mg/L		08/21/24 10:25	08/27/24 15:28	100
Lithium	1.33		0.500	0.129	mg/L		08/21/24 10:25	08/27/24 15:28	100

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.130	U	0.200	0.130	ug/L		08/28/24 09:40	08/29/24 15:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	176		4.00	4.00	mg/L			08/17/24 22:34	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	176		4.00	4.00	mg/L			08/17/24 22:34	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/17/24 22:34	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/17/24 22:34	1
Total Dissolved Solids (SM 2540C)	9190		100	100	mg/L			08/21/24 12:36	1

Client Sample ID: EP-32

Lab Sample ID: 860-80539-2

Date Collected: 08/14/24 12:35

Matrix: Water

Date Received: 08/15/24 09:39

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**3.82**		0.705	0.788	1.00	0.632	pCi/L	08/26/24 08:27	09/05/24 13:09	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*96.2*		*30 - 110*	*08/26/24 08:27*	*09/05/24 13:09*	*1*
Y Carrier	*76.6*		*30 - 110*	*08/26/24 08:27*	*09/05/24 13:09*	*1*

Method: SM7500 Ra B - Radium-226

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra-226	**1.29**		1.07		1.00	0.310	pCi/L	08/19/24 09:52	09/03/24 10:13	1

Client Sample ID: EP-33

Lab Sample ID: 860-80539-3

Date Collected: 08/14/24 11:45

Matrix: Water

Date Received: 08/15/24 09:39

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2110**		5.00	2.50	mg/L			08/21/24 00:18	10
Fluoride	1.00	U	5.00	1.00	mg/L			08/21/24 00:18	10
Sulfate	**3140**		5.00	2.00	mg/L			08/21/24 00:18	10

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0563	U	0.100	0.0563	mg/L		08/21/24 10:25	08/27/24 15:31	100
Boron	**46.8**		8.00	6.01	mg/L		08/21/24 10:25	08/27/24 15:31	100
Barium	0.314	U	1.00	0.314	mg/L		08/21/24 10:25	08/27/24 15:31	100
Beryllium	0.0274	U	0.100	0.0274	mg/L		08/21/24 10:25	08/27/24 15:31	100
Calcium	**476**		50.0	12.7	mg/L		08/21/24 10:25	08/27/24 15:31	100
Cadmium	0.0217	U	0.100	0.0217	mg/L		08/21/24 10:25	08/27/24 15:31	100
Chromium	0.153	U	0.200	0.153	mg/L		08/21/24 10:25	08/27/24 15:31	100
Cobalt	0.0261	U	0.0500	0.0261	mg/L		08/21/24 10:25	08/27/24 15:31	100
Magnesium	**41.0**	**J**	50.0	7.89	mg/L		08/21/24 10:25	08/27/24 15:31	100
Molybdenum	0.0610	U	0.500	0.0610	mg/L		08/21/24 10:25	08/27/24 15:31	100
Sodium	**2550**		50.0	18.4	mg/L		08/21/24 10:25	08/27/24 15:31	100
Lead	0.0376	U	0.100	0.0376	mg/L		08/21/24 10:25	08/27/24 15:31	100
Antimony	0.0967	U	0.200	0.0967	mg/L		08/21/24 10:25	08/27/24 15:31	100
Thallium	0.0472	U	0.100	0.0472	mg/L		08/21/24 10:25	08/27/24 15:31	100
Selenium	0.153	U	0.500	0.153	mg/L		08/21/24 10:25	08/27/24 15:31	100
Potassium	**36.6**	**J**	50.0	15.6	mg/L		08/21/24 10:25	08/27/24 15:31	100
Lithium	**0.919**		0.500	0.129	mg/L		08/21/24 10:25	08/27/24 15:31	100

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.130	U	0.200	0.130	ug/L		08/28/24 09:40	08/29/24 15:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	**221**		4.00	4.00	mg/L			08/16/24 19:06	1

Client Sample ID: EP-33

Lab Sample ID: 860-80539-3

Date Collected: 08/14/24 11:45

Matrix: Water

Date Received: 08/15/24 09:39

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**221**		4.00	4.00	mg/L			08/16/24 19:06	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/16/24 19:06	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/16/24 19:06	1
Total Dissolved Solids (SM 2540C)	**7800**		100	100	mg/L			08/21/24 12:36	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**1.99**		0.551	0.581	1.00	0.610	pCi/L	08/26/24 08:27	09/05/24 13:09	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*99.5*		*30 - 110*	*08/26/24 08:27*	*09/05/24 13:09*	*1*
Y Carrier	*73.6*		*30 - 110*	*08/26/24 08:27*	*09/05/24 13:09*	*1*

Method: SM7500 Ra B - Radium-226

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra-226	**0.810**		0.820		1.00	0.340	pCi/L	08/19/24 09:52	09/03/24 10:13	1

Client Sample ID: EP-34

Lab Sample ID: 860-80539-4

Date Collected: 08/14/24 10:45

Matrix: Water

Date Received: 08/15/24 09:39

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3920**		5.00	2.50	mg/L			08/21/24 00:43	10
Fluoride	1.00	U	5.00	1.00	mg/L			08/21/24 00:43	10
Sulfate	**3200**		5.00	2.00	mg/L			08/21/24 00:43	10

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0563	U	0.100	0.0563	mg/L		08/21/24 10:25	08/27/24 15:34	100
Boron	**34.5**		8.00	6.01	mg/L		08/21/24 10:25	08/27/24 15:34	100
Barium	0.314	U	1.00	0.314	mg/L		08/21/24 10:25	08/27/24 15:34	100
Beryllium	0.0274	U	0.100	0.0274	mg/L		08/21/24 10:25	08/27/24 15:34	100
Calcium	**474**		50.0	12.7	mg/L		08/21/24 10:25	08/27/24 15:34	100
Cadmium	0.0217	U	0.100	0.0217	mg/L		08/21/24 10:25	08/27/24 15:34	100
Chromium	0.153	U	0.200	0.153	mg/L		08/21/24 10:25	08/27/24 15:34	100
Cobalt	0.0261	U	0.0500	0.0261	mg/L		08/21/24 10:25	08/27/24 15:34	100
Magnesium	**68.6**		50.0	7.89	mg/L		08/21/24 10:25	08/27/24 15:34	100
Molybdenum	0.0610	U	0.500	0.0610	mg/L		08/21/24 10:25	08/27/24 15:34	100
Sodium	**3870**		50.0	18.4	mg/L		08/21/24 10:25	08/27/24 15:34	100
Lead	0.0376	U	0.100	0.0376	mg/L		08/21/24 10:25	08/27/24 15:34	100
Antimony	0.0967	U	0.200	0.0967	mg/L		08/21/24 10:25	08/27/24 15:34	100
Thallium	0.0472	U	0.100	0.0472	mg/L		08/21/24 10:25	08/27/24 15:34	100
Selenium	0.153	U	0.500	0.153	mg/L		08/21/24 10:25	08/27/24 15:34	100
Potassium	**47.7**	**J**	50.0	15.6	mg/L		08/21/24 10:25	08/27/24 15:34	100

Client Sample ID: EP-34

Lab Sample ID: 860-80539-4

Date Collected: 08/14/24 10:45

Matrix: Water

Date Received: 08/15/24 09:39

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	**1.31**		0.500	0.129	mg/L		08/21/24 10:25	08/27/24 15:34	100

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.130	U	0.200	0.130	ug/L		08/28/24 09:40	08/29/24 15:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	**258**		4.00	4.00	mg/L			08/16/24 18:58	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**258**		4.00	4.00	mg/L			08/16/24 18:58	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/16/24 18:58	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/16/24 18:58	1
Total Dissolved Solids (SM 2540C)	**11200**		100	100	mg/L			08/21/24 12:36	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**5.93**		0.803	0.971	1.00	0.566	pCi/L	08/26/24 08:27	09/05/24 13:09	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*104*		*30 - 110*	*08/26/24 08:27*	*09/05/24 13:09*	*1*
Y Carrier	*76.6*		*30 - 110*	*08/26/24 08:27*	*09/05/24 13:09*	*1*

Method: SM7500 Ra B - Radium-226

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra-226	**1.55**		0.680		1.00	0.170	pCi/L	08/20/24 09:29	09/13/24 15:22	1

Client Sample ID: EP-35

Lab Sample ID: 860-80539-5

Date Collected: 08/14/24 09:45

Matrix: Water

Date Received: 08/15/24 09:39

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3520**		5.00	2.50	mg/L			08/21/24 01:08	10
Fluoride	1.00	U	5.00	1.00	mg/L			08/21/24 01:08	10
Sulfate	**3280**		5.00	2.00	mg/L			08/21/24 01:08	10

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0563	U	0.100	0.0563	mg/L		08/21/24 10:25	08/27/24 15:42	100
Boron	**33.7**		8.00	6.01	mg/L		08/21/24 10:25	08/28/24 14:07	100
Barium	0.314	U	1.00	0.314	mg/L		08/21/24 10:25	08/27/24 15:42	100
Beryllium	0.0274	U	0.100	0.0274	mg/L		08/21/24 10:25	08/28/24 14:07	100
Calcium	**451**		50.0	12.7	mg/L		08/21/24 10:25	08/27/24 15:42	100
Cadmium	0.0217	U	0.100	0.0217	mg/L		08/21/24 10:25	08/27/24 15:42	100
Chromium	0.153	U	0.200	0.153	mg/L		08/21/24 10:25	08/27/24 15:42	100
Cobalt	0.0261	U	0.0500	0.0261	mg/L		08/21/24 10:25	08/27/24 15:42	100

Client Sample ID: EP-35

Lab Sample ID: 860-80539-5

Date Collected: 08/14/24 09:45

Matrix: Water

Date Received: 08/15/24 09:39

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	**79.3**		50.0	7.89	mg/L		08/21/24 10:25	08/27/24 15:42	100
Molybdenum	0.0610	U	0.500	0.0610	mg/L		08/21/24 10:25	08/27/24 15:42	100
Sodium	**3400**		50.0	18.4	mg/L		08/21/24 10:25	08/27/24 15:42	100
Lead	0.0376	U	0.100	0.0376	mg/L		08/21/24 10:25	08/27/24 15:42	100
Antimony	0.0967	U	0.200	0.0967	mg/L		08/21/24 10:25	08/27/24 15:42	100
Thallium	0.0472	U	0.100	0.0472	mg/L		08/21/24 10:25	08/27/24 15:42	100
Selenium	0.153	U	0.500	0.153	mg/L		08/21/24 10:25	08/27/24 15:42	100
Potassium	**44.0**	**J**	50.0	15.6	mg/L		08/21/24 10:25	08/27/24 15:42	100
Lithium	**1.24**		0.500	0.129	mg/L		08/21/24 10:25	08/27/24 15:42	100

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.130	U	0.200	0.130	ug/L		08/28/24 09:40	08/29/24 15:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	**204**		4.00	4.00	mg/L			08/16/24 18:49	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**204**		4.00	4.00	mg/L			08/16/24 18:49	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/16/24 18:49	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/16/24 18:49	1
Total Dissolved Solids (SM 2540C)	**10900**		100	100	mg/L			08/21/24 12:36	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**1.87**		0.501	0.530	1.00	0.522	pCi/L	08/26/24 08:27	09/05/24 13:09	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*99.7*		*30 - 110*	*08/26/24 08:27*	*09/05/24 13:09*	*1*
Y Carrier	*77.8*		*30 - 110*	*08/26/24 08:27*	*09/05/24 13:09*	*1*

Method: SM7500 Ra B - Radium-226

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra-226	**0.610**		0.290		1.00	0.160	pCi/L	08/20/24 09:29	09/09/24 10:29	1

Client Sample ID: EP-36

Lab Sample ID: 860-80539-6

Date Collected: 08/14/24 08:15

Matrix: Water

Date Received: 08/15/24 09:39

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3440**		5.00	2.50	mg/L			08/21/24 01:33	10
Fluoride	1.00	U	5.00	1.00	mg/L			08/21/24 01:33	10
Sulfate	**2420**		5.00	2.00	mg/L			08/21/24 01:33	10

Client: GSI Environmental Inc
Project/Site: Equilization Pond

Job ID: 860-80539-1

Client Sample ID: EP-36

Date Collected: 08/14/24 08:15
Date Received: 08/15/24 09:39

Lab Sample ID: 860-80539-6

Matrix: Water

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0563	U	0.100	0.0563	mg/L		08/21/24 10:25	08/27/24 15:45	100
Boron	**40.1**		8.00	6.01	mg/L		08/21/24 10:25	08/28/24 14:10	100
Barium	0.314	U	1.00	0.314	mg/L		08/21/24 10:25	08/27/24 15:45	100
Beryllium	0.0274	U	0.100	0.0274	mg/L		08/21/24 10:25	08/28/24 14:10	100
Calcium	**555**		50.0	12.7	mg/L		08/21/24 10:25	08/27/24 15:45	100
Cadmium	0.0217	U	0.100	0.0217	mg/L		08/21/24 10:25	08/27/24 15:45	100
Chromium	0.153	U	0.200	0.153	mg/L		08/21/24 10:25	08/27/24 15:45	100
Cobalt	0.0261	U	0.0500	0.0261	mg/L		08/21/24 10:25	08/27/24 15:45	100
Magnesium	**110**		50.0	7.89	mg/L		08/21/24 10:25	08/27/24 15:45	100
Molybdenum	0.0610	U	0.500	0.0610	mg/L		08/21/24 10:25	08/27/24 15:45	100
Sodium	**2770**		50.0	18.4	mg/L		08/21/24 10:25	08/27/24 15:45	100
Lead	0.0376	U	0.100	0.0376	mg/L		08/21/24 10:25	08/27/24 15:45	100
Antimony	0.0967	U	0.200	0.0967	mg/L		08/21/24 10:25	08/27/24 15:45	100
Thallium	0.0472	U	0.100	0.0472	mg/L		08/21/24 10:25	08/27/24 15:45	100
Selenium	0.153	U	0.500	0.153	mg/L		08/21/24 10:25	08/27/24 15:45	100
Potassium	**46.6**	**J**	50.0	15.6	mg/L		08/21/24 10:25	08/27/24 15:45	100
Lithium	**1.28**		0.500	0.129	mg/L		08/21/24 10:25	08/27/24 15:45	100

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.130	U	0.200	0.130	ug/L		08/28/24 09:40	08/29/24 15:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	**169**		4.00	4.00	mg/L			08/16/24 17:24	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**169**		4.00	4.00	mg/L			08/16/24 17:24	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/16/24 17:24	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/16/24 17:24	1
Total Dissolved Solids (SM 2540C)	**9600**		100	100	mg/L			08/21/24 12:36	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**3.76**		0.665	0.750	1.00	0.555	pCi/L	08/26/24 08:27	09/05/24 13:09	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*98.0*		*30 - 110*	*08/26/24 08:27*	*09/05/24 13:09*	*1*
Y Carrier	*81.9*		*30 - 110*	*08/26/24 08:27*	*09/05/24 13:09*	*1*

Method: SM7500 Ra B - Radium-226

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra-226	**0.780**		0.540		1.00	0.440	pCi/L	08/20/24 16:33	09/11/24 14:07	1

Client Sample ID: EP-37
Date Collected: 08/14/24 10:50
Date Received: 08/15/24 09:39

Lab Sample ID: 860-80539-7
Matrix: Water

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2920**		5.00	2.50	mg/L			08/21/24 02:22	10
Fluoride	1.00	U	5.00	1.00	mg/L			08/21/24 02:22	10
Sulfate	**2640**		5.00	2.00	mg/L			08/21/24 02:22	10

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0563	U	0.100	0.0563	mg/L		08/21/24 10:25	08/27/24 15:48	100
Boron	**10.8**		8.00	6.01	mg/L		08/21/24 10:25	08/28/24 14:13	100
Barium	0.314	U	1.00	0.314	mg/L		08/21/24 10:25	08/27/24 15:48	100
Beryllium	**0.179**		0.100	0.0274	mg/L		08/21/24 10:25	08/28/24 14:13	100
Calcium	**401**		50.0	12.7	mg/L		08/21/24 10:25	08/27/24 15:48	100
Cadmium	0.0217	U	0.100	0.0217	mg/L		08/21/24 10:25	08/27/24 15:48	100
Chromium	0.153	U	0.200	0.153	mg/L		08/21/24 10:25	08/27/24 15:48	100
Cobalt	0.0261	U	0.0500	0.0261	mg/L		08/21/24 10:25	08/27/24 15:48	100
Magnesium	**71.0**		50.0	7.89	mg/L		08/21/24 10:25	08/27/24 15:48	100
Molybdenum	0.0610	U	0.500	0.0610	mg/L		08/21/24 10:25	08/27/24 15:48	100
Sodium	**2670**		50.0	18.4	mg/L		08/21/24 10:25	08/27/24 15:48	100
Lead	0.0376	U	0.100	0.0376	mg/L		08/21/24 10:25	08/27/24 15:48	100
Antimony	0.0967	U	0.200	0.0967	mg/L		08/21/24 10:25	08/27/24 15:48	100
Thallium	0.0472	U	0.100	0.0472	mg/L		08/21/24 10:25	08/27/24 15:48	100
Selenium	0.153	U	0.500	0.153	mg/L		08/21/24 10:25	08/27/24 15:48	100
Potassium	**46.8**	**J**	50.0	15.6	mg/L		08/21/24 10:25	08/27/24 15:48	100
Lithium	**1.29**		0.500	0.129	mg/L		08/21/24 10:25	08/27/24 15:48	100

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.130	U	0.200	0.130	ug/L		08/28/24 09:40	08/29/24 15:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	**199**		4.00	4.00	mg/L			08/16/24 17:16	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**199**		4.00	4.00	mg/L			08/16/24 17:16	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/16/24 17:16	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/16/24 17:16	1
Total Dissolved Solids (SM 2540C)	**8930**		100	100	mg/L			08/21/24 12:36	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**3.81**		0.709	0.791	1.00	0.684	pCi/L	08/26/24 08:27	09/05/24 13:10	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*103*		*30 - 110*	*08/26/24 08:27*	*09/05/24 13:10*	*1*
Y Carrier	*75.9*		*30 - 110*	*08/26/24 08:27*	*09/05/24 13:10*	*1*

Client Sample ID: EP-37

Lab Sample ID: 860-80539-7

Date Collected: 08/14/24 10:50

Matrix: Water

Date Received: 08/15/24 09:39

Method: SM7500 Ra B - Radium-226

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra-226	**0.990**		0.800		1.00	0.310	pCi/L	08/20/24 11:42	09/10/24 09:25	1

Client Sample ID: EP-38

Lab Sample ID: 860-80539-8

Date Collected: 08/14/24 11:15

Matrix: Water

Date Received: 08/15/24 09:39

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1260**		5.00	2.50	mg/L			08/21/24 02:47	10
Fluoride	1.00	U	5.00	1.00	mg/L			08/21/24 02:47	10
Sulfate	**2360**		5.00	2.00	mg/L			08/21/24 02:47	10

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0563	U	0.100	0.0563	mg/L		08/21/24 10:25	08/27/24 15:50	100
Boron	6.01	U ^+	8.00	6.01	mg/L		08/21/24 10:25	08/27/24 15:50	100
Barium	0.314	U	1.00	0.314	mg/L		08/21/24 10:25	08/27/24 15:50	100
Beryllium	0.0274	U	0.100	0.0274	mg/L		08/21/24 10:25	08/28/24 14:16	100
Calcium	**442**		50.0	12.7	mg/L		08/21/24 10:25	08/27/24 15:50	100
Cadmium	0.0217	U	0.100	0.0217	mg/L		08/21/24 10:25	08/27/24 15:50	100
Chromium	0.153	U	0.200	0.153	mg/L		08/21/24 10:25	08/27/24 15:50	100
Cobalt	0.0261	U	0.0500	0.0261	mg/L		08/21/24 10:25	08/27/24 15:50	100
Magnesium	**66.4**		50.0	7.89	mg/L		08/21/24 10:25	08/27/24 15:50	100
Molybdenum	0.0610	U	0.500	0.0610	mg/L		08/21/24 10:25	08/27/24 15:50	100
Sodium	**1340**		50.0	18.4	mg/L		08/21/24 10:25	08/27/24 15:50	100
Lead	0.0376	U	0.100	0.0376	mg/L		08/21/24 10:25	08/27/24 15:50	100
Antimony	0.0967	U	0.200	0.0967	mg/L		08/21/24 10:25	08/27/24 15:50	100
Thallium	0.0472	U	0.100	0.0472	mg/L		08/21/24 10:25	08/27/24 15:50	100
Selenium	0.153	U	0.500	0.153	mg/L		08/21/24 10:25	08/27/24 15:50	100
Potassium	**37.0**	**J**	50.0	15.6	mg/L		08/21/24 10:25	08/27/24 15:50	100
Lithium	**0.843**		0.500	0.129	mg/L		08/21/24 10:25	08/27/24 15:50	100

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.130	U	0.200	0.130	ug/L		08/28/24 09:40	08/29/24 15:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	**60.3**		4.00	4.00	mg/L			08/16/24 16:52	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**60.3**		4.00	4.00	mg/L			08/16/24 16:52	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/16/24 16:52	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/16/24 16:52	1
Total Dissolved Solids (SM 2540C)	**5460**		40.0	40.0	mg/L			08/21/24 12:36	1

Client Sample ID: EP-38

Lab Sample ID: 860-80539-8

Date Collected: 08/14/24 11:15

Matrix: Water

Date Received: 08/15/24 09:39

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.21		0.587	0.597	1.00	0.840	pCi/L	08/26/24 08:27	09/05/24 13:10	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.3*		*30 - 110*	*08/26/24 08:27*	*09/05/24 13:10*	*1*
Y Carrier	*75.5*		*30 - 110*	*08/26/24 08:27*	*09/05/24 13:10*	*1*

Method: SM7500 Ra B - Radium-226

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra-226	0.900		0.490		1.00	0.290	pCi/L	08/20/24 11:42	09/05/24 11:34	1

Client Sample ID: MW-04

Lab Sample ID: 860-80539-9

Date Collected: 08/14/24 10:15

Matrix: Water

Date Received: 08/15/24 09:39

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1580		5.00	2.50	mg/L			08/21/24 03:12	10
Fluoride	1.00	U	5.00	1.00	mg/L			08/21/24 03:12	10
Sulfate	2240		5.00	2.00	mg/L			08/21/24 03:12	10

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0563	U	0.100	0.0563	mg/L		08/21/24 10:25	08/27/24 15:53	100
Boron	12.7		8.00	6.01	mg/L		08/21/24 10:25	08/28/24 14:19	100
Barium	0.314	U	1.00	0.314	mg/L		08/21/24 10:25	08/27/24 15:53	100
Beryllium	0.0274	U	0.100	0.0274	mg/L		08/21/24 10:25	08/28/24 14:19	100
Calcium	320		50.0	12.7	mg/L		08/21/24 10:25	08/27/24 15:53	100
Cadmium	0.0217	U	0.100	0.0217	mg/L		08/21/24 10:25	08/27/24 15:53	100
Chromium	0.153	U	0.200	0.153	mg/L		08/21/24 10:25	08/27/24 15:53	100
Cobalt	0.0261	U	0.0500	0.0261	mg/L		08/21/24 10:25	08/27/24 15:53	100
Magnesium	60.8		50.0	7.89	mg/L		08/21/24 10:25	08/27/24 15:53	100
Molybdenum	0.0610	U	0.500	0.0610	mg/L		08/21/24 10:25	08/27/24 15:53	100
Sodium	1710		50.0	18.4	mg/L		08/21/24 10:25	08/27/24 15:53	100
Lead	0.0376	U	0.100	0.0376	mg/L		08/21/24 10:25	08/27/24 15:53	100
Antimony	0.0967	U	0.200	0.0967	mg/L		08/21/24 10:25	08/27/24 15:53	100
Thallium	0.0472	U	0.100	0.0472	mg/L		08/21/24 10:25	08/27/24 15:53	100
Selenium	0.153	U	0.500	0.153	mg/L		08/21/24 10:25	08/27/24 15:53	100
Potassium	32.9	J	50.0	15.6	mg/L		08/21/24 10:25	08/27/24 15:53	100
Lithium	0.810		0.500	0.129	mg/L		08/21/24 10:25	08/27/24 15:53	100

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.130	U	0.200	0.130	ug/L		08/28/24 09:41	08/29/24 15:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	142		4.00	4.00	mg/L			08/16/24 16:37	1

Client Sample ID: MW-04

Lab Sample ID: 860-80539-9

Date Collected: 08/14/24 10:15

Matrix: Water

Date Received: 08/15/24 09:39

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**142**		4.00	4.00	mg/L			08/16/24 16:37	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/16/24 16:37	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/16/24 16:37	1
Total Dissolved Solids (SM 2540C)	**5530**		40.0	40.0	mg/L			08/21/24 12:36	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**8.14**		1.00	1.25	1.00	0.692	pCi/L	08/26/24 08:27	09/05/24 13:09	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*94.2*		*30 - 110*	*08/26/24 08:27*	*09/05/24 13:09*	*1*
Y Carrier	*71.8*		*30 - 110*	*08/26/24 08:27*	*09/05/24 13:09*	*1*

Method: SM7500 Ra B - Radium-226

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra-226	**1.08**		0.520		1.00	0.180	pCi/L	08/19/24 10:42	09/16/24 11:18	1

Client Sample ID: EB-02

Lab Sample ID: 860-80539-10

Date Collected: 08/14/24 10:40

Matrix: Water

Date Received: 08/15/24 09:39

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.50	U	5.00	2.50	mg/L			08/21/24 03:37	10
Fluoride	1.00	U	5.00	1.00	mg/L			08/21/24 03:37	10
Sulfate	2.00	U	5.00	2.00	mg/L			08/21/24 03:37	10

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.000563	U	0.00100	0.000563	mg/L		08/21/24 10:25	08/27/24 14:07	1
Boron	0.0601	U	0.0800	0.0601	mg/L		08/21/24 10:25	08/27/24 14:07	1
Barium	0.00314	U	0.0100	0.00314	mg/L		08/21/24 10:25	08/27/24 14:07	1
Beryllium	0.000274	U	0.00100	0.000274	mg/L		08/21/24 10:25	08/27/24 14:07	1
Calcium	0.127	U	0.500	0.127	mg/L		08/21/24 10:25	08/27/24 14:07	1
Cadmium	0.000217	U	0.00100	0.000217	mg/L		08/21/24 10:25	08/27/24 14:07	1
Chromium	0.00153	U	0.00200	0.00153	mg/L		08/21/24 10:25	08/27/24 14:07	1
Cobalt	0.000261	U	0.000500	0.000261	mg/L		08/21/24 10:25	08/27/24 14:07	1
Magnesium	0.0789	U	0.500	0.0789	mg/L		08/21/24 10:25	08/27/24 14:07	1
Molybdenum	0.000610	U	0.00500	0.000610	mg/L		08/21/24 10:25	08/27/24 14:07	1
Sodium	0.184	U	0.500	0.184	mg/L		08/21/24 10:25	08/27/24 14:07	1
Lead	0.000376	U	0.00100	0.000376	mg/L		08/21/24 10:25	08/27/24 14:07	1
Antimony	0.000967	U	0.00200	0.000967	mg/L		08/21/24 10:25	08/27/24 14:07	1
Thallium	0.000472	U	0.00100	0.000472	mg/L		08/21/24 10:25	08/27/24 14:07	1
Selenium	0.00153	U	0.00500	0.00153	mg/L		08/21/24 10:25	08/27/24 14:07	1
Potassium	0.156	U	0.500	0.156	mg/L		08/21/24 10:25	08/27/24 14:07	1

Client Sample ID: EB-02

Lab Sample ID: 860-80539-10

Date Collected: 08/14/24 10:40

Matrix: Water

Date Received: 08/15/24 09:39

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.00129	U	0.00500	0.00129	mg/L		08/21/24 10:25	08/27/24 14:07	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.130	U	0.200	0.130	ug/L		08/28/24 09:41	08/29/24 15:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/16/24 01:24	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/16/24 01:24	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/16/24 01:24	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/16/24 01:24	1
Total Dissolved Solids (SM 2540C)	5.00	U	5.00	5.00	mg/L			08/21/24 12:36	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.353	U	0.346	0.348	1.00	0.555	pCi/L	08/26/24 08:27	09/05/24 13:09	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*98.5*		*30 - 110*	*08/26/24 08:27*	*09/05/24 13:09*	*1*
Y Carrier	*80.4*		*30 - 110*	*08/26/24 08:27*	*09/05/24 13:09*	*1*

Method: SM7500 Ra B - Radium-226

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra-226	**0.250**		0.240		1.00	0.230	pCi/L	08/19/24 10:42	09/12/24 14:17	1

Client Sample ID: DUP-03

Lab Sample ID: 860-80539-11

Date Collected: 08/14/24 12:00

Matrix: Water

Date Received: 08/15/24 09:39

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2100**		5.00	2.50	mg/L			08/21/24 04:02	10
Fluoride	1.00	U	5.00	1.00	mg/L			08/21/24 04:02	10
Sulfate	**3130**		5.00	2.00	mg/L			08/21/24 04:02	10

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0563	U	0.100	0.0563	mg/L		08/21/24 10:25	08/27/24 15:56	100
Boron	**44.0**		8.00	6.01	mg/L		08/21/24 10:25	08/28/24 14:21	100
Barium	0.314	U	1.00	0.314	mg/L		08/21/24 10:25	08/27/24 15:56	100
Beryllium	0.0274	U	0.100	0.0274	mg/L		08/21/24 10:25	08/28/24 14:21	100
Calcium	**455**		50.0	12.7	mg/L		08/21/24 10:25	08/27/24 15:56	100
Cadmium	0.0217	U	0.100	0.0217	mg/L		08/21/24 10:25	08/27/24 15:56	100
Chromium	0.153	U	0.200	0.153	mg/L		08/21/24 10:25	08/27/24 15:56	100
Cobalt	0.0261	U	0.0500	0.0261	mg/L		08/21/24 10:25	08/27/24 15:56	100

Client Sample ID: DUP-03

Date Collected: 08/14/24 12:00
Date Received: 08/15/24 09:39

Lab Sample ID: 860-80539-11
Matrix: Water

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	**39.7**	**J**	50.0	7.89	mg/L		08/21/24 10:25	08/27/24 15:56	100
Molybdenum	0.0610	U	0.500	0.0610	mg/L		08/21/24 10:25	08/27/24 15:56	100
Sodium	**2500**		50.0	18.4	mg/L		08/21/24 10:25	08/27/24 15:56	100
Lead	0.0376	U	0.100	0.0376	mg/L		08/21/24 10:25	08/27/24 15:56	100
Antimony	0.0967	U	0.200	0.0967	mg/L		08/21/24 10:25	08/27/24 15:56	100
Thallium	0.0472	U	0.100	0.0472	mg/L		08/21/24 10:25	08/27/24 15:56	100
Selenium	0.153	U	0.500	0.153	mg/L		08/21/24 10:25	08/27/24 15:56	100
Potassium	**34.0**	**J**	50.0	15.6	mg/L		08/21/24 10:25	08/27/24 15:56	100
Lithium	**0.939**		0.500	0.129	mg/L		08/21/24 10:25	08/27/24 15:56	100

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.130	U	0.200	0.130	ug/L		08/28/24 09:41	08/29/24 15:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	**235**		4.00	4.00	mg/L			08/16/24 16:45	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**235**		4.00	4.00	mg/L			08/16/24 16:45	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/16/24 16:45	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/16/24 16:45	1
Total Dissolved Solids (SM 2540C)	**8600**		100	100	mg/L			08/21/24 12:36	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**2.20**	**G**	0.855	0.879	1.00	1.11	pCi/L	08/26/24 08:27	09/05/24 13:10	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*94.2*		*30 - 110*	*08/26/24 08:27*	*09/05/24 13:10*	*1*
Y Carrier	*79.3*		*30 - 110*	*08/26/24 08:27*	*09/05/24 13:10*	*1*

Client Sample ID: FB-03

Date Collected: 08/14/24 09:00
Date Received: 08/15/24 09:39

Lab Sample ID: 860-80539-12
Matrix: Water

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.50	U	5.00	2.50	mg/L			08/21/24 04:51	10
Fluoride	1.00	U	5.00	1.00	mg/L			08/21/24 04:51	10
Sulfate	2.00	U	5.00	2.00	mg/L			08/21/24 04:51	10

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.000563	U	0.00100	0.000563	mg/L		08/21/24 10:25	08/27/24 14:10	1
Boron	0.0601	U	0.0800	0.0601	mg/L		08/21/24 10:25	08/27/24 14:10	1
Barium	**0.00702**	**J**	0.0100	0.00314	mg/L		08/21/24 10:25	08/27/24 14:10	1
Beryllium	0.000274	U	0.00100	0.000274	mg/L		08/21/24 10:25	08/27/24 14:10	1
Calcium	**1.88**		0.500	0.127	mg/L		08/21/24 10:25	08/27/24 14:10	1
Cadmium	0.000217	U	0.00100	0.000217	mg/L		08/21/24 10:25	08/27/24 14:10	1

Client Sample ID: FB-03
Date Collected: 08/14/24 09:00
Date Received: 08/15/24 09:39

Lab Sample ID: 860-80539-12
Matrix: Water

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	**0.00176**	**J**	0.00200	0.00153	mg/L		08/21/24 10:25	08/27/24 14:10	1
Cobalt	0.000261	U	0.000500	0.000261	mg/L		08/21/24 10:25	08/27/24 14:10	1
Magnesium	**0.432**	**J**	0.500	0.0789	mg/L		08/21/24 10:25	08/27/24 14:10	1
Molybdenum	0.000610	U	0.00500	0.000610	mg/L		08/21/24 10:25	08/27/24 14:10	1
Sodium	**3.44**		0.500	0.184	mg/L		08/21/24 10:25	08/27/24 14:10	1
Lead	**0.000955**	**J**	0.00100	0.000376	mg/L		08/21/24 10:25	08/27/24 14:10	1
Antimony	0.000967	U	0.00200	0.000967	mg/L		08/21/24 10:25	08/27/24 14:10	1
Thallium	0.000472	U	0.00100	0.000472	mg/L		08/21/24 10:25	08/27/24 14:10	1
Selenium	0.00153	U	0.00500	0.00153	mg/L		08/21/24 10:25	08/27/24 14:10	1
Potassium	0.156	U	0.500	0.156	mg/L		08/21/24 10:25	08/27/24 14:10	1
Lithium	**0.00151**	**J**	0.00500	0.00129	mg/L		08/21/24 10:25	08/27/24 14:10	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.130	U	0.200	0.130	ug/L		08/28/24 09:41	08/29/24 15:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	**34.7**		4.00	4.00	mg/L			08/16/24 17:50	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**25.2**		4.00	4.00	mg/L			08/16/24 17:50	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	**9.47**		4.00	4.00	mg/L			08/16/24 17:50	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			08/16/24 17:50	1
Total Dissolved Solids (SM 2540C)	**17.5**		5.00	5.00	mg/L			08/21/24 12:36	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**0.823**		0.405	0.412	1.00	0.553	pCi/L	08/26/24 08:27	09/05/24 13:10	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*97.7*		*30 - 110*	*08/26/24 08:27*	*09/05/24 13:10*	*1*
Y Carrier	*77.8*		*30 - 110*	*08/26/24 08:27*	*09/05/24 13:10*	*1*

Method: SM7500 Ra B - Radium-226

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra-226	0.140	U	0.400		1.00	0.550	pCi/L	08/20/24 16:33	09/11/24 14:07	1

Tracer/Carrier Summary

Client: GSI Environmental Inc
Project/Site: Equilization Pond

Job ID: 860-80539-1

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)									
		Ba	Y								
Lab Sample ID	Client Sample ID	(30-110)	(30-110)								
860-80539-1	EP-31	99.5	78.1								
860-80539-1 MS	EP-31	102	80.0								
860-80539-1 MSD	EP-31	101	77.4								
860-80539-2	EP-32	96.2	76.6								
860-80539-3	EP-33	99.5	73.6								
860-80539-4	EP-34	104	76.6								
860-80539-5	EP-35	99.7	77.8								
860-80539-6	EP-36	98.0	81.9								
860-80539-7	EP-37	103	75.9								
860-80539-8	EP-38	89.3	75.5								
860-80539-9	MW-04	94.2	71.8								
860-80539-10	EB-02	98.5	80.4								
860-80539-11	DUP-03	94.2	79.3								
860-80539-12	FB-03	97.7	77.8								
LCS 160-676627/2-A	Lab Control Sample	98.2	83.4								
MB 160-676627/1-A	Method Blank	99.5	83.0								

Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-182530/3
Matrix: Water
Analysis Batch: 182530

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.250	U	0.500	0.250	mg/L			08/20/24 11:03	1
Fluoride	0.100	U	0.500	0.100	mg/L			08/20/24 11:03	1
Sulfate	0.200	U	0.500	0.200	mg/L			08/20/24 11:03	1

Lab Sample ID: MB 860-182530/52
Matrix: Water
Analysis Batch: 182530

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.250	U	0.500	0.250	mg/L			08/20/24 22:02	1
Fluoride	0.100	U	0.500	0.100	mg/L			08/20/24 22:02	1
Sulfate	0.200	U	0.500	0.200	mg/L			08/20/24 22:02	1

Lab Sample ID: LCS 860-182530/53
Matrix: Water
Analysis Batch: 182530

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			10.0	9.996		mg/L		100	90 - 110		
Fluoride			10.0	9.871		mg/L		99	90 - 110		
Sulfate			10.0	9.983		mg/L		100	90 - 110		

Lab Sample ID: LCSD 860-182530/54
Matrix: Water
Analysis Batch: 182530

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			10.0	9.948		mg/L		99	90 - 110	0	20
Fluoride			10.0	9.957		mg/L		100	90 - 110	1	20
Sulfate			10.0	9.968		mg/L		100	90 - 110	0	20

Lab Sample ID: LLCS 860-182530/7
Matrix: Water
Analysis Batch: 182530

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

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			0.500	0.4915	J	mg/L		98	50 - 150		
Fluoride			0.500	0.3430	J	mg/L		69	50 - 150		
Sulfate			0.500	0.4949	J	mg/L		99	50 - 150		

Lab Sample ID: 860-80539-1 MS
Matrix: Water
Analysis Batch: 182530

Client Sample ID: EP-31
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	11.7	F1	100	123.1	F1	mg/L		111	90 - 110		
Fluoride	1.00	U F1	100	50.60	F1	mg/L		51	90 - 110		
Sulfate	310	F1	100	434.1	F1	mg/L		124	90 - 110		

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 860-80539-1 MSD
Matrix: Water
Analysis Batch: 182530

Client Sample ID: EP-31
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	11.7	F1	100	123.2	F1	mg/L		111	90 - 110	0	15
Fluoride	1.00	U F1	100	54.71	F1	mg/L		55	90 - 110	8	15
Sulfate	310	F1	100	435.4	F1	mg/L		126	90 - 110	0	15

Method: EPA 6020A - Metals (ICP/MS)

Lab Sample ID: MB 180-477270/1-A
Matrix: Water
Analysis Batch: 477804

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 477270

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.000563	U	0.00100	0.000563	mg/L		08/21/24 10:25	08/27/24 13:56	1
Boron	0.0601	U	0.0800	0.0601	mg/L		08/21/24 10:25	08/27/24 13:56	1
Barium	0.00314	U	0.0100	0.00314	mg/L		08/21/24 10:25	08/27/24 13:56	1
Beryllium	0.000274	U	0.00100	0.000274	mg/L		08/21/24 10:25	08/27/24 13:56	1
Calcium	0.127	U	0.500	0.127	mg/L		08/21/24 10:25	08/27/24 13:56	1
Cadmium	0.000217	U	0.00100	0.000217	mg/L		08/21/24 10:25	08/27/24 13:56	1
Chromium	0.00153	U	0.00200	0.00153	mg/L		08/21/24 10:25	08/27/24 13:56	1
Cobalt	0.000261	U	0.000500	0.000261	mg/L		08/21/24 10:25	08/27/24 13:56	1
Magnesium	0.0789	U	0.500	0.0789	mg/L		08/21/24 10:25	08/27/24 13:56	1
Molybdenum	0.000610	U	0.00500	0.000610	mg/L		08/21/24 10:25	08/27/24 13:56	1
Sodium	0.184	U	0.500	0.184	mg/L		08/21/24 10:25	08/27/24 13:56	1
Lead	0.000376	U	0.00100	0.000376	mg/L		08/21/24 10:25	08/27/24 13:56	1
Antimony	0.000967	U	0.00200	0.000967	mg/L		08/21/24 10:25	08/27/24 13:56	1
Thallium	0.000472	U	0.00100	0.000472	mg/L		08/21/24 10:25	08/27/24 13:56	1
Selenium	0.00153	U	0.00500	0.00153	mg/L		08/21/24 10:25	08/27/24 13:56	1
Potassium	0.156	U	0.500	0.156	mg/L		08/21/24 10:25	08/27/24 13:56	1
Lithium	0.00129	U	0.00500	0.00129	mg/L		08/21/24 10:25	08/27/24 13:56	1

Lab Sample ID: LCS 180-477270/2-A
Matrix: Water
Analysis Batch: 477804

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 477270

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	1.00	1.082		mg/L		108	80 - 120
Boron	0.250	0.2665		mg/L		107	80 - 120
Barium	1.00	1.067		mg/L		107	80 - 120
Beryllium	0.500	0.5283		mg/L		106	80 - 120
Calcium	25.0	28.49		mg/L		114	80 - 120
Cadmium	0.500	0.5493		mg/L		110	80 - 120
Chromium	0.500	0.5477		mg/L		110	80 - 120
Cobalt	0.500	0.5373		mg/L		107	80 - 120
Magnesium	25.0	27.12		mg/L		108	80 - 120
Molybdenum	0.500	0.5529		mg/L		111	80 - 120
Sodium	25.0	27.84		mg/L		111	80 - 120
Lead	0.500	0.5599		mg/L		112	80 - 120
Antimony	0.250	0.2861		mg/L		114	80 - 120
Thallium	1.00	1.141		mg/L		114	80 - 120
Selenium	1.00	1.070		mg/L		107	80 - 120

Method: EPA 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 180-477270/2-A
Matrix: Water
Analysis Batch: 477804

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 477270

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Potassium			25.0	26.49		mg/L		106	80 - 120		
Lithium			0.500	0.5339		mg/L		107	80 - 120		

Lab Sample ID: 860-80539-1 MS
Matrix: Water
Analysis Batch: 477804

Client Sample ID: EP-31
Prep Type: Total Recoverable
Prep Batch: 477270

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Arsenic	0.0563	U	1.00	1.108		mg/L		111	75 - 125		
Boron	6.19	J	0.250	6.01	U 4	mg/L		0	75 - 125		
Barium	0.314	U F2 F1	1.00	1.353	F1	mg/L		135	75 - 125		
Beryllium	0.0712	J	0.500	0.5755		mg/L		101	75 - 125		
Calcium	490		25.0	530.9	4	mg/L		163	75 - 125		
Cadmium	0.0217	U	0.500	0.5564		mg/L		111	75 - 125		
Chromium	0.153	U	0.500	0.5251		mg/L		105	75 - 125		
Cobalt	0.0991		0.500	0.6433		mg/L		109	75 - 125		
Magnesium	45.3	J	25.0	74.49		mg/L		117	75 - 125		
Molybdenum	0.0610	U	0.500	0.5338		mg/L		107	75 - 125		
Sodium	964		25.0	997.5	4	mg/L		136	75 - 125		
Lead	0.0376	U	0.500	0.5775		mg/L		116	75 - 125		
Antimony	0.0967	U	0.250	0.2561		mg/L		102	75 - 125		
Thallium	0.0472	U	1.00	1.109		mg/L		111	75 - 125		
Selenium	0.153	U	1.00	1.065		mg/L		106	75 - 125		
Potassium	39.9	J	25.0	61.91		mg/L		88	75 - 125		
Lithium	0.700		0.500	1.232		mg/L		106	75 - 125		

Lab Sample ID: 860-80539-1 MSD
Matrix: Water
Analysis Batch: 477804

Client Sample ID: EP-31
Prep Type: Total Recoverable
Prep Batch: 477270

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	0.0563	U	1.00	1.109		mg/L		111	75 - 125	0	20
Boron	6.19	J	0.250	6.01	U 4	mg/L		0	75 - 125	NC	20
Barium	0.314	U F2 F1	1.00	1.004	F2	mg/L		100	75 - 125	30	20
Beryllium	0.0712	J	0.500	0.5954		mg/L		105	75 - 125	3	20
Calcium	490		25.0	499.0	4	mg/L		35	75 - 125	6	20
Cadmium	0.0217	U	0.500	0.5712		mg/L		114	75 - 125	3	20
Chromium	0.153	U	0.500	0.5511		mg/L		110	75 - 125	5	20
Cobalt	0.0991		0.500	0.6560		mg/L		111	75 - 125	2	20
Magnesium	45.3	J	25.0	72.43		mg/L		108	75 - 125	3	20
Molybdenum	0.0610	U	0.500	0.6136		mg/L		123	75 - 125	14	20
Sodium	964		25.0	970.9	4	mg/L		29	75 - 125	3	20
Lead	0.0376	U	0.500	0.5733		mg/L		115	75 - 125	1	20
Antimony	0.0967	U	0.250	0.2615		mg/L		105	75 - 125	2	20
Thallium	0.0472	U	1.00	1.123		mg/L		112	75 - 125	1	20
Selenium	0.153	U	1.00	1.122		mg/L		112	75 - 125	5	20
Potassium	39.9	J	25.0	64.42		mg/L		98	75 - 125	4	20
Lithium	0.700		0.500	1.276		mg/L		115	75 - 125	4	20

Method: EPA 7470A - Mercury (CVAA)

Lab Sample ID: MB 180-477829/1-A
Matrix: Water
Analysis Batch: 477977

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 477829

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.130	U	0.200	0.130	ug/L		08/28/24 09:40	08/29/24 15:15	1

Lab Sample ID: LCS 180-477829/2-A
Matrix: Water
Analysis Batch: 477977

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 477829

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	2.50	2.685		ug/L		107	80 - 120

Lab Sample ID: 860-80539-1 MS
Matrix: Water
Analysis Batch: 477977

Client Sample ID: EP-31
Prep Type: Total/NA
Prep Batch: 477829

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.130	U	1.00	1.083		ug/L		108	75 - 125

Lab Sample ID: 860-80539-1 MSD
Matrix: Water
Analysis Batch: 477977

Client Sample ID: EP-31
Prep Type: Total/NA
Prep Batch: 477829

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.130	U	1.00	1.073		ug/L		107	75 - 125	1	20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-181950/39
Matrix: Water
Analysis Batch: 181950

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	4.00	U	4.00	4.00	mg/L			08/15/24 22:29	1
Bicarbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			08/15/24 22:29	1
Carbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			08/15/24 22:29	1
Hydroxide Alkalinity	4.00	U	4.00	4.00	mg/L			08/15/24 22:29	1

Lab Sample ID: LCS 860-181950/40
Matrix: Water
Analysis Batch: 181950

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity	250	250.3		mg/L		100	85 - 115

Lab Sample ID: LCSD 860-181950/41
Matrix: Water
Analysis Batch: 181950

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Alkalinity	250	252.2		mg/L		101	85 - 115	1	20

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: MB 860-182148/48
Matrix: Water
Analysis Batch: 182148

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	4.00	U	4.00	4.00	mg/L			08/16/24 15:44	1
Bicarbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			08/16/24 15:44	1
Carbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			08/16/24 15:44	1
Hydroxide Alkalinity	4.00	U	4.00	4.00	mg/L			08/16/24 15:44	1

Lab Sample ID: LCS 860-182148/49
Matrix: Water
Analysis Batch: 182148

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity	250	242.4		mg/L		97	85 - 115

Lab Sample ID: LCSD 860-182148/50
Matrix: Water
Analysis Batch: 182148

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Alkalinity	250	245.3		mg/L		98	85 - 115	1	20

Lab Sample ID: MB 860-182179/3
Matrix: Water
Analysis Batch: 182179

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	4.00	U	4.00	4.00	mg/L			08/17/24 19:30	1
Bicarbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			08/17/24 19:30	1
Carbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			08/17/24 19:30	1
Hydroxide Alkalinity	4.00	U	4.00	4.00	mg/L			08/17/24 19:30	1

Lab Sample ID: LCS 860-182179/4
Matrix: Water
Analysis Batch: 182179

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity	250	241.2		mg/L		96	85 - 115

Lab Sample ID: LCSD 860-182179/5
Matrix: Water
Analysis Batch: 182179

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Alkalinity	250	238.8		mg/L		96	85 - 115	1	20

Lab Sample ID: MB 860-182558/4
Matrix: Water
Analysis Batch: 182558

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	4.00	U	4.00	4.00	mg/L			08/19/24 12:31	1
Bicarbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			08/19/24 12:31	1

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: MB 860-182558/4
Matrix: Water
Analysis Batch: 182558

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			08/19/24 12:31	1
Hydroxide Alkalinity	4.00	U	4.00	4.00	mg/L			08/19/24 12:31	1

Lab Sample ID: LCS 860-182558/5
Matrix: Water
Analysis Batch: 182558

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Alkalinity			250	239.5		mg/L		96	85 - 115		

Lab Sample ID: LCSD 860-182558/6
Matrix: Water
Analysis Batch: 182558

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Alkalinity			250	241.6		mg/L		97	85 - 115	1	20

Lab Sample ID: 860-80539-1 DU
Matrix: Water
Analysis Batch: 182558

Client Sample ID: EP-31
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Alkalinity	4.00	U		4.00	U	mg/L				NC	20
Bicarbonate Alkalinity as CaCO3	4.00	U		4.00	U	mg/L				NC	20
Carbonate Alkalinity as CaCO3	4.00	U		4.00	U	mg/L				NC	20
Hydroxide Alkalinity	4.00	U		4.00	U	mg/L				NC	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 860-182770/1
Matrix: Water
Analysis Batch: 182770

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5.00	U	5.00	5.00	mg/L			08/21/24 12:35	1

Lab Sample ID: LCS 860-182770/2
Matrix: Water
Analysis Batch: 182770

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			1000	989.0		mg/L		99	80 - 120		

Lab Sample ID: LLCS 860-182770/3
Matrix: Water
Analysis Batch: 182770

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

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			5.00	5.500		mg/L		110	50 - 150		

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: 860-80539-1 DU
Matrix: Water
Analysis Batch: 182770

Client Sample ID: EP-31
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	5020		4832		mg/L		4	10

Lab Sample ID: 860-80539-11 DU
Matrix: Water
Analysis Batch: 182770

Client Sample ID: DUP-03
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	8600		8750		mg/L		2	10

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-676627/1-A
Matrix: Water
Analysis Batch: 678159

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 676627

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.1710	U	0.320	0.321	1.00	0.553	pCi/L	08/26/24 08:27	09/05/24 13:04	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*99.5*		*30 - 110*	*08/26/24 08:27*	*09/05/24 13:04*	*1*
Y Carrier	*83.0*		*30 - 110*	*08/26/24 08:27*	*09/05/24 13:04*	*1*

Lab Sample ID: LCS 160-676627/2-A
Matrix: Water
Analysis Batch: 678159

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 676627

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-228	8.54	8.281		1.19	1.00	0.549	pCi/L	97	75 - 125

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*98.2*		*30 - 110*
Y Carrier	*83.4*		*30 - 110*

Lab Sample ID: 860-80539-1 MS
Matrix: Water
Analysis Batch: 678288

Client Sample ID: EP-31
Prep Type: Total/NA
Prep Batch: 676627

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-228	1.35		8.54	8.740		1.24	1.00	0.540	pCi/L	87	60 - 140

Carrier	*MS %Yield*	*MS Qualifier*	*Limits*
Ba Carrier	*102*		*30 - 110*
Y Carrier	*80.0*		*30 - 110*

Method: 904.0 - Radium-228 (GFPC) (Continued)

Lab Sample ID: 860-80539-1 MSD
Matrix: Water
Analysis Batch: 678288

Client Sample ID: EP-31
Prep Type: Total/NA
Prep Batch: 676627

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-228	1.35		8.56	8.572		1.23	1.00	0.558	pCi/L	84	60 - 140	0.07	1

Carrier	*MSD %Yield*	*MSD Qualifier*	*Limits*
Ba Carrier	*101*		*30 - 110*
Y Carrier	*77.4*		*30 - 110*

Method: SM7500 Ra B - Radium-226

Lab Sample ID: MB 810-110716/1-A
Matrix: Water
Analysis Batch: 112437

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 110716

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra-226	0.1000	U	0.240		1.00	0.350	pCi/L	08/19/24 09:52	08/28/24 11:52	1

Lab Sample ID: LCS 810-110716/2-A
Matrix: Water
Analysis Batch: 112437

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 110716

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Ra-226	5.26	5.280			1.00	0.310	pCi/L	100	90 - 110

Lab Sample ID: MB 810-110725/1-A
Matrix: Water
Analysis Batch: 114567

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 110725

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra-226	0.2500		0.240		1.00	0.240	pCi/L	08/19/24 10:42	09/12/24 14:17	1

Lab Sample ID: LCS 810-110725/2-A
Matrix: Water
Analysis Batch: 114567

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 110725

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Ra-226	5.26	5.290			1.00	0.210	pCi/L	101	90 - 110

Lab Sample ID: MB 810-111010/1-A
Matrix: Water
Analysis Batch: 114136

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 111010

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra-226	0.2600		0.210		1.00	0.180	pCi/L	08/20/24 09:29	09/09/24 10:29	1

Method: SM7500 Ra B - Radium-226 (Continued)

Lab Sample ID: LCS 810-111010/2-A
Matrix: Water
Analysis Batch: 114136

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 111010

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Ra-226			5.06	4.600			1.00	0.200	pCi/L	91	90 - 110		

Lab Sample ID: MB 810-111042/1-A
Matrix: Water
Analysis Batch: 113899

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 111042

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra-226	0.07000	U	0.270		1.00	0.470	pCi/L	08/20/24 11:42	09/05/24 11:34	1

Lab Sample ID: LCS 810-111042/2-A
Matrix: Water
Analysis Batch: 113899

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 111042

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Ra-226			5.06	4.690			1.00	0.370	pCi/L	93	90 - 110		

Lab Sample ID: MB 810-111136/1-A
Matrix: Water
Analysis Batch: 114350

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 111136

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra-226	-0.1400	U	0.390		1.00	0.680	pCi/L	08/20/24 16:33	09/11/24 14:07	1

Lab Sample ID: LCS 810-111136/2-A
Matrix: Water
Analysis Batch: 114350

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 111136

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Ra-226			5.06	5.000			1.00	0.560	pCi/L	99	90 - 110		

Lab Sample ID: MB 810-112426/1-A
Matrix: Water
Analysis Batch: 115766

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 112426

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra-226	0.09000	U	0.340		1.00	0.450	pCi/L	08/28/24 12:40	09/20/24 14:38	1

Lab Sample ID: LCS 810-112426/2-A
Matrix: Water
Analysis Batch: 115766

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 112426

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Ra-226			5.06	5.170			1.00	0.310	pCi/L	102	90 - 110		

Method: SM7500 Ra B - Radium-226

Lab Sample ID: 860-80539-1 MS
Matrix: Water
Analysis Batch: 115766

Client Sample ID: EP-31
Prep Type: Total/NA
Prep Batch: 112426

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Ra-226	0.930		5.09	5.590			1.00	0.430	pCi/L	110	80 - 120		

Lab Sample ID: 860-80539-1 MSD
Matrix: Water
Analysis Batch: 115766

Client Sample ID: EP-31
Prep Type: Total/NA
Prep Batch: 112426

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Ra-226	0.930		5.09	4.720			1.00	0.320	pCi/L	93	80 - 120	0.42	

HPLC/IC

Analysis Batch: 182530

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-80539-1	EP-31	Total/NA	Water	300.0	
860-80539-2	EP-32	Total/NA	Water	300.0	
860-80539-3	EP-33	Total/NA	Water	300.0	
860-80539-4	EP-34	Total/NA	Water	300.0	
860-80539-5	EP-35	Total/NA	Water	300.0	
860-80539-6	EP-36	Total/NA	Water	300.0	
860-80539-7	EP-37	Total/NA	Water	300.0	
860-80539-8	EP-38	Total/NA	Water	300.0	
860-80539-9	MW-04	Total/NA	Water	300.0	
860-80539-10	EB-02	Total/NA	Water	300.0	
860-80539-11	DUP-03	Total/NA	Water	300.0	
860-80539-12	FB-03	Total/NA	Water	300.0	
MB 860-182530/3	Method Blank	Total/NA	Water	300.0	
MB 860-182530/52	Method Blank	Total/NA	Water	300.0	
LCS 860-182530/53	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-182530/54	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-182530/7	Lab Control Sample	Total/NA	Water	300.0	
860-80539-1 MS	EP-31	Total/NA	Water	300.0	
860-80539-1 MSD	EP-31	Total/NA	Water	300.0	

Metals

Prep Batch: 477270

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-80539-1	EP-31	Total Recoverable	Water	3005A	
860-80539-2	EP-32	Total Recoverable	Water	3005A	
860-80539-3	EP-33	Total Recoverable	Water	3005A	
860-80539-4	EP-34	Total Recoverable	Water	3005A	
860-80539-5	EP-35	Total Recoverable	Water	3005A	
860-80539-6	EP-36	Total Recoverable	Water	3005A	
860-80539-7	EP-37	Total Recoverable	Water	3005A	
860-80539-8	EP-38	Total Recoverable	Water	3005A	
860-80539-9	MW-04	Total Recoverable	Water	3005A	
860-80539-10	EB-02	Total Recoverable	Water	3005A	
860-80539-11	DUP-03	Total Recoverable	Water	3005A	
860-80539-12	FB-03	Total Recoverable	Water	3005A	
MB 180-477270/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-477270/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
860-80539-1 MS	EP-31	Total Recoverable	Water	3005A	
860-80539-1 MSD	EP-31	Total Recoverable	Water	3005A	

Analysis Batch: 477804

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-80539-1	EP-31	Total Recoverable	Water	EPA 6020A	477270
860-80539-2	EP-32	Total Recoverable	Water	EPA 6020A	477270
860-80539-3	EP-33	Total Recoverable	Water	EPA 6020A	477270
860-80539-4	EP-34	Total Recoverable	Water	EPA 6020A	477270
860-80539-5	EP-35	Total Recoverable	Water	EPA 6020A	477270
860-80539-6	EP-36	Total Recoverable	Water	EPA 6020A	477270
860-80539-7	EP-37	Total Recoverable	Water	EPA 6020A	477270
860-80539-8	EP-38	Total Recoverable	Water	EPA 6020A	477270

Metals (Continued)

Analysis Batch: 477804 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-80539-9	MW-04	Total Recoverable	Water	EPA 6020A	477270
860-80539-10	EB-02	Total Recoverable	Water	EPA 6020A	477270
860-80539-11	DUP-03	Total Recoverable	Water	EPA 6020A	477270
860-80539-12	FB-03	Total Recoverable	Water	EPA 6020A	477270
MB 180-477270/1-A	Method Blank	Total Recoverable	Water	EPA 6020A	477270
LCS 180-477270/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020A	477270
860-80539-1 MS	EP-31	Total Recoverable	Water	EPA 6020A	477270
860-80539-1 MSD	EP-31	Total Recoverable	Water	EPA 6020A	477270

Prep Batch: 477829

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-80539-1	EP-31	Total/NA	Water	7470A	
860-80539-2	EP-32	Total/NA	Water	7470A	
860-80539-3	EP-33	Total/NA	Water	7470A	
860-80539-4	EP-34	Total/NA	Water	7470A	
860-80539-5	EP-35	Total/NA	Water	7470A	
860-80539-6	EP-36	Total/NA	Water	7470A	
860-80539-7	EP-37	Total/NA	Water	7470A	
860-80539-8	EP-38	Total/NA	Water	7470A	
860-80539-9	MW-04	Total/NA	Water	7470A	
860-80539-10	EB-02	Total/NA	Water	7470A	
860-80539-11	DUP-03	Total/NA	Water	7470A	
860-80539-12	FB-03	Total/NA	Water	7470A	
MB 180-477829/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-477829/2-A	Lab Control Sample	Total/NA	Water	7470A	
860-80539-1 MS	EP-31	Total/NA	Water	7470A	
860-80539-1 MSD	EP-31	Total/NA	Water	7470A	

Analysis Batch: 477875

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-80539-5	EP-35	Total Recoverable	Water	EPA 6020A	477270
860-80539-6	EP-36	Total Recoverable	Water	EPA 6020A	477270
860-80539-7	EP-37	Total Recoverable	Water	EPA 6020A	477270
860-80539-8	EP-38	Total Recoverable	Water	EPA 6020A	477270
860-80539-9	MW-04	Total Recoverable	Water	EPA 6020A	477270
860-80539-11	DUP-03	Total Recoverable	Water	EPA 6020A	477270

Analysis Batch: 477977

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-80539-1	EP-31	Total/NA	Water	EPA 7470A	477829
860-80539-2	EP-32	Total/NA	Water	EPA 7470A	477829
860-80539-3	EP-33	Total/NA	Water	EPA 7470A	477829
860-80539-4	EP-34	Total/NA	Water	EPA 7470A	477829
860-80539-5	EP-35	Total/NA	Water	EPA 7470A	477829
860-80539-6	EP-36	Total/NA	Water	EPA 7470A	477829
860-80539-7	EP-37	Total/NA	Water	EPA 7470A	477829
860-80539-8	EP-38	Total/NA	Water	EPA 7470A	477829
860-80539-9	MW-04	Total/NA	Water	EPA 7470A	477829
860-80539-10	EB-02	Total/NA	Water	EPA 7470A	477829
860-80539-11	DUP-03	Total/NA	Water	EPA 7470A	477829
860-80539-12	FB-03	Total/NA	Water	EPA 7470A	477829

Metals (Continued)

Analysis Batch: 477977 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 180-477829/1-A	Method Blank	Total/NA	Water	EPA 7470A	477829
LCS 180-477829/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	477829
860-80539-1 MS	EP-31	Total/NA	Water	EPA 7470A	477829
860-80539-1 MSD	EP-31	Total/NA	Water	EPA 7470A	477829

General Chemistry

Analysis Batch: 181950

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-80539-10	EB-02	Total/NA	Water	SM 2320B	
MB 860-181950/39	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-181950/40	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-181950/41	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Analysis Batch: 182148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-80539-3	EP-33	Total/NA	Water	SM 2320B	
860-80539-4	EP-34	Total/NA	Water	SM 2320B	
860-80539-5	EP-35	Total/NA	Water	SM 2320B	
860-80539-6	EP-36	Total/NA	Water	SM 2320B	
860-80539-7	EP-37	Total/NA	Water	SM 2320B	
860-80539-8	EP-38	Total/NA	Water	SM 2320B	
860-80539-9	MW-04	Total/NA	Water	SM 2320B	
860-80539-11	DUP-03	Total/NA	Water	SM 2320B	
860-80539-12	FB-03	Total/NA	Water	SM 2320B	
MB 860-182148/48	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-182148/49	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-182148/50	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Analysis Batch: 182179

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-80539-1	EP-31	Total/NA	Water	SM 2320B	
860-80539-2	EP-32	Total/NA	Water	SM 2320B	
MB 860-182179/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-182179/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-182179/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Analysis Batch: 182558

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-182558/4	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-182558/5	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-182558/6	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
860-80539-1 DU	EP-31	Total/NA	Water	SM 2320B	

Analysis Batch: 182770

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-80539-1	EP-31	Total/NA	Water	SM 2540C	
860-80539-2	EP-32	Total/NA	Water	SM 2540C	
860-80539-3	EP-33	Total/NA	Water	SM 2540C	
860-80539-4	EP-34	Total/NA	Water	SM 2540C	
860-80539-5	EP-35	Total/NA	Water	SM 2540C	

General Chemistry (Continued)

Analysis Batch: 182770 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-80539-6	EP-36	Total/NA	Water	SM 2540C	
860-80539-7	EP-37	Total/NA	Water	SM 2540C	
860-80539-8	EP-38	Total/NA	Water	SM 2540C	
860-80539-9	MW-04	Total/NA	Water	SM 2540C	
860-80539-10	EB-02	Total/NA	Water	SM 2540C	
860-80539-11	DUP-03	Total/NA	Water	SM 2540C	
860-80539-12	FB-03	Total/NA	Water	SM 2540C	
MB 860-182770/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-182770/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LLCS 860-182770/3	Lab Control Sample	Total/NA	Water	SM 2540C	
860-80539-1 DU	EP-31	Total/NA	Water	SM 2540C	
860-80539-11 DU	DUP-03	Total/NA	Water	SM 2540C	

Rad

Prep Batch: 110716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-80539-2	EP-32	Total/NA	Water	RAD Prep	
860-80539-3	EP-33	Total/NA	Water	RAD Prep	
MB 810-110716/1-A	Method Blank	Total/NA	Water	RAD Prep	
LCS 810-110716/2-A	Lab Control Sample	Total/NA	Water	RAD Prep	

Prep Batch: 110725

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-80539-9	MW-04	Total/NA	Water	RAD Prep	
860-80539-10	EB-02	Total/NA	Water	RAD Prep	
MB 810-110725/1-A	Method Blank	Total/NA	Water	RAD Prep	
LCS 810-110725/2-A	Lab Control Sample	Total/NA	Water	RAD Prep	

Prep Batch: 111010

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-80539-4	EP-34	Total/NA	Water	RAD Prep	
860-80539-5	EP-35	Total/NA	Water	RAD Prep	
MB 810-111010/1-A	Method Blank	Total/NA	Water	RAD Prep	
LCS 810-111010/2-A	Lab Control Sample	Total/NA	Water	RAD Prep	

Prep Batch: 111042

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-80539-7	EP-37	Total/NA	Water	RAD Prep	
860-80539-8	EP-38	Total/NA	Water	RAD Prep	
MB 810-111042/1-A	Method Blank	Total/NA	Water	RAD Prep	
LCS 810-111042/2-A	Lab Control Sample	Total/NA	Water	RAD Prep	

Prep Batch: 111136

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-80539-6	EP-36	Total/NA	Water	RAD Prep	
860-80539-12	FB-03	Total/NA	Water	RAD Prep	
MB 810-111136/1-A	Method Blank	Total/NA	Water	RAD Prep	
LCS 810-111136/2-A	Lab Control Sample	Total/NA	Water	RAD Prep	

Rad

Prep Batch: 112426

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-80539-1	EP-31	Total/NA	Water	RAD Prep	
MB 810-112426/1-A	Method Blank	Total/NA	Water	RAD Prep	
LCS 810-112426/2-A	Lab Control Sample	Total/NA	Water	RAD Prep	
860-80539-1 MS	EP-31	Total/NA	Water	RAD Prep	
860-80539-1 MSD	EP-31	Total/NA	Water	RAD Prep	

Prep Batch: 676627

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-80539-1	EP-31	Total/NA	Water	PrecSep_0	
860-80539-2	EP-32	Total/NA	Water	PrecSep_0	
860-80539-3	EP-33	Total/NA	Water	PrecSep_0	
860-80539-4	EP-34	Total/NA	Water	PrecSep_0	
860-80539-5	EP-35	Total/NA	Water	PrecSep_0	
860-80539-6	EP-36	Total/NA	Water	PrecSep_0	
860-80539-7	EP-37	Total/NA	Water	PrecSep_0	
860-80539-8	EP-38	Total/NA	Water	PrecSep_0	
860-80539-9	MW-04	Total/NA	Water	PrecSep_0	
860-80539-10	EB-02	Total/NA	Water	PrecSep_0	
860-80539-11	DUP-03	Total/NA	Water	PrecSep_0	
860-80539-12	FB-03	Total/NA	Water	PrecSep_0	
MB 160-676627/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-676627/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
860-80539-1 MS	EP-31	Total/NA	Water	PrecSep_0	
860-80539-1 MSD	EP-31	Total/NA	Water	PrecSep_0	

Lab Chronicle

Client: GSI Environmental Inc
Project/Site: Equilization Pond

Job ID: 860-80539-1

Client Sample ID: EP-31

Date Collected: 08/14/24 11:55
Date Received: 08/15/24 09:39

Lab Sample ID: 860-80539-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		10			182530	08/20/24 22:39	HN	EET HOU
Total Recoverable	Prep	3005A			25 mL	25 mL	477270	08/21/24 10:25	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		100			477804	08/27/24 15:20	LWM	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	477829	08/28/24 09:40	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			477977	08/29/24 15:17	RJR	EET PIT
Total/NA	Analysis	SM 2320B		1			182179	08/17/24 22:39	RY	EET HOU
Total/NA	Analysis	SM 2540C		1	25 mL	200 mL	182770	08/21/24 12:36	TR	EET HOU
Total/NA	Prep	PrecSep_0			996.70 mL	1.0 g	676627	08/26/24 08:27	MLT	EET SL
Total/NA	Analysis	904.0		1			678288	09/05/24 13:09	FLC	EET SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	112426	08/28/24 12:40	SB	EA SB
Total/NA	Analysis	SM7500 Ra B		1			115766	09/20/24 14:38	SM	EA SB
							Completed:	09/20/24 15:08 [1]		

Client Sample ID: EP-32

Date Collected: 08/14/24 12:35
Date Received: 08/15/24 09:39

Lab Sample ID: 860-80539-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		10			182530	08/20/24 23:53	HN	EET HOU
Total Recoverable	Prep	3005A			25 mL	25 mL	477270	08/21/24 10:25	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		100			477804	08/27/24 15:28	LWM	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	477829	08/28/24 09:40	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			477977	08/29/24 15:21	RJR	EET PIT
Total/NA	Analysis	SM 2320B		1			182179	08/17/24 22:34	RY	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	182770	08/21/24 12:36	TR	EET HOU
Total/NA	Prep	PrecSep_0			1000.84 mL	1.0 g	676627	08/26/24 08:27	MLT	EET SL
Total/NA	Analysis	904.0		1			678288	09/05/24 13:09	FLC	EET SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	110716	08/19/24 09:52	SB	EA SB
Total/NA	Analysis	SM7500 Ra B		1			113062	09/03/24 10:13	SM	EA SB
							Completed:	09/03/24 10:43 [1]		

Client Sample ID: EP-33

Date Collected: 08/14/24 11:45
Date Received: 08/15/24 09:39

Lab Sample ID: 860-80539-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		10			182530	08/21/24 00:18	HN	EET HOU
Total Recoverable	Prep	3005A			25 mL	25 mL	477270	08/21/24 10:25	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		100			477804	08/27/24 15:31	LWM	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	477829	08/28/24 09:40	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			477977	08/29/24 15:25	RJR	EET PIT
Total/NA	Analysis	SM 2320B		1			182148	08/16/24 19:06	RY	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	182770	08/21/24 12:36	TR	EET HOU

Client Sample ID: EP-33

Lab Sample ID: 860-80539-3

Date Collected: 08/14/24 11:45

Matrix: Water

Date Received: 08/15/24 09:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			995.91 mL	1.0 g	676627	08/26/24 08:27	MLT	EET SL
Total/NA	Analysis	904.0		1			678288	09/05/24 13:09	FLC	EET SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	110716	08/19/24 09:52	SB	EA SB
Total/NA	Analysis	SM7500 Ra B		1			113062	09/03/24 10:13	SM	EA SB
							Completed:	09/03/24 10:43 [1]		

Client Sample ID: EP-34

Lab Sample ID: 860-80539-4

Date Collected: 08/14/24 10:45

Matrix: Water

Date Received: 08/15/24 09:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		10			182530	08/21/24 00:43	HN	EET HOU
Total Recoverable	Prep	3005A			25 mL	25 mL	477270	08/21/24 10:25	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		100			477804	08/27/24 15:34	LWM	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	477829	08/28/24 09:40	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			477977	08/29/24 15:26	RJR	EET PIT
Total/NA	Analysis	SM 2320B		1			182148	08/16/24 18:58	RY	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	182770	08/21/24 12:36	TR	EET HOU
Total/NA	Prep	PrecSep_0			1000.78 mL	1.0 g	676627	08/26/24 08:27	MLT	EET SL
Total/NA	Analysis	904.0		1			678288	09/05/24 13:09	FLC	EET SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	111010	08/20/24 09:29	SB	EA SB
Total/NA	Analysis	SM7500 Ra B		1			114783	09/13/24 15:22	SM	EA SB
							Completed:	09/13/24 15:52 [1]		

Client Sample ID: EP-35

Lab Sample ID: 860-80539-5

Date Collected: 08/14/24 09:45

Matrix: Water

Date Received: 08/15/24 09:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		10			182530	08/21/24 01:08	HN	EET HOU
Total Recoverable	Prep	3005A			25 mL	25 mL	477270	08/21/24 10:25	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		100			477804	08/27/24 15:42	LWM	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	477270	08/21/24 10:25	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		100			477875	08/28/24 14:07	LWM	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	477829	08/28/24 09:40	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			477977	08/29/24 15:27	RJR	EET PIT
Total/NA	Analysis	SM 2320B		1			182148	08/16/24 18:49	RY	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	182770	08/21/24 12:36	TR	EET HOU
Total/NA	Prep	PrecSep_0			1002.90 mL	1.0 g	676627	08/26/24 08:27	MLT	EET SL
Total/NA	Analysis	904.0		1			678288	09/05/24 13:09	FLC	EET SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	111010	08/20/24 09:29	SB	EA SB
Total/NA	Analysis	SM7500 Ra B		1			114136	09/09/24 10:29	SM	EA SB
							Completed:	09/09/24 10:59 [1]		

Lab Chronicle

Client: GSI Environmental Inc
Project/Site: Equilization Pond

Job ID: 860-80539-1

Client Sample ID: EP-36

Date Collected: 08/14/24 08:15
Date Received: 08/15/24 09:39

Lab Sample ID: 860-80539-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		10			182530	08/21/24 01:33	HN	EET HOU
Total Recoverable	Prep	3005A			25 mL	25 mL	477270	08/21/24 10:25	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		100			477804	08/27/24 15:45	LWM	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	477270	08/21/24 10:25	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		100			477875	08/28/24 14:10	LWM	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	477829	08/28/24 09:40	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			477977	08/29/24 15:28	RJR	EET PIT
Total/NA	Analysis	SM 2320B		1			182148	08/16/24 17:24	RY	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	182770	08/21/24 12:36	TR	EET HOU
Total/NA	Prep	PrecSep_0			997.83 mL	1.0 g	676627	08/26/24 08:27	MLT	EET SL
Total/NA	Analysis	904.0		1			678288	09/05/24 13:09	FLC	EET SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	111136	08/20/24 16:33	SM	EA SB
Total/NA	Analysis	SM7500 Ra B		1			114350	09/11/24 14:07	SM	EA SB
							Completed:	09/11/24 14:37 [1]		

Client Sample ID: EP-37

Date Collected: 08/14/24 10:50
Date Received: 08/15/24 09:39

Lab Sample ID: 860-80539-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		10			182530	08/21/24 02:22	HN	EET HOU
Total Recoverable	Prep	3005A			25 mL	25 mL	477270	08/21/24 10:25	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		100			477804	08/27/24 15:48	LWM	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	477270	08/21/24 10:25	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		100			477875	08/28/24 14:13	LWM	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	477829	08/28/24 09:40	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			477977	08/29/24 15:29	RJR	EET PIT
Total/NA	Analysis	SM 2320B		1			182148	08/16/24 17:16	RY	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	182770	08/21/24 12:36	TR	EET HOU
Total/NA	Prep	PrecSep_0			1002.58 mL	1.0 g	676627	08/26/24 08:27	MLT	EET SL
Total/NA	Analysis	904.0		1			678288	09/05/24 13:10	FLC	EET SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	111042	08/20/24 11:42	SB	EA SB
Total/NA	Analysis	SM7500 Ra B		1			114253	09/10/24 09:25	SM	EA SB
							Completed:	09/10/24 09:55 [1]		

Client Sample ID: EP-38

Date Collected: 08/14/24 11:15
Date Received: 08/15/24 09:39

Lab Sample ID: 860-80539-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		10			182530	08/21/24 02:47	HN	EET HOU
Total Recoverable	Prep	3005A			25 mL	25 mL	477270	08/21/24 10:25	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		100			477804	08/27/24 15:50	LWM	EET PIT

Client Sample ID: EP-38

Lab Sample ID: 860-80539-8

Date Collected: 08/14/24 11:15

Matrix: Water

Date Received: 08/15/24 09:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			25 mL	25 mL	477270	08/21/24 10:25	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		100			477875	08/28/24 14:16	LWM	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	477829	08/28/24 09:40	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			477977	08/29/24 15:30	RJR	EET PIT
Total/NA	Analysis	SM 2320B		1			182148	08/16/24 16:52	RY	EET HOU
Total/NA	Analysis	SM 2540C		1	25 mL	200 mL	182770	08/21/24 12:36	TR	EET HOU
Total/NA	Prep	PrecSep_0			995.90 mL	1.0 g	676627	08/26/24 08:27	MLT	EET SL
Total/NA	Analysis	904.0		1			678288	09/05/24 13:10	FLC	EET SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	111042	08/20/24 11:42	SB	EA SB
Total/NA	Analysis	SM7500 Ra B		1			113899	09/05/24 11:34	SM	EA SB
							Completed:	09/05/24 12:04 [1]		

Client Sample ID: MW-04

Lab Sample ID: 860-80539-9

Date Collected: 08/14/24 10:15

Matrix: Water

Date Received: 08/15/24 09:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		10			182530	08/21/24 03:12	HN	EET HOU
Total Recoverable	Prep	3005A			25 mL	25 mL	477270	08/21/24 10:25	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		100			477804	08/27/24 15:53	LWM	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	477270	08/21/24 10:25	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		100			477875	08/28/24 14:19	LWM	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	477829	08/28/24 09:41	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			477977	08/29/24 15:31	RJR	EET PIT
Total/NA	Analysis	SM 2320B		1			182148	08/16/24 16:37	RY	EET HOU
Total/NA	Analysis	SM 2540C		1	25 mL	200 mL	182770	08/21/24 12:36	TR	EET HOU
Total/NA	Prep	PrecSep_0			1001.25 mL	1.0 g	676627	08/26/24 08:27	MLT	EET SL
Total/NA	Analysis	904.0		1			678290	09/05/24 13:09	FLC	EET SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	110725	08/19/24 10:42	SM	EA SB
Total/NA	Analysis	SM7500 Ra B		1			114933	09/16/24 11:18	SM	EA SB
							Completed:	09/16/24 11:48 [1]		

Client Sample ID: EB-02

Lab Sample ID: 860-80539-10

Date Collected: 08/14/24 10:40

Matrix: Water

Date Received: 08/15/24 09:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		10			182530	08/21/24 03:37	HN	EET HOU
Total Recoverable	Prep	3005A			25 mL	25 mL	477270	08/21/24 10:25	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			477804	08/27/24 14:07	LWM	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	477829	08/28/24 09:41	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			477977	08/29/24 15:32	RJR	EET PIT
Total/NA	Analysis	SM 2320B		1			181950	08/16/24 01:24	MR	EET HOU
Total/NA	Analysis	SM 2540C		1	200 mL	200 mL	182770	08/21/24 12:36	TR	EET HOU

Client Sample ID: EB-02

Lab Sample ID: 860-80539-10

Date Collected: 08/14/24 10:40

Matrix: Water

Date Received: 08/15/24 09:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			997.45 mL	1.0 g	676627	08/26/24 08:27	MLT	EET SL
Total/NA	Analysis	904.0		1			678290	09/05/24 13:09	FLC	EET SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	110725	08/19/24 10:42	SM	EA SB
Total/NA	Analysis	SM7500 Ra B		1			114567	09/12/24 14:17	SM	EA SB
							Completed:	09/12/24 14:47 [1]		

Client Sample ID: DUP-03

Lab Sample ID: 860-80539-11

Date Collected: 08/14/24 12:00

Matrix: Water

Date Received: 08/15/24 09:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		10			182530	08/21/24 04:02	HN	EET HOU
Total Recoverable	Prep	3005A			25 mL	25 mL	477270	08/21/24 10:25	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		100			477804	08/27/24 15:56	LWM	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	477270	08/21/24 10:25	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		100			477875	08/28/24 14:21	LWM	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	477829	08/28/24 09:41	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			477977	08/29/24 15:33	RJR	EET PIT
Total/NA	Analysis	SM 2320B		1			182148	08/16/24 16:45	RY	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	182770	08/21/24 12:36	TR	EET HOU
Total/NA	Prep	PrecSep_0			573.57 mL	1.0 g	676627	08/26/24 08:27	MLT	EET SL
Total/NA	Analysis	904.0		1			678290	09/05/24 13:10	FLC	EET SL

Client Sample ID: FB-03

Lab Sample ID: 860-80539-12

Date Collected: 08/14/24 09:00

Matrix: Water

Date Received: 08/15/24 09:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		10			182530	08/21/24 04:51	HN	EET HOU
Total Recoverable	Prep	3005A			25 mL	25 mL	477270	08/21/24 10:25	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			477804	08/27/24 14:10	LWM	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	477829	08/28/24 09:41	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			477977	08/29/24 15:34	RJR	EET PIT
Total/NA	Analysis	SM 2320B		1			182148	08/16/24 17:50	RY	EET HOU
Total/NA	Analysis	SM 2540C		1	200 mL	200 mL	182770	08/21/24 12:36	TR	EET HOU
Total/NA	Prep	PrecSep_0			1003.45 mL	1.0 g	676627	08/26/24 08:27	MLT	EET SL
Total/NA	Analysis	904.0		1			678290	09/05/24 13:10	FLC	EET SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	111136	08/20/24 16:33	SM	EA SB
Total/NA	Analysis	SM7500 Ra B		1			114350	09/11/24 14:07	SM	EA SB
							Completed:	09/11/24 14:37 [1]		

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Lab Chronicle

Client: GSI Environmental Inc
Project/Site: Equilization Pond

Job ID: 860-80539-1

Laboratory References:

EA SB = Eurofins Eaton Analytical South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

EET PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Accreditation/Certification Summary

Client: GSI Environmental Inc
Project/Site: Equilization Pond

Job ID: 860-80539-1

Laboratory: Eurofins Houston

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
SM 2320B		Water	Bicarbonate Alkalinity as CaCO3
SM 2320B		Water	Carbonate Alkalinity as CaCO3
SM 2320B		Water	Hydroxide Alkalinity

Laboratory: Eurofins Eaton Analytical South Bend

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

Authority	Program	Identification Number	Expiration Date
A2LA	ISO/IEC 17025	5794.01	07-31-26
Alabama	State	40700	06-30-25
Alaska	State	IN00035	06-30-25
Arizona	State	AZ0432	07-26-25
Arkansas (DW)	State	EPA IN00035	06-30-25
California	State	2920	06-30-25
Colorado	State	IN00035	02-28-25
Connecticut	State	PH-0132	03-31-26
Delaware (DW)	State	IN00035	06-30-25
Florida	NELAP	E87775	06-30-25
Georgia (DW)	State	929	06-30-25
Guam	State	23-011R	07-15-25
Hawaii	State	IN035	06-30-25
Idaho (DW)	State	IN00035	12-31-24
IL Dept. of Public Health (Micro)	State	17767	06-30-25
Illinois	NELAP	200001	09-30-24
Indiana	State	C-71-01	12-31-25
Indiana (Micro)	State	M-76-07	12-31-25
Iowa	State	IA Lab #098	11-01-25
Kansas	NELAP	E-10233	10-31-24
Kentucky (DW)	State	KY90056	12-31-24
Louisiana (DW)	State	LA014	12-31-24
Maine	State	IN00035	05-01-25
Maryland	State	209	06-30-25
Massachusetts	State	M-IN035	06-30-25
MI - RadChem Recognition	State	9926	03-22-25
Michigan	State	9926	03-22-25
Minnesota	NELAP	1989807	12-31-24
Mississippi	State	IN00035	06-30-25
Missouri	State	880	09-30-27
Montana (DW)	State	CERT0026	01-01-25
Nebraska	State	NE-OS-05-04	06-30-25
Nevada	State	IN000352024-01	07-31-25
New Hampshire	NELAP	2124	11-05-24
New Jersey	NELAP	IN598	06-30-25
New Mexico	State	IN00035	06-30-25
New York	NELAP	11398	04-01-25
North Carolina (DW)	State	18700	07-31-25

Accreditation/Certification Summary

Client: GSI Environmental Inc
Project/Site: Equilization Pond

Job ID: 860-80539-1

Laboratory: Eurofins Eaton Analytical South Bend (Continued)

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

Authority	Program	Identification Number	Expiration Date
North Dakota	State	R-035	06-30-24 *
Northern Mariana Islands (DW)	State	IN00035	06-30-25
Ohio	State	87775	06-30-25
Oklahoma	NELAP	D9508	12-31-24
Oregon	NELAP	4156	09-16-25
Pennsylvania	NELAP	68-00466	04-30-25
Puerto Rico	State	IN00035	04-01-25
Rhode Island	State	LAO00343	12-30-24
South Carolina	State	95005001	06-30-24 *
South Dakota (DW)	State	IN00035	06-30-25
Tennessee	State	TN02973	06-30-25
Texas	NELAP	T104704187-22-16	12-31-24
Texas	TCEQ Water Supply	TX207	06-30-25
USEPA UCMR 5	US Federal Programs	IN00035	12-31-25
Utah	NELAP	IN00035	07-31-25
Vermont	State	VT-8775	11-15-24
Virginia	NELAP	460275	03-14-25
Washington	State	C837	01-01-25
West Virginia (DW)	State	9927 C	01-31-25
Wisconsin	State	999766900	08-31-25
Wisconsin (Micro)	State	10121	12-31-24
Wyoming	State	8TMS-L	06-30-25

Laboratory: Eurofins Pittsburgh

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

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	06-28-25
California	State	2891	04-30-24 *
Connecticut	State	PH-0688	09-30-24
Florida	NELAP	E871008	06-30-25
Georgia	State	PA 02-00416	04-30-25
Illinois	NELAP	004375	07-31-25
Kansas	NELAP	E-10350	01-31-25
Kentucky (UST)	State	162013	04-30-25
Kentucky (WW)	State	KY98043	12-31-24
Louisiana	NELAP	04041	06-30-22 *
Louisiana (All)	NELAP	04041	06-30-25
Maine	State	PA00164	03-06-26
Minnesota	NELAP	042-999-482	12-31-24
New Hampshire	NELAP	2030	04-04-25
New Jersey	NELAP	PA005	06-30-25
New York	NELAP	11182	04-01-25
North Carolina (WW/SW)	State	434	12-31-24
North Dakota	State	R-227	04-30-24 *
Oregon	NELAP	PA-2151	02-06-25
Pennsylvania	NELAP	02-00416	04-30-25
Rhode Island	State	LAO00362	01-01-25
South Carolina	State	89014	04-30-25
Texas	NELAP	T104704528	03-31-25

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification Summary

Client: GSI Environmental Inc
Project/Site: Equilization Pond

Job ID: 860-80539-1

Laboratory: Eurofins Pittsburgh (Continued)

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

Authority	Program	Identification Number	Expiration Date
US Fish & Wildlife	US Federal Programs	058448	04-30-25
USDA	US Federal Programs	P330-16-00211	04-11-26
Utah	NELAP	PA001462024-14	05-31-25
Virginia	NELAP	10043	07-14-24 *
West Virginia DEP	State	142	01-31-25
Wisconsin	State	998027800	08-31-25

Laboratory: Eurofins St. Louis

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704193	07-31-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
904.0	PrecSep_0	Water	Radium-228

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: GSI Environmental Inc
Project/Site: Equilization Pond

Job ID: 860-80539-1

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	EPA	EET HOU
EPA 6020A	Metals (ICP/MS)	SW846	EET PIT
EPA 7470A	Mercury (CVAA)	SW846	EET PIT
SM 2320B	Alkalinity	SM	EET HOU
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET HOU
904.0	Radium-228 (GFPC)	EPA	EET SL
SM7500 Ra B	Radium-226	SM	EA SB
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET PIT
7470A	Preparation, Mercury	SW846	EET PIT
PrecSep_0	Preparation, Precipitate Separation	None	EET SL
RAD Prep	Preparation, Radiologicals	None	EA SB

Protocol References:

EPA = US Environmental Protection Agency

None = None

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:

EA SB = Eurofins Eaton Analytical South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

EET PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Sample Summary

Client: GSI Environmental Inc
Project/Site: Equilization Pond

Job ID: 860-80539-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-80539-1	EP-31	Water	08/14/24 11:55	08/15/24 09:39
860-80539-2	EP-32	Water	08/14/24 12:35	08/15/24 09:39
860-80539-3	EP-33	Water	08/14/24 11:45	08/15/24 09:39
860-80539-4	EP-34	Water	08/14/24 10:45	08/15/24 09:39
860-80539-5	EP-35	Water	08/14/24 09:45	08/15/24 09:39
860-80539-6	EP-36	Water	08/14/24 08:15	08/15/24 09:39
860-80539-7	EP-37	Water	08/14/24 10:50	08/15/24 09:39
860-80539-8	EP-38	Water	08/14/24 11:15	08/15/24 09:39
860-80539-9	MW-04	Water	08/14/24 10:15	08/15/24 09:39
860-80539-10	EB-02	Water	08/14/24 10:40	08/15/24 09:39
860-80539-11	DUP-03	Water	08/14/24 12:00	08/15/24 09:39
860-80539-12	FB-03	Water	08/14/24 09:00	08/15/24 09:39

Eurofins Xenco, Stafford
4147 Greenbriar Dr
Stafford TX 77477
Phone (281) 240-4200

Chain of Custody Record

eurofins

9/23/2024

Client Information	Sampler: Mason Bond + HMT Team	Lab PM: Kudchadkar Sachin G	Carrier Tracking No(s):	COC No: 860-3614-1220.1
Client Contact: Mike Schofield	Phone: 281-725 4825	E-Mail: Sachin Kudchadkar@Eurofinset.com	State of Origin: TX	Page: Page 1 of 2
Company: GSI Environmental, Inc	PWSID:			Job #:
Address: 9600 Great Hills Trail Suite 350E	Due Date Requested:			
City: Austin	TAT Requested (days):			
State, Zip: TX, 78759	Compliance Project: Δ Yes Δ No			
Phone: 512-346-4474(Tel) 512-346-4476(Fax)	PO #:			
Email: mlschofield@gsi-net.com	WO #:			
Project Name: San Miguel Electrical Co-Op GW	Project #: 86001746			
Site: Equilization Pond	SSOW#:			

Analysis Requested

Preservation Codes:

A	HCL	M	Hexane
B	NaOH	N	None
C	Zn Acetate	O	AsNaO2
D	Nitric Acid	P	Na2O4S
E	NaHSO4	Q	Na2SO3
F	MeOH	R	Na2S2O3
G	Amchlor	S	H2SO4
H	Ascorbic Acid	T	TSP Dodecahydrate
	Ice	U	Acetone
J	DI Water	V	MCAA
K	EDTA	W	pH 4-5
L	EDA	Z	other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2320B, Alkalinity N	6020A -7470- B, Ca,Sb, As, Ba, Be, Cd, Cr Co, Pb, Li, Mo, Se, Ti-Hg- Eurofins Pittsburg (Na, Mg, K) D	2540C_TDS N	300- Cl, F SO4 N	901 1_Ra- Rad 228 D	Eurofins St Louis SM7500_Ra_B Rad 226- South Bend IN D	Total Number of containers	Special Instructions/Note:
			Preservation Code:											
EP-31	8-14-24	1155	G	Water			X	X	X	X	X	X		
EP 32		1235		Water			X	X	X	X	X	X		
EP-33		1145		Water			X	X	X	X	X	X		
EP-34		1045		Water			X	X	X	X	X	X		
EP-35		945		Water			X	X	X	X	X	X		
EP-36		815		Water			X	X	X	X	X	X		
EP-37		1050		Water			X	X	X	X	X	X		
EP-38		1115		Water			X	X	X	X	X	X		
MW-04		1015		Water			X	X	X	X	X	X		
				Water										
				Water										

860-80539 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II III, IV Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Cody Springer	8-15-24 1939	HMT		8/15/24 1939	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks:
		HU U368 37 20 +02 43 5.0

ver 01/16/2019

Eurofins Xenco, Stafford
4147 Greenbriar Dr
Stafford, TX 77477
Phone (281) 240-4200

Chain of Custody Record

eurofins | Environment Testing America

9/23/2024

Client Information	Sampler: Mason Bond + HMT Team	Lab PM: Kudchadkar Sachin G	Carrier Tracking No(s):	COC No: 860-3614-1220.1
Client Contact: Mike Schofield	Phone: 281-725-4825	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: TX	Page: Page 2 of 2
Company: GSI Environmental, Inc	PWSID:			Job #:
Address: 9600 Great Hills Trail Suite 350E	Due Date Requested:			
City: Austin	TAT Requested (days):			
State, Zip: TX, 78759	Compliance Project: Δ Yes Δ No			
Phone: 512-346-4474(Tel) 512-346-4476(Fax)	PO #:			
Email: mlschofield@gsi-net.com	WO #:			
Project Name: San Miguel Electrical Co-Op GW	Project #: 86001746			
Site: ~~Ash Pond~~ MDB (Equalization Pond)	SSOW#:			

Analysis Requested

Preservation Codes:

A	HCL	M	Hexane
B	NaOH	N	None
C	Zn Acetate	O	AsNaO2
D	Nitric Acid	P	Na2O4S
E	NaHSO4	Q	Na2SO3
F	MeOH	R	Na2S2O3
G	Amchlor	S	H2SO4
H	Ascorbic Acid	T	TSP Dodecahydrate
I	Ice	U	Acetone
J	DI Water	V	MCAA
K	EDTA	W	pH 4-5
L	EDA	Z	other (specify)

Other

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Wwater, Ssolid, Owaste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2320B, Alkalinity	6020A -7470- B, Ca,Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl;Hg- Eurofins Pittsburg (+Na, Mg, K)	2540C_TDS	300- Cl, F, SO4	901 1_Ra- Rad 228 Eurofins St Louis	SM7500_Ra_B Rad 226- South Bond IN								Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	D	N	N	D	D									
EP-31 (MS)	8-14-24	1155	G	Water		Y	X	X	X	X	X	X									
EP-31 (MSD)		1155		Water		Y	X	X	X	X	X	X									
EB-02		1040		Water			X	X	X	X	X	X									
Dup-03		1200		Water			X	X	X	X	X	X									
FB-03		900		Water			X	X	X	X	X	X									
				Water																	
				Water																	
				Water																	
				Water																	
				Water																	
				Water																	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III IV Other (specify)

Special Instructions/QC Requirements: ~~EDR-Appendix III and IV~~ MDB

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: Cody Springer	Date/Time: 8-15-24 / 939	Company: HMT	Received by: [signature] Date/Time: 8/15/24 9:39 Company
Relinquished by:	Date/Time:	Company	Received by: Date/Time: Company
Relinquished by:	Date/Time:	Company	Received by: Date/Time: Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks:

Ver 01/16/2019

ORIGIN ID:SGRA (281) 240-4200
ADMINISTRATIVE OFFICES
XENCO HOUSTON
4145 GREENBRIAR DR

STAFFORD, TX 77477
UNITED STATES US

SHIP DATE: 15AUG24
ACTWGT: 10.00 LB
CAD: 110169707/INET4730

BILL SENDER

TO **SHIPPING AND RECEIVING**
EUROFINS TEST AMERICA, PITTSBURGH
301 ALPHA DRIVE RIDC PARK

PITTSBURGH PA 15238
(412) 963-7058
INV:
PO:
REF
DEPT.

583J6/A12D/9AE3

FedEx Express

Uncorrected temp 1.6 -0.4
Thermometer ID Melted Ice
Initials PM
CF -0.4

PT-WI-SR-001 effective 11/8/18

FRI - 16 AUG 10:30A
PRIORITY OVERNIGHT

TRK# 0201 **7779 9368 1745**

NX AGCA

15238
PA-US **PIT**

After printing this label:
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2. Fold the printed page along the horizontal line.
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Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com.FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery,misdelivery,or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim.Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental,consequential, or special is limited to the greater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss.Maximum for items of extraordinary value is $1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

860-80539 Waybill

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-147091.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@et.eurofinsus.com	State of Origin: Texas	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 860-80539-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 9/13/2024			Preservation Codes: -
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: San Miguel Electrical Co-Op 2H23 GW	Project #: 86001746			
Site:	SSOW#:			Other:

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)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	904.0/PrecSep_0 Standard Target List	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
EP-31 (860-80539-1)	8/14/24	11:55 Central		Water			X	1	
EP-31 (860-80539-1MS)	8/14/24	11:55 Central	MS	Water			X	1	
EP-31 (860-80539-1MSD)	8/14/24	11:55 Central	MSD	Water			X	1	
EP-32 (860-80539-2)	8/14/24	12:35 Central		Water			X	1	
EP-33 (860-80539-3)	8/14/24	11:45 Central		Water			X	1	
EP-34 (860-80539-4)	8/14/24	10:45 Central		Water			X	1	
EP-35 (860-80539-5)	8/14/24	09:45 Central		Water			X	1	
EP-36 (860-80539-6)	8/14/24	08:15 Central		Water			X	1	
EP-37 (860-80539-7)	8/14/24	10:50 Central		Water			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification: Unconfirmed	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 8/15/24	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: M. Pinette	Date/Time: AUG 16 2024 0910	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 04/02/2024

9/23/2024

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-147091.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@et.eurofinsus.com	State of Origin: Texas	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 860-80539-1
Address: 13715 Rider Trail North,	Due Date Requested: 9/13/2024			Preservation Codes: -
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: San Miguel Electrical Co-Op 2H23 GW	Project #: 86001746			
Site:	SSOW#:			Other:

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)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	904.0/PrecSep_0 Standard Target List	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
EP-38 (860-80539-8)	8/14/24	11:15 Central		Water			X	1	
MW-04 (860-80539-9)	8/14/24	10:15 Central		Water			X	1	
EB-02 (860-80539-10)	8/14/24	10:40 Central		Water			X	1	
DUP-03 (860-80539-11)	8/14/24	12:00 Central		Water			X	1	
FB-03 (860-80539-12)	8/14/24	09:00 Central		Water			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification: Unconfirmed	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 8/15/24	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: M. Pinette	Date/Time: AUG 16 2024 0710	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 04/02/2024

Eurofins Eaton Analytical South Bend
110 S Hill Street
South Bend, IN 46617
Phone: 574-233-4777 Fax: 574-233-8207

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 810-44590.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@et.eurofinsus.com	State of Origin: Texas	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 860-80539-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 9/19/2024			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: Equilization Pond	Project #: 86001746			
Site:	SSOW#:			

Analysis Requested

Preservation Codes: -

Other:

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)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	904.0/PrecSep_0 Standard Target List	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
EP-31 (860-80539-1)	8/14/24	11:55 Central		Water			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Eaton Analytical, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Eaton Analytical, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Eaton Analytical, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Eaton Analytical, LLC.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		8-16-24 1600		Sierra Worthington	AUG 20 2024 0920	EATSB
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 04/02/2024

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s)	COC No: 860-147090.1
Client Contact: Shipping/Receiving	Phone	E-Mail: Sachin.Kudchadkar@et.eurofinsus.com	State of Origin: Texas	Page: Page 1 of 2
Company: Eurofins Environment Testing Northeast L		Accreditations Required (See note): NELAP - Texas		Job #: 860-80539-1
Address: 301 Alpha Drive, RIDC Park,	Due Date Requested: 9/10/2024			Preservation Codes:
City: Pittsburgh	TAT Requested (days):			
State, Zip: PA, 15238				
Phone: 412-963-7058(Tel) 412-963-2468(Fax)	PO #:			
Email	WO #:			
Project Name: San Miguel Electrical Co-Op 2H23 GW	Project #: 86001746			Other:
Site	SSOW#:			

Analysis Requested

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)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020A/3005A (MOD) Custom List	7470A/7470A_Prep	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
EP-31 (860-80539-1)	8/14/24	11:55 Central		Water			X	X	1	Please analyze at the lowest possible dilution
EP-31 (860-80539-1MS)	8/14/24	11:55 Central	MS	Water			X	X	1	Please analyze at the lowest possible dilution
EP-31 (860-80539-1MSD)	8/14/24	11:55 Central	MSD	Water			X	X	1	Please analyze at the lowest possible dilution
EP-32 (860-80539-2)	8/14/24	12:35 Central		Water			X	X	1	Please analyze at the lowest possible dilution
EP-33 (860-80539-3)	8/14/24	11:45 Central		Water			X	X	1	Please analyze at the lowest possible dilution
EP-34 (860-80539-4)	8/14/24	10:45 Central		Water			X	X	1	Please analyze at the lowest possible dilution
EP-35 (860-80539-5)	8/14/24	09:45 Central		Water			X	X	1	Please analyze at the lowest possible dilution
EP-36 (860-80539-6)	8/14/24	08:15 Central		Water			X	X	1	Please analyze at the lowest possible dilution
EP-37 (860-80539-7)	8/14/24	10:50 Central		Water			X	X	1	Please analyze at the lowest possible dilution

860-80539 Chain of Custody

Note Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested. I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by:	Date/Time: 8/15/24	Company	Received by:	Date/Time.	Company
Relinquished by:	Date/Time	Company	Received by:	Date/Time.	Company
Relinquished by:	Date/Time	Company	Received by:	Date/Time.	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No..	Cooler Temperature(s) °C and Other Remarks

Ver: 04/02/2024

9/23/2024

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s)	COC No. 860-147090.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@et.eurofinsus.com	State of Origin: Texas	Page: Page 2 of 2
Company: Eurofins Environment Testing Northeast L		Accreditations Required (See note): NELAP - Texas		Job #: 860-80539-1
Address: 301 Alpha Drive, RIDC Park,	Due Date Requested: 9/10/2024			Preservation Codes: -
City: Pittsburgh	TAT Requested (days):			
State, Zip: PA, 15238				
Phone: 412-963-7058(Tel) 412-963-2468(Fax)	PO #:			
Email:	WO #:			
Project Name: San Miguel Electrical Co-Op 2H23 GW	Project #: 86001746			
Site:	SSOW#:			Other:

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)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Analysis Requested: 6020A/3005A (MOD) Custom List	Analysis Requested: 7470A/7470A_Prep	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
EP-38 (860-80539-8)	8/14/24	11:15 Central		Water			X	X	1	Please analyze at the lowest possible dilution
MW-04 (860-80539-9)	8/14/24	10:15 Central		Water			X	X	1	Please analyze at the lowest possible dilution
EB-02 (860-80539-10)	8/14/24	10:40 Central		Water			X	X	1	Please analyze at the lowest possible dilution
DUP-03 (860-80539-11)	8/14/24	12:00 Central		Water			X	X	1	Please analyze at the lowest possible dilution
FB-03 (860-80539-12)	8/14/24	09:00 Central		Water			X	X	1	Please analyze at the lowest possible dilution

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:				
Relinquished by:	Date/Time: 8/15/24	Company	Received by:	Date/Time	Company		
Relinquished by:	Date/Time	Company	Received by:	Date/Time.	Company		
Relinquished by:	Date/Time.	Company	Received by:	Date/Time.	Company		

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-147088.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@et.eurofinsus.com	State of Origin: Texas	Page: Page 1 of 2
Company: Eurofins Eaton Analytical		Accreditations Required (See note): NELAP - Texas		Job #: 860-80539-1
Address: 110 S Hill Street, ,	Due Date Requested: 9/13/2024			Preservation Codes:
City: South Bend	TAT Requested (days):			
State, Zip: IN, 46617				
Phone: 574-233-4777(Tel) 574-233-8207(Fax)	PO #:			
Email:	WO #:			
Project Name: San Miguel Electrical Co-Op 2H23 GW	Project #: 86001746			
Site:	SSOW#:			Other:

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)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SM7500_Ra_B/Rad_Prep Radium 226	Total	Special Instructions/Note:
			Preservation Code:						
EP-31 (860-80539-1)	8/14/24	11:55 Central		Water			X	2	Sample 11 Spilled No Sample
EP-31 (860-80539-1MS)	8/14/24	11:55 Central	MS	Water			X	2	
EP-31 (860-80539-1MSD)	8/14/24	11:55 Central	MSD	Water			X	2	
EP-32 (860-80539-2)	8/14/24	12:35 Central		Water			X	2	Initial Temp: 11.4 Corrected Temp: 14.5 IR Gun # left-gun 8-16-24
EP-33 (860-80539-3)	8/14/24	11:45 Central		Water			X	2	
EP-34 (860-80539-4)	8/14/24	10:45 Central		Water			X	2	
EP-35 (860-80539-5)	8/14/24	09:45 Central		Water			X	2	
EP-36 (860-80539-6)	8/14/24	08:15 Central		Water			X	2	
EP-37 (860-80539-7)	8/14/24	10:50 Central		Water			X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification: Unconfirmed	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 04/02/2024

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-147088.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@et.eurofinsus.com	State of Origin: Texas	Page: Page 2 of 2
Company: Eurofins Eaton Analytical		Accreditations Required (See note): NELAP - Texas		Job #: 860-80539-1
Address: 110 S Hill Street, ,	Due Date Requested: 9/13/2024	Analysis Requested		Preservation Codes: -
City: South Bend	TAT Requested (days):			
State, Zip: IN, 46617				
Phone: 574-233-4777(Tel) 574-233-8207(Fax)	PO #:			
Email:	WO #:			
Project Name: San Miguel Electrical Co-Op 2H23 GW	Project #: 86001746			
Site:	SSOW#:			Other:

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)	Filtered Sample (Yes or No)	MS/MSD (Yes or No)	SM7500_Ra_B/Rad_Prep Radium 226	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
EP-38 (860-80539-8)	8/14/24	11:15 Central		Water			X	2	
MW-04 (860-80539-9)	8/14/24	10:15 Central		Water			X	2	
EB-02 (860-80539-10)	8/14/24	10:40 Central		Water			X	2	
DUP-03 (860-80539-11)	8/14/24	12:00 Central		Water			X	2	
FB-03 (860-80539-12)	8/14/24	09:00 Central		Water			X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 04/02/2024

Login Sample Receipt Checklist

Client: GSI Environmental Inc

Job Number: 860-80539-1

Login Number: 80539

List Source: Eurofins Houston

List Number: 1

Creator: Torrez, Lisandra

Question	Answer	Comment
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	

Login Sample Receipt Checklist

Client: GSI Environmental Inc

Job Number: 860-80539-1

Login Number: 80539
List Number: 3
Creator: Moore, Gary

List Source: Eurofins Eaton Analytical South Bend
List Creation: 08/16/24 02:53 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	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	
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.	False	Refer to Job Narrative for details.
Sample collection date/times are provided.	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	
Samples do not require splitting or compositing.	True	
Container provided by EEA	False	Client provided containers

Login Sample Receipt Checklist

Client: GSI Environmental Inc

Job Number: 860-80539-1

Login Number: 80539
List Number: 4
Creator: Mullins, Plumm A

List Source: Eurofins Pittsburgh
List Creation: 08/17/24 01:59 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are 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?	N/A	
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	

Login Sample Receipt Checklist

Client: GSI Environmental Inc

Job Number: 860-80539-1

Login Number: 80539
List Number: 2
Creator: Pinette, Meadow L

List Source: Eurofins St. Louis
List Creation: 08/16/24 01:16 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
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?	N/A	
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").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: GSI Environmental Inc

Job Number: 860-80539-1

Login Number: 80539
List Number: 5
Creator: Worthington, Sierra M

List Source: Eurofins St. Louis
List Creation: 08/20/24 01:12 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
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?	N/A	
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").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

DATA USABILITY SUMMARY

October 2024 Sampling Event (Job ID: 860-84573-1)

OVERVIEW

GSI Environmental Inc. (GSI) reviewed one data package from Eurofins Houston located in Stafford, Texas (EET HOU) for the analysis of **three groundwater samples collected at the Ash Pile on 10 October 2024** at the San Miguel Electric Cooperative, Inc., Christine, Atascosa County, Texas site. Data were reviewed for i) conformance to the requirements of the guidance document *Review and Reporting of COC Concentration Data* (RG-366/TRRP-13) and ii) adherence to project objectives (e.g., GSI 2019). GSI certifies that at the time the laboratory data were generated for the project, EET HOU was National Environmental Laboratory Accreditation Program (NELAP)-accredited under the Texas Laboratory Accreditation Program (Certification Number: T104704215) for the matrices, analytes, and methods of analysis requested on the chain-of-custody documentation. A copy of EET HOU's NELAP certificates applicable to the period during which the laboratory generated the data in this report is included as Attachment A. No radiochemistry analyses were performed because the Ash Pile is in detection monitoring.

Intended Use of Data

Samples were collected to provide current data on groundwater conditions at the test location. The samples were collected as part of a resampling event to confirm concentrations. As a result, a focused list of analytes was requested as compared to a typical semiannual monitoring event at the Ash Pile. Analyses requested included:

- Method 6020A - Metals (Inductively Coupled Plasma (ICP)/Mass Spectrometry)
- Method 300.0 – Anions, Ion Chromatography

Data were reviewed and validated, as described in *Review and Reporting of COC Concentration Data* (RG-366/TRRP-13), and the results are discussed in this Data Usability Summary (DUS). The following laboratory submittals and field data were examined:

- the reportable data (i.e., results provided in the laboratory data package),
- the laboratory review checklists and associated exception reports, and
- the field notes with respect to field instrument calibrations, filtering procedures (if applicable), and sampling procedures.

The results of supporting quality control (QC) analyses were summarized in the laboratory case narrative (LCN), which was included in this review. The case narrative and reportable data included in this review are attached to this DUS as Attachment B.

INTRODUCTION

Three (3) water samples were submitted to the laboratory, and all requested analyses were completed. Table 1 lists the sample identifications cross-referenced to laboratory identifications.

PROJECT MEASUREMENT QUALITY OBJECTIVES

The following criteria were used in this review:

	LCS/LCSD	
Analytes	% R	RPD
Metals	80 – 120	20
Inorganic Anions	90 – 110	20

DATA REVIEW / VALIDATION RESULTS

Analytical Results

Results from these samples may be considered usable with the limitations and exceptions described in this section. Sample data qualified as a result of this DUS, if any, are listed in Table 2. Non-detected results are reported as less than the value of the method detection limit (MDL). Results between the MDL and reporting (RL) are J-flagged.

Finding: All requested analyses were completed, and results were reported as requested.

Preservation and Holding Times

The samples were evaluated for agreement with the chain-of-custody (C-O-C). The samples were received by the laboratory in the appropriate containers and in good condition, with proper completion of the C-O-C documentation. Samples receipt temperature was within the acceptance criteria, and field preservation was done as specified in the Sampling and Analysis Plan [SAP] (GSI, 2019). Samples were prepared and analyzed within method-specified holding times. Items related to sample preparation are listed below.

- Samples SP-02, SP-03 and SP-32 by Method 6020A were diluted to bring the concentration of target analytes within the calibration range. Elevated RLs are provided.

Finding: No qualifiers were added per this evaluation.

Calibrations

No calibration issues were identified in the LCN or during review of the laboratory data package.

Finding: No qualifiers were added per this evaluation.

Blanks

Method (Laboratory) Blanks

No issues with the method blanks were noted in the LCN or during review of the laboratory data package.

Finding: No qualifiers were added per this evaluation.

Internal Standard and Surrogate Recoveries (VOCs and SVOCs Only)

Not applicable.

Laboratory Control Samples

The Laboratory Control Sample (LCS)/Laboratory Control Sample Duplicate (LCSD) recoveries and Relative Percent Differences (RPDs) were within the project-defined QC acceptance criteria.

Finding: No qualifiers were added per this evaluation.

Matrix Spike/Matrix Spike Duplicates and Laboratory Duplicates

Not applicable.

Field Duplicates (Field Precision)

Not applicable.

Field Procedures

Sample collection and documentation was done in accordance with the Groundwater Sampling and Analysis Plan (SAP; GSI, 2019).

Finding: Field activities were consistent with the SAP.

SUMMARY

The analytical data are usable for the purpose of characterizing groundwater conditions. No qualifiers were added based on this review and evaluation.

REFERENCES

GSI Environmental, Inc., 2019, Groundwater Sampling and Analysis Plan, San Miguel Electric Cooperative, Inc., December 26.

TCEQ 2010. Review and Reporting of COC Concentration Data under TRRP, RG-366/TRRP-13 https://www.tceq.texas.gov/assets/public/comm_exec/pubs/rg/rg-366-trrp-13.pdf

TABLES

TABLE 1
Cross-Reference Field Sample and Laboratory Identifications

Sample Date	Lab	Lab Sample ID	Field Sample ID	Matrix
10/10/2024	EET HOU	860-84573-1	SP-02	Water
10/10/2024	EET HOU	860-84573-2	SP-03	Water
10/10/2024	EET HOU	860-84573-3	SP-32	Water

Notes:
1. EET HOU: Eurofins Houston, Stafford, Texas

Attachment A

TCEQ NELAP-Recognized Laboratory Accreditation Certificates

Texas Commission on Environmental Quality

Certificate of Accreditation

Accreditation is hereby granted to

Eurofins Houston
4147 Greenbriar Dr.
Stafford, TX 77477

State Lab ID: T104704215
Effective Date: 07/01/2024
Expiration Date: 06/30/2025
Document ID: TX-C24-00243

Conditions of Accreditation

This laboratory has been found to conform with TCEQ rules and applicable standards for laboratory accreditation. The scope of accreditation is limited to the Fields of Accreditation (FoA) specifically listed on the subsequent page(s) of this certificate. Accreditation is for all version of a method approved per 40 CFR 136, 40 CFR 141, and/ or 40 CFR 143. Continued accreditation requires ongoing compliance with all applicable standards and requirements.

Note: For the attached FoA table, matrices may include DW (drinking water), NPW (non-potable water), S (solid and chemical materials), A (air), and/ or BT (biological tissue).

Issued By: Kelly Keel, Executive Director Texas Commission on Environmental Quality
Date Issued: 07/01/2024

Attachment B

Eurofins Houston – Stafford, Texas

Analytical Report

Job ID.: 860-84573-1

eurofins | Environment Testing

1 2 3 4 5 6 7 8 9 10 11 12 13 14

ANALYTICAL REPORT

PREPARED FOR

Attn: Mike Schofield
GSI Environmental Inc
9600 Great Hills Trail
Suite 350E
Austin, Texas 78759

Generated 10/16/2024 4:55:11 PM

JOB DESCRIPTION

San Miguel Electrical Co-Op 2H23 GW

JOB NUMBER

860-84573-1

Eurofins Houston
4145 Greenbriar Dr
Stafford TX 77477

See page two for job notes and contact information.

myEOL

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.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

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10/16/2024 4:55:11 PM

Authorized for release by
Sachin Kudchadkar, Senior Project Manager
Sachin.Kudchadkar@et.eurofinsus.com
(281)748-9025

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Sample Summary 13
Chain of Custody 14
Receipt Checklists 15

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
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.
☼	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)
TNTC	Too Numerous To Count

Job ID: 860-84573-1 — Eurofins Houston

Job Narrative
860-84573-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 10/11/2024 9:24 AM. 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 time was 1.7°C.

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

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

Detection Summary

Client: GSI Environmental Inc
Job ID: 860-84573-1
Project/Site: San Miguel Electrical Co-Op 2H23 GW

Client Sample ID: SP-02 — Lab Sample ID: 860-84573-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	13.4		0.500	0.200	mg/L	50		6020A	Total/NA

Client Sample ID: SP-03 — Lab Sample ID: 860-84573-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	989		20.0	6.01	mg/L	200		6020A	Total/NA

Client Sample ID: SP-32 — Lab Sample ID: 860-84573-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	263		0.500	0.250	mg/L	1		300.0	Total/NA
Calcium	596		20.0	6.01	mg/L	200		6020A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SP-02
Lab Sample ID: 860-84573-1

Date Collected: 10/10/24 11:35
Matrix: Water
Date Received: 10/11/24 09:24

Method: SW846 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	13.4		0.500	0.200	mg/L		10/15/24 09:35	10/16/24 12:38	50

Client Sample ID: SP-03
Lab Sample ID: 860-84573-2

Date Collected: 10/10/24 11:05
Matrix: Water
Date Received: 10/11/24 09:24

Method: SW846 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	989		20.0	6.01	mg/L		10/15/24 09:35	10/16/24 12:40	200

Client Sample ID: SP-32
Lab Sample ID: 860-84573-3

Date Collected: 10/10/24 10:35
Matrix: Water
Date Received: 10/11/24 09:24

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	263		0.500	0.250	mg/L			10/15/24 14:35	1

Method: SW846 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	596		20.0	6.01	mg/L		10/15/24 09:35	10/16/24 12:42	200

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-193624/19
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 193624

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.250	U	0.500	0.250	mg/L			10/15/24 12:00	1

Lab Sample ID: LCS 860-193624/20
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 193624

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.0	9.829		mg/L		98	90 - 110

Lab Sample ID: LCSD 860-193624/21
Client Sample ID: Lab Control Sample Dup
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 193624

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	10.0	9.775		mg/L		98	90 - 110	1	20

Lab Sample ID: LLCS 860-193624/23
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 193624

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	0.500	0.6152		mg/L		123	50 - 150

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 860-193613/1-A
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 194007
Prep Batch: 193613

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.00401	U	0.0100	0.00401	mg/L		10/15/24 09:33	10/16/24 12:26	1
Calcium	0.0301	U	0.100	0.0301	mg/L		10/15/24 09:33	10/16/24 12:26	1

Lab Sample ID: LCS 860-193613/2-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 194007
Prep Batch: 193613

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	0.100	0.09455		mg/L		95	80 - 120
Calcium	2.50	2.533		mg/L		101	80 - 120

Lab Sample ID: LCSD 860-193613/3-A
Client Sample ID: Lab Control Sample Dup
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 194007
Prep Batch: 193613

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	0.100	0.09572		mg/L		96	80 - 120	1	20
Calcium	2.50	2.542		mg/L		102	80 - 120	0	20

QC Association Summary

Client: GSI Environmental Inc
Job ID: 860-84573-1
Project/Site: San Miguel Electrical Co-Op 2H23 GW

HPLC/IC

Analysis Batch: 193624

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-84573-3	SP-32	Total/NA	Water	300.0	
MB 860-193624/19	Method Blank	Total/NA	Water	300.0	
LCS 860-193624/20	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-193624/21	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-193624/23	Lab Control Sample	Total/NA	Water	300.0	

Metals

Prep Batch: 193613

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-84573-1	SP-02	Total/NA	Water	3010A	
860-84573-2	SP-03	Total/NA	Water	3010A	
860-84573-3	SP-32	Total/NA	Water	3010A	
MB 860-193613/1-A	Method Blank	Total/NA	Water	3010A	
LCS 860-193613/2-A	Lab Control Sample	Total/NA	Water	3010A	
LCSD 860-193613/3-A	Lab Control Sample Dup	Total/NA	Water	3010A	

Analysis Batch: 194007

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-84573-1	SP-02	Total/NA	Water	6020A	193613
860-84573-2	SP-03	Total/NA	Water	6020A	193613
860-84573-3	SP-32	Total/NA	Water	6020A	193613
MB 860-193613/1-A	Method Blank	Total/NA	Water	6020A	193613
LCS 860-193613/2-A	Lab Control Sample	Total/NA	Water	6020A	193613
LCSD 860-193613/3-A	Lab Control Sample Dup	Total/NA	Water	6020A	193613

Lab Chronicle

Client: GSI Environmental Inc
Job ID: 860-84573-1
Project/Site: San Miguel Electrical Co-Op 2H23 GW

Client Sample ID: SP-02
Lab Sample ID: 860-84573-1
Date Collected: 10/10/24 11:35
Matrix: Water
Date Received: 10/11/24 09:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			50 mL	50 mL	193613	10/15/24 09:35	MD	EET HOU
Total/NA	Analysis	6020A		50			194007	10/16/24 12:38	DP	EET HOU

Client Sample ID: SP-03
Lab Sample ID: 860-84573-2
Date Collected: 10/10/24 11:05
Matrix: Water
Date Received: 10/11/24 09:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			50 mL	50 mL	193613	10/15/24 09:35	MD	EET HOU
Total/NA	Analysis	6020A		200			194007	10/16/24 12:40	DP	EET HOU

Client Sample ID: SP-32
Lab Sample ID: 860-84573-3
Date Collected: 10/10/24 10:35
Matrix: Water
Date Received: 10/11/24 09:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			193624	10/15/24 14:35	HN	EET HOU
Total/NA	Prep	3010A			50 mL	50 mL	193613	10/15/24 09:35	MD	EET HOU
Total/NA	Analysis	6020A		200			194007	10/16/24 12:42	DP	EET HOU

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: GSI Environmental Inc
Job ID: 860-84573-1
Project/Site: San Miguel Electrical Co-Op 2H23 GW

Laboratory: Eurofins Houston

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
6020A	3010A	Water	Calcium

Method Summary

Client: GSI Environmental Inc
Job ID: 860-84573-1
Project/Site: San Miguel Electrical Co-Op 2H23 GW

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	EPA	EET HOU
6020A	Metals (ICP/MS)	SW846	EET HOU
3010A	Preparation, Total Metals	SW846	EET HOU

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Sample Summary

Client: GSI Environmental Inc
Job ID: 860-84573-1
Project/Site: San Miguel Electrical Co-Op 2H23 GW

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-84573-1	SP-02	Water	10/10/24 11:35	10/11/24 09:24
860-84573-2	SP-03	Water	10/10/24 11:05	10/11/24 09:24
860-84573-3	SP-32	Water	10/10/24 10:35	10/11/24 09:24

Eurofins Xenco, Stafford
4147 Greenbriar Dr
Stafford, TX 77477
Phone (281) 240-4200

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: Jakob Trojan	Lab PM: Kudchadkar Sachin G	Carrier Tracking No(s):	COC No:
Client Contact: Mike Schofield	Phone: 832-314-8099	E-Mail: Sachin.Kudchadkar@Eurofinset.com		Page: Page 1 of 1
Company: GSI Environmental, Inc				Job #:
Address: 9600 Great Hills Trail Suite 350E	Due Date Requested:			
City: Austin	TAT Requested (days): Standard TAT			
State, Zip: TX, 78759				
Phone: 512-346-4474(Tel) 512-346-4476(Fax)	PO #:			
Email: mlschofield@gsi-net.com	WO #:			
Project Name: San Miguel Electrical Co-op GW	Project #: 86001746			
Site: Ash Pile – 2H24 Resample	SSOW#:			

Analysis Requested

Preservation Codes:

A HCL M Hexane
B NaOH N None
C Zn Acetate O AsNaO2
D Nitric Acid P Na2O4S
E NaHSO4 Q Na2SO3
F MeOH R Na2S2O3
G Amchlor S H2SO4
H Ascorbic Acid T TSP Dodecahydrate
I Ice U Acetone
J DI Water V MCAA
K EDTA W pH 4-5
L EDA Z other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020A B	6020A Ca	300 Cl	Total Number of containers	Special Instructions/Note:
			Preservation Code:				D	D	N		
SP-02	10 10-24	1135	G	Water			X			1	
SP-03	↓	1105	G	Water				X		1	
SP-32	↓	1035	G	Water				X	X	2	

860-84573 Chain of Custody

Temp: 1 8 IR ID:HOU-368
C/F:-0.1
Corrected Temp: 1.7

Possible Hazard Identification

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Jakob Trojan	10 11-24 916	HMI	YCRS	10/11/24 916	E
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: GSI Environmental Inc

Job Number: 860-84573-1

Login Number: 84573

List Number: 1

Creator: Rubio, Yuri

List Source: Eurofins Houston

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are 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 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	

GSI ENVIRONMENTAL

DATA USABILITY SUMMARY

December 2024 Sampling Event (Job ID: 860-88204-1)

OVERVIEW

GSI Environmental Inc. (GSI) reviewed one data package from Eurofins Houston located in Stafford, Texas (EET HOU) for the analysis of **three groundwater samples collected at the Ash Pile on 2 December 2024** at the San Miguel Electric Cooperative, Inc., Christine, Atascosa County, Texas site. Data were reviewed for i) conformance to the requirements of the guidance document *Review and Reporting of COC Concentration Data* (RG-366/TRRP-13) and ii) adherence to project objectives (e.g., GSI 2019). GSI certifies that at the time the laboratory data were generated for the project, EET HOU was National Environmental Laboratory Accreditation Program (NELAP)-accredited under the Texas Laboratory Accreditation Program (Certification Number: T104704215) for the matrices, analytes, and methods of analysis requested on the chain-of-custody documentation. A copy of EET HOU's NELAP certificates applicable to the period during which the laboratory generated the data in this report is included as Attachment A. No radiochemistry analyses were performed because the Ash Pile is in detection monitoring.

Intended Use of Data

Samples were collected to provide current data on groundwater conditions at the test location. The samples were collected as part of a resampling event to confirm concentrations. As a result, a focused list of analytes was requested as compared to a typical semiannual monitoring event at the Ash Pile. Analyses requested included:

- Method 6020A - Metals (Inductively Coupled Plasma (ICP)/Mass Spectrometry)

Data were reviewed and validated, as described in *Review and Reporting of COC Concentration Data* (RG-366/TRRP-13), and the results are discussed in this Data Usability Summary (DUS). The following laboratory submittals and field data were examined:

- the reportable data (i.e., results provided in the laboratory data package),
- the laboratory review checklists and associated exception reports, and
- the field notes with respect to field instrument calibrations, filtering procedures (if applicable), and sampling procedures.

The results of supporting quality control (QC) analyses were summarized in the laboratory case narrative (LCN), which was included in this review. The case narrative and reportable data included in this review are attached to this DUS as Attachment B.

INTRODUCTION

Three (3) water samples were submitted to the laboratory, and all requested analyses were completed. Table 1 lists the sample identifications cross-referenced to laboratory identifications.

PROJECT MEASUREMENT QUALITY OBJECTIVES

The following criteria were used in this review:

	LCS/LCSD	
Analytes	% R	RPD
Metals	80 – 120	20

DATA REVIEW / VALIDATION RESULTS

Analytical Results

Results from these samples may be considered usable with the limitations and exceptions described in this section. Sample data qualified as a result of this DUS, if any, are listed in Table 2. Non-detected results are reported as less than the value of the method detection limit (MDL). Results between the MDL and reporting (RL) are J-flagged.

Finding: All requested analyses were completed, and results were reported as requested.

Preservation and Holding Times

The samples were evaluated for agreement with the chain-of-custody (C-O-C). The samples were received by the laboratory in the appropriate containers and in good condition, with proper completion of the C-O-C documentation. Samples receipt temperature was within the acceptance criteria, and field preservation was done as specified in the Sampling and Analysis Plan [SAP] (GSI, 2019). Samples were prepared and analyzed within method-specified holding times. Items related to sample preparation are listed below.

- Samples SP-02, SP-03 and SP-32 by Method 6020A were diluted to bring the concentration of target analytes within the calibration range. Elevated RLs are provided.

Finding: No qualifiers were added per this evaluation.

Calibrations

No calibration issues were identified in the LCN or during review of the laboratory data package.

Finding: No qualifiers were added per this evaluation.

Blanks

Method (Laboratory) Blanks

No issues with the method blanks were noted in the LCN or during review of the laboratory data package.

Finding: No qualifiers were added per this evaluation.

Internal Standard and Surrogate Recoveries (VOCs and SVOCs Only)

Not applicable.

Laboratory Control Samples

The Laboratory Control Sample (LCS)/Laboratory Control Sample Duplicate (LCSD) recoveries and Relative Percent Differences (RPDs) were within the project-defined QC acceptance criteria.

Finding: No qualifiers were added per this evaluation.

Matrix Spike/Matrix Spike Duplicates and Laboratory Duplicates

Not applicable.

Field Duplicates (Field Precision)

Not applicable.

Field Procedures

Sample collection and documentation was done in accordance with the Groundwater Sampling and Analysis Plan (SAP; GSI, 2019).

Finding: Field activities were consistent with the SAP.

SUMMARY

The analytical data are usable for the purpose of characterizing groundwater conditions. No qualifiers were added based on this review and evaluation.

REFERENCES

GSI Environmental, Inc., 2019, Groundwater Sampling and Analysis Plan, San Miguel Electric Cooperative, Inc., December 26.

TCEQ 2010. Review and Reporting of COC Concentration Data under TRRP, RG-366/TRRP-13 https://www.tceq.texas.gov/assets/public/comm_exec/pubs/rg/rg-366-trrp-13.pdf

TABLES

TABLE 1
Cross-Reference Field Sample and Laboratory Identifications

Sample Date	Lab	Lab Sample ID	Field Sample ID	Matrix
12/02/2024	EET HOU	860-88204-1	SP-02	Water
12/02/2024	EET HOU	860-88204-2	SP-03	Water
12/02/2024	EET HOU	860-88204-3	SP-32	Water

Notes:
1. EET HOU: Eurofins Houston, Stafford, Texas

Attachment A

TCEQ NELAP-Recognized Laboratory Accreditation Certificates

Texas Commission on Environmental Quality

Certificate of Accreditation

Accreditation is hereby granted to

Eurofins Houston
4147 Greenbriar Dr.
Stafford, TX 77477

State Lab ID: T104704215
Effective Date: 07/01/2024
Expiration Date: 06/30/2025
Document ID: TX-C24-00243

Conditions of Accreditation

This laboratory has been found to conform with TCEQ rules and applicable standards for laboratory accreditation. The scope of accreditation is limited to the Fields of Accreditation (FoA) specifically listed on the subsequent page(s) of this certificate. Accreditation is for all version of a method approved per 40 CFR 136, 40 CFR 141, and/ or 40 CFR 143. Continued accreditation requires ongoing compliance with all applicable standards and requirements.

Note: For the attached FoA table, matrices may include DW (drinking water), NPW (non-potable water), S (solid and chemical materials), A (air), and/ or BT (biological tissue).

Issued By: Kelly Keel, Executive Director Texas Commission on Environmental Quality
Date Issued: 07/01/2024

Attachment B

Eurofins Houston – Stafford, Texas

Analytical Report

Job ID.: 860-88204-1

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mike Schofield
GSI Environmental Inc
9600 Great Hills Trail
Suite 350E
Austin, Texas 78759

Generated 12/9/2024 2:20:38 PM

JOB DESCRIPTION

San Miguel Electrical Co-Op

JOB NUMBER

860-88204-1

Eurofins Houston
4145 Greenbriar Dr
Stafford TX 77477

See page two for job notes and contact information.

my EOL

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.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

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12/9/2024 2:20:38 PM

Authorized for release by
Sachin Kudchadkar, Senior Project Manager
Sachin.Kudchadkar@et.eurofinsus.com
(281)748-9025

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Definitions/Glossary

Client: GSI Environmental Inc
Job ID: 860-88204-1
Project/Site: San Miguel Electrical Co-Op

Qualifiers

Metals

Qualifier	Qualifier Description
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.
☼	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)
TNTC	Too Numerous To Count

Job ID: 860-88204-1 — Eurofins Houston

Job Narrative
860-88204-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 12/3/2024 10:33 AM. 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 time was 2.8°C.

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

Detection Summary

Client: GSI Environmental Inc
Job ID: 860-88204-1
Project/Site: San Miguel Electrical Co-Op

Client Sample ID: SP-02 — Lab Sample ID: 860-88204-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	12.7		0.500	0.200	mg/L	50		6020A	Total/NA

Client Sample ID: SP-03 — Lab Sample ID: 860-88204-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	1020		5.00	1.50	mg/L	50		6020A	Total/NA

Client Sample ID: SP-32 — Lab Sample ID: 860-88204-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	654		5.00	1.50	mg/L	50		6020A	Total/NA

This Detection Summary does not include radiochemical test results.

Client: GSI Environmental Inc
Job ID: 860-88204-1
Project/Site: San Miguel Electrical Co-Op

Client Sample ID: SP-02
Lab Sample ID: 860-88204-1
Date Collected: 12/02/24 13:15
Matrix: Water
Date Received: 12/03/24 10:33

Method: SW846 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	12.7		0.500	0.200	mg/L		12/04/24 08:30	12/09/24 12:21	50

Client Sample ID: SP-03
Lab Sample ID: 860-88204-2
Date Collected: 12/02/24 12:45
Matrix: Water
Date Received: 12/03/24 10:33

Method: SW846 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	1020		5.00	1.50	mg/L		12/04/24 08:30	12/04/24 16:12	50

Client Sample ID: SP-32
Lab Sample ID: 860-88204-3
Date Collected: 12/02/24 12:10
Matrix: Water
Date Received: 12/03/24 10:33

Method: SW846 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	654		5.00	1.50	mg/L		12/04/24 08:30	12/04/24 16:15	50

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 860-203212/1-B
Matrix: Water
Analysis Batch: 203534

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 203262

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	0.0301	U	0.100	0.0301	mg/L		12/04/24 08:30	12/04/24 14:54	1

Lab Sample ID: MB 860-203212/1-B
Matrix: Water
Analysis Batch: 204179

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 203262

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.00401	U	0.0100	0.00401	mg/L		12/04/24 08:30	12/09/24 12:08	1

Lab Sample ID: LCS 860-203212/2-B
Matrix: Water
Analysis Batch: 203534

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 203262

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	2.50	2.589		mg/L		104	80 - 120

Lab Sample ID: LCS 860-203212/2-B
Matrix: Water
Analysis Batch: 204179

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 203262

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	0.100	0.09429		mg/L		94	80 - 120

Lab Sample ID: LCSD 860-203212/3-B
Matrix: Water
Analysis Batch: 203534

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 203262

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	2.50	2.526		mg/L		101	80 - 120	2	20

Lab Sample ID: LCSD 860-203212/3-B
Matrix: Water
Analysis Batch: 204179

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 203262

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	0.100	0.09383		mg/L		94	80 - 120	0	20

Metals

Filtration Batch: 203212

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-203212/1-B	Method Blank	Total/NA	Water	Filtration	
LCS 860-203212/2-B	Lab Control Sample	Total/NA	Water	Filtration	
LCSD 860-203212/3-B	Lab Control Sample Dup	Total/NA	Water	Filtration	

Prep Batch: 203262

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-88204-1	SP-02	Total/NA	Water	3010A	
860-88204-2	SP-03	Total/NA	Water	3010A	
860-88204-3	SP-32	Total/NA	Water	3010A	
MB 860-203212/1-B	Method Blank	Total/NA	Water	3010A	203212
LCS 860-203212/2-B	Lab Control Sample	Total/NA	Water	3010A	203212
LCSD 860-203212/3-B	Lab Control Sample Dup	Total/NA	Water	3010A	203212

Analysis Batch: 203534

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-88204-2	SP-03	Total/NA	Water	6020A	203262
860-88204-3	SP-32	Total/NA	Water	6020A	203262
MB 860-203212/1-B	Method Blank	Total/NA	Water	6020A	203262
LCS 860-203212/2-B	Lab Control Sample	Total/NA	Water	6020A	203262
LCSD 860-203212/3-B	Lab Control Sample Dup	Total/NA	Water	6020A	203262

Analysis Batch: 204179

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-88204-1	SP-02	Total/NA	Water	6020A	203262
MB 860-203212/1-B	Method Blank	Total/NA	Water	6020A	203262
LCS 860-203212/2-B	Lab Control Sample	Total/NA	Water	6020A	203262
LCSD 860-203212/3-B	Lab Control Sample Dup	Total/NA	Water	6020A	203262

Lab Chronicle

Client: GSI Environmental Inc
Job ID: 860-88204-1
Project/Site: San Miguel Electrical Co-Op

Client Sample ID: SP-02
Lab Sample ID: 860-88204-1
Date Collected: 12/02/24 13:15
Matrix: Water
Date Received: 12/03/24 10:33

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			50 mL	50 mL	203262	12/04/24 08:30	MD	EET HOU
Total/NA	Analysis	6020A		50			204179	12/09/24 12:21	DP	EET HOU

Client Sample ID: SP-03
Lab Sample ID: 860-88204-2
Date Collected: 12/02/24 12:45
Matrix: Water
Date Received: 12/03/24 10:33

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			50 mL	50 mL	203262	12/04/24 08:30	MD	EET HOU
Total/NA	Analysis	6020A		50			203534	12/04/24 16:12	DP	EET HOU

Client Sample ID: SP-32
Lab Sample ID: 860-88204-3
Date Collected: 12/02/24 12:10
Matrix: Water
Date Received: 12/03/24 10:33

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			50 mL	50 mL	203262	12/04/24 08:30	MD	EET HOU
Total/NA	Analysis	6020A		50			203534	12/04/24 16:15	DP	EET HOU

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: GSI Environmental Inc
Job ID: 860-88204-1
Project/Site: San Miguel Electrical Co-Op

Laboratory: Eurofins Houston

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
6020A	3010A	Water	Calcium

Method Summary

Client: GSI Environmental Inc
Job ID: 860-88204-1
Project/Site: San Miguel Electrical Co-Op

Method	Method Description	Protocol	Laboratory
6020A	Metals (ICP/MS)	SW846	EET HOU
3010A	Preparation, Total Metals	SW846	EET HOU

Protocol References:

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

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Sample Summary

Client: GSI Environmental Inc
Job ID: 860-88204-1
Project/Site: San Miguel Electrical Co-Op

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-88204-1	SP-02	Water	12/02/24 13:15	12/03/24 10:33
860-88204-2	SP-03	Water	12/02/24 12:45	12/03/24 10:33
860-88204-3	SP-32	Water	12/02/24 12:10	12/03/24 10:33

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone (281) 240-4200

Chain of Custody Record

eurofins Environment Testing America

12/9/2024

Client Information	Sampler: Jakob Trojan (HMI)	Lab PM: Kudchadkar Sachin G	Carrier Tracking No(s):	COC No:
Client Contact: Mike Schofield	Phone: 832-314-8099	E-Mail: Sachin.Kudchadkar@Eurofinset.com		Page: Page 1 of 1
Company: GSI Environmental, Inc				Job #:
Address: 9600 Great Hills Traill Suite 350E	Due Date Requested:			
City: Austin	TAT Requested (days):			
State, Zip: TX, 78759				
Phone: 512-346-4474(Tel) 512-346-4476(Fax)	PO #:			
Email: mischofield@gsi-net.com	WO #:			
Project Name: San Miguel Electrical Co-Op GW Resample (Dec 24)	Project #: 86001746			
Site: Ash Pile	SSOW#:			

Analysis Requested

Preservation Codes:

A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Z other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020A Calcium Only	6020A Boron Only	Total Number of containers	Special Instructions/Note:
			Preservation Code:				D	D		
SP-02	12-2 24	1315	G	Water				X	1	
SP-03	〃	1245	G	Water			X		1	
SP-32	〃	1210	G	Water			X		1	

Temp: 2.9 IR ID:HOU-368
C/F: -0.1
Corrected Temp: 2.8

860-88204 Chain of Custody

Possible Hazard Identification

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Jakob Trojan	12-3-24 0830	HMI	Matthew Danton	12-3 24 0830	HMI
2	Matthew Danton	12-3 24 1032	HMI		12/3/24 10'33	
3						

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: GSI Environmental Inc

Job Number: 860-88204-1

Login Number: 88204

List Source: Eurofins Houston

List Number: 1

Creator: Torrez, Lisandra

Question	Answer	Comment
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	

Job No. 5076
Issued: 31 January 2025

2024 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

San Miguel Electric Cooperative, Inc.
Christine, Atascosa County, Texas

Appendix B.3 Laboratory NELAP Accreditation

Jon Niermann, *Chairman*
Emily Lindley, *Commissioner*
Bobby Janecka, *Commissioner*
Kelly Keel, *Interim Executive Director*

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

August 31, 2023

Mr. David Krause
Eurofins Houston
4141-4147 Greenbriar Dr.
Stafford, TX 77477

Subject: Texas NELAP amendment application

Dear Mr. Krause:

Based on the amendment request submitted on July 14, 2023, I am enclosing an updated NELAP accreditation certificate and Fields of Accreditation listing. They replace the previous ones issued on July 10, 2023.

Please review the enclosures for accuracy and completeness. Your laboratory's accreditation is valid until the expiration date on the certificate and scope, contingent on continued compliance with the standards for accreditation and requirements of the state of Texas.

Please contact me at frank.jamison@tceq.texas.gov if I can provide any additional information or assistance.

Sincerely,

Frank Jamison
Data and Records Specialist

Enclosures

Texas Commission on Environmental Quality

NELAP-Recognized Laboratory Accreditation is hereby awarded to

Eurofins Houston

4147 Greenbriar Dr.
Stafford, TX 77477

in accordance with Texas Water Code Chapter 5, Subchapter R, Title 30 Texas Administrative Code Chapter 25, and the National Environmental Laboratory Accreditation Program.

The laboratory's scope of accreditation includes the fields of accreditation that accompany this certificate. Continued accreditation depends upon successful ongoing participation in the program. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current location(s) and accreditation status for particular methods and analyses (www.tceq.texas.gov/goto/lab). Accreditation does not imply that a product, process, system or person is approved by the Texas Commission on Environmental Quality.

Certificate Number: T104704215-23-53
Effective Date: 8/31/2023
Expiration Date: 6/30/2024

Executive Director Texas Commission on Environmental Quality

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

Certificate: T104704215-23-53
Expiration Date: 6/30/2024
Issue Date: 8/31/2023

Eurofins Houston

4147 Greenbriar Dr.
Stafford, TX 77477

These fields of accreditation supercede all previous fields. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current accreditation status for particular methods and analyses.

Matrix: ***Drinking Water***

Method EPA 200.7

Analyte	AB	Analyte ID	Method ID
Aluminum	TX	1000	10013806
Antimony	TX	1005	10013806
Arsenic	TX	1010	10013806
Barium	TX	1015	10013806
Beryllium	TX	1020	10013806
Boron	TX	1025	10013806
Cadmium	TX	1030	10013806
Chromium	TX	1040	10013806
Cobalt	TX	1050	10013806
Copper	TX	1055	10013806
Iron	TX	1070	10013806
Lead	TX	1075	10013806
Lithium	TX	1080	10013806
Magnesium	TX	1085	10013806
Manganese	TX	1090	10013806
Molybdenum	TX	1100	10013806
Nickel	TX	1105	10013806
Potassium	TX	1125	10013806
Selenium	TX	1140	10013806
Silica as SiO2	TX	1990	10013806
Silver	TX	1150	10013806
Sodium	TX	1155	10013806
Strontium	TX	1160	10013806
Tin	TX	1175	10013806
Titanium	TX	1180	10013806
Vanadium	TX	1185	10013806
Zinc	TX	1190	10013806

Method EPA 200.8

Analyte	AB	Analyte ID	Method ID

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

Certificate: T104704215-23-53

Eurofins Houston

Expiration Date: 6/30/2024

4147 Greenbriar Dr.
Stafford, TX 77477

Issue Date: 8/31/2023

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Matrix: ***Drinking Water***

Aluminum	TX	1000	10014605
Antimony	TX	1005	10014605
Arsenic	TX	1010	10014605
Barium	TX	1015	10014605
Beryllium	TX	1020	10014605
Cadmium	TX	1030	10014605
Chromium	TX	1040	10014605
Copper	TX	1055	10014605
Lead	TX	1075	10014605
Manganese	TX	1090	10014605
Nickel	TX	1105	10014605
Selenium	TX	1140	10014605
Silver	TX	1150	10014605
Thallium	TX	1165	10014605
Uranium	TX	3035	10014605
Zinc	TX	1190	10014605

Method EPA 245.1

Analyte	**AB**	**Analyte ID**	**Method ID**
Mercury	TX	1095	10036609

Method EPA 300.0

Analyte	**AB**	**Analyte ID**	**Method ID**
Bromide	TX	1540	10053200
Chloride	TX	1575	10053200
Fluoride	TX	1730	10053200
Nitrate as N	TX	1810	10053200
Nitrite as N	TX	1840	10053200
Sulfate	TX	2000	10053200

Method EPA 335.4

Analyte	**AB**	**Analyte ID**	**Method ID**
Total cyanide	TX	1645	10061402

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

Certificate: T104704215-23-53
Expiration Date: 6/30/2024
Issue Date: 8/31/2023

Eurofins Houston

4147 Greenbriar Dr.
Stafford, TX 77477

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Matrix: ***Drinking Water***

Method EPA 353.2

Analyte	AB	Analyte ID	Method ID
Nitrate as N	TX	1810	10067604
Nitrite as N	TX	1840	10067604

Method Kelada-01

Analyte	AB	Analyte ID	Method ID
Total cyanide	TX	1635	60005303

Method SM 2510 B

Analyte	AB	Analyte ID	Method ID
Conductivity	TX	1610	20048004

Method SM 2540 C

Analyte	AB	Analyte ID	Method ID
Residue-filterable (TDS)	TX	1955	20049803

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

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Matrix: ***Non-Potable Water***

Method EPA 1010

Analyte	AB	Analyte ID	Method ID
Ignitability	TX	1780	10234830

Method EPA 1311

Analyte	AB	Analyte ID	Method ID
TCLP	TX	849	10118806

Method EPA 1312

Analyte	AB	Analyte ID	Method ID
SPLP	TX	850	10119003

Method EPA 160.4

Analyte	AB	Analyte ID	Method ID
Residue-volatile	TX	1970	10010409

Method EPA 1664

Analyte	AB	Analyte ID	Method ID
n-Hexane Extractable Material (HEM) (O&G)	TX	1803	10127807
Silica Gel Treated n-Hexane Extractable Material (SGT-HEM)	TX	10220	10127807

Method EPA 180.1

Analyte	AB	Analyte ID	Method ID
Turbidity	TX	2055	10011606

Method EPA 200.7

Analyte	AB	Analyte ID	Method ID
Aluminum	TX	1000	10013806
Antimony	TX	1005	10013806
Arsenic	TX	1010	10013806
Barium	TX	1015	10013806
Beryllium	TX	1020	10013806
Boron	TX	1025	10013806
Cadmium	TX	1030	10013806
Calcium	TX	1035	10013806
Chromium	TX	1040	10013806
Cobalt	TX	1050	10013806

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

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4147 Greenbriar Dr.
Stafford, TX 77477

Certificate: T104704215-23-53
Expiration Date: 6/30/2024
Issue Date: 8/31/2023

These fields of accreditation supercede all previous fields. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current accreditation status for particular methods and analyses.

Matrix: ***Non-Potable Water***

Copper	TX	1055	10013806
Iron	TX	1070	10013806
Lead	TX	1075	10013806
Lithium	TX	1080	10013806
Magnesium	TX	1085	10013806
Manganese	TX	1090	10013806
Molybdenum	TX	1100	10013806
Nickel	TX	1105	10013806
Potassium	TX	1125	10013806
Selenium	TX	1140	10013806
Silica as SiO2	TX	1990	10013806
Silver	TX	1150	10013806
Sodium	TX	1155	10013806
Strontium	TX	1160	10013806
Thallium	TX	1165	10013806
Tin	TX	1175	10013806
Titanium	TX	1180	10013806
Vanadium	TX	1185	10013806
Zinc	TX	1190	10013806

Method EPA 200.8

Analyte	**AB**	**Analyte ID**	**Method ID**
Aluminum	TX	1000	10014605
Antimony	TX	1005	10014605
Arsenic	TX	1010	10014605
Barium	TX	1015	10014605
Beryllium	TX	1020	10014605
Boron	TX	1025	10014605
Cadmium	TX	1030	10014605
Chromium	TX	1040	10014605
Cobalt	TX	1050	10014605

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

Certificate: T104704215-23-53

Eurofins Houston

Expiration Date: 6/30/2024

4147 Greenbriar Dr.
Stafford, TX 77477

Issue Date: 8/31/2023

These fields of accreditation supercede all previous fields. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current accreditation status for particular methods and analyses.

Matrix: ***Non-Potable Water***

Copper	TX	1055	10014605
Iron	TX	1070	10014605
Lead	TX	1075	10014605
Magnesium	TX	1085	10014605
Manganese	TX	1090	10014605
Molybdenum	TX	1100	10014605
Nickel	TX	1105	10014605
Potassium	TX	1125	10014605
Selenium	TX	1140	10014605
Silver	TX	1150	10014605
Sodium	TX	1155	10014605
Strontium	TX	1160	10014605
Thallium	TX	1165	10014605
Tin	TX	1175	10014605
Titanium	TX	1180	10014605
Uranium	TX	3035	10014605
Vanadium	TX	1185	10014605
Zinc	TX	1190	10014605

Method EPA 245.1

Analyte	**AB**	**Analyte ID**	**Method ID**
Mercury	TX	1095	10036609

Method EPA 300.0

Analyte	**AB**	**Analyte ID**	**Method ID**
Bromide	TX	1540	10053200
Chloride	TX	1575	10053200
Fluoride	TX	1730	10053200
Nitrate as N	TX	1810	10053200
Nitrate-nitrite	TX	1820	10053200
Nitrite as N	TX	1840	10053200
Sulfate	TX	2000	10053200

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

Certificate: T104704215-23-53
Expiration Date: 6/30/2024
Issue Date: 8/31/2023

Eurofins Houston

4147 Greenbriar Dr.
Stafford, TX 77477

These fields of accreditation supercede all previous fields. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current accreditation status for particular methods and analyses.

Matrix: ***Non-Potable Water***

Method EPA 335.4

Analyte	AB	Analyte ID	Method ID
Total cyanide	TX	1645	10061402

Method EPA 350.1

Analyte	AB	Analyte ID	Method ID
Ammonia as N	TX	1515	10063408

Method EPA 351.2

Analyte	AB	Analyte ID	Method ID
Kjeldahl Nitrogen (Total Kjeldahl Nitrogen-TKN)	TX	1790	10065404

Method EPA 353.2

Analyte	AB	Analyte ID	Method ID
Nitrate as N	TX	1810	10067400
Nitrate-nitrite	TX	1820	10067400
Nitrite as N	TX	1840	10067400

Method EPA 360.1

Analyte	AB	Analyte ID	Method ID
Oxygen, dissolved	TX	1880	10069008

Method EPA 365.1

Analyte	AB	Analyte ID	Method ID
Orthophosphate as P	TX	1870	10070005
Phosphorus	TX	1910	10070005

Method EPA 420.4

Analyte	AB	Analyte ID	Method ID
Total phenolics	TX	1905	10080203

Method EPA 6010

Analyte	AB	Analyte ID	Method ID
Aluminum	TX	1000	10155916
Antimony	TX	1005	10155916
Arsenic	TX	1010	10155916
Barium	TX	1015	10155916
Beryllium	TX	1020	10155916

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

Certificate: T104704215-23-53
Expiration Date: 6/30/2024
Issue Date: 8/31/2023

Eurofins Houston

4147 Greenbriar Dr.
Stafford, TX 77477

These fields of accreditation supercede all previous fields. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current accreditation status for particular methods and analyses.

Matrix: ***Non-Potable Water***

Boron	TX	1025	10155916
Cadmium	TX	1030	10155916
Calcium	TX	1035	10155916
Chromium	TX	1040	10155916
Cobalt	TX	1050	10155916
Copper	TX	1055	10155916
Iron	TX	1070	10155916
Lead	TX	1075	10155916
Lithium	TX	1080	10155916
Magnesium	TX	1085	10155916
Manganese	TX	1090	10155916
Molybdenum	TX	1100	10155916
Nickel	TX	1105	10155916
Phosphorus	TX	1910	10155916
Potassium	TX	1125	10155916
Selenium	TX	1140	10155916
Silica as SiO2	TX	1990	10155916
Silver	TX	1150	10155916
Sodium	TX	1155	10155916
Strontium	TX	1160	10155916
Thallium	TX	1165	10155916
Tin	TX	1175	10155916
Titanium	TX	1180	10155916
Vanadium	TX	1185	10155916
Zinc	TX	1190	10155916

Method EPA 6020

Analyte	**AB**	**Analyte ID**	**Method ID**
Aluminum	TX	1000	10156420
Antimony	TX	1005	10156420
Arsenic	TX	1010	10156420

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Matrix: ***Non-Potable Water***

Barium	TX	1015	10156420
Beryllium	TX	1020	10156420
Boron	TX	1025	10156420
Cadmium	TX	1030	10156420
Chromium	TX	1040	10156420
Cobalt	TX	1050	10156420
Copper	TX	1055	10156420
Iron	TX	1070	10156420
Lead	TX	1075	10156420
Magnesium	TX	1085	10156420
Manganese	TX	1090	10156420
Molybdenum	TX	1100	10156420
Nickel	TX	1105	10156420
Potassium	TX	1125	10156420
Selenium	TX	1140	10156420
Silver	TX	1150	10156420
Sodium	TX	1155	10156420
Strontium	TX	1160	10156420
Thallium	TX	1165	10156420
Tin	TX	1175	10156420
Titanium	TX	1180	10156420
Vanadium	TX	1185	10156420
Zinc	TX	1190	10156420

Method EPA 608.3

Analyte	AB	Analyte ID	Method ID
4,4'-DDD	TX	7355	10296625
4,4'-DDE	TX	7360	10296625
4,4'-DDT	TX	7365	10296625
Aldrin	TX	7025	10296625
alpha-BHC (alpha-Hexachlorocyclohexane)	TX	7110	10296625

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Matrix: ***Non-Potable Water***

alpha-Chlordane	TX	7240	10296625
Aroclor-1016 (PCB-1016)	TX	8880	10296625
Aroclor-1221 (PCB-1221)	TX	8885	10296625
Aroclor-1232 (PCB-1232)	TX	8890	10296625
Aroclor-1242 (PCB-1242)	TX	8895	10296625
Aroclor-1248 (PCB-1248)	TX	8900	10296625
Aroclor-1254 (PCB-1254)	TX	8905	10296625
Aroclor-1260 (PCB-1260)	TX	8910	10296625
beta-BHC (beta-Hexachlorocyclohexane)	TX	7115	10296625
Chlordane (tech.)	TX	7250	10296625
delta-BHC (delta-Hexachlorocyclohexane)	TX	7105	10296625
Dieldrin	TX	7470	10296625
Endosulfan I	TX	7510	10296625
Endosulfan II	TX	7515	10296625
Endosulfan sulfate	TX	7520	10296625
Endrin	TX	7540	10296625
Endrin aldehyde	TX	7530	10296625
gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	TX	7120	10296625
gamma-Chlordane	TX	7245	10296625
Heptachlor	TX	7685	10296625
Heptachlor epoxide	TX	7690	10296625
Methoxychlor	TX	7810	10296625
Toxaphene (Chlorinated camphene)	TX	8250	10296625

Method EPA 615

Analyte	**AB**	**Analyte ID**	**Method ID**
2,4,5-T	TX	8655	10298201
2,4-D	TX	8545	10298201
2,4-DB	TX	8560	10298201
Dalapon	TX	8555	10298201
Dicamba	TX	8595	10298201

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Matrix: ***Non-Potable Water***

Dichloroprop (Dichlorprop, Weedone)	TX	8605	10298201
Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	TX	8620	10298201
MCPA	TX	7775	10298201
MCPP	TX	7780	10298201
Silvex (2,4,5-TP)	TX	8650	10298201

Method EPA 624.1

Analyte	**AB**	**Analyte ID**	**Method ID**
1,1,1-Trichloroethane	TX	5160	10298121
1,1,2,2-Tetrachloroethane	TX	5110	10298121
1,1,2-Trichloroethane	TX	5165	10298121
1,1-Dichloroethane	TX	4630	10298121
1,1-Dichloroethylene	TX	4640	10298121
1,2-Dibromoethane (EDB, Ethylene dibromide)	TX	4585	10298121
1,2-Dichlorobenzene	TX	4610	10298121
1,2-Dichloroethane (Ethylene dichloride)	TX	4635	10298121
1,2-Dichloropropane	TX	4655	10298121
1,3-Dichlorobenzene	TX	4615	10298121
1,4-Dichlorobenzene	TX	4620	10298121
2-Butanone (Methyl ethyl ketone, MEK)	TX	4410	10298121
2-Chloroethyl vinyl ether	TX	4500	10298121
Acetone (2-Propanone)	TX	4315	10298121
Acrolein (Propenal)	TX	4325	10298121
Acrylonitrile	TX	4340	10298121
Benzene	TX	4375	10298121
Bromodichloromethane	TX	4395	10298121
Bromoform	TX	4400	10298121
Carbon tetrachloride	TX	4455	10298121
Chlorobenzene	TX	4475	10298121
Chlorodibromomethane	TX	4575	10298121
Chloroethane (Ethyl chloride)	TX	4485	10298121

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Matrix: ***Non-Potable Water***

Chloroform	TX	4505	10298121
cis-1,2-Dichloroethylene	TX	4645	10298121
cis-1,3-Dichloropropene	TX	4680	10298121
Ethylbenzene	TX	4765	10298121
m+p-xylene	TX	5240	10298121
Methyl bromide (Bromomethane)	TX	4950	10298121
Methyl chloride (Chloromethane)	TX	4960	10298121
Methyl tert-butyl ether (MTBE)	TX	5000	10298121
Methylene chloride (Dichloromethane)	TX	4975	10298121
o-Xylene	TX	5250	10298121
Tetrachloroethylene (Perchloroethylene)	TX	5115	10298121
Toluene	TX	5140	10298121
trans-1,2-Dichloroethylene	TX	4700	10298121
trans-1,3-Dichloropropylene	TX	4685	10298121
Trichloroethene (Trichloroethylene)	TX	5170	10298121
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	TX	5175	10298121
Vinyl chloride	TX	5235	10298121
Xylene (total)	TX	5260	10298121

Method EPA 625.1

Analyte	**AB**	**Analyte ID**	**Method ID**
1,2,4,5-Tetrachlorobenzene	TX	6715	10300024
1,2,4-Trichlorobenzene	TX	5155	10300024
1,2-Dichlorobenzene	TX	4610	10300024
1,2-Diphenylhydrazine	TX	6221	10300024
1,3-Dichlorobenzene	TX	4615	10300024
1,4-Dichlorobenzene	TX	4620	10300024
2,2'-Oxybis(1-chloropropane) (bis(2-Chloro-1-methylethyl)ether)	TX	4659	10300024
2,3,4,6-Tetrachlorophenol	TX	6735	10300024
2,4,5-Trichlorophenol	TX	6835	10300024
2,4,6-Trichlorophenol	TX	6840	10300024

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Matrix: ***Non-Potable Water***

2,4-Dichlorophenol	TX	6000	10300024
2,4-Dimethylphenol	TX	6130	10300024
2,4-Dinitrophenol	TX	6175	10300024
2,4-Dinitrotoluene (2,4-DNT)	TX	6185	10300024
2,6-Dinitrotoluene (2,6-DNT)	TX	6190	10300024
2-Chloronaphthalene	TX	5795	10300024
2-Chlorophenol	TX	5800	10300024
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	TX	6360	10300024
2-Methylphenol (o-Cresol)	TX	6400	10300024
2-Nitrophenol	TX	6490	10300024
3,3'-Dichlorobenzidine	TX	5945	10300024
4,4'-DDD	TX	7355	10300024
4,4'-DDE	TX	7360	10300024
4,4'-DDT	TX	7365	10300024
4-Bromophenyl phenyl ether (BDE-3)	TX	5660	10300024
4-Chloro-3-methylphenol	TX	5700	10300024
4-Chlorophenyl phenylether	TX	5825	10300024
4-Methylphenol (p-Cresol)	TX	6410	10300024
4-Nitrophenol	TX	6500	10300024
Acenaphthene	TX	5500	10300024
Acenaphthylene	TX	5505	10300024
Aldrin	TX	7025	10300024
alpha-BHC (alpha-Hexachlorocyclohexane)	TX	7110	10300024
alpha-Chlordane	TX	7240	10300024
Anthracene	TX	5555	10300024
Aroclor-1016 (PCB-1016)	TX	8880	10300024
Aroclor-1221 (PCB-1221)	TX	8885	10300024
Aroclor-1232 (PCB-1232)	TX	8890	10300024
Aroclor-1242 (PCB-1242)	TX	8895	10300024
Aroclor-1248 (PCB-1248)	TX	8900	10300024

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Matrix: ***Non-Potable Water***

Aroclor-1254 (PCB-1254)	TX	8905	10300024
Aroclor-1260 (PCB-1260)	TX	8910	10300024
Benzidine	TX	5595	10300024
Benzo(a)anthracene	TX	5575	10300024
Benzo(a)pyrene	TX	5580	10300024
Benzo(b)fluoranthene	TX	5585	10300024
Benzo(g,h,i)perylene	TX	5590	10300024
Benzo(k)fluoranthene	TX	5600	10300024
beta-BHC (beta-Hexachlorocyclohexane)	TX	7115	10300024
bis(2-Chloroethoxy)methane	TX	5760	10300024
bis(2-Chloroethyl) ether	TX	5765	10300024
bis(2-Ethylhexyl) phthalate (Di(2-Ethylhexyl) phthalate, DEHP)	TX	6065	10300024
Butyl benzyl phthalate	TX	5670	10300024
Chrysene	TX	5855	10300024
delta-BHC (delta-Hexachlorocyclohexane)	TX	7105	10300024
Dibenz(a,h) anthracene	TX	5895	10300024
Dieldrin	TX	7470	10300024
Diethyl phthalate	TX	6070	10300024
Dimethyl phthalate	TX	6135	10300024
Di-n-butyl phthalate	TX	5925	10300024
Di-n-octyl phthalate	TX	6200	10300024
Endosulfan I	TX	7510	10300024
Endosulfan II	TX	7515	10300024
Endosulfan sulfate	TX	7520	10300024
Endrin	TX	7540	10300024
Endrin aldehyde	TX	7530	10300024
Fluoranthene	TX	6265	10300024
Fluorene	TX	6270	10300024
gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	TX	7120	10300024
gamma-Chlordane	TX	7245	10300024

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Matrix: ***Non-Potable Water***

Heptachlor	TX	7685	10300024
Heptachlor epoxide	TX	7690	10300024
Hexachlorobenzene	TX	6275	10300024
Hexachlorobutadiene	TX	4835	10300024
Hexachlorocyclopentadiene	TX	6285	10300024
Hexachloroethane	TX	4840	10300024
Indeno(1,2,3-cd) pyrene	TX	6315	10300024
Isophorone	TX	6320	10300024
Naphthalene	TX	5005	10300024
Nitrobenzene	TX	5015	10300024
n-Nitrosodiethylamine	TX	6525	10300024
n-Nitrosodimethylamine	TX	6530	10300024
n-Nitrosodi-n-butylamine	TX	5025	10300024
n-Nitrosodi-n-propylamine	TX	6545	10300024
n-Nitrosodiphenylamine	TX	6535	10300024
Pentachlorobenzene	TX	6590	10300024
Pentachlorophenol	TX	6605	10300024
Phenanthrene	TX	6615	10300024
Phenol	TX	6625	10300024
Pyrene	TX	6665	10300024
Pyridine	TX	5095	10300024
Toxaphene (Chlorinated camphene)	TX	8250	10300024

Method EPA 632

Analyte	**AB**	**Analyte ID**	**Method ID**
Carbaryl (Sevin)	TX	7195	10108608

Method EPA 7196

Analyte	**AB**	**Analyte ID**	**Method ID**
Chromium (VI)	TX	1045	10162400

Method EPA 7470

Analyte	**AB**	**Analyte ID**	**Method ID**
Mercury	TX	1095	10165807

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Matrix: ***Non-Potable Water***

Method EPA 8011

Analyte	AB	Analyte ID	Method ID
1,2,3-Trichloropropane	TX	5180	10173009
1,2-Dibromo-3-chloropropane (DBCP)	TX	4570	10173009
1,2-Dibromoethane (EDB, Ethylene dibromide)	TX	4585	10173009

Method EPA 8015

Analyte	AB	Analyte ID	Method ID
Allyl alcohol	TX	4350	10305609
Diesel range organics (DRO)	TX	9369	10305609
Ethanol	TX	4750	10305609
Ethylene glycol	TX	4785	10305609
Gasoline range organics (GRO)	TX	9408	10305609
Isobutyl alcohol (2-Methyl-1-propanol)	TX	4875	10305609
Isopropyl alcohol (2-Propanol, Isopropanol)	TX	4895	10305609
Methanol	TX	4930	10305609
n-Butyl alcohol (1-Butanol, n-Butanol)	TX	4425	10305609
n-Propanol (1-Propanol)	TX	5055	10305609
Propylene Glycol	TX	6657	10305609

Method EPA 8081

Analyte	AB	Analyte ID	Method ID
4,4'-DDD	TX	7355	10178811
4,4'-DDE	TX	7360	10178811
4,4'-DDT	TX	7365	10178811
Alachlor	TX	7005	10178811
Aldrin	TX	7025	10178811
alpha-BHC (alpha-Hexachlorocyclohexane)	TX	7110	10178811
alpha-Chlordane	TX	7240	10178811
beta-BHC (beta-Hexachlorocyclohexane)	TX	7115	10178811
Chlordane (tech.)	TX	7250	10178811
delta-BHC (delta-Hexachlorocyclohexane)	TX	7105	10178811
Dicofol (Kelthane)	TX	7460	10178811

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Matrix: ***Non-Potable Water***

Dieldrin	TX	7470	10178811
Endosulfan I	TX	7510	10178811
Endosulfan II	TX	7515	10178811
Endosulfan sulfate	TX	7520	10178811
Endrin	TX	7540	10178811
Endrin aldehyde	TX	7530	10178811
Endrin ketone	TX	7535	10178811
gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	TX	7120	10178811
gamma-Chlordane	TX	7245	10178811
Heptachlor	TX	7685	10178811
Heptachlor epoxide	TX	7690	10178811
Methoxychlor	TX	7810	10178811
Mirex	TX	7870	10178811
Toxaphene (Chlorinated camphene)	TX	8250	10178811

Method EPA 8082

Analyte	**AB**	**Analyte ID**	**Method ID**
2,2',3,4,4',5'-Hexachlorobiphenyl (BZ-138)	TX	9025	10179201
2,2',3,4',5,5',6-Heptachlorobiphenyl (BZ-187)	TX	9080	10179201
2,2',3',4,5-Pentachlorobiphenyl (BZ-97)	TX	9154	10179201
2,2',3,5,5',6-Hexachlorobiphenyl (BZ-151)	TX	9035	10179201
2,2',3,5'-Tetrachlorobiphenyl (BZ-44)	TX	8945	10179201
2,2',4,5,5'-Pentachlorobiphenyl (BZ-101)	TX	8980	10179201
2,2',5,5'-Tetrachlorobiphenyl (BZ-52)	TX	8955	10179201
2,2',5-Trichlorobiphenyl (BZ-18)	TX	8930	10179201
2,3,3',4,5,5'-Hexachlorobiphenyl (BZ-159)	TX	9196	10179201
2,3,3',4',6-Pentachlorobiphenyl (BZ-110)	TX	8990	10179201
2,3',4,4'-Tetrachlorobiphenyl (BZ-66)	TX	8960	10179201
2,3-Dichlorobiphenyl (BZ-5)	TX	8920	10179201
2,4',5-Trichlorobiphenyl (BZ-31)	TX	8940	10179201
2-Chlorobiphenyl (BZ-1)	TX	8915	10179201

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Matrix: ***Non-Potable Water***

Aroclor-1016 (PCB-1016)	TX	8880	10179201
Aroclor-1221 (PCB-1221)	TX	8885	10179201
Aroclor-1232 (PCB-1232)	TX	8890	10179201
Aroclor-1242 (PCB-1242)	TX	8895	10179201
Aroclor-1248 (PCB-1248)	TX	8900	10179201
Aroclor-1254 (PCB-1254)	TX	8905	10179201
Aroclor-1260 (PCB-1260)	TX	8910	10179201
PCBs (total)	TX	8870	10179201

Method EPA 8151

Analyte	**AB**	**Analyte ID**	**Method ID**
2,4,5-T	TX	8655	10183207
2,4-D	TX	8545	10183207
2,4-DB	TX	8560	10183207
Dalapon	TX	8555	10183207
Dicamba	TX	8595	10183207
Dichloroprop (Dichlorprop, Weedone)	TX	8605	10183207
Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	TX	8620	10183207
MCPA	TX	7775	10183207
MCPP	TX	7780	10183207
Pentachlorophenol	TX	6605	10183207
Picloram	TX	8645	10183207
Silvex (2,4,5-TP)	TX	8650	10183207

Method EPA 8260

Analyte	**AB**	**Analyte ID**	**Method ID**
1,1,1,2-Tetrachloroethane	TX	5105	10307127
1,1,1-Trichloroethane	TX	5160	10307127
1,1,2,2-Tetrachloroethane	TX	5110	10307127
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	TX	5185	10307127
1,1,2-Trichloroethane	TX	5165	10307127
1,1-Dichloroethane	TX	4630	10307127
1,1-Dichloroethylene	TX	4640	10307127

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Matrix: ***Non-Potable Water***

1,1-Dichloropropene	TX	4670	10307127
1,2,3-Trichlorobenzene	TX	5150	10307127
1,2,3-Trichloropropane	TX	5180	10307127
1,2,4-Trichlorobenzene	TX	5155	10307127
1,2,4-Trimethylbenzene	TX	5210	10307127
1,2-Dibromo-3-chloropropane (DBCP)	TX	4570	10307127
1,2-Dibromoethane (EDB, Ethylene dibromide)	TX	4585	10307127
1,2-Dichlorobenzene	TX	4610	10307127
1,2-Dichloroethane (Ethylene dichloride)	TX	4635	10307127
1,2-Dichloropropane	TX	4655	10307127
1,3,5-Trimethylbenzene	TX	5215	10307127
1,3-Dichlorobenzene	TX	4615	10307127
1,3-Dichloropropane	TX	4660	10307127
1,4-Dichlorobenzene	TX	4620	10307127
1,4-Dioxane (1,4-Diethyleneoxide)	TX	4735	10307127
1-Chlorohexane	TX	4510	10307127
2,2-Dichloropropane	TX	4665	10307127
2-Butanone (Methyl ethyl ketone, MEK)	TX	4410	10307127
2-Chloroethyl vinyl ether	TX	4500	10307127
2-Chlorotoluene	TX	4535	10307127
2-Hexanone (MBK)	TX	4860	10307127
2-Nitropropane	TX	5020	10307127
4-Chlorotoluene	TX	4540	10307127
4-Isopropyltoluene (p-Cymene)	TX	4915	10307127
4-Methyl-2-pentanone (MIBK)	TX	4995	10307127
Acetone (2-Propanone)	TX	4315	10307127
Acetonitrile	TX	4320	10307127
Acrolein (Propenal)	TX	4325	10307127
Acrylonitrile	TX	4340	10307127
Allyl chloride (3-Chloropropene)	TX	4355	10307127

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Matrix: ***Non-Potable Water***

Benzene	TX	4375	10307127
Benzyl chloride	TX	5635	10307127
Bromobenzene	TX	4385	10307127
Bromochloromethane	TX	4390	10307127
Bromodichloromethane	TX	4395	10307127
Bromoform	TX	4400	10307127
Carbon disulfide	TX	4450	10307127
Carbon tetrachloride	TX	4455	10307127
Chlorobenzene	TX	4475	10307127
Chlorodibromomethane	TX	4575	10307127
Chloroethane (Ethyl chloride)	TX	4485	10307127
Chloroform	TX	4505	10307127
Chloroprene (2-Chloro-1,3-butadiene)	TX	4525	10307127
cis-1,2-Dichloroethylene	TX	4645	10307127
cis-1,3-Dichloropropene	TX	4680	10307127
cis-1,4-Dichloro-2-butene	TX	4600	10307127
Dibromofluoromethane	TX	4590	10307127
Dibromomethane (Methylene bromide)	TX	4595	10307127
Dichlorodifluoromethane (Freon-12)	TX	4625	10307127
Diethyl ether	TX	4725	10307127
Di-isopropylether (DIPE)	TX	9375	10307127
Epichlorohydrin (1-Chloro-2,3-epoxypropane)	TX	4745	10307127
Ethyl acetate	TX	4755	10307127
Ethyl methacrylate	TX	4810	10307127
Ethylbenzene	TX	4765	10307127
Ethylene oxide	TX	4795	10307127
Ethyl-t-butylether (ETBE) (2-Ethoxy-2-methylpropane)	TX	4770	10307127
Hexachlorobutadiene	TX	4835	10307127
Iodomethane (Methyl iodide)	TX	4870	10307127
Isobutyl alcohol (2-Methyl-1-propanol)	TX	4875	10307127

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Matrix: ***Non-Potable Water***

Isopropyl alcohol (2-Propanol, Isopropanol)	TX	4895	10307127
Isopropylbenzene (Cumene)	TX	4900	10307127
m+p-xylene	TX	5240	10307127
Methacrylonitrile	TX	4925	10307127
Methyl acetate	TX	4940	10307127
Methyl bromide (Bromomethane)	TX	4950	10307127
Methyl chloride (Chloromethane)	TX	4960	10307127
Methyl methacrylate	TX	4990	10307127
Methyl tert-butyl ether (MTBE)	TX	5000	10307127
Methylcyclohexane	TX	4965	10307127
Methylene chloride (Dichloromethane)	TX	4975	10307127
Naphthalene	TX	5005	10307127
n-Butyl alcohol (1-Butanol, n-Butanol)	TX	4425	10307127
n-Butylbenzene	TX	4435	10307127
n-Propylbenzene	TX	5090	10307127
o-Xylene	TX	5250	10307127
Propionitrile (Ethyl cyanide)	TX	5080	10307127
sec-Butylbenzene	TX	4440	10307127
Styrene	TX	5100	10307127
T-amylmethylether (TAME)	TX	4370	10307127
tert-Butyl alcohol	TX	4420	10307127
tert-Butylbenzene	TX	4445	10307127
Tetrachloroethylene (Perchloroethylene)	TX	5115	10307127
Toluene	TX	5140	10307127
Total trihalomethanes	TX	5205	10307127
trans-1,2-Dichloroethylene	TX	4700	10307127
trans-1,3-Dichloropropylene	TX	4685	10307127
trans-1,4-Dichloro-2-butene	TX	4605	10307127
Trichloroethene (Trichloroethylene)	TX	5170	10307127
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	TX	5175	10307127

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Matrix: ***Non-Potable Water***

Vinyl acetate	TX	5225	10307127
Vinyl chloride	TX	5235	10307127
Xylene (total)	TX	5260	10307127

Method EPA 8270

Analyte	AB	Analyte ID	Method ID
1,2,4,5-Tetrachlorobenzene	TX	6715	10242543
1,2,4-Trichlorobenzene	TX	5155	10242543
1,2-Dichlorobenzene	TX	4610	10242543
1,2-Diphenylhydrazine	TX	6220	10242543
1,3,5-Trinitrobenzene (1,3,5-TNB)	TX	6885	10242543
1,3-Dichlorobenzene	TX	4615	10242543
1,3-Dinitrobenzene (1,3-DNB)	TX	6160	10242543
1,4-Dichlorobenzene	TX	4620	10242543
1,4-Naphthoquinone	TX	6420	10242543
1,4-Phenylenediamine	TX	6630	10242543
1-Chloronaphthalene	TX	5790	10242543
1-Naphthylamine	TX	6425	10242543
2,2'-Oxybis(1-chloropropane) (bis(2-Chloro-1-methylethyl)ether)	TX	4659	10242543
2,3,4,6-Tetrachlorophenol	TX	6735	10242543
2,4,5-Trichlorophenol	TX	6835	10242543
2,4,6-Trichlorophenol	TX	6840	10242543
2,4-Dichlorophenol	TX	6000	10242543
2,4-Dimethylphenol	TX	6130	10242543
2,4-Dinitrophenol	TX	6175	10242543
2,4-Dinitrotoluene (2,4-DNT)	TX	6185	10242543
2,6-Dichlorophenol	TX	6005	10242543
2,6-Dinitrotoluene (2,6-DNT)	TX	6190	10242543
2-Acetylaminofluorene	TX	5515	10242543
2-Chloronaphthalene	TX	5795	10242543
2-Chlorophenol	TX	5800	10242543

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Matrix: ***Non-Potable Water***

2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	TX	6360	10242543
2-Methylaniline (o-Toluidine)	TX	5145	10242543
2-Methylnaphthalene	TX	6385	10242543
2-Methylphenol (o-Cresol)	TX	6400	10242543
2-Naphthylamine	TX	6430	10242543
2-Nitroaniline	TX	6460	10242543
2-Nitrophenol	TX	6490	10242543
2-Picoline (2-Methylpyridine)	TX	5050	10242543
3,3'-Dichlorobenzidine	TX	5945	10242543
3,3'-Dimethylbenzidine	TX	6120	10242543
3-Methylcholanthrene	TX	6355	10242543
3-Methylphenol (m-Cresol)	TX	6405	10242543
3-Nitroaniline	TX	6465	10242543
4,4'-DDD	TX	7355	10242543
4,4'-DDE	TX	7360	10242543
4,4'-DDT	TX	7365	10242543
4-Aminobiphenyl	TX	5540	10242543
4-Bromophenyl phenyl ether (BDE-3)	TX	5660	10242543
4-Chloro-3-methylphenol	TX	5700	10242543
4-Chloroaniline	TX	5745	10242543
4-Chlorophenyl phenylether	TX	5825	10242543
4-Dimethyl aminoazobenzene	TX	6105	10242543
4-Methylphenol (p-Cresol)	TX	6410	10242543
4-Nitroaniline	TX	6470	10242543
4-Nitrophenol	TX	6500	10242543
5-Nitro-o-toluidine	TX	6570	10242543
7,12-Dimethylbenz(a) anthracene	TX	6115	10242543
Acenaphthene	TX	5500	10242543
Acenaphthylene	TX	5505	10242543
Acetophenone	TX	5510	10242543

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Matrix: ***Non-Potable Water***

Aldrin	TX	7025	10242543
alpha-BHC (alpha-Hexachlorocyclohexane)	TX	7110	10242543
alpha-Chlordane	TX	7240	10242543
Aniline	TX	5545	10242543
Anthracene	TX	5555	10242543
Aroclor-1016 (PCB-1016)	TX	8880	10242543
Aroclor-1221 (PCB-1221)	TX	8885	10242543
Aroclor-1232 (PCB-1232)	TX	8890	10242543
Aroclor-1242 (PCB-1242)	TX	8895	10242543
Aroclor-1248 (PCB-1248)	TX	8900	10242543
Aroclor-1254 (PCB-1254)	TX	8905	10242543
Aroclor-1260 (PCB-1260)	TX	8910	10242543
Atrazine	TX	7065	10242543
Azinphos-methyl (Guthion)	TX	7075	10242543
Azobenzene	TX	5562	10242543
Benzidine	TX	5595	10242543
Benzo(a)anthracene	TX	5575	10242543
Benzo(a)pyrene	TX	5580	10242543
Benzo(b)fluoranthene	TX	5585	10242543
Benzo(g,h,i)perylene	TX	5590	10242543
Benzo(k)fluoranthene	TX	5600	10242543
Benzoic acid	TX	5610	10242543
Benzyl alcohol	TX	5630	10242543
beta-BHC (beta-Hexachlorocyclohexane)	TX	7115	10242543
Biphenyl	TX	5640	10242543
bis(2-Chloroethoxy)methane	TX	5760	10242543
bis(2-Chloroethyl) ether	TX	5765	10242543
bis(2-Ethylhexyl) phthalate (Di(2-Ethylhexyl) phthalate, DEHP)	TX	6065	10242543
Butyl benzyl phthalate	TX	5670	10242543
Caprolactam	TX	7180	10242543

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Matrix: ***Non-Potable Water***

Carbaryl (Sevin)	TX	7195	10242543
Carbazole	TX	5680	10242543
Chlordane (tech.)	TX	7250	10242543
Chlorfenvinphos	TX	7255	10242543
Chlorobenzilate	TX	7260	10242543
Chrysene	TX	5855	10242543
Coumaphos	TX	7315	10242543
delta-BHC (delta-Hexachlorocyclohexane)	TX	7105	10242543
Demeton	TX	7390	10242543
Demeton-o	TX	7395	10242543
Demeton-s	TX	7385	10242543
Diallate	TX	7405	10242543
Dibenz(a,h) anthracene	TX	5895	10242543
Dibenzofuran	TX	5905	10242543
Dichlorovos (DDVP, Dichlorvos)	TX	8610	10242543
Dieldrin	TX	7470	10242543
Diethyl phthalate	TX	6070	10242543
Dimethoate	TX	7475	10242543
Dimethyl phthalate	TX	6135	10242543
Di-n-butyl phthalate	TX	5925	10242543
Di-n-octyl phthalate	TX	6200	10242543
Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	TX	8620	10242543
Diphenylamine	TX	6205	10242543
Disulfoton	TX	8625	10242543
Endosulfan I	TX	7510	10242543
Endosulfan II	TX	7515	10242543
Endosulfan sulfate	TX	7520	10242543
Endrin	TX	7540	10242543
Endrin aldehyde	TX	7530	10242543
Endrin ketone	TX	7535	10242543

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Matrix: ***Non-Potable Water***

EPN (Phosphonothioic acid, phenyl-, O-ethyl O-(p-nitrophenyl) ester)	TX	7550	10242543
Ethyl methanesulfonate	TX	6260	10242543
Famphur	TX	7580	10242543
Fensulfothion	TX	7600	10242543
Fenthion	TX	7605	10242543
Fluoranthene	TX	6265	10242543
Fluorene	TX	6270	10242543
gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	TX	7120	10242543
gamma-Chlordane	TX	7245	10242543
Heptachlor	TX	7685	10242543
Heptachlor epoxide	TX	7690	10242543
Hexachlorobenzene	TX	6275	10242543
Hexachlorobutadiene	TX	4835	10242543
Hexachlorocyclopentadiene	TX	6285	10242543
Hexachloroethane	TX	4840	10242543
Hexachlorophene	TX	6290	10242543
Hexachloropropene	TX	6295	10242543
Indeno(1,2,3-cd) pyrene	TX	6315	10242543
Isodrin	TX	7725	10242543
Isophorone	TX	6320	10242543
Isosafrole	TX	6325	10242543
Kepone	TX	7740	10242543
Malathion	TX	7770	10242543
Methapyrilene	TX	6345	10242543
Methoxychlor	TX	7810	10242543
Methyl methanesulfonate	TX	6375	10242543
Methyl parathion (Parathion, methyl)	TX	7825	10242543
Mevinphos	TX	7850	10242543
Monocrotophos	TX	7880	10242543
Naled	TX	7905	10242543

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Matrix: ***Non-Potable Water***

Naphthalene	TX	5005	10242543
Nitrobenzene	TX	5015	10242543
n-Nitrosodiethylamine	TX	6525	10242543
n-Nitrosodimethylamine	TX	6530	10242543
n-Nitrosodi-n-butylamine	TX	5025	10242543
n-Nitrosodi-n-propylamine	TX	6545	10242543
n-Nitrosodiphenylamine	TX	6535	10242543
n-Nitrosomethylethylamine	TX	6550	10242543
n-Nitrosomorpholine	TX	6555	10242543
n-Nitrosopiperidine	TX	6560	10242543
n-Nitrosopyrrolidine	TX	6565	10242543
o,o,o-Triethyl phosphorothioate	TX	8290	10242543
Parathion, ethyl	TX	7955	10242543
Pentachlorobenzene	TX	6590	10242543
Pentachloronitrobenzene (PCNB)	TX	6600	10242543
Pentachlorophenol	TX	6605	10242543
Phenacetin	TX	6610	10242543
Phenanthrene	TX	6615	10242543
Phenol	TX	6625	10242543
Phorate	TX	7985	10242543
Pronamide (Kerb)	TX	6650	10242543
Pyrene	TX	6665	10242543
Pyridine	TX	5095	10242543
Quinoline	TX	6670	10242543
Resorcinol	TX	6680	10242543
Safrole	TX	6685	10242543
Strychnine	TX	6695	10242543
Sulfotepp	TX	8155	10242543
Tetrachlorvinphos (Stirophos, Gardona)	TX	8197	10242543
Thionazin (Zinophos)	TX	8235	10242543

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Matrix: ***Non-Potable Water***

Toxaphene (Chlorinated camphene)	TX	8250	10242543

Method EPA 9012

Analyte	**AB**	**Analyte ID**	**Method ID**
Amenable cyanide	TX	1510	10243206
Total cyanide	TX	1645	10243206

Method EPA 9040

Analyte	**AB**	**Analyte ID**	**Method ID**
pH	TX	1900	10244403

Method EPA 9050

Analyte	**AB**	**Analyte ID**	**Method ID**
Conductivity	TX	1610	10198808

Method EPA 9056

Analyte	**AB**	**Analyte ID**	**Method ID**
Bromide	TX	1540	10199607
Chloride	TX	1575	10199607
Fluoride	TX	1730	10199607
Nitrate as N	TX	1810	10199607
Nitrate-nitrite	TX	1820	10199607
Nitrite as N	TX	1840	10199607
Sulfate	TX	2000	10199607

Method EPA 9060

Analyte	**AB**	**Analyte ID**	**Method ID**
Total Organic Carbon (TOC)	TX	2040	10244823

Method EPA 9066

Analyte	**AB**	**Analyte ID**	**Method ID**
Total phenolics	TX	1905	10200609

Method EPA RSK 175

Analyte	**AB**	**Analyte ID**	**Method ID**
Ethane	TX	4747	10212905
Ethene	TX	4752	10212905
Methane	TX	4926	10212905

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Matrix: ***Non-Potable Water***

n-Butane	TX	5007	10212905
n-Propane	TX	5029	10212905

Method HACH 8000

Analyte	AB	Analyte ID	Method ID
Chemical oxygen demand (COD)	TX	1565	60003001

Method IDNR OA-2; DRO

Analyte	AB	Analyte ID	Method ID
Extractable Petroleum Hydrocarbons (EPH)	TX	10331	90016607

Method Kelada-01

Analyte	AB	Analyte ID	Method ID
Total cyanide	TX	1635	60005303

Method SM 2120 B

Analyte	AB	Analyte ID	Method ID
Color	TX	1605	20223807

Method SM 2130 B

Analyte	AB	Analyte ID	Method ID
Turbidity	TX	2055	20042200

Method SM 2310 B (4a)

Analyte	AB	Analyte ID	Method ID
Acidity, as CaCO3	TX	1500	20002806

Method SM 2320 B

Analyte	AB	Analyte ID	Method ID
Alkalinity as CaCO3	TX	1505	20045005

Method SM 2340 B

Analyte	AB	Analyte ID	Method ID
Total hardness as CaCO3	TX	1755	20046008

Method SM 2510 B

Analyte	AB	Analyte ID	Method ID
Conductivity	TX	1610	20048004

Method SM 2540 B

Analyte	AB	Analyte ID	Method ID
Residue-total (total solids)	TX	1950	20004608

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Matrix: ***Non-Potable Water***

Method SM 2540 C

Analyte	AB	Analyte ID	Method ID
Residue-filterable (TDS)	TX	1955	20049803

Method SM 2540 D

Analyte	AB	Analyte ID	Method ID
Residue-nonfilterable (TSS)	TX	1960	20004802

Method SM 3500-Cr B

Analyte	AB	Analyte ID	Method ID
Chromium (VI)	TX	1045	20065809

Method SM 4500-Cl G

Analyte	AB	Analyte ID	Method ID
Total residual chlorine	TX	1940	20020604

Method SM 4500-CN^- G

Analyte	AB	Analyte ID	Method ID
Amenable cyanide	TX	1510	20021607

Method SM 4500-H+ B

Analyte	AB	Analyte ID	Method ID
pH	TX	1900	20104603

Method SM 4500-$S2^-$ D

Analyte	AB	Analyte ID	Method ID
Sulfide	TX	2005	20125400

Method SM 4500-$S2^-$ F

Analyte	AB	Analyte ID	Method ID
Sulfide	TX	2005	20126209

Method SM 4500-$SO3^-$ B

Analyte	AB	Analyte ID	Method ID
Sulfite	TX	2015	20026806

Method SM 5210 B

Analyte	AB	Analyte ID	Method ID
Biochemical oxygen demand (BOD)	TX	1530	20027401
Carbonaceous BOD, CBOD	TX	1555	20027401

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Matrix: ***Non-Potable Water***

Method	Analyte	AB	Analyte ID	Method ID
SM 5310 C	Total Organic Carbon (TOC)	TX	2040	20138209
SM 5540 C	Surfactants - MBAS	TX	2025	20144405
TCEQ 1005	Total Petroleum Hydrocarbons (TPH)	TX	2050	90019208

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Matrix: ***Solid & Chemical Materials***

Method	Analyte	AB	Analyte ID	Method ID
ASTM D2216	Moisture	TX	10337	ASTM D2216-05
EPA 1010	Ignitability	TX	1780	10234830
EPA 1311	TCLP	TX	849	10118806
EPA 1312	SPLP	TX	850	10119003
EPA 300.0	Bromide	TX	1540	10053200
	Chloride	TX	1575	10053200
	Fluoride	TX	1730	10053200
	Nitrate as N	TX	1810	10053200
	Nitrate-nitrite	TX	1820	10053200
	Nitrite as N	TX	1840	10053200
	Sulfate	TX	2000	10053200
EPA 350.1	Ammonia as N	TX	1515	10063408
EPA 353.2	Nitrate-nitrite	TX	1820	10067604
	Nitrite as N	TX	1840	10067604
EPA 6010	Aluminum	TX	1000	10155916

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4147 Greenbriar Dr.
Stafford, TX 77477

Issue Date: 8/31/2023

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Matrix: ***Solid & Chemical Materials***

Antimony	TX	1005	10155916
Arsenic	TX	1010	10155916
Barium	TX	1015	10155916
Beryllium	TX	1020	10155916
Boron	TX	1025	10155916
Cadmium	TX	1030	10155916
Calcium	TX	1035	10155916
Chromium	TX	1040	10155916
Cobalt	TX	1050	10155916
Copper	TX	1055	10155916
Iron	TX	1070	10155916
Lead	TX	1075	10155916
Lithium	TX	1080	10155916
Magnesium	TX	1085	10155916
Manganese	TX	1090	10155916
Molybdenum	TX	1100	10155916
Nickel	TX	1105	10155916
Phosphorus	TX	1910	10155916
Potassium	TX	1125	10155916
Selenium	TX	1140	10155916
Silica as SiO2	TX	1990	10155916
Silver	TX	1150	10155916
Sodium	TX	1155	10155916
Strontium	TX	1160	10155916
Thallium	TX	1165	10155916
Tin	TX	1175	10155916
Titanium	TX	1180	10155916
Vanadium	TX	1185	10155916
Zinc	TX	1190	10155916

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Matrix: ***Solid & Chemical Materials***

Method EPA 6020

Analyte	AB	Analyte ID	Method ID
Aluminum	TX	1000	10156420
Antimony	TX	1005	10156420
Arsenic	TX	1010	10156420
Barium	TX	1015	10156420
Beryllium	TX	1020	10156420
Boron	TX	1025	10156420
Cadmium	TX	1030	10156420
Calcium	TX	1035	10156420
Chromium	TX	1040	10156420
Cobalt	TX	1050	10156420
Copper	TX	1055	10156420
Iron	TX	1070	10156420
Lead	TX	1075	10156420
Magnesium	TX	1085	10156420
Manganese	TX	1090	10156420
Molybdenum	TX	1100	10156420
Nickel	TX	1105	10156420
Potassium	TX	1125	10156420
Selenium	TX	1140	10156420
Silver	TX	1150	10156420
Sodium	TX	1155	10156420
Strontium	TX	1160	10156420
Thallium	TX	1165	10156420
Tin	TX	1175	10156420
Titanium	TX	1180	10156420
Vanadium	TX	1185	10156420
Zinc	TX	1190	10156420

Method EPA 7196

Analyte	AB	Analyte ID	Method ID

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Matrix: ***Solid & Chemical Materials***

Chromium (VI)	TX	1045	10162400

Method EPA 7470

Analyte	**AB**	**Analyte ID**	**Method ID**
Mercury	TX	1095	10165807

Method EPA 7471

Analyte	**AB**	**Analyte ID**	**Method ID**
Mercury	TX	1095	10166457

Method EPA 8015

Analyte	**AB**	**Analyte ID**	**Method ID**
Allyl alcohol	TX	4350	10305609
Diesel range organics (DRO)	TX	9369	10305609
Ethanol	TX	4750	10305609
Ethylene glycol	TX	4785	10305609
Gasoline range organics (GRO)	TX	9408	10305609
Isobutyl alcohol (2-Methyl-1-propanol)	TX	4875	10305609
Isopropyl alcohol (2-Propanol, Isopropanol)	TX	4895	10305609
Methanol	TX	4930	10305609
n-Butyl alcohol (1-Butanol, n-Butanol)	TX	4425	10305609
n-Propanol (1-Propanol)	TX	5055	10305609
Propylene Glycol	TX	6657	10305609

Method EPA 8081

Analyte	**AB**	**Analyte ID**	**Method ID**
4,4'-DDD	TX	7355	10178811
4,4'-DDE	TX	7360	10178811
4,4'-DDT	TX	7365	10178811
Alachlor	TX	7005	10178811
Aldrin	TX	7025	10178811
alpha-BHC (alpha-Hexachlorocyclohexane)	TX	7110	10178811
alpha-Chlordane	TX	7240	10178811
beta-BHC (beta-Hexachlorocyclohexane)	TX	7115	10178811
Chlordane (tech.)	TX	7250	10178811

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Matrix: ***Solid & Chemical Materials***

DDD,Total	TX	10314	10178811
DDE,Total	TX	10315	10178811
DDT,Total	TX	10316	10178811
delta-BHC (delta-Hexachlorocyclohexane)	TX	7105	10178811
Dieldrin	TX	7470	10178811
Endosulfan I	TX	7510	10178811
Endosulfan II	TX	7515	10178811
Endosulfan sulfate	TX	7520	10178811
Endrin	TX	7540	10178811
Endrin aldehyde	TX	7530	10178811
Endrin ketone	TX	7535	10178811
gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	TX	7120	10178811
gamma-Chlordane	TX	7245	10178811
Heptachlor	TX	7685	10178811
Heptachlor epoxide	TX	7690	10178811
Methoxychlor	TX	7810	10178811
Toxaphene (Chlorinated camphene)	TX	8250	10178811

Method EPA 8082

Analyte	**AB**	**Analyte ID**	**Method ID**
2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl (BZ-206)	TX	9095	10179201
2,2',3,3',4,4',5-Heptachlorobiphenyl (BZ-170)	TX	9065	10179201
2,2',3,4,4',5,5'-Heptachlorobiphenyl (BZ-180)	TX	9134	10179201
2,2',3,4,4',5',6-Heptachlorobiphenyl (BZ-183)	TX	9075	10179201
2,2',3,4,4',5'-Hexachlorobiphenyl (BZ-138)	TX	9025	10179201
2,2',3,4',5,5',6-Heptachlorobiphenyl (BZ-187)	TX	9080	10179201
2,2',3,4,5,5'-Hexachlorobiphenyl (BZ-141)	TX	9030	10179201
2,2',3,4,5'-Pentachlorobiphenyl (BZ-87)	TX	8975	10179201
2,2',3,5,5',6-Hexachlorobiphenyl (BZ-151)	TX	9035	10179201
2,2',3,5'-Tetrachlorobiphenyl (BZ-44)	TX	8945	10179201
2,2',4,4',5,5'-Hexachlorobiphenyl (BZ-153)	TX	9040	10179201

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Matrix: ***Solid & Chemical Materials***

2,2',4,5,5'-Pentachlorobiphenyl (BZ-101)	TX	8980	10179201
2,2',5,5'-Tetrachlorobiphenyl (BZ-52)	TX	8955	10179201
2,2',5-Trichlorobiphenyl (BZ-18)	TX	8930	10179201
2,3,3',4',6-Pentachlorobiphenyl (BZ-110)	TX	8990	10179201
2,3',4,4'-Tetrachlorobiphenyl (BZ-66)	TX	8960	10179201
2,3-Dichlorobiphenyl (BZ-5)	TX	8920	10179201
2,4',5-Trichlorobiphenyl (BZ-31)	TX	8940	10179201
2-Chlorobiphenyl (BZ-1)	TX	8915	10179201
Aroclor-1016 (PCB-1016)	TX	8880	10179201
Aroclor-1221 (PCB-1221)	TX	8885	10179201
Aroclor-1232 (PCB-1232)	TX	8890	10179201
Aroclor-1242 (PCB-1242)	TX	8895	10179201
Aroclor-1248 (PCB-1248)	TX	8900	10179201
Aroclor-1254 (PCB-1254)	TX	8905	10179201
Aroclor-1260 (PCB-1260)	TX	8910	10179201
PCBs (total)	TX	8870	10179201

Method EPA 8151

Analyte	**AB**	**Analyte ID**	**Method ID**
2,4,5-T	TX	8655	10183207
2,4-D	TX	8545	10183207
2,4-DB	TX	8560	10183207
Dalapon	TX	8555	10183207
Dicamba	TX	8595	10183207
Dichloroprop (Dichlorprop, Weedone)	TX	8605	10183207
Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	TX	8620	10183207
MCPA	TX	7775	10183207
MCPP	TX	7780	10183207
Pentachlorophenol	TX	6605	10183207
Silvex (2,4,5-TP)	TX	8650	10183207

Method EPA 8260

Analyte	**AB**	**Analyte ID**	**Method ID**

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Matrix: ***Solid & Chemical Materials***

1,1,1,2-Tetrachloroethane	TX	5105	10307127
1,1,1-Trichloroethane	TX	5160	10307127
1,1,2,2-Tetrachloroethane	TX	5110	10307127
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	TX	5185	10307127
1,1,2-Trichloroethane	TX	5165	10307127
1,1-Dichloroethane	TX	4630	10307127
1,1-Dichloroethylene	TX	4640	10307127
1,1-Dichloropropene	TX	4670	10307127
1,2,3-Trichlorobenzene	TX	5150	10307127
1,2,3-Trichloropropane	TX	5180	10307127
1,2,4-Trichlorobenzene	TX	5155	10307127
1,2,4-Trimethylbenzene	TX	5210	10307127
1,2-Dibromo-3-chloropropane (DBCP)	TX	4570	10307127
1,2-Dibromoethane (EDB, Ethylene dibromide)	TX	4585	10307127
1,2-Dichlorobenzene	TX	4610	10307127
1,2-Dichloroethane (Ethylene dichloride)	TX	4635	10307127
1,2-Dichloropropane	TX	4655	10307127
1,3,5-Trimethylbenzene	TX	5215	10307127
1,3-Dichlorobenzene	TX	4615	10307127
1,3-Dichloropropane	TX	4660	10307127
1,4-Dichlorobenzene	TX	4620	10307127
1,4-Dioxane (1,4-Diethyleneoxide)	TX	4735	10307127
1-Chlorohexane	TX	4510	10307127
2,2-Dichloropropane	TX	4665	10307127
2-Butanone (Methyl ethyl ketone, MEK)	TX	4410	10307127
2-Chloroethyl vinyl ether	TX	4500	10307127
2-Chlorotoluene	TX	4535	10307127
2-Hexanone (MBK)	TX	4860	10307127
4-Chlorotoluene	TX	4540	10307127
4-Isopropyltoluene (p-Cymene)	TX	4915	10307127

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Matrix: ***Solid & Chemical Materials***

4-Methyl-2-pentanone (MIBK)	TX	4995	10307127
Acetone (2-Propanone)	TX	4315	10307127
Acetonitrile	TX	4320	10307127
Acrolein (Propenal)	TX	4325	10307127
Acrylonitrile	TX	4340	10307127
Allyl chloride (3-Chloropropene)	TX	4355	10307127
Benzene	TX	4375	10307127
Bromobenzene	TX	4385	10307127
Bromochloromethane	TX	4390	10307127
Bromodichloromethane	TX	4395	10307127
Bromoform	TX	4400	10307127
Carbon disulfide	TX	4450	10307127
Carbon tetrachloride	TX	4455	10307127
Chlorobenzene	TX	4475	10307127
Chlorodibromomethane	TX	4575	10307127
Chloroethane (Ethyl chloride)	TX	4485	10307127
Chloroform	TX	4505	10307127
Chloroprene (2-Chloro-1,3-butadiene)	TX	4525	10307127
cis-1,2-Dichloroethylene	TX	4645	10307127
cis-1,3-Dichloropropene	TX	4680	10307127
cis-1,4-Dichloro-2-butene	TX	4600	10307127
Dibromomethane (Methylene bromide)	TX	4595	10307127
Dichlorodifluoromethane (Freon-12)	TX	4625	10307127
Diethyl ether	TX	4725	10307127
Epichlorohydrin (1-Chloro-2,3-epoxypropane)	TX	4745	10307127
Ethyl methacrylate	TX	4810	10307127
Ethylbenzene	TX	4765	10307127
Ethylene oxide	TX	4795	10307127
Hexachlorobutadiene	TX	4835	10307127
Iodomethane (Methyl iodide)	TX	4870	10307127

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Matrix: ***Solid & Chemical Materials***

Isobutyl alcohol (2-Methyl-1-propanol)	TX	4875	10307127
Isopropylbenzene (Cumene)	TX	4900	10307127
m+p-xylene	TX	5240	10307127
Methacrylonitrile	TX	4925	10307127
Methyl acetate	TX	4940	10307127
Methyl bromide (Bromomethane)	TX	4950	10307127
Methyl chloride (Chloromethane)	TX	4960	10307127
Methyl methacrylate	TX	4990	10307127
Methyl tert-butyl ether (MTBE)	TX	5000	10307127
Methylcyclohexane	TX	4965	10307127
Methylene chloride (Dichloromethane)	TX	4975	10307127
Naphthalene	TX	5005	10307127
n-Butyl alcohol (1-Butanol, n-Butanol)	TX	4425	10307127
n-Butylbenzene	TX	4435	10307127
n-Propylbenzene	TX	5090	10307127
o-Xylene	TX	5250	10307127
sec-Butylbenzene	TX	4440	10307127
Styrene	TX	5100	10307127
tert-Butyl alcohol	TX	4420	10307127
tert-Butylbenzene	TX	4445	10307127
Tetrachloroethylene (Perchloroethylene)	TX	5115	10307127
Toluene	TX	5140	10307127
trans-1,2-Dichloroethylene	TX	4700	10307127
trans-1,3-Dichloropropylene	TX	4685	10307127
trans-1,4-Dichloro-2-butene	TX	4605	10307127
Trichloroethene (Trichloroethylene)	TX	5170	10307127
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	TX	5175	10307127
Vinyl acetate	TX	5225	10307127
Vinyl chloride	TX	5235	10307127
Xylene (total)	TX	5260	10307127

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Matrix: ***Solid & Chemical Materials***

Method EPA 8270

Analyte	AB	Analyte ID	Method ID
1,2,4,5-Tetrachlorobenzene	TX	6715	10242543
1,2,4-Trichlorobenzene	TX	5155	10242543
1,2-Dichlorobenzene	TX	4610	10242543
1,2-Diphenylhydrazine	TX	6220	10242543
1,3-Dichlorobenzene	TX	4615	10242543
1,3-Dinitrobenzene (1,3-DNB)	TX	6160	10242543
1,4-Dichlorobenzene	TX	4620	10242543
1,4-Phenylenediamine	TX	6630	10242543
1-Chloronaphthalene	TX	5790	10242543
1-Naphthylamine	TX	6425	10242543
2,2'-Oxybis(1-chloropropane) (bis(2-Chloro-1-methylethyl)ether)	TX	4659	10242543
2,3,4,6-Tetrachlorophenol	TX	6735	10242543
2,4,5-Trichlorophenol	TX	6835	10242543
2,4,6-Trichlorophenol	TX	6840	10242543
2,4-Dichlorophenol	TX	6000	10242543
2,4-Dimethylphenol	TX	6130	10242543
2,4-Dinitrophenol	TX	6175	10242543
2,4-Dinitrotoluene (2,4-DNT)	TX	6185	10242543
2,6-Dichlorophenol	TX	6005	10242543
2,6-Dinitrotoluene (2,6-DNT)	TX	6190	10242543
2-Acetylaminofluorene	TX	5515	10242543
2-Chloronaphthalene	TX	5795	10242543
2-Chlorophenol	TX	5800	10242543
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	TX	6360	10242543
2-Methylnaphthalene	TX	6385	10242543
2-Methylphenol (o-Cresol)	TX	6400	10242543
2-Naphthylamine	TX	6430	10242543
2-Nitroaniline	TX	6460	10242543

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Matrix: ***Solid & Chemical Materials***

2-Nitrophenol	TX	6490	10242543
2-Picoline (2-Methylpyridine)	TX	5050	10242543
3,3'-Dichlorobenzidine	TX	5945	10242543
3-Methylcholanthrene	TX	6355	10242543
3-Methylphenol (m-Cresol)	TX	6405	10242543
3-Nitroaniline	TX	6465	10242543
4,4'-DDD	TX	7355	10242543
4,4'-DDE	TX	7360	10242543
4,4'-DDT	TX	7365	10242543
4-Aminobiphenyl	TX	5540	10242543
4-Bromophenyl phenyl ether (BDE-3)	TX	5660	10242543
4-Chloro-3-methylphenol	TX	5700	10242543
4-Chloroaniline	TX	5745	10242543
4-Chlorophenyl phenylether	TX	5825	10242543
4-Dimethyl aminoazobenzene	TX	6105	10242543
4-Methylphenol (p-Cresol)	TX	6410	10242543
4-Nitroaniline	TX	6470	10242543
4-Nitrophenol	TX	6500	10242543
7,12-Dimethylbenz(a) anthracene	TX	6115	10242543
Acenaphthene	TX	5500	10242543
Acenaphthylene	TX	5505	10242543
Acetophenone	TX	5510	10242543
Aldrin	TX	7025	10242543
alpha-BHC (alpha-Hexachlorocyclohexane)	TX	7110	10242543
alpha-Chlordane	TX	7240	10242543
Aniline	TX	5545	10242543
Anthracene	TX	5555	10242543
Aroclor-1016 (PCB-1016)	TX	8880	10242543
Aroclor-1221 (PCB-1221)	TX	8885	10242543
Aroclor-1232 (PCB-1232)	TX	8890	10242543

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Matrix: ***Solid & Chemical Materials***

Aroclor-1242 (PCB-1242)	TX	8895	10242543
Aroclor-1248 (PCB-1248)	TX	8900	10242543
Aroclor-1254 (PCB-1254)	TX	8905	10242543
Aroclor-1260 (PCB-1260)	TX	8910	10242543
Atrazine	TX	7065	10242543
Azinphos-methyl (Guthion)	TX	7075	10242543
Azobenzene	TX	5562	10242543
Benzidine	TX	5595	10242543
Benzo(a)anthracene	TX	5575	10242543
Benzo(a)pyrene	TX	5580	10242543
Benzo(b)fluoranthene	TX	5585	10242543
Benzo(g,h,i)perylene	TX	5590	10242543
Benzo(k)fluoranthene	TX	5600	10242543
Benzoic acid	TX	5610	10242543
Benzyl alcohol	TX	5630	10242543
beta-BHC (beta-Hexachlorocyclohexane)	TX	7115	10242543
Biphenyl	TX	5640	10242543
bis(2-Chloroethoxy)methane	TX	5760	10242543
bis(2-Chloroethyl) ether	TX	5765	10242543
bis(2-Ethylhexyl) phthalate (Di(2-Ethylhexyl) phthalate, DEHP)	TX	6065	10242543
Butyl benzyl phthalate	TX	5670	10242543
Caprolactam	TX	7180	10242543
Carbazole	TX	5680	10242543
Chlordane (tech.)	TX	7250	10242543
Chlorfenvinphos	TX	7255	10242543
Chrysene	TX	5855	10242543
Coumaphos	TX	7315	10242543
delta-BHC (delta-Hexachlorocyclohexane)	TX	7105	10242543
Demeton	TX	7390	10242543
Demeton-o	TX	7395	10242543

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Matrix: ***Solid & Chemical Materials***

Demeton-s	TX	7385	10242543
Dibenz(a,h) anthracene	TX	5895	10242543
Dibenzofuran	TX	5905	10242543
Dichlorovos (DDVP, Dichlorvos)	TX	8610	10242543
Dieldrin	TX	7470	10242543
Diethyl phthalate	TX	6070	10242543
Dimethoate	TX	7475	10242543
Dimethyl phthalate	TX	6135	10242543
Di-n-butyl phthalate	TX	5925	10242543
Di-n-octyl phthalate	TX	6200	10242543
Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	TX	8620	10242543
Diphenylamine	TX	6205	10242543
Endosulfan I	TX	7510	10242543
Endosulfan II	TX	7515	10242543
Endosulfan sulfate	TX	7520	10242543
Endrin	TX	7540	10242543
Endrin aldehyde	TX	7530	10242543
Endrin ketone	TX	7535	10242543
EPN (Phosphonothioic acid, phenyl-, O-ethyl O-(p-nitrophenyl) ester)	TX	7550	10242543
Ethyl methanesulfonate	TX	6260	10242543
Fensulfothion	TX	7600	10242543
Fenthion	TX	7605	10242543
Fluoranthene	TX	6265	10242543
Fluorene	TX	6270	10242543
gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	TX	7120	10242543
gamma-Chlordane	TX	7245	10242543
Heptachlor	TX	7685	10242543
Heptachlor epoxide	TX	7690	10242543
Hexachlorobenzene	TX	6275	10242543
Hexachlorobutadiene	TX	4835	10242543

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

Certificate: T104704215-23-53

Eurofins Houston

Expiration Date: 6/30/2024

4147 Greenbriar Dr.
Stafford, TX 77477

Issue Date: 8/31/2023

These fields of accreditation supercede all previous fields. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current accreditation status for particular methods and analyses.

Matrix: ***Solid & Chemical Materials***

Hexachlorocyclopentadiene	TX	6285	10242543
Hexachloroethane	TX	4840	10242543
Hexachlorophene	TX	6290	10242543
Hexachloropropene	TX	6295	10242543
Indeno(1,2,3-cd) pyrene	TX	6315	10242543
Isophorone	TX	6320	10242543
Malathion	TX	7770	10242543
Methapyrilene	TX	6345	10242543
Methoxychlor	TX	7810	10242543
Methyl methanesulfonate	TX	6375	10242543
Mevinphos	TX	7850	10242543
Monocrotophos	TX	7880	10242543
Naled	TX	7905	10242543
Naphthalene	TX	5005	10242543
Nitrobenzene	TX	5015	10242543
n-Nitrosodiethylamine	TX	6525	10242543
n-Nitrosodimethylamine	TX	6530	10242543
n-Nitrosodi-n-butylamine	TX	5025	10242543
n-Nitrosodi-n-propylamine	TX	6545	10242543
n-Nitrosodiphenylamine	TX	6535	10242543
n-Nitrosomethylethylamine	TX	6550	10242543
n-Nitrosomorpholine	TX	6555	10242543
n-Nitrosopiperidine	TX	6560	10242543
n-Nitrosopyrrolidine	TX	6565	10242543
Pentachlorobenzene	TX	6590	10242543
Pentachloronitrobenzene (PCNB)	TX	6600	10242543
Pentachlorophenol	TX	6605	10242543
Phenacetin	TX	6610	10242543
Phenanthrene	TX	6615	10242543
Phenol	TX	6625	10242543

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Matrix: ***Solid & Chemical Materials***

Pronamide (Kerb)	TX	6650	10242543
Pyrene	TX	6665	10242543
Pyridine	TX	5095	10242543
Quinoline	TX	6670	10242543
Resorcinol	TX	6680	10242543
Strychnine	TX	6695	10242543
Sulfotepp	TX	8155	10242543
Tetrachlorvinphos (Stirophos, Gardona)	TX	8197	10242543
Toxaphene (Chlorinated camphene)	TX	8250	10242543

Method EPA 9012

Analyte	**AB**	**Analyte ID**	**Method ID**
Amenable cyanide	TX	1510	10243206
Total cyanide	TX	1645	10243206

Method EPA 9023

Analyte	**AB**	**Analyte ID**	**Method ID**
Extractable organics halides (EOX)	TX	1720	10195003

Method EPA 9034

Analyte	**AB**	**Analyte ID**	**Method ID**
Sulfide	TX	2005	10196006

Method EPA 9040

Analyte	**AB**	**Analyte ID**	**Method ID**
pH	TX	1900	10244403

Method EPA 9045

Analyte	**AB**	**Analyte ID**	**Method ID**
Corrosivity	TX	1615	10198455
pH	TX	1900	10198455

Method EPA 9056

Analyte	**AB**	**Analyte ID**	**Method ID**
Bromide	TX	1540	10199607
Chloride	TX	1575	10199607
Fluoride	TX	1730	10199607

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Matrix: ***Solid & Chemical Materials***

Nitrate as N	TX	1810	10199607
Nitrate-nitrite	TX	1820	10199607
Nitrite as N	TX	1840	10199607
Sulfate	TX	2000	10199607

Method EPA 9066

Analyte	**AB**	**Analyte ID**	**Method ID**
Total phenolics	TX	1905	10200609

Method EPA 9071

Analyte	**AB**	**Analyte ID**	**Method ID**
n-Hexane Extractable Material (HEM) (O&G)	TX	1803	10201806
Silica Gel Treated n-Hexane Extractable Material (SGT-HEM)	TX	10220	10201806

Method EPA 9095

Analyte	**AB**	**Analyte ID**	**Method ID**
Paint Filter Liquids Test	TX	10312	10245600

Method IDNR OA-2; DRO

Analyte	**AB**	**Analyte ID**	**Method ID**
Extractable Petroleum Hydrocarbons (EPH)	TX	10331	90016607

Method SM 2320 B

Analyte	**AB**	**Analyte ID**	**Method ID**
Alkalinity as CaCO3	TX	1505	20045005

Method SM 2510 B

Analyte	**AB**	**Analyte ID**	**Method ID**
Conductivity	TX	1610	20048004

Method SM 2540 G

Analyte	**AB**	**Analyte ID**	**Method ID**
Residue-total (total solids)	TX	1950	20005203

Method SSA/ASA Part 3:34

Analyte	**AB**	**Analyte ID**	**Method ID**
Carbon, organic (Walkley-Black)	TX	10340	SSA/ASA Pt 3:34

Method TCEQ 1005

Analyte	**AB**	**Analyte ID**	**Method ID**

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Matrix: ***Solid & Chemical Materials***

Total Petroleum Hydrocarbons (TPH)	TX	2050	90019208

Jon Niermann, *Chairman*
Bobby Janecka, *Commissioner*
Catarina R. Gonzales, *Commissioner*
Kelly Keel, *Executive Director*

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

June 20, 2024

Mr. David Krause
Eurofins Houston
4141-4147 Greenbriar Dr.
Stafford, TX 77477

Subject: Texas NELAP accreditation renewal

Dear Mr. Krause:

I am pleased to advise you the Texas Commission on Environmental Quality is renewing your laboratory's NELAP accreditation. The accreditation is valid until the expiration date on the certificate and scope, contingent on continued compliance with the standards for accreditation and requirements of the state of Texas.

I am enclosing an accreditation certificate and listing of your laboratory's fields of accreditation. Please review the enclosures for accuracy and completeness.

Please contact me at frank.jamison@tceq.texas.gov if I can provide any additional information or assistance.

Sincerely,

Frank Jamison
Data and Records Specialist

Enclosures

Texas Commission on Environmental Quality

Certificate of Accreditation

Accreditation is hereby granted to

Eurofins Houston
4147 Greenbriar Dr.
Stafford, TX 77477

State Lab ID: T104704215
Effective Date: 07/01/2024
Expiration Date: 06/30/2025
Document ID: TX-C24-00243

Conditions of Accreditation

This laboratory has been found to conform with TCEQ rules and applicable standards for laboratory accreditation. The scope of accreditation is limited to the Fields of Accreditation (FoA) specifically listed on the subsequent page(s) of this certificate. Accreditation is for all version of a method approved per 40 CFR 136, 40 CFR 141, and/ or 40 CFR 143. Continued accreditation requires ongoing compliance with all applicable standards and requirements.

Note: For the attached FoA table, matrices may include DW (drinking water), NPW (non-potable water), S (solid and chemical materials), A (air), and/ or BT (biological tissue).

Issued By: Kelly Keel, Executive Director Texas Commission on Environmental Quality
Date Issued: 07/01/2024

Laboratory Fields of Accreditation

Matrix	Method	Method Code	Analyte	Analyte Code	AB
DW	EPA 200.7	10013806	Aluminum	1000	TX
DW	EPA 200.7	10013806	Antimony	1005	TX
DW	EPA 200.7	10013806	Arsenic	1010	TX
DW	EPA 200.7	10013806	Barium	1015	TX
DW	EPA 200.7	10013806	Beryllium	1020	TX
DW	EPA 200.7	10013806	Boron	1025	TX
DW	EPA 200.7	10013806	Cadmium	1030	TX
DW	EPA 200.7	10013806	Chromium	1040	TX
DW	EPA 200.7	10013806	Cobalt	1050	TX
DW	EPA 200.7	10013806	Copper	1055	TX
DW	EPA 200.7	10013806	Iron	1070	TX
DW	EPA 200.7	10013806	Lead	1075	TX
DW	EPA 200.7	10013806	Lithium	1080	TX
DW	EPA 200.7	10013806	Magnesium	1085	TX
DW	EPA 200.7	10013806	Manganese	1090	TX
DW	EPA 200.7	10013806	Molybdenum	1100	TX
DW	EPA 200.7	10013806	Nickel	1105	TX
DW	EPA 200.7	10013806	Potassium	1125	TX
DW	EPA 200.7	10013806	Selenium	1140	TX
DW	EPA 200.7	10013806	Silica as SiO2	1990	TX
DW	EPA 200.7	10013806	Silver	1150	TX
DW	EPA 200.7	10013806	Sodium	1155	TX
DW	EPA 200.7	10013806	Strontium	1160	TX
DW	EPA 200.7	10013806	Tin	1175	TX
DW	EPA 200.7	10013806	Titanium	1180	TX
DW	EPA 200.7	10013806	Vanadium	1185	TX
DW	EPA 200.7	10013806	Zinc	1190	TX
DW	EPA 200.8	10014605	Aluminum	1000	TX
DW	EPA 200.8	10014605	Antimony	1005	TX
DW	EPA 200.8	10014605	Arsenic	1010	TX
DW	EPA 200.8	10014605	Barium	1015	TX
DW	EPA 200.8	10014605	Beryllium	1020	TX
DW	EPA 200.8	10014605	Cadmium	1030	TX
DW	EPA 200.8	10014605	Chromium	1040	TX
DW	EPA 200.8	10014605	Copper	1055	TX
DW	EPA 200.8	10014605	Lead	1075	TX
DW	EPA 200.8	10014605	Manganese	1090	TX

DW	EPA 200.8	10014605	Nickel	1105	TX
DW	EPA 200.8	10014605	Selenium	1140	TX
DW	EPA 200.8	10014605	Silver	1150	TX
DW	EPA 200.8	10014605	Thallium	1165	TX
DW	EPA 200.8	10014605	Uranium	3035	TX
DW	EPA 200.8	10014605	Zinc	1190	TX
DW	EPA 245.1	10036609	Mercury	1095	TX
DW	EPA 300.0	10053200	Bromide	1540	TX
DW	EPA 300.0	10053200	Chloride	1575	TX
DW	EPA 300.0	10053200	Fluoride	1730	TX
DW	EPA 300.0	10053200	Nitrate as N	1810	TX
DW	EPA 300.0	10053200	Nitrite as N	1840	TX
DW	EPA 300.0	10053200	Sulfate	2000	TX
DW	EPA 335.4	10061402	Cyanide	1635	TX
DW	EPA 353.2	10067604	Nitrate as N	1810	TX
DW	EPA 353.2	10067604	Nitrite as N	1840	TX
DW	Kelada-01	60005303	Cyanide	1635	TX
DW	SM 2510 B	20048435	Conductivity	1610	TX
DW	SM 2540 C	20050457	Residue-filterable (TDS)	1955	TX
NPW	EPA 1010	10234830	Ignitability	1780	TX
NPW	EPA 1311	10118806	Toxicity Characteristic Leaching Procedure (TCLP)	1466	TX
NPW	EPA 1312	10119003	Synthetic Precipitation Leaching Procedure (SPLP)	1460	TX
NPW	EPA 160.4	10010409	Residue-volatile	1970	TX
NPW	EPA 1664	10261617	Hexane Extractable Material - Silica Gel Treated (HEM-SGT)	6142	TX
NPW	EPA 1664	10261617	n-Hexane Extractable Material (O&G)	1803	TX
NPW	EPA 180.1	10011800	Turbidity	2055	TX
NPW	EPA 200.7	10013806	Aluminum	1000	TX
NPW	EPA 200.7	10013806	Antimony	1005	TX
NPW	EPA 200.7	10013806	Arsenic	1010	TX
NPW	EPA 200.7	10013806	Barium	1015	TX
NPW	EPA 200.7	10013806	Beryllium	1020	TX
NPW	EPA 200.7	10013806	Boron	1025	TX
NPW	EPA 200.7	10013806	Cadmium	1030	TX
NPW	EPA 200.7	10013806	Calcium	1035	TX
NPW	EPA 200.7	10013806	Chromium	1040	TX
NPW	EPA 200.7	10013806	Cobalt	1050	TX
NPW	EPA 200.7	10013806	Copper	1055	TX
NPW	EPA 200.7	10013806	Iron	1070	TX

NPW	EPA 200.7	10013806	Lead	1075	TX
NPW	EPA 200.7	10013806	Lithium	1080	TX
NPW	EPA 200.7	10013806	Magnesium	1085	TX
NPW	EPA 200.7	10013806	Manganese	1090	TX
NPW	EPA 200.7	10013806	Molybdenum	1100	TX
NPW	EPA 200.7	10013806	Nickel	1105	TX
NPW	EPA 200.7	10013806	Potassium	1125	TX
NPW	EPA 200.7	10013806	Selenium	1140	TX
NPW	EPA 200.7	10013806	Silica as SiO2	1990	TX
NPW	EPA 200.7	10013806	Silver	1150	TX
NPW	EPA 200.7	10013806	Sodium	1155	TX
NPW	EPA 200.7	10013806	Strontium	1160	TX
NPW	EPA 200.7	10013806	Thallium	1165	TX
NPW	EPA 200.7	10013806	Tin	1175	TX
NPW	EPA 200.7	10013806	Titanium	1180	TX
NPW	EPA 200.7	10013806	Vanadium	1185	TX
NPW	EPA 200.7	10013806	Zinc	1190	TX
NPW	EPA 200.8	10014605	Aluminum	1000	TX
NPW	EPA 200.8	10014605	Antimony	1005	TX
NPW	EPA 200.8	10014605	Arsenic	1010	TX
NPW	EPA 200.8	10014605	Barium	1015	TX
NPW	EPA 200.8	10014605	Beryllium	1020	TX
NPW	EPA 200.8	10014605	Boron	1025	TX
NPW	EPA 200.8	10014605	Cadmium	1030	TX
NPW	EPA 200.8	10014605	Chromium	1040	TX
NPW	EPA 200.8	10014605	Cobalt	1050	TX
NPW	EPA 200.8	10014605	Copper	1055	TX
NPW	EPA 200.8	10014605	Iron	1070	TX
NPW	EPA 200.8	10014605	Lead	1075	TX
NPW	EPA 200.8	10014605	Magnesium	1085	TX
NPW	EPA 200.8	10014605	Manganese	1090	TX
NPW	EPA 200.8	10014605	Molybdenum	1100	TX
NPW	EPA 200.8	10014605	Nickel	1105	TX
NPW	EPA 200.8	10014605	Potassium	1125	TX
NPW	EPA 200.8	10014605	Selenium	1140	TX
NPW	EPA 200.8	10014605	Silver	1150	TX
NPW	EPA 200.8	10014605	Sodium	1155	TX
NPW	EPA 200.8	10014605	Strontium	1160	TX
NPW	EPA 200.8	10014605	Thallium	1165	TX
NPW	EPA 200.8	10014605	Tin	1175	TX
NPW	EPA 200.8	10014605	Titanium	1180	TX

NPW	EPA 200.8	10014605	Uranium	3035	TX
NPW	EPA 200.8	10014605	Vanadium	1185	TX
NPW	EPA 200.8	10014605	Zinc	1190	TX
NPW	EPA 245.1	10036609	Mercury	1095	TX
NPW	EPA 300.0	10053200	Bromide	1540	TX
NPW	EPA 300.0	10053200	Chloride	1575	TX
NPW	EPA 300.0	10053200	Fluoride	1730	TX
NPW	EPA 300.0	10053200	Nitrate as N	1810	TX
NPW	EPA 300.0	10053200	Nitrate plus Nitrite as N	1820	TX
NPW	EPA 300.0	10053200	Nitrite as N	1840	TX
NPW	EPA 300.0	10053200	Sulfate	2000	TX
NPW	EPA 335.4	10061402	Total Cyanide	1645	TX
NPW	EPA 350.1	10063602	Ammonia as N	1515	TX
NPW	EPA 351.2	10065404	Total Kjeldahl Nitrogen - (TKN)	1790	TX
NPW	EPA 353.2	10067604	Nitrate as N	1810	TX
NPW	EPA 353.2	10067604	Nitrate plus Nitrite as N	1820	TX
NPW	EPA 353.2	10067604	Nitrite as N	1840	TX
NPW	EPA 360.1	10069008	Oxygen, dissolved	1880	TX
NPW	EPA 365.1	10070005	Orthophosphate as P	1870	TX
NPW	EPA 365.1	10070005	Total Phosphorus	1910	TX
NPW	EPA 420.4	10080203	Total Phenolics	1905	TX
NPW	EPA 6010	10155916	Aluminum	1000	TX
NPW	EPA 6010	10155916	Antimony	1005	TX
NPW	EPA 6010	10155916	Arsenic	1010	TX
NPW	EPA 6010	10155916	Barium	1015	TX
NPW	EPA 6010	10155916	Beryllium	1020	TX
NPW	EPA 6010	10155916	Boron	1025	TX
NPW	EPA 6010	10155916	Cadmium	1030	TX
NPW	EPA 6010	10155916	Calcium	1035	TX
NPW	EPA 6010	10155916	Chromium	1040	TX
NPW	EPA 6010	10155916	Cobalt	1050	TX
NPW	EPA 6010	10155916	Copper	1055	TX
NPW	EPA 6010	10155916	Iron	1070	TX
NPW	EPA 6010	10155916	Lead	1075	TX
NPW	EPA 6010	10155916	Lithium	1080	TX
NPW	EPA 6010	10155916	Magnesium	1085	TX
NPW	EPA 6010	10155916	Manganese	1090	TX
NPW	EPA 6010	10155916	Molybdenum	1100	TX
NPW	EPA 6010	10155916	Nickel	1105	TX
NPW	EPA 6010	10155916	Potassium	1125	TX
NPW	EPA 6010	10155916	Selenium	1140	TX

NPW	EPA 6010	10155916	Silica as SiO2	1990	TX
NPW	EPA 6010	10155916	Silver	1150	TX
NPW	EPA 6010	10155916	Sodium	1155	TX
NPW	EPA 6010	10155916	Strontium	1160	TX
NPW	EPA 6010	10155916	Thallium	1165	TX
NPW	EPA 6010	10155916	Tin	1175	TX
NPW	EPA 6010	10155916	Titanium	1180	TX
NPW	EPA 6010	10155916	Total Phosphorus	1910	TX
NPW	EPA 6010	10155916	Vanadium	1185	TX
NPW	EPA 6010	10155916	Zinc	1190	TX
NPW	EPA 6020	10156420	Aluminum	1000	TX
NPW	EPA 6020	10156420	Antimony	1005	TX
NPW	EPA 6020	10156420	Arsenic	1010	TX
NPW	EPA 6020	10156420	Barium	1015	TX
NPW	EPA 6020	10156420	Beryllium	1020	TX
NPW	EPA 6020	10156420	Boron	1025	TX
NPW	EPA 6020	10156420	Cadmium	1030	TX
NPW	EPA 6020	10156420	Chromium	1040	TX
NPW	EPA 6020	10156420	Cobalt	1050	TX
NPW	EPA 6020	10156420	Copper	1055	TX
NPW	EPA 6020	10156420	Iron	1070	TX
NPW	EPA 6020	10156420	Lead	1075	TX
NPW	EPA 6020	10156420	Magnesium	1085	TX
NPW	EPA 6020	10156420	Manganese	1090	TX
NPW	EPA 6020	10156420	Molybdenum	1100	TX
NPW	EPA 6020	10156420	Nickel	1105	TX
NPW	EPA 6020	10156420	Potassium	1125	TX
NPW	EPA 6020	10156420	Selenium	1140	TX
NPW	EPA 6020	10156420	Silver	1150	TX
NPW	EPA 6020	10156420	Sodium	1155	TX
NPW	EPA 6020	10156420	Strontium	1160	TX
NPW	EPA 6020	10156420	Thallium	1165	TX
NPW	EPA 6020	10156420	Tin	1175	TX
NPW	EPA 6020	10156420	Titanium	1180	TX
NPW	EPA 6020	10156420	Vanadium	1185	TX
NPW	EPA 6020	10156420	Zinc	1190	TX
NPW	EPA 608.3	10296614	4,4'-DDD	7355	TX
NPW	EPA 608.3	10296614	4,4'-DDE	7360	TX
NPW	EPA 608.3	10296614	4,4'-DDT	7365	TX
NPW	EPA 608.3	10296614	Aldrin	7025	TX
NPW	EPA 608.3	10296614	alpha-BHC (alpha-	7110	TX

			Hexachlorocyclohexane)		
NPW	EPA 608.3	10296614	Aroclor-1016 (PCB-1016)	8880	TX
NPW	EPA 608.3	10296614	Aroclor-1221 (PCB-1221)	8885	TX
NPW	EPA 608.3	10296614	Aroclor-1232 (PCB-1232)	8890	TX
NPW	EPA 608.3	10296614	Aroclor-1242 (PCB-1242)	8895	TX
NPW	EPA 608.3	10296614	Aroclor-1248 (PCB-1248)	8900	TX
NPW	EPA 608.3	10296614	Aroclor-1254 (PCB-1254)	8905	TX
NPW	EPA 608.3	10296614	Aroclor-1260 (PCB-1260)	8910	TX
NPW	EPA 608.3	10296614	beta-BHC (beta-Hexachlorocyclohexane)	7115	TX
NPW	EPA 608.3	10296614	Chlordane (tech.)	7250	TX
NPW	EPA 608.3	10296614	cis-Chlordane (alpha-Chlordane)	7240	TX
NPW	EPA 608.3	10296614	delta-BHC	7105	TX
NPW	EPA 608.3	10296614	Dieldrin	7470	TX
NPW	EPA 608.3	10296614	Endosulfan I	7510	TX
NPW	EPA 608.3	10296614	Endosulfan II	7515	TX
NPW	EPA 608.3	10296614	Endosulfan sulfate	7520	TX
NPW	EPA 608.3	10296614	Endrin	7540	TX
NPW	EPA 608.3	10296614	Endrin aldehyde	7530	TX
NPW	EPA 608.3	10296614	gamma-BHC (Lindane, gamma-HexachlorocyclohexanE)	7120	TX
NPW	EPA 608.3	10296614	gamma-Chlordane	7245	TX
NPW	EPA 608.3	10296614	Heptachlor	7685	TX
NPW	EPA 608.3	10296614	Heptachlor epoxide	7690	TX
NPW	EPA 608.3	10296614	Methoxychlor	7810	TX
NPW	EPA 608.3	10296614	Toxaphene (Chlorinated Camphene)	8250	TX
NPW	EPA 615	10105609	2,4,5-T	8655	TX
NPW	EPA 615	10105609	2,4-D	8545	TX
NPW	EPA 615	10105609	2,4-DB	8560	TX
NPW	EPA 615	10105609	Dalapon	8555	TX
NPW	EPA 615	10105609	Dicamba	8595	TX
NPW	EPA 615	10105609	Dichlorprop	8605	TX
NPW	EPA 615	10105609	Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	8620	TX
NPW	EPA 615	10105609	MCPA	7775	TX
NPW	EPA 615	10105609	MCPP	7780	TX
NPW	EPA 615	10105609	Silvex (2,4,5-TP)	8650	TX
NPW	EPA 624.1	10298121	1,1,1-Trichloroethane	5160	TX
NPW	EPA 624.1	10298121	1,1,2,2-Tetrachloroethane	5110	TX
NPW	EPA 624.1	10298121	1,1,2-Trichloroethane	5165	TX
NPW	EPA 624.1	10298121	1,1-Dichloroethane	4630	TX
NPW	EPA 624.1	10298121	1,1-Dichloroethylene	4640	TX

NPW	EPA 624.1	10298121	1,2-Dibromoethane (EDB, Ethylene dibromide)	4585	TX
NPW	EPA 624.1	10298121	1,2-Dichlorobenzene (o-Dichlorobenzene)	4610	TX
NPW	EPA 624.1	10298121	1,2-Dichloroethane (Ethylene dichloride)	4635	TX
NPW	EPA 624.1	10298121	1,2-Dichloropropane	4655	TX
NPW	EPA 624.1	10298121	1,3-Dichlorobenzene (m-Dichlorobenzene)	4615	TX
NPW	EPA 624.1	10298121	1,4-Dichlorobenzene (p-Dichlorobenzene)	4620	TX
NPW	EPA 624.1	10298121	2-Butanone (Methyl ethyl ketone, MEK)	4410	TX
NPW	EPA 624.1	10298121	2-Chloroethyl vinyl ether	4500	TX
NPW	EPA 624.1	10298121	Acetone	4315	TX
NPW	EPA 624.1	10298121	Acrolein (Propenal)	4325	TX
NPW	EPA 624.1	10298121	Acrylonitrile	4340	TX
NPW	EPA 624.1	10298121	Benzene	4375	TX
NPW	EPA 624.1	10298121	Bromodichloromethane	4395	TX
NPW	EPA 624.1	10298121	Bromoform	4400	TX
NPW	EPA 624.1	10298121	Carbon tetrachloride	4455	TX
NPW	EPA 624.1	10298121	Chlorobenzene	4475	TX
NPW	EPA 624.1	10298121	Chlorodibromomethane	4575	TX
NPW	EPA 624.1	10298121	Chloroethane (Ethyl chloride)	4485	TX
NPW	EPA 624.1	10298121	Chloroform	4505	TX
NPW	EPA 624.1	10298121	cis-1,2-Dichloroethylene	4645	TX
NPW	EPA 624.1	10298121	cis-1,3-Dichloropropene	4680	TX
NPW	EPA 624.1	10298121	Ethylbenzene	4765	TX
NPW	EPA 624.1	10298121	m+p-xylene	5240	TX
NPW	EPA 624.1	10298121	Methyl bromide (Bromomethane)	4950	TX
NPW	EPA 624.1	10298121	Methyl chloride (Chloromethane)	4960	TX
NPW	EPA 624.1	10298121	Methyl tert-butyl ether (MTBE)	5000	TX
NPW	EPA 624.1	10298121	Methylene chloride (Dichloromethane)	4975	TX
NPW	EPA 624.1	10298121	o-Xylene	5250	TX
NPW	EPA 624.1	10298121	Tetrachloroethylene (Perchloroethylene)	5115	TX
NPW	EPA 624.1	10298121	Toluene	5140	TX
NPW	EPA 624.1	10298121	Total Xylene	5260	TX
NPW	EPA 624.1	10298121	trans-1,2-Dichloroethylene	4700	TX
NPW	EPA 624.1	10298121	trans-1,3-Dichloropropylene	4685	TX
NPW	EPA 624.1	10298121	Trichloroethene (Trichloroethylene)	5170	TX
NPW	EPA 624.1	10298121	Trichlorofluoromethane	5175	TX

			(Fluorotrichloromethane, Freon 11)		
NPW	EPA 624.1	10298121	Vinyl chloride (Chloroethene)	5235	TX
NPW	EPA 625.1	10300024	1,2,4,5-Tetrachlorobenzene	6715	TX
NPW	EPA 625.1	10300024	1,2,4-Trichlorobenzene	5155	TX
NPW	EPA 625.1	10300024	1,2-Dichlorobenzene (o-Dichlorobenzene)	4610	TX
NPW	EPA 625.1	10300024	1,2-Diphenylhydrazine	6221	TX
NPW	EPA 625.1	10300024	1,3-Dichlorobenzene (m-Dichlorobenzene)	4615	TX
NPW	EPA 625.1	10300024	1,4-Dichlorobenzene (p-Dichlorobenzene)	4620	TX
NPW	EPA 625.1	10300024	2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether	4659	TX
NPW	EPA 625.1	10300024	2,3,4,6-Tetrachlorophenol	6735	TX
NPW	EPA 625.1	10300024	2,4,5-Trichlorophenol	6835	TX
NPW	EPA 625.1	10300024	2,4,6-Trichlorophenol	6840	TX
NPW	EPA 625.1	10300024	2,4-Dichlorophenol	6000	TX
NPW	EPA 625.1	10300024	2,4-Dimethylphenol	6130	TX
NPW	EPA 625.1	10300024	2,4-Dinitrophenol	6175	TX
NPW	EPA 625.1	10300024	2,4-Dinitrotoluene (2,4-DNT)	6185	TX
NPW	EPA 625.1	10300024	2,6-Dinitrotoluene (2,6-DNT)	6190	TX
NPW	EPA 625.1	10300024	2-Chloronaphthalene	5795	TX
NPW	EPA 625.1	10300024	2-Chlorophenol	5800	TX
NPW	EPA 625.1	10300024	2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	6360	TX
NPW	EPA 625.1	10300024	2-Methylphenol (o-Cresol)	6400	TX
NPW	EPA 625.1	10300024	2-Nitrophenol	6490	TX
NPW	EPA 625.1	10300024	3,3'-Dichlorobenzidine	5945	TX
NPW	EPA 625.1	10300024	4,4'-DDD	7355	TX
NPW	EPA 625.1	10300024	4,4'-DDE	7360	TX
NPW	EPA 625.1	10300024	4,4'-DDT	7365	TX
NPW	EPA 625.1	10300024	4-Bromophenyl phenyl ether (BDE-3)	5660	TX
NPW	EPA 625.1	10300024	4-Chloro-3-methylphenol	5700	TX
NPW	EPA 625.1	10300024	4-Chlorophenyl phenylether	5825	TX
NPW	EPA 625.1	10300024	4-Methylphenol (p-Cresol)	6410	TX
NPW	EPA 625.1	10300024	4-Nitrophenol	6500	TX
NPW	EPA 625.1	10300024	Acenaphthene	5500	TX
NPW	EPA 625.1	10300024	Acenaphthylene	5505	TX
NPW	EPA 625.1	10300024	Aldrin	7025	TX
NPW	EPA 625.1	10300024	alpha-BHC (alpha-Hexachlorocyclohexane)	7110	TX
NPW	EPA 625.1	10300024	Anthracene	5555	TX

NPW	EPA 625.1	10300024	Aroclor-1016 (PCB-1016)	8880	TX
NPW	EPA 625.1	10300024	Aroclor-1221 (PCB-1221)	8885	TX
NPW	EPA 625.1	10300024	Aroclor-1232 (PCB-1232)	8890	TX
NPW	EPA 625.1	10300024	Aroclor-1242 (PCB-1242)	8895	TX
NPW	EPA 625.1	10300024	Aroclor-1248 (PCB-1248)	8900	TX
NPW	EPA 625.1	10300024	Aroclor-1254 (PCB-1254)	8905	TX
NPW	EPA 625.1	10300024	Aroclor-1260 (PCB-1260)	8910	TX
NPW	EPA 625.1	10300024	Benzidine	5595	TX
NPW	EPA 625.1	10300024	Benzo(a)anthracene	5575	TX
NPW	EPA 625.1	10300024	Benzo(a)pyrene	5580	TX
NPW	EPA 625.1	10300024	Benzo(g,h,i)perylene	5590	TX
NPW	EPA 625.1	10300024	Benzo(k)fluoranthene	5600	TX
NPW	EPA 625.1	10300024	Benzo[b]fluoranthene	5585	TX
NPW	EPA 625.1	10300024	beta-BHC (beta-Hexachlorocyclohexane)	7115	TX
NPW	EPA 625.1	10300024	bis(2-Chloroethoxy)methane	5760	TX
NPW	EPA 625.1	10300024	bis(2-Chloroethyl) ether	5765	TX
NPW	EPA 625.1	10300024	Butyl benzyl phthalate	5670	TX
NPW	EPA 625.1	10300024	Chrysene	5855	TX
NPW	EPA 625.1	10300024	cis-Chlordane (alpha-Chlordane)	7240	TX
NPW	EPA 625.1	10300024	delta-BHC	7105	TX
NPW	EPA 625.1	10300024	Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	6065	TX
NPW	EPA 625.1	10300024	Di-n-butyl phthalate	5925	TX
NPW	EPA 625.1	10300024	Di-n-octyl phthalate	6200	TX
NPW	EPA 625.1	10300024	Dibenz(a,h) anthracene	5895	TX
NPW	EPA 625.1	10300024	Dieldrin	7470	TX
NPW	EPA 625.1	10300024	Diethyl phthalate	6070	TX
NPW	EPA 625.1	10300024	Dimethyl phthalate	6135	TX
NPW	EPA 625.1	10300024	Endosulfan I	7510	TX
NPW	EPA 625.1	10300024	Endosulfan II	7515	TX
NPW	EPA 625.1	10300024	Endosulfan sulfate	7520	TX
NPW	EPA 625.1	10300024	Endrin	7540	TX
NPW	EPA 625.1	10300024	Endrin aldehyde	7530	TX
NPW	EPA 625.1	10300024	Fluoranthene	6265	TX
NPW	EPA 625.1	10300024	Fluorene	6270	TX
NPW	EPA 625.1	10300024	gamma-BHC (Lindane, gamma-HexachlorocyclohexanE)	7120	TX
NPW	EPA 625.1	10300024	gamma-Chlordane	7245	TX
NPW	EPA 625.1	10300024	Heptachlor	7685	TX
NPW	EPA 625.1	10300024	Heptachlor epoxide	7690	TX
NPW	EPA 625.1	10300024	Hexachlorobenzene	6275	TX

NPW	EPA 625.1	10300024	Hexachlorobutadiene	4835	TX
NPW	EPA 625.1	10300024	Hexachlorocyclopentadiene	6285	TX
NPW	EPA 625.1	10300024	Hexachloroethane	4840	TX
NPW	EPA 625.1	10300024	Indeno(1,2,3-cd) pyrene	6315	TX
NPW	EPA 625.1	10300024	Isophorone	6320	TX
NPW	EPA 625.1	10300024	n-Nitroso-di-n-butylamine	5025	TX
NPW	EPA 625.1	10300024	n-Nitrosodi-n-propylamine	6545	TX
NPW	EPA 625.1	10300024	n-Nitrosodiethylamine	6525	TX
NPW	EPA 625.1	10300024	n-Nitrosodimethylamine	6530	TX
NPW	EPA 625.1	10300024	n-Nitrosodiphenylamine	6535	TX
NPW	EPA 625.1	10300024	Naphthalene	5005	TX
NPW	EPA 625.1	10300024	Nitrobenzene	5015	TX
NPW	EPA 625.1	10300024	Pentachlorobenzene	6590	TX
NPW	EPA 625.1	10300024	Pentachlorophenol	6605	TX
NPW	EPA 625.1	10300024	Phenanthrene	6615	TX
NPW	EPA 625.1	10300024	Phenol	6625	TX
NPW	EPA 625.1	10300024	Pyrene	6665	TX
NPW	EPA 625.1	10300024	Pyridine	5095	TX
NPW	EPA 625.1	10300024	Toxaphene (Chlorinated Camphene)	8250	TX
NPW	EPA 632	10108608	Carbaryl (Sevin)	7195	TX
NPW	EPA 7196	10162400	Chromium (VI)	1045	TX
NPW	EPA 7470	10165807	Mercury	1095	TX
NPW	EPA 8015	10305609	Allyl alcohol	4350	TX
NPW	EPA 8015	10305609	Diesel Range Organics (DRO)	9369	TX
NPW	EPA 8015	10305609	Ethanol	4750	TX
NPW	EPA 8015	10305609	Ethylene glycol	4785	TX
NPW	EPA 8015	10305609	Gasoline Range Organics (GRO)	9408	TX
NPW	EPA 8015	10305609	Isobutyl alcohol (2-Methyl-1-propanol)	4875	TX
NPW	EPA 8015	10305609	Isopropyl alcohol (2-Propanol, Isopropanol)	4895	TX
NPW	EPA 8015	10305609	Methanol	4930	TX
NPW	EPA 8015	10305609	n-Butyl alcohol (1-Butanol, n-Butanol)	4425	TX
NPW	EPA 8015	10305609	n-Propanol (1-Propanol)	5055	TX
NPW	EPA 8015	10305609	Propylene Glycol	6657	TX
NPW	EPA 8081	10178811	4,4'-DDD	7355	TX
NPW	EPA 8081	10178811	4,4'-DDE	7360	TX
NPW	EPA 8081	10178811	4,4'-DDT	7365	TX
NPW	EPA 8081	10178811	Alachlor	7005	TX
NPW	EPA 8081	10178811	Aldrin	7025	TX
NPW	EPA 8081	10178811	alpha-BHC (alpha-	7110	TX

			Hexachlorocyclohexane)		
NPW	EPA 8081	10178811	beta-BHC (beta-Hexachlorocyclohexane)	7115	TX
NPW	EPA 8081	10178811	Chlordane (tech.)	7250	TX
NPW	EPA 8081	10178811	cis-Chlordane (alpha-Chlordane)	7240	TX
NPW	EPA 8081	10178811	delta-BHC	7105	TX
NPW	EPA 8081	10178811	Dicofol	7460	TX
NPW	EPA 8081	10178811	Dieldrin	7470	TX
NPW	EPA 8081	10178811	Endosulfan I	7510	TX
NPW	EPA 8081	10178811	Endosulfan II	7515	TX
NPW	EPA 8081	10178811	Endosulfan sulfate	7520	TX
NPW	EPA 8081	10178811	Endrin	7540	TX
NPW	EPA 8081	10178811	Endrin aldehyde	7530	TX
NPW	EPA 8081	10178811	Endrin ketone	7535	TX
NPW	EPA 8081	10178811	gamma-BHC (Lindane, gamma-HexachlorocyclohexanE)	7120	TX
NPW	EPA 8081	10178811	gamma-Chlordane	7245	TX
NPW	EPA 8081	10178811	Heptachlor	7685	TX
NPW	EPA 8081	10178811	Heptachlor epoxide	7690	TX
NPW	EPA 8081	10178811	Methoxychlor	7810	TX
NPW	EPA 8081	10178811	Mirex	7870	TX
NPW	EPA 8081	10178811	Toxaphene (Chlorinated Camphene)	8250	TX
NPW	EPA 8082	10179358	2,2',3,4',5'-Pentachlorobiphenyl (BZ-97)	9154	TX
NPW	EPA 8082	10179358	2,2',3,4',5,5',6-Heptachlorobiphenyl (BZ-187)	9080	TX
NPW	EPA 8082	10179358	2,2',3,4,4',5'-Hexachlorobiphenyl (BZ-138)	9025	TX
NPW	EPA 8082	10179358	2,2',3,5'-Tetrachlorobiphenyl (BZ-44)	8945	TX
NPW	EPA 8082	10179358	2,2',3,5,5',6-Hexachlorobiphenyl (BZ-151)	9035	TX
NPW	EPA 8082	10179358	2,2',4,5,5'-Pentachlorobiphenyl (BZ-101)	8980	TX
NPW	EPA 8082	10179358	2,2',5,5'-Tetrachlorobiphenyl (BZ-52)	8955	TX
NPW	EPA 8082	10179358	2,2',5-Trichlorobiphenyl (BZ-18)	8930	TX
NPW	EPA 8082	10179358	2,3',4,4'-Tetrachlorobiphenyl (BZ-66)	8960	TX
NPW	EPA 8082	10179358	2,3,3',4',6-Pentachlorobiphenyl (BZ-110)	8990	TX
NPW	EPA 8082	10179358	2,3,3',4,5,5'-Hexachlorobiphenyl (BZ-159)	9196	TX
NPW	EPA 8082	10179358	2,3-Dichlorobiphenyl (BZ-5)	8920	TX

NPW	EPA 8082	10179358	2,4',5-Trichlorobiphenyl (BZ-31)	8940	TX
NPW	EPA 8082	10179358	2-Chlorobiphenyl (BZ-1)	8915	TX
NPW	EPA 8082	10179358	Aroclor-1016 (PCB-1016)	8880	TX
NPW	EPA 8082	10179358	Aroclor-1221 (PCB-1221)	8885	TX
NPW	EPA 8082	10179358	Aroclor-1232 (PCB-1232)	8890	TX
NPW	EPA 8082	10179358	Aroclor-1242 (PCB-1242)	8895	TX
NPW	EPA 8082	10179358	Aroclor-1248 (PCB-1248)	8900	TX
NPW	EPA 8082	10179358	Aroclor-1254 (PCB-1254)	8905	TX
NPW	EPA 8082	10179358	Aroclor-1260 (PCB-1260)	8910	TX
NPW	EPA 8082	10179358	Total PCBs	8870	TX
NPW	EPA 8151	10183207	2,4,5-T	8655	TX
NPW	EPA 8151	10183207	2,4-D	8545	TX
NPW	EPA 8151	10183207	2,4-DB	8560	TX
NPW	EPA 8151	10183207	Dalapon	8555	TX
NPW	EPA 8151	10183207	Dicamba	8595	TX
NPW	EPA 8151	10183207	Dichlorprop	8605	TX
NPW	EPA 8151	10183207	Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	8620	TX
NPW	EPA 8151	10183207	MCPA	7775	TX
NPW	EPA 8151	10183207	MCPP	7780	TX
NPW	EPA 8151	10183207	Pentachlorophenol	6605	TX
NPW	EPA 8151	10183207	Picloram	8645	TX
NPW	EPA 8151	10183207	Silvex (2,4,5-TP)	8650	TX
NPW	EPA 8260	10307127	1,1,1,2-Tetrachloroethane	5105	TX
NPW	EPA 8260	10307127	1,1,1-Trichloroethane	5160	TX
NPW	EPA 8260	10307127	1,1,2,2-Tetrachloroethane	5110	TX
NPW	EPA 8260	10307127	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5185	TX
NPW	EPA 8260	10307127	1,1,2-Trichloroethane	5165	TX
NPW	EPA 8260	10307127	1,1-Dichloroethane	4630	TX
NPW	EPA 8260	10307127	1,1-Dichloroethylene	4640	TX
NPW	EPA 8260	10307127	1,1-Dichloropropene	4670	TX
NPW	EPA 8260	10307127	1,2,3-Trichlorobenzene	5150	TX
NPW	EPA 8260	10307127	1,2,3-Trichloropropane	5180	TX
NPW	EPA 8260	10307127	1,2,4-Trichlorobenzene	5155	TX
NPW	EPA 8260	10307127	1,2,4-Trimethylbenzene	5210	TX
NPW	EPA 8260	10307127	1,2-Dibromo-3-chloropropane (DBCP)	4570	TX
NPW	EPA 8260	10307127	1,2-Dibromoethane (EDB, Ethylene dibromide)	4585	TX
NPW	EPA 8260	10307127	1,2-Dichlorobenzene (o-Dichlorobenzene)	4610	TX

NPW	EPA 8260	10307127	1,2-Dichloroethane (Ethylene dichloride)	4635	TX
NPW	EPA 8260	10307127	1,2-Dichloropropane	4655	TX
NPW	EPA 8260	10307127	1,3,5-Trimethylbenzene	5215	TX
NPW	EPA 8260	10307127	1,3-Dichlorobenzene (m-Dichlorobenzene)	4615	TX
NPW	EPA 8260	10307127	1,3-Dichloropropane	4660	TX
NPW	EPA 8260	10307127	1,4-Dichlorobenzene (p-Dichlorobenzene)	4620	TX
NPW	EPA 8260	10307127	1,4-Dioxane (1,4- Diethyleneoxide)	4735	TX
NPW	EPA 8260	10307127	1-Chlorohexane	4510	TX
NPW	EPA 8260	10307127	2,2-Dichloropropane	4665	TX
NPW	EPA 8260	10307127	2-Butanone (Methyl ethyl ketone, MEK)	4410	TX
NPW	EPA 8260	10307127	2-Chloroethyl vinyl ether	4500	TX
NPW	EPA 8260	10307127	2-Chlorotoluene	4535	TX
NPW	EPA 8260	10307127	2-Hexanone	4860	TX
NPW	EPA 8260	10307127	2-Nitropropane	5020	TX
NPW	EPA 8260	10307127	4-Chlorotoluene	4540	TX
NPW	EPA 8260	10307127	4-Isopropyltoluene (p-Cymene)	4910	TX
NPW	EPA 8260	10307127	4-Methyl-2-pentanone (MIBK)	4995	TX
NPW	EPA 8260	10307127	Acetone	4315	TX
NPW	EPA 8260	10307127	Acetonitrile	4320	TX
NPW	EPA 8260	10307127	Acrolein (Propenal)	4325	TX
NPW	EPA 8260	10307127	Acrylonitrile	4340	TX
NPW	EPA 8260	10307127	Allyl chloride (3-Chloropropene)	4355	TX
NPW	EPA 8260	10307127	Benzene	4375	TX
NPW	EPA 8260	10307127	Benzyl chloride	5635	TX
NPW	EPA 8260	10307127	Bromobenzene	4385	TX
NPW	EPA 8260	10307127	Bromochloromethane	4390	TX
NPW	EPA 8260	10307127	Bromodichloromethane	4395	TX
NPW	EPA 8260	10307127	Bromoform	4400	TX
NPW	EPA 8260	10307127	Carbon disulfide	4450	TX
NPW	EPA 8260	10307127	Carbon tetrachloride	4455	TX
NPW	EPA 8260	10307127	Chlorobenzene	4475	TX
NPW	EPA 8260	10307127	Chlorodibromomethane	4575	TX
NPW	EPA 8260	10307127	Chloroethane (Ethyl chloride)	4485	TX
NPW	EPA 8260	10307127	Chloroform	4505	TX
NPW	EPA 8260	10307127	Chloroprene (2-Chloro-1,3-butadiene)	4525	TX
NPW	EPA 8260	10307127	cis-1,2-Dichloroethylene	4645	TX
NPW	EPA 8260	10307127	cis-1,3-Dichloropropene	4680	TX

NPW	EPA 8260	10307127	cis-1,4-Dichloro-2-butene	4600	TX
NPW	EPA 8260	10307127	Di-isopropylether (DIPE)	9375	TX
NPW	EPA 8260	10307127	Dibromofluoromethane	4590	TX
NPW	EPA 8260	10307127	Dibromomethane (Methylene bromide)	4595	TX
NPW	EPA 8260	10307127	Dichlorodifluoromethane (Freon-12)	4625	TX
NPW	EPA 8260	10307127	Diethyl ether	4725	TX
NPW	EPA 8260	10307127	Epichlorohydrin (1-Chloro-2,3-epoxypropane)	4745	TX
NPW	EPA 8260	10307127	Ethyl acetate	4755	TX
NPW	EPA 8260	10307127	Ethyl methacrylate	4810	TX
NPW	EPA 8260	10307127	Ethyl-t-butylether (ETBE) (2-Ethoxy-2-methylpropane)	4770	TX
NPW	EPA 8260	10307127	Ethylbenzene	4765	TX
NPW	EPA 8260	10307127	Ethylene oxide	4795	TX
NPW	EPA 8260	10307127	Hexachlorobutadiene	4835	TX
NPW	EPA 8260	10307127	Iodomethane (Methyl iodide)	4870	TX
NPW	EPA 8260	10307127	Isobutyl alcohol (2-Methyl-1-propanol)	4875	TX
NPW	EPA 8260	10307127	Isopropyl alcohol (2-Propanol, Isopropanol)	4895	TX
NPW	EPA 8260	10307127	Isopropylbenzene	4900	TX
NPW	EPA 8260	10307127	m+p-xylene	5240	TX
NPW	EPA 8260	10307127	Methacrylonitrile	4925	TX
NPW	EPA 8260	10307127	Methyl acetate	4940	TX
NPW	EPA 8260	10307127	Methyl bromide (Bromomethane)	4950	TX
NPW	EPA 8260	10307127	Methyl chloride (Chloromethane)	4960	TX
NPW	EPA 8260	10307127	Methyl methacrylate	4990	TX
NPW	EPA 8260	10307127	Methyl tert-butyl ether (MTBE)	5000	TX
NPW	EPA 8260	10307127	Methylcyclohexane	4965	TX
NPW	EPA 8260	10307127	Methylene chloride (Dichloromethane)	4975	TX
NPW	EPA 8260	10307127	n-Butyl alcohol (1-Butanol, n-Butanol)	4425	TX
NPW	EPA 8260	10307127	n-Butylbenzene	4435	TX
NPW	EPA 8260	10307127	n-Propylbenzene	5090	TX
NPW	EPA 8260	10307127	Naphthalene	5005	TX
NPW	EPA 8260	10307127	o-Xylene	5250	TX
NPW	EPA 8260	10307127	Propionitrile (Ethyl cyanide)	5080	TX
NPW	EPA 8260	10307127	sec-Butylbenzene	4440	TX
NPW	EPA 8260	10307127	Styrene	5100	TX
NPW	EPA 8260	10307127	tert-amyl methyl ether (TAME)	4370	TX
NPW	EPA 8260	10307127	tert-Butyl alcohol (2-Methyl-2-	4420	TX

			Propanol)		
NPW	EPA 8260	10307127	tert-Butylbenzene	4445	TX
NPW	EPA 8260	10307127	Tetrachloroethylene (Perchloroethylene)	5115	TX
NPW	EPA 8260	10307127	Toluene	5140	TX
NPW	EPA 8260	10307127	Total Trihalomethanes (TTHMs)	5205	TX
NPW	EPA 8260	10307127	Total Xylene	5260	TX
NPW	EPA 8260	10307127	trans-1,2-Dichloroethylene	4700	TX
NPW	EPA 8260	10307127	trans-1,3-Dichloropropylene	4685	TX
NPW	EPA 8260	10307127	trans-1,4-Dichloro-2-butene	4605	TX
NPW	EPA 8260	10307127	Trichloroethene (Trichloroethylene)	5170	TX
NPW	EPA 8260	10307127	Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	5175	TX
NPW	EPA 8260	10307127	Vinyl acetate	5225	TX
NPW	EPA 8260	10307127	Vinyl chloride (Chloroethene)	5235	TX
NPW	EPA 8270	10242543	1,2,4,5-Tetrachlorobenzene	6715	TX
NPW	EPA 8270	10242543	1,2,4-Trichlorobenzene	5155	TX
NPW	EPA 8270	10242543	1,2-Dichlorobenzene (o-Dichlorobenzene)	4610	TX
NPW	EPA 8270	10242543	1,2-Diphenylhydrazine	6220	TX
NPW	EPA 8270	10242543	1,3,5-Trinitrobenzene (1,3,5-TNB)	6885	TX
NPW	EPA 8270	10242543	1,3-Dichlorobenzene (m-Dichlorobenzene)	4615	TX
NPW	EPA 8270	10242543	1,3-Dinitrobenzene (1,3-DNB)	6160	TX
NPW	EPA 8270	10242543	1,4-Dichlorobenzene (p-Dichlorobenzene)	4620	TX
NPW	EPA 8270	10242543	1,4-Naphthoquinone	6420	TX
NPW	EPA 8270	10242543	1,4-Phenylenediamine	6630	TX
NPW	EPA 8270	10242543	1-Chloronaphthalene	5790	TX
NPW	EPA 8270	10242543	1-Naphthylamine	6425	TX
NPW	EPA 8270	10242543	2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether	4659	TX
NPW	EPA 8270	10242543	2,3,4,6-Tetrachlorophenol	6735	TX
NPW	EPA 8270	10242543	2,4,5-Trichlorophenol	6835	TX
NPW	EPA 8270	10242543	2,4,6-Trichlorophenol	6840	TX
NPW	EPA 8270	10242543	2,4-Dichlorophenol	6000	TX
NPW	EPA 8270	10242543	2,4-Dimethylphenol	6130	TX
NPW	EPA 8270	10242543	2,4-Dinitrophenol	6175	TX
NPW	EPA 8270	10242543	2,4-Dinitrotoluene (2,4-DNT)	6185	TX
NPW	EPA 8270	10242543	2,6-Dichlorophenol	6005	TX
NPW	EPA 8270	10242543	2,6-Dinitrotoluene (2,6-DNT)	6190	TX
NPW	EPA 8270	10242543	2-Acetylaminofluorene	5515	TX

NPW	EPA 8270	10242543	2-Chloronaphthalene	5795	TX
NPW	EPA 8270	10242543	2-Chlorophenol	5800	TX
NPW	EPA 8270	10242543	2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	6360	TX
NPW	EPA 8270	10242543	2-Methylaniline (o-Toluidine)	5145	TX
NPW	EPA 8270	10242543	2-Methylnaphthalene	6385	TX
NPW	EPA 8270	10242543	2-Methylphenol (o-Cresol)	6400	TX
NPW	EPA 8270	10242543	2-Naphthylamine	6430	TX
NPW	EPA 8270	10242543	2-Nitroaniline	6460	TX
NPW	EPA 8270	10242543	2-Nitrophenol	6490	TX
NPW	EPA 8270	10242543	2-Picoline (2-Methylpyridine)	5050	TX
NPW	EPA 8270	10242543	3,3'-Dichlorobenzidine	5945	TX
NPW	EPA 8270	10242543	3,3'-Dimethylbenzidine	6120	TX
NPW	EPA 8270	10242543	3-Methylcholanthrene	6355	TX
NPW	EPA 8270	10242543	3-Methylphenol (m-Cresol)	6405	TX
NPW	EPA 8270	10242543	3-Nitroaniline	6465	TX
NPW	EPA 8270	10242543	4,4'-DDD	7355	TX
NPW	EPA 8270	10242543	4,4'-DDE	7360	TX
NPW	EPA 8270	10242543	4,4'-DDT	7365	TX
NPW	EPA 8270	10242543	4-Aminobiphenyl	5540	TX
NPW	EPA 8270	10242543	4-Bromophenyl phenyl ether (BDE-3)	5660	TX
NPW	EPA 8270	10242543	4-Chloro-3-methylphenol	5700	TX
NPW	EPA 8270	10242543	4-Chloroaniline	5745	TX
NPW	EPA 8270	10242543	4-Chlorophenyl phenylether	5825	TX
NPW	EPA 8270	10242543	4-Dimethyl aminoazobenzene	6105	TX
NPW	EPA 8270	10242543	4-Methylphenol (p-Cresol)	6410	TX
NPW	EPA 8270	10242543	4-Nitroaniline	6470	TX
NPW	EPA 8270	10242543	4-Nitrophenol	6500	TX
NPW	EPA 8270	10242543	5-Nitro-o-toluidine	6570	TX
NPW	EPA 8270	10242543	7,12-Dimethylbenz(a)anthracene	6115	TX
NPW	EPA 8270	10242543	Acenaphthene	5500	TX
NPW	EPA 8270	10242543	Acenaphthylene	5505	TX
NPW	EPA 8270	10242543	Acetophenone	5510	TX
NPW	EPA 8270	10242543	Aldrin	7025	TX
NPW	EPA 8270	10242543	alpha-BHC (alpha-Hexachlorocyclohexane)	7110	TX
NPW	EPA 8270	10242543	Aniline	5545	TX
NPW	EPA 8270	10242543	Anthracene	5555	TX
NPW	EPA 8270	10242543	Aroclor-1016 (PCB-1016)	8880	TX
NPW	EPA 8270	10242543	Aroclor-1221 (PCB-1221)	8885	TX
NPW	EPA 8270	10242543	Aroclor-1232 (PCB-1232)	8890	TX

NPW	EPA 8270	10242543	Aroclor-1242 (PCB-1242)	8895	TX
NPW	EPA 8270	10242543	Aroclor-1248 (PCB-1248)	8900	TX
NPW	EPA 8270	10242543	Aroclor-1254 (PCB-1254)	8905	TX
NPW	EPA 8270	10242543	Aroclor-1260 (PCB-1260)	8910	TX
NPW	EPA 8270	10242543	Atrazine	7065	TX
NPW	EPA 8270	10242543	Azinphos-methyl (Guthion)	7075	TX
NPW	EPA 8270	10242543	Azobenzene (Diphenyldiazene)	5562	TX
NPW	EPA 8270	10242543	Benzidine	5595	TX
NPW	EPA 8270	10242543	Benzo(a)anthracene	5575	TX
NPW	EPA 8270	10242543	Benzo(a)pyrene	5580	TX
NPW	EPA 8270	10242543	Benzo(g,h,i)perylene	5590	TX
NPW	EPA 8270	10242543	Benzo(k)fluoranthene	5600	TX
NPW	EPA 8270	10242543	Benzoic acid	5610	TX
NPW	EPA 8270	10242543	Benzo[b]fluoranthene	5585	TX
NPW	EPA 8270	10242543	Benzyl alcohol	5630	TX
NPW	EPA 8270	10242543	beta-BHC (beta-Hexachlorocyclohexane)	7115	TX
NPW	EPA 8270	10242543	Biphenyl	5640	TX
NPW	EPA 8270	10242543	bis(2-Chloroethoxy)methane	5760	TX
NPW	EPA 8270	10242543	bis(2-Chloroethyl) ether	5765	TX
NPW	EPA 8270	10242543	Butyl benzyl phthalate	5670	TX
NPW	EPA 8270	10242543	Caprolactam	7180	TX
NPW	EPA 8270	10242543	Carbaryl (Sevin)	7195	TX
NPW	EPA 8270	10242543	Carbazole	5680	TX
NPW	EPA 8270	10242543	Chlordane (tech.)	7250	TX
NPW	EPA 8270	10242543	Chlorfenvinphos	7255	TX
NPW	EPA 8270	10242543	Chlorobenzilate	7260	TX
NPW	EPA 8270	10242543	Chrysene	5855	TX
NPW	EPA 8270	10242543	cis-Chlordane (alpha-Chlordane)	7240	TX
NPW	EPA 8270	10242543	Coumaphos	7315	TX
NPW	EPA 8270	10242543	delta-BHC	7105	TX
NPW	EPA 8270	10242543	Demeton	7390	TX
NPW	EPA 8270	10242543	Demeton-o	7395	TX
NPW	EPA 8270	10242543	Demeton-s	7385	TX
NPW	EPA 8270	10242543	Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	6065	TX
NPW	EPA 8270	10242543	Di-n-butyl phthalate	5925	TX
NPW	EPA 8270	10242543	Di-n-octyl phthalate	6200	TX
NPW	EPA 8270	10242543	Diallate	7405	TX
NPW	EPA 8270	10242543	Dibenz(a,h) anthracene	5895	TX
NPW	EPA 8270	10242543	Dibenzo(a,e) pyrene	5890	TX

NPW	EPA 8270	10242543	Dibenzofuran	5905	TX
NPW	EPA 8270	10242543	Dichlorvos (DDVP)	8610	TX
NPW	EPA 8270	10242543	Dieldrin	7470	TX
NPW	EPA 8270	10242543	Diethyl phthalate	6070	TX
NPW	EPA 8270	10242543	Dimethoate	7475	TX
NPW	EPA 8270	10242543	Dimethyl phthalate	6135	TX
NPW	EPA 8270	10242543	Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	8620	TX
NPW	EPA 8270	10242543	Diphenylamine	6205	TX
NPW	EPA 8270	10242543	Disulfoton	8625	TX
NPW	EPA 8270	10242543	Endosulfan I	7510	TX
NPW	EPA 8270	10242543	Endosulfan II	7515	TX
NPW	EPA 8270	10242543	Endosulfan sulfate	7520	TX
NPW	EPA 8270	10242543	Endrin	7540	TX
NPW	EPA 8270	10242543	Endrin aldehyde	7530	TX
NPW	EPA 8270	10242543	Endrin ketone	7535	TX
NPW	EPA 8270	10242543	EPN (Phosphonothioic acid, phenyl-, O-ethyl O-(p-nitrophenyl) ester)	7550	TX
NPW	EPA 8270	10242543	Ethyl methanesulfonate	6260	TX
NPW	EPA 8270	10242543	Famphur	7580	TX
NPW	EPA 8270	10242543	Fensulfothion	7600	TX
NPW	EPA 8270	10242543	Fenthion	7605	TX
NPW	EPA 8270	10242543	Fluoranthene	6265	TX
NPW	EPA 8270	10242543	Fluorene	6270	TX
NPW	EPA 8270	10242543	gamma-BHC (Lindane, gamma-HexachlorocyclohexanE)	7120	TX
NPW	EPA 8270	10242543	gamma-Chlordane	7245	TX
NPW	EPA 8270	10242543	Heptachlor	7685	TX
NPW	EPA 8270	10242543	Heptachlor epoxide	7690	TX
NPW	EPA 8270	10242543	Hexachlorobenzene	6275	TX
NPW	EPA 8270	10242543	Hexachlorobutadiene	4835	TX
NPW	EPA 8270	10242543	Hexachlorocyclopentadiene	6285	TX
NPW	EPA 8270	10242543	Hexachloroethane	4840	TX
NPW	EPA 8270	10242543	Hexachlorophene	6290	TX
NPW	EPA 8270	10242543	Hexachloropropene	6295	TX
NPW	EPA 8270	10242543	Indeno(1,2,3-cd) pyrene	6315	TX
NPW	EPA 8270	10242543	Isodrin	7725	TX
NPW	EPA 8270	10242543	Isophorone	6320	TX
NPW	EPA 8270	10242543	Isosafrole	6325	TX
NPW	EPA 8270	10242543	Kepone	7740	TX
NPW	EPA 8270	10242543	Malathion	7770	TX

NPW	EPA 8270	10242543	Methapyrilene	6345	TX
NPW	EPA 8270	10242543	Methoxychlor	7810	TX
NPW	EPA 8270	10242543	Methyl methanesulfonate	6375	TX
NPW	EPA 8270	10242543	Methyl parathion (Parathion, methyl)	7825	TX
NPW	EPA 8270	10242543	Mevinphos	7850	TX
NPW	EPA 8270	10242543	Monocrotophos	7880	TX
NPW	EPA 8270	10242543	n-Nitroso-di-n-butylamine	5025	TX
NPW	EPA 8270	10242543	n-Nitrosodi-n-propylamine	6545	TX
NPW	EPA 8270	10242543	n-Nitrosodiethylamine	6525	TX
NPW	EPA 8270	10242543	n-Nitrosodimethylamine	6530	TX
NPW	EPA 8270	10242543	n-Nitrosodiphenylamine	6535	TX
NPW	EPA 8270	10242543	n-Nitrosomethylethylamine	6550	TX
NPW	EPA 8270	10242543	n-Nitrosomorpholine	6555	TX
NPW	EPA 8270	10242543	n-Nitrosopiperidine	6560	TX
NPW	EPA 8270	10242543	n-Nitrosopyrrolidine	6565	TX
NPW	EPA 8270	10242543	Naled	7905	TX
NPW	EPA 8270	10242543	Naphthalene	5005	TX
NPW	EPA 8270	10242543	Nitrobenzene	5015	TX
NPW	EPA 8270	10242543	o,o,o-Triethyl phosphorothioate	8290	TX
NPW	EPA 8270	10242543	Parathion, ethyl	7955	TX
NPW	EPA 8270	10242543	Pentachlorobenzene	6590	TX
NPW	EPA 8270	10242543	Pentachloronitrobenzene	6600	TX
NPW	EPA 8270	10242543	Pentachlorophenol	6605	TX
NPW	EPA 8270	10242543	Phenacetin	6610	TX
NPW	EPA 8270	10242543	Phenanthrene	6615	TX
NPW	EPA 8270	10242543	Phenol	6625	TX
NPW	EPA 8270	10242543	Phorate	7985	TX
NPW	EPA 8270	10242543	Phthalic anhydride	6640	TX
NPW	EPA 8270	10242543	Pronamide (Kerb)	6650	TX
NPW	EPA 8270	10242543	Pyrene	6665	TX
NPW	EPA 8270	10242543	Pyridine	5095	TX
NPW	EPA 8270	10242543	Quinoline	6670	TX
NPW	EPA 8270	10242543	Resorcinol	6680	TX
NPW	EPA 8270	10242543	Safrole	6685	TX
NPW	EPA 8270	10242543	Strychnine	6695	TX
NPW	EPA 8270	10242543	Sulfotep (Tetraethyl dithiopyrophospahte)	8155	TX
NPW	EPA 8270	10242543	Tetrachlorvinphos (Stirophos, Gardona) E-isomer	8197	TX
NPW	EPA 8270	10242543	Thionazin (Zinophos)	8235	TX
NPW	EPA 8270	10242543	Toxaphene (Chlorinated Camphene)	8250	TX

NPW	EPA 8321	10189205	2,4,5-T	8655	TX
NPW	EPA 8321	10189205	2,4-D	8545	TX
NPW	EPA 8321	10189205	2,4-DB	8560	TX
NPW	EPA 8321	10189205	Dalapon	8555	TX
NPW	EPA 8321	10189205	Dicamba	8595	TX
NPW	EPA 8321	10189205	Dichlorprop	8605	TX
NPW	EPA 8321	10189205	Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	8620	TX
NPW	EPA 8321	10189205	MCPA	7775	TX
NPW	EPA 8321	10189205	MCPP	7780	TX
NPW	EPA 8321	10189205	Silvex (2,4,5-TP)	8650	TX
NPW	EPA 9012	10243206	Amenable Cyanide	1510	TX
NPW	EPA 9012	10243206	Total Cyanide	1645	TX
NPW	EPA 9040	10244403	pH	1900	TX
NPW	EPA 9050	10198808	Conductivity	1610	TX
NPW	EPA 9056	10199607	Bromide	1540	TX
NPW	EPA 9056	10199607	Chloride	1575	TX
NPW	EPA 9056	10199607	Fluoride	1730	TX
NPW	EPA 9056	10199607	Nitrate as N	1810	TX
NPW	EPA 9056	10199607	Nitrate plus Nitrite as N	1820	TX
NPW	EPA 9056	10199607	Nitrite as N	1840	TX
NPW	EPA 9056	10199607	Sulfate	2000	TX
NPW	EPA 9060	10244823	Total Organic Carbon (TOC)	2040	TX
NPW	EPA 9066	10200609	Total Phenolics	1905	TX
NPW	EPA RSK 175	10212905	Ethane	4747	TX
NPW	EPA RSK 175	10212905	Ethene	4752	TX
NPW	EPA RSK 175	10212905	Methane	4926	TX
NPW	EPA RSK 175	10212905	n-Butane	5007	TX
NPW	EPA RSK 175	10212905	n-Propane	5029	TX
NPW	HACH 8000	60003001	Chemical Oxygen Demand (COD)	1565	TX
NPW	IDNR OA-2	90016607	Extractable Total Petroleum Hydrocarbons	6241	TX
NPW	Kelada-01	60005303	Cyanide	1635	TX
NPW	SM 2120 B	20039036	Color	1605	TX
NPW	SM 2130 B	20042631	Turbidity	2055	TX
NPW	SM 2320 B	20045436	Alkalinity as CaCO3	1505	TX
NPW	SM 2340 B	20046439	Total hardness as CaCO3	1755	TX
NPW	SM 2510 B	20048435	Conductivity	1610	TX
NPW	SM 2540 B	20048684	Residue-total (TS)	1950	TX
NPW	SM 2540 C	20050457	Residue-filterable (TDS)	1955	TX
NPW	SM 2540 D	20050446	Residue-nonfilterable (TSS)	1960	TX

NPW	SM 3500-Cr B	20066039	Chromium (VI)	1045	TX
NPW	SM 4500-Cl G	20081441	Total Residual Chlorine	1940	TX
NPW	SM 4500-CN^- G	20097023	Amenable Cyanide	1510	TX
NPW	SM 4500-H+ B	20105037	pH	1900	TX
NPW	SM 4500-$S2^-$ D	20125626	Sulfide	2005	TX
NPW	SM 4500-$S2^-$ F	20126414	Sulfide	2005	TX
NPW	SM 4500-$SO3^-$ B	20130421	Sulfite-SO3	2015	TX
NPW	SM 5210 B	20135028	Biochemical Oxygen Demand (BOD)	1530	TX
NPW	SM 5210 B	20135028	Carbonaceous BOD (CBOD)	1555	TX
NPW	SM 5310 C	20138630	Total Organic Carbon (TOC)	2040	TX
NPW	SM 5540 C	20144836	Surfactants - MBAS	2025	TX
NPW	TNRCC 1005	90019208	Total Petroleum Hydrocarbons (TPH)	2050	TX
S	ASTM D2216	30025128	Percent Moisture	8641	TX
S	EPA 1010	10234830	Ignitability	1780	TX
S	EPA 1311	10118806	Toxicity Characteristic Leaching Procedure (TCLP)	1466	TX
S	EPA 1312	10119003	Synthetic Precipitation Leaching Procedure (SPLP)	1460	TX
S	EPA 300.0	10053200	Bromide	1540	TX
S	EPA 300.0	10053200	Chloride	1575	TX
S	EPA 300.0	10053200	Fluoride	1730	TX
S	EPA 300.0	10053200	Nitrate as N	1810	TX
S	EPA 300.0	10053200	Nitrate plus Nitrite as N	1820	TX
S	EPA 300.0	10053200	Nitrite as N	1840	TX
S	EPA 300.0	10053200	Sulfate	2000	TX
S	EPA 350.1	10063602	Ammonia as N	1515	TX
S	EPA 353.2	10067604	Nitrate plus Nitrite as N	1820	TX
S	EPA 353.2	10067604	Nitrite as N	1840	TX
S	EPA 6010	10155916	Aluminum	1000	TX
S	EPA 6010	10155916	Antimony	1005	TX
S	EPA 6010	10155916	Arsenic	1010	TX
S	EPA 6010	10155916	Barium	1015	TX
S	EPA 6010	10155916	Beryllium	1020	TX
S	EPA 6010	10155916	Boron	1025	TX
S	EPA 6010	10155916	Cadmium	1030	TX
S	EPA 6010	10155916	Calcium	1035	TX
S	EPA 6010	10155916	Chromium	1040	TX
S	EPA 6010	10155916	Cobalt	1050	TX
S	EPA 6010	10155916	Copper	1055	TX
S	EPA 6010	10155916	Iron	1070	TX
S	EPA 6010	10155916	Lead	1075	TX

S	EPA 6010	10155916	Lithium	1080	TX
S	EPA 6010	10155916	Magnesium	1085	TX
S	EPA 6010	10155916	Manganese	1090	TX
S	EPA 6010	10155916	Molybdenum	1100	TX
S	EPA 6010	10155916	Nickel	1105	TX
S	EPA 6010	10155916	Potassium	1125	TX
S	EPA 6010	10155916	Selenium	1140	TX
S	EPA 6010	10155916	Silica as SiO2	1990	TX
S	EPA 6010	10155916	Silver	1150	TX
S	EPA 6010	10155916	Sodium	1155	TX
S	EPA 6010	10155916	Strontium	1160	TX
S	EPA 6010	10155916	Thallium	1165	TX
S	EPA 6010	10155916	Tin	1175	TX
S	EPA 6010	10155916	Titanium	1180	TX
S	EPA 6010	10155916	Total Phosphorus	1910	TX
S	EPA 6010	10155916	Vanadium	1185	TX
S	EPA 6010	10155916	Zinc	1190	TX
S	EPA 6020	10156420	Aluminum	1000	TX
S	EPA 6020	10156420	Antimony	1005	TX
S	EPA 6020	10156420	Arsenic	1010	TX
S	EPA 6020	10156420	Barium	1015	TX
S	EPA 6020	10156420	Beryllium	1020	TX
S	EPA 6020	10156420	Boron	1025	TX
S	EPA 6020	10156420	Cadmium	1030	TX
S	EPA 6020	10156420	Calcium	1035	TX
S	EPA 6020	10156420	Chromium	1040	TX
S	EPA 6020	10156420	Cobalt	1050	TX
S	EPA 6020	10156420	Copper	1055	TX
S	EPA 6020	10156420	Iron	1070	TX
S	EPA 6020	10156420	Lead	1075	TX
S	EPA 6020	10156420	Magnesium	1085	TX
S	EPA 6020	10156420	Manganese	1090	TX
S	EPA 6020	10156420	Molybdenum	1100	TX
S	EPA 6020	10156420	Nickel	1105	TX
S	EPA 6020	10156420	Potassium	1125	TX
S	EPA 6020	10156420	Selenium	1140	TX
S	EPA 6020	10156420	Silver	1150	TX
S	EPA 6020	10156420	Sodium	1155	TX
S	EPA 6020	10156420	Strontium	1160	TX
S	EPA 6020	10156420	Thallium	1165	TX
S	EPA 6020	10156420	Tin	1175	TX

S	EPA 6020	10156420	Titanium	1180	TX
S	EPA 6020	10156420	Vanadium	1185	TX
S	EPA 6020	10156420	Zinc	1190	TX
S	EPA 7196	10162400	Chromium (VI)	1045	TX
S	EPA 7470	10165807	Mercury	1095	TX
S	EPA 7471	10166457	Mercury	1095	TX
S	EPA 8015	10305609	Allyl alcohol	4350	TX
S	EPA 8015	10305609	Diesel Range Organics (DRO)	9369	TX
S	EPA 8015	10305609	Ethanol	4750	TX
S	EPA 8015	10305609	Ethylene glycol	4785	TX
S	EPA 8015	10305609	Gasoline Range Organics (GRO)	9408	TX
S	EPA 8015	10305609	Isobutyl alcohol (2-Methyl-1-propanol)	4875	TX
S	EPA 8015	10305609	Isopropyl alcohol (2-Propanol, Isopropanol)	4895	TX
S	EPA 8015	10305609	Methanol	4930	TX
S	EPA 8015	10305609	n-Butyl alcohol (1-Butanol, n-Butanol)	4425	TX
S	EPA 8015	10305609	n-Propanol (1-Propanol)	5055	TX
S	EPA 8015	10305609	Propylene Glycol	6657	TX
S	EPA 8081	10178811	4,4'-DDD	7355	TX
S	EPA 8081	10178811	4,4'-DDE	7360	TX
S	EPA 8081	10178811	4,4'-DDT	7365	TX
S	EPA 8081	10178811	Alachlor	7005	TX
S	EPA 8081	10178811	Aldrin	7025	TX
S	EPA 8081	10178811	alpha-BHC (alpha-Hexachlorocyclohexane)	7110	TX
S	EPA 8081	10178811	beta-BHC (beta-Hexachlorocyclohexane)	7115	TX
S	EPA 8081	10178811	Chlordane (tech.)	7250	TX
S	EPA 8081	10178811	cis-Chlordane (alpha-Chlordane)	7240	TX
S	EPA 8081	10178811	DDD,Total *	10314	TX
S	EPA 8081	10178811	DDE,Total *	10315	TX
S	EPA 8081	10178811	DDT	7370	TX
S	EPA 8081	10178811	delta-BHC	7105	TX
S	EPA 8081	10178811	Dieldrin	7470	TX
S	EPA 8081	10178811	Endosulfan I	7510	TX
S	EPA 8081	10178811	Endosulfan II	7515	TX
S	EPA 8081	10178811	Endosulfan sulfate	7520	TX
S	EPA 8081	10178811	Endrin	7540	TX
S	EPA 8081	10178811	Endrin aldehyde	7530	TX
S	EPA 8081	10178811	Endrin ketone	7535	TX

S	EPA 8081	10178811	gamma-BHC (Lindane, gamma-HexachlorocyclohexanE)	7120	TX
S	EPA 8081	10178811	gamma-Chlordane	7245	TX
S	EPA 8081	10178811	Heptachlor	7685	TX
S	EPA 8081	10178811	Heptachlor epoxide	7690	TX
S	EPA 8081	10178811	Methoxychlor	7810	TX
S	EPA 8081	10178811	Toxaphene (Chlorinated Camphene)	8250	TX
S	EPA 8082	10179358	2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl (BZ-206)	9095	TX
S	EPA 8082	10179358	2,2',3,3',4,4',5-Heptachlorobiphenyl (BZ-170)	9065	TX
S	EPA 8082	10179358	2,2',3,4',5,5',6-Heptachlorobiphenyl (BZ-187)	9080	TX
S	EPA 8082	10179358	2,2',3,4,4',5',6-Heptachlorobiphenyl (BZ-183)	9075	TX
S	EPA 8082	10179358	2,2',3,4,4',5'-Hexachlorobiphenyl (BZ-138)	9025	TX
S	EPA 8082	10179358	2,2',3,4,4',5,5'-Heptachlorobiphenyl (BZ-180)	9134	TX
S	EPA 8082	10179358	2,2',3,4,5'-Pentachlorobiphenyl (BZ-87)	8975	TX
S	EPA 8082	10179358	2,2',3,4,5,5'-Hexachlorobiphenyl (BZ-141)	9030	TX
S	EPA 8082	10179358	2,2',3,5'-Tetrachlorobiphenyl (BZ-44)	8945	TX
S	EPA 8082	10179358	2,2',3,5,5',6-Hexachlorobiphenyl (BZ-151)	9035	TX
S	EPA 8082	10179358	2,2',4,4',5,5'-Hexachlorobiphenyl (BZ-153)	9040	TX
S	EPA 8082	10179358	2,2',4,5,5'-Pentachlorobiphenyl (BZ-101)	8980	TX
S	EPA 8082	10179358	2,2',5,5'-Tetrachlorobiphenyl (BZ-52)	8955	TX
S	EPA 8082	10179358	2,2',5-Trichlorobiphenyl (BZ-18)	8930	TX
S	EPA 8082	10179358	2,3',4,4'-Tetrachlorobiphenyl (BZ-66)	8960	TX
S	EPA 8082	10179358	2,3,3',4',6-Pentachlorobiphenyl (BZ-110)	8990	TX
S	EPA 8082	10179358	2,3-Dichlorobiphenyl (BZ-5)	8920	TX
S	EPA 8082	10179358	2,4',5-Trichlorobiphenyl (BZ-31)	8940	TX
S	EPA 8082	10179358	2-Chlorobiphenyl (BZ-1)	8915	TX
S	EPA 8082	10179358	Aroclor-1016 (PCB-1016)	8880	TX
S	EPA 8082	10179358	Aroclor-1221 (PCB-1221)	8885	TX
S	EPA 8082	10179358	Aroclor-1232 (PCB-1232)	8890	TX
S	EPA 8082	10179358	Aroclor-1242 (PCB-1242)	8895	TX
S	EPA 8082	10179358	Aroclor-1248 (PCB-1248)	8900	TX

S	EPA 8082	10179358	Aroclor-1254 (PCB-1254)	8905	TX
S	EPA 8082	10179358	Aroclor-1260 (PCB-1260)	8910	TX
S	EPA 8082	10179358	Total PCBs	8870	TX
S	EPA 8151	10183207	2,4,5-T	8655	TX
S	EPA 8151	10183207	2,4-D	8545	TX
S	EPA 8151	10183207	2,4-DB	8560	TX
S	EPA 8151	10183207	Dalapon	8555	TX
S	EPA 8151	10183207	Dicamba	8595	TX
S	EPA 8151	10183207	Dichlorprop	8605	TX
S	EPA 8151	10183207	Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	8620	TX
S	EPA 8151	10183207	MCPA	7775	TX
S	EPA 8151	10183207	MCPP	7780	TX
S	EPA 8151	10183207	Pentachlorophenol	6605	TX
S	EPA 8151	10183207	Silvex (2,4,5-TP)	8650	TX
S	EPA 8260	10307127	1,1,1,2-Tetrachloroethane	5105	TX
S	EPA 8260	10307127	1,1,1-Trichloroethane	5160	TX
S	EPA 8260	10307127	1,1,2,2-Tetrachloroethane	5110	TX
S	EPA 8260	10307127	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5185	TX
S	EPA 8260	10307127	1,1,2-Trichloroethane	5165	TX
S	EPA 8260	10307127	1,1-Dichloroethane	4630	TX
S	EPA 8260	10307127	1,1-Dichloroethylene	4640	TX
S	EPA 8260	10307127	1,1-Dichloropropene	4670	TX
S	EPA 8260	10307127	1,2,3-Trichlorobenzene	5150	TX
S	EPA 8260	10307127	1,2,3-Trichloropropane	5180	TX
S	EPA 8260	10307127	1,2,4-Trichlorobenzene	5155	TX
S	EPA 8260	10307127	1,2,4-Trimethylbenzene	5210	TX
S	EPA 8260	10307127	1,2-Dibromo-3-chloropropane (DBCP)	4570	TX
S	EPA 8260	10307127	1,2-Dibromoethane (EDB, Ethylene dibromide)	4585	TX
S	EPA 8260	10307127	1,2-Dichlorobenzene (o-Dichlorobenzene)	4610	TX
S	EPA 8260	10307127	1,2-Dichloroethane (Ethylene dichloride)	4635	TX
S	EPA 8260	10307127	1,2-Dichloropropane	4655	TX
S	EPA 8260	10307127	1,3,5-Trimethylbenzene	5215	TX
S	EPA 8260	10307127	1,3-Dichlorobenzene (m-Dichlorobenzene)	4615	TX
S	EPA 8260	10307127	1,3-Dichloropropane	4660	TX
S	EPA 8260	10307127	1,4-Dichlorobenzene (p-Dichlorobenzene)	4620	TX

S	EPA 8260	10307127	1,4-Dioxane (1,4- Diethyleneoxide)	4735	TX
S	EPA 8260	10307127	1-Chlorohexane	4510	TX
S	EPA 8260	10307127	2,2-Dichloropropane	4665	TX
S	EPA 8260	10307127	2-Butanone (Methyl ethyl ketone, MEK)	4410	TX
S	EPA 8260	10307127	2-Chloroethyl vinyl ether	4500	TX
S	EPA 8260	10307127	2-Chlorotoluene	4535	TX
S	EPA 8260	10307127	2-Hexanone	4860	TX
S	EPA 8260	10307127	4-Chlorotoluene	4540	TX
S	EPA 8260	10307127	4-Isopropyltoluene (p-Cymene)	4910	TX
S	EPA 8260	10307127	4-Methyl-2-pentanone (MIBK)	4995	TX
S	EPA 8260	10307127	Acetone	4315	TX
S	EPA 8260	10307127	Acetonitrile	4320	TX
S	EPA 8260	10307127	Acrolein (Propenal)	4325	TX
S	EPA 8260	10307127	Acrylonitrile	4340	TX
S	EPA 8260	10307127	Allyl chloride (3-Chloropropene)	4355	TX
S	EPA 8260	10307127	Benzene	4375	TX
S	EPA 8260	10307127	Bromobenzene	4385	TX
S	EPA 8260	10307127	Bromochloromethane	4390	TX
S	EPA 8260	10307127	Bromodichloromethane	4395	TX
S	EPA 8260	10307127	Bromoform	4400	TX
S	EPA 8260	10307127	Carbon disulfide	4450	TX
S	EPA 8260	10307127	Carbon tetrachloride	4455	TX
S	EPA 8260	10307127	Chlorobenzene	4475	TX
S	EPA 8260	10307127	Chlorodibromomethane	4575	TX
S	EPA 8260	10307127	Chloroethane (Ethyl chloride)	4485	TX
S	EPA 8260	10307127	Chloroform	4505	TX
S	EPA 8260	10307127	Chloroprene (2-Chloro-1,3-butadiene)	4525	TX
S	EPA 8260	10307127	cis-1,2-Dichloroethylene	4645	TX
S	EPA 8260	10307127	cis-1,3-Dichloropropene	4680	TX
S	EPA 8260	10307127	cis-1,4-Dichloro-2-butene	4600	TX
S	EPA 8260	10307127	Dibromomethane (Methylene bromide)	4595	TX
S	EPA 8260	10307127	Dichlorodifluoromethane (Freon-12)	4625	TX
S	EPA 8260	10307127	Diethyl ether	4725	TX
S	EPA 8260	10307127	Epichlorohydrin (1-Chloro-2,3-epoxypropane)	4745	TX
S	EPA 8260	10307127	Ethyl methacrylate	4810	TX
S	EPA 8260	10307127	Ethylbenzene	4765	TX
S	EPA 8260	10307127	Ethylene oxide	4795	TX
S	EPA 8260	10307127	Hexachlorobutadiene	4835	TX

S	EPA 8260	10307127	Iodomethane (Methyl iodide)	4870	TX
S	EPA 8260	10307127	Isobutyl alcohol (2-Methyl-1-propanol)	4875	TX
S	EPA 8260	10307127	Isopropylbenzene	4900	TX
S	EPA 8260	10307127	m+p-xylene	5240	TX
S	EPA 8260	10307127	Methacrylonitrile	4925	TX
S	EPA 8260	10307127	Methyl acetate	4940	TX
S	EPA 8260	10307127	Methyl bromide (Bromomethane)	4950	TX
S	EPA 8260	10307127	Methyl chloride (Chloromethane)	4960	TX
S	EPA 8260	10307127	Methyl methacrylate	4990	TX
S	EPA 8260	10307127	Methyl tert-butyl ether (MTBE)	5000	TX
S	EPA 8260	10307127	Methylcyclohexane	4965	TX
S	EPA 8260	10307127	Methylene chloride (Dichloromethane)	4975	TX
S	EPA 8260	10307127	n-Butyl alcohol (1-Butanol, n-Butanol)	4425	TX
S	EPA 8260	10307127	n-Butylbenzene	4435	TX
S	EPA 8260	10307127	n-Propylbenzene	5090	TX
S	EPA 8260	10307127	Naphthalene	5005	TX
S	EPA 8260	10307127	o-Xylene	5250	TX
S	EPA 8260	10307127	sec-Butylbenzene	4440	TX
S	EPA 8260	10307127	Styrene	5100	TX
S	EPA 8260	10307127	tert-Butyl alcohol (2-Methyl-2-Propanol)	4420	TX
S	EPA 8260	10307127	tert-Butylbenzene	4445	TX
S	EPA 8260	10307127	Tetrachloroethylene (Perchloroethylene)	5115	TX
S	EPA 8260	10307127	Toluene	5140	TX
S	EPA 8260	10307127	Total Xylene	5260	TX
S	EPA 8260	10307127	trans-1,2-Dichloroethylene	4700	TX
S	EPA 8260	10307127	trans-1,3-Dichloropropylene	4685	TX
S	EPA 8260	10307127	trans-1,4-Dichloro-2-butene	4605	TX
S	EPA 8260	10307127	Trichloroethene (Trichloroethylene)	5170	TX
S	EPA 8260	10307127	Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	5175	TX
S	EPA 8260	10307127	Vinyl acetate	5225	TX
S	EPA 8260	10307127	Vinyl chloride (Chloroethene)	5235	TX
S	EPA 8270	10242543	1,2,4,5-Tetrachlorobenzene	6715	TX
S	EPA 8270	10242543	1,2,4-Trichlorobenzene	5155	TX
S	EPA 8270	10242543	1,2-Dichlorobenzene (o-Dichlorobenzene)	4610	TX
S	EPA 8270	10242543	1,2-Diphenylhydrazine	6220	TX
S	EPA 8270	10242543	1,3-Dichlorobenzene (m-	4615	TX

			Dichlorobenzene)		
S	EPA 8270	10242543	1,3-Dinitrobenzene (1,3-DNB)	6160	TX
S	EPA 8270	10242543	1,4-Dichlorobenzene (p-Dichlorobenzene)	4620	TX
S	EPA 8270	10242543	1,4-Phenylenediamine	6630	TX
S	EPA 8270	10242543	1-Chloronaphthalene	5790	TX
S	EPA 8270	10242543	1-Naphthylamine	6425	TX
S	EPA 8270	10242543	2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether	4659	TX
S	EPA 8270	10242543	2,3,4,6-Tetrachlorophenol	6735	TX
S	EPA 8270	10242543	2,4,5-Trichlorophenol	6835	TX
S	EPA 8270	10242543	2,4,6-Trichlorophenol	6840	TX
S	EPA 8270	10242543	2,4-Dichlorophenol	6000	TX
S	EPA 8270	10242543	2,4-Dimethylphenol	6130	TX
S	EPA 8270	10242543	2,4-Dinitrophenol	6175	TX
S	EPA 8270	10242543	2,4-Dinitrotoluene (2,4-DNT)	6185	TX
S	EPA 8270	10242543	2,6-Dichlorophenol	6005	TX
S	EPA 8270	10242543	2,6-Dinitrotoluene (2,6-DNT)	6190	TX
S	EPA 8270	10242543	2-Acetylaminofluorene	5515	TX
S	EPA 8270	10242543	2-Chloronaphthalene	5795	TX
S	EPA 8270	10242543	2-Chlorophenol	5800	TX
S	EPA 8270	10242543	2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	6360	TX
S	EPA 8270	10242543	2-Methylnaphthalene	6385	TX
S	EPA 8270	10242543	2-Methylphenol (o-Cresol)	6400	TX
S	EPA 8270	10242543	2-Naphthylamine	6430	TX
S	EPA 8270	10242543	2-Nitroaniline	6460	TX
S	EPA 8270	10242543	2-Nitrophenol	6490	TX
S	EPA 8270	10242543	2-Picoline (2-Methylpyridine)	5050	TX
S	EPA 8270	10242543	3,3'-Dichlorobenzidine	5945	TX
S	EPA 8270	10242543	3-Methylcholanthrene	6355	TX
S	EPA 8270	10242543	3-Methylphenol (m-Cresol)	6405	TX
S	EPA 8270	10242543	3-Nitroaniline	6465	TX
S	EPA 8270	10242543	4,4'-DDD	7355	TX
S	EPA 8270	10242543	4,4'-DDE	7360	TX
S	EPA 8270	10242543	4,4'-DDT	7365	TX
S	EPA 8270	10242543	4-Aminobiphenyl	5540	TX
S	EPA 8270	10242543	4-Bromophenyl phenyl ether (BDE-3)	5660	TX
S	EPA 8270	10242543	4-Chloro-3-methylphenol	5700	TX
S	EPA 8270	10242543	4-Chloroaniline	5745	TX
S	EPA 8270	10242543	4-Chlorophenyl phenylether	5825	TX

S	EPA 8270	10242543	4-Dimethyl aminoazobenzene	6105	TX
S	EPA 8270	10242543	4-Methylphenol (p-Cresol)	6410	TX
S	EPA 8270	10242543	4-Nitroaniline	6470	TX
S	EPA 8270	10242543	4-Nitrophenol	6500	TX
S	EPA 8270	10242543	7,12-Dimethylbenz(a)anthracene	6115	TX
S	EPA 8270	10242543	Acenaphthene	5500	TX
S	EPA 8270	10242543	Acenaphthylene	5505	TX
S	EPA 8270	10242543	Acetophenone	5510	TX
S	EPA 8270	10242543	Aldrin	7025	TX
S	EPA 8270	10242543	alpha-BHC (alpha-Hexachlorocyclohexane)	7110	TX
S	EPA 8270	10242543	Aniline	5545	TX
S	EPA 8270	10242543	Anthracene	5555	TX
S	EPA 8270	10242543	Aroclor-1016 (PCB-1016)	8880	TX
S	EPA 8270	10242543	Aroclor-1221 (PCB-1221)	8885	TX
S	EPA 8270	10242543	Aroclor-1232 (PCB-1232)	8890	TX
S	EPA 8270	10242543	Aroclor-1242 (PCB-1242)	8895	TX
S	EPA 8270	10242543	Aroclor-1248 (PCB-1248)	8900	TX
S	EPA 8270	10242543	Aroclor-1254 (PCB-1254)	8905	TX
S	EPA 8270	10242543	Aroclor-1260 (PCB-1260)	8910	TX
S	EPA 8270	10242543	Atrazine	7065	TX
S	EPA 8270	10242543	Azinphos-methyl (Guthion)	7075	TX
S	EPA 8270	10242543	Azobenzene (Diphenyldiazene)	5562	TX
S	EPA 8270	10242543	Benzidine	5595	TX
S	EPA 8270	10242543	Benzo(a)anthracene	5575	TX
S	EPA 8270	10242543	Benzo(a)pyrene	5580	TX
S	EPA 8270	10242543	Benzo(g,h,i)perylene	5590	TX
S	EPA 8270	10242543	Benzo(k)fluoranthene	5600	TX
S	EPA 8270	10242543	Benzoic acid	5610	TX
S	EPA 8270	10242543	Benzo[b]fluoranthene	5585	TX
S	EPA 8270	10242543	Benzyl alcohol	5630	TX
S	EPA 8270	10242543	beta-BHC (beta-Hexachlorocyclohexane)	7115	TX
S	EPA 8270	10242543	Biphenyl	5640	TX
S	EPA 8270	10242543	bis(2-Chloroethoxy)methane	5760	TX
S	EPA 8270	10242543	bis(2-Chloroethyl) ether	5765	TX
S	EPA 8270	10242543	Butyl benzyl phthalate	5670	TX
S	EPA 8270	10242543	Caprolactam	7180	TX
S	EPA 8270	10242543	Carbazole	5680	TX
S	EPA 8270	10242543	Chlordane (tech.)	7250	TX
S	EPA 8270	10242543	Chlorfenvinphos	7255	TX

S	EPA 8270	10242543	Chrysene	5855	TX
S	EPA 8270	10242543	cis-Chlordane (alpha-Chlordane)	7240	TX
S	EPA 8270	10242543	Coumaphos	7315	TX
S	EPA 8270	10242543	delta-BHC	7105	TX
S	EPA 8270	10242543	Demeton	7390	TX
S	EPA 8270	10242543	Demeton-o	7395	TX
S	EPA 8270	10242543	Demeton-s	7385	TX
S	EPA 8270	10242543	Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	6065	TX
S	EPA 8270	10242543	Di-n-butyl phthalate	5925	TX
S	EPA 8270	10242543	Di-n-octyl phthalate	6200	TX
S	EPA 8270	10242543	Dibenz(a,h) anthracene	5895	TX
S	EPA 8270	10242543	Dibenzo(a,e) pyrene	5890	TX
S	EPA 8270	10242543	Dibenzofuran	5905	TX
S	EPA 8270	10242543	Dichlorvos (DDVP)	8610	TX
S	EPA 8270	10242543	Dieldrin	7470	TX
S	EPA 8270	10242543	Diethyl phthalate	6070	TX
S	EPA 8270	10242543	Dimethoate	7475	TX
S	EPA 8270	10242543	Dimethyl phthalate	6135	TX
S	EPA 8270	10242543	Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	8620	TX
S	EPA 8270	10242543	Diphenylamine	6205	TX
S	EPA 8270	10242543	Endosulfan I	7510	TX
S	EPA 8270	10242543	Endosulfan II	7515	TX
S	EPA 8270	10242543	Endosulfan sulfate	7520	TX
S	EPA 8270	10242543	Endrin	7540	TX
S	EPA 8270	10242543	Endrin aldehyde	7530	TX
S	EPA 8270	10242543	Endrin ketone	7535	TX
S	EPA 8270	10242543	EPN (Phosphonothioic acid, phenyl-, O-ethyl O-(p-nitrophenyl) ester)	7550	TX
S	EPA 8270	10242543	Ethyl methanesulfonate	6260	TX
S	EPA 8270	10242543	Fensulfothion	7600	TX
S	EPA 8270	10242543	Fenthion	7605	TX
S	EPA 8270	10242543	Fluoranthene	6265	TX
S	EPA 8270	10242543	Fluorene	6270	TX
S	EPA 8270	10242543	gamma-BHC (Lindane, gamma-HexachlorocyclohexanE)	7120	TX
S	EPA 8270	10242543	gamma-Chlordane	7245	TX
S	EPA 8270	10242543	Heptachlor	7685	TX
S	EPA 8270	10242543	Heptachlor epoxide	7690	TX
S	EPA 8270	10242543	Hexachlorobenzene	6275	TX

S	EPA 8270	10242543	Hexachlorobutadiene	4835	TX
S	EPA 8270	10242543	Hexachlorocyclopentadiene	6285	TX
S	EPA 8270	10242543	Hexachloroethane	4840	TX
S	EPA 8270	10242543	Hexachlorophene	6290	TX
S	EPA 8270	10242543	Hexachloropropene	6295	TX
S	EPA 8270	10242543	Indeno(1,2,3-cd) pyrene	6315	TX
S	EPA 8270	10242543	Isophorone	6320	TX
S	EPA 8270	10242543	Malathion	7770	TX
S	EPA 8270	10242543	Methapyrilene	6345	TX
S	EPA 8270	10242543	Methoxychlor	7810	TX
S	EPA 8270	10242543	Methyl methanesulfonate	6375	TX
S	EPA 8270	10242543	Mevinphos	7850	TX
S	EPA 8270	10242543	Monocrotophos	7880	TX
S	EPA 8270	10242543	n-Nitroso-di-n-butylamine	5025	TX
S	EPA 8270	10242543	n-Nitrosodi-n-propylamine	6545	TX
S	EPA 8270	10242543	n-Nitrosodiethylamine	6525	TX
S	EPA 8270	10242543	n-Nitrosodimethylamine	6530	TX
S	EPA 8270	10242543	n-Nitrosodiphenylamine	6535	TX
S	EPA 8270	10242543	n-Nitrosomethylethylamine	6550	TX
S	EPA 8270	10242543	n-Nitrosomorpholine	6555	TX
S	EPA 8270	10242543	n-Nitrosopiperidine	6560	TX
S	EPA 8270	10242543	n-Nitrosopyrrolidine	6565	TX
S	EPA 8270	10242543	Naled	7905	TX
S	EPA 8270	10242543	Naphthalene	5005	TX
S	EPA 8270	10242543	Nitrobenzene	5015	TX
S	EPA 8270	10242543	Pentachlorobenzene	6590	TX
S	EPA 8270	10242543	Pentachloronitrobenzene	6600	TX
S	EPA 8270	10242543	Pentachlorophenol	6605	TX
S	EPA 8270	10242543	Phenacetin	6610	TX
S	EPA 8270	10242543	Phenanthrene	6615	TX
S	EPA 8270	10242543	Phenol	6625	TX
S	EPA 8270	10242543	Phthalic anhydride	6640	TX
S	EPA 8270	10242543	Pronamide (Kerb)	6650	TX
S	EPA 8270	10242543	Pyrene	6665	TX
S	EPA 8270	10242543	Pyridine	5095	TX
S	EPA 8270	10242543	Quinoline	6670	TX
S	EPA 8270	10242543	Resorcinol	6680	TX
S	EPA 8270	10242543	Strychnine	6695	TX
S	EPA 8270	10242543	Sulfotep (Tetraethyl dithiopyrophospahte)	8155	TX
S	EPA 8270	10242543	Tetrachlorvinphos (Stirophos,	8197	TX

			Gardona) E-isomer		
S	EPA 8270	10242543	Toxaphene (Chlorinated Camphene)	8250	TX
S	EPA 8321	10189205	2,4,5-T	8655	TX
S	EPA 8321	10189205	2,4-D	8545	TX
S	EPA 8321	10189205	2,4-DB	8560	TX
S	EPA 8321	10189205	Dalapon	8555	TX
S	EPA 8321	10189205	Dicamba	8595	TX
S	EPA 8321	10189205	Dichlorprop	8605	TX
S	EPA 8321	10189205	Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	8620	TX
S	EPA 8321	10189205	MCPA	7775	TX
S	EPA 8321	10189205	MCPP	7780	TX
S	EPA 8321	10189205	Silvex (2,4,5-TP)	8650	TX
S	EPA 9012	10243206	Amenable Cyanide	1510	TX
S	EPA 9012	10243206	Total Cyanide	1645	TX
S	EPA 9023	10195003	Extractable Organic Halides (EOX)	1720	TX
S	EPA 9034	10196006	Sulfide	2005	TX
S	EPA 9040	10244403	pH	1900	TX
S	EPA 9045	10198455	Corrosivity	1615	TX
S	EPA 9045	10198455	pH	1900	TX
S	EPA 9056	10199607	Bromide	1540	TX
S	EPA 9056	10199607	Chloride	1575	TX
S	EPA 9056	10199607	Fluoride	1730	TX
S	EPA 9056	10199607	Nitrate as N	1810	TX
S	EPA 9056	10199607	Nitrate plus Nitrite as N	1820	TX
S	EPA 9056	10199607	Nitrite as N	1840	TX
S	EPA 9056	10199607	Sulfate	2000	TX
S	EPA 9060	10244823	Total Organic Carbon (TOC)	2040	TX
S	EPA 9066	10200609	Total Phenolics	1905	TX
S	EPA 9071	10201806	n-Hexane Extractable Material (O&G)	1803	TX
S	EPA 9071	10201806	n-Hexane Extractable Material - Silica Gel Treated (HEM-SGT)	9500	TX
S	EPA 9095	10245600	Paint Filter Test	1434	TX
S	IDNR OA-2	90016607	Extractable Total Petroleum Hydrocarbons	6241	TX
S	SM 2320 B	20045436	Alkalinity as CaCO3	1505	TX
S	SM 2510 B	20048435	Conductivity	1610	TX
S	SM 2540 G	20052248	Residue-total (TS)	1950	TX
S	TNRCC 1005	90019208	Total Petroleum Hydrocarbons (TPH)	2050	TX
S	Walkley-Black	60012002	Carbon, organic (Walkley-Black) *	10340	TX

Jon Niermann, *Chairman*
Emily Lindley, *Commissioner*
Bobby Janecka, *Commissioner*
Erin E. Chancellor, *Interim Executive Director*

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

March 20, 2023

Ms. Amanda L. Grilli
Eurofins Pittsburgh
301 Alpha Drive
Pittsburgh, PA 15238-2907

Subject: Texas NELAP accreditation renewal with withdrawals

Dear Ms. Grilli:

I am writing to congratulate you and the staff of *Eurofins Pittsburgh*. Based on your application and primary NELAP accreditation from the state of Pennsylvania, pursuant to authorization from the Executive Director of the Texas Commission on Environmental Quality, the Program Manager of the Quality Assurance Section has renewed your laboratory's secondary NELAP accreditation with the withdrawals requested on January 30, 2023.

I am enclosing the new accreditation certificate and fields of accreditation listing. Please review the enclosures for accuracy and completeness. Your laboratory's accreditation is valid until the expiration date on the certificate and scope, contingent on continued compliance with the requirements of the state of Texas as well as those of your primary accreditation body.

Please contact me at frank.jamison@tceq.texas.gov if I can provide any additional information or assistance.

Sincerely,

Frank Jamison
Data and Records Specialist

Enclosures

Texas Commission on Environmental Quality

NELAP-Recognized Laboratory Accreditation is hereby awarded to

Eurofins Pittsburgh

301 Alpha Drive
Pittsburgh, PA 15238-2907

in accordance with Texas Water Code Chapter 5, Subchapter R, Title 30 Texas Administrative Code Chapter 25, and the National Environmental Laboratory Accreditation Program.

The laboratory's scope of accreditation includes the fields of accreditation that accompany this certificate. Continued accreditation depends upon successful ongoing participation in the program. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current location(s) and accreditation status for particular methods and analyses (www.tceq.texas.gov/goto/lab). Accreditation does not imply that a product, process, system or person is approved by the Texas Commission on Environmental Quality.

Erin E. Chancellor

Executive Director Texas Commission on Environmental Quality

Certificate Number: T104704528-23-12
Effective Date: 4/1/2023
Expiration Date: 3/31/2024

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

Certificate: T104704528-23-12

Eurofins Pittsburgh

Expiration Date: 3/31/2024

301 Alpha Drive
Pittsburgh, PA 15238-2907

Issue Date: 4/1/2023

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Matrix: ***Non-Potable Water***

Method EPA 1010

Analyte	AB	Analyte ID	Method ID
Ignitability	PA	1780	10116606

Method EPA 120.1

Analyte	AB	Analyte ID	Method ID
Conductivity	PA	1610	10006403

Method EPA 1311

Analyte	AB	Analyte ID	Method ID
TCLP	PA	849	10118806

Method EPA 160.4

Analyte	AB	Analyte ID	Method ID
Residue-volatile	PA	1970	10010409

Method EPA 1664

Analyte	AB	Analyte ID	Method ID
n-Hexane Extractable Material (HEM) (O&G)	PA	1803	10127807
Silica Gel Treated n-Hexane Extractable Material (SGT-HEM)	PA	10220	10127807

Method EPA 180.1

Analyte	AB	Analyte ID	Method ID
Turbidity	PA	2055	10011606

Method EPA 200.7

Analyte	AB	Analyte ID	Method ID
Aluminum	PA	1000	10013806
Antimony	PA	1005	10013806
Arsenic	PA	1010	10013806
Barium	PA	1015	10013806
Beryllium	PA	1020	10013806
Boron	PA	1025	10013806
Cadmium	PA	1030	10013806
Calcium	PA	1035	10013806
Chromium	PA	1040	10013806
Cobalt	PA	1050	10013806

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Matrix: ***Non-Potable Water***

Copper	PA	1055	10013806
Iron	PA	1070	10013806
Lead	PA	1075	10013806
Lithium	PA	1080	10013806
Magnesium	PA	1085	10013806
Manganese	PA	1090	10013806
Molybdenum	PA	1100	10013806
Nickel	PA	1105	10013806
Potassium	PA	1125	10013806
Selenium	PA	1140	10013806
Silica as SiO2	PA	1990	10013806
Silver	PA	1150	10013806
Sodium	PA	1155	10013806
Strontium	PA	1160	10013806
Thallium	PA	1165	10013806
Tin	PA	1175	10013806
Titanium	PA	1180	10013806
Vanadium	PA	1185	10013806
Zinc	PA	1190	10013806

Method EPA 200.8

Analyte	**AB**	**Analyte ID**	**Method ID**
Aluminum	PA	1000	10014605
Antimony	PA	1005	10014605
Arsenic	PA	1010	10014605
Barium	PA	1015	10014605
Beryllium	PA	1020	10014605
Boron	PA	1025	10014605
Cadmium	PA	1030	10014605
Calcium	PA	1035	10014605
Chromium	PA	1040	10014605

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Matrix: ***Non-Potable Water***

Cobalt	PA	1050	10014605
Copper	PA	1055	10014605
Iron	PA	1070	10014605
Lead	PA	1075	10014605
Magnesium	PA	1085	10014605
Manganese	PA	1090	10014605
Molybdenum	PA	1100	10014605
Nickel	PA	1105	10014605
Potassium	PA	1125	10014605
Selenium	PA	1140	10014605
Silica as SiO2	PA	1990	10014605
Silver	PA	1150	10014605
Sodium	PA	1155	10014605
Strontium	PA	1160	10014605
Thallium	PA	1165	10014605
Thorium	PA	1170	10014605
Tin	PA	1175	10014605
Titanium	PA	1180	10014605
Uranium	PA	3035	10014605
Vanadium	PA	1185	10014605
Zinc	PA	1190	10014605

Method EPA 245.1

Analyte	**AB**	**Analyte ID**	**Method ID**
Mercury	PA	1095	10036609

Method EPA 300.0

Analyte	**AB**	**Analyte ID**	**Method ID**
Bromide	PA	1540	10053200
Chloride	PA	1575	10053200
Fluoride	PA	1730	10053200
Nitrate as N	PA	1810	10053200
Nitrite as N	PA	1840	10053200

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Matrix: ***Non-Potable Water***

Orthophosphate as P	PA	1870	10053200
Sulfate	PA	2000	10053200

Method EPA 350.1

Analyte	**AB**	**Analyte ID**	**Method ID**
Ammonia as N	PA	1515	10063408

Method EPA 353.2

Analyte	**AB**	**Analyte ID**	**Method ID**
Nitrate-nitrite	PA	1820	10067400

Method EPA 410.4

Analyte	**AB**	**Analyte ID**	**Method ID**
Chemical oxygen demand (COD)	PA	1565	10077404

Method EPA 420.1

Analyte	**AB**	**Analyte ID**	**Method ID**
Total phenolics	PA	1905	10079400

Method EPA 6010

Analyte	**AB**	**Analyte ID**	**Method ID**
Aluminum	PA	1000	10155905
Antimony	PA	1005	10155905
Arsenic	PA	1010	10155905
Barium	PA	1015	10155905
Beryllium	PA	1020	10155905
Boron	PA	1025	10155905
Cadmium	PA	1030	10155905
Calcium	PA	1035	10155905
Chromium	PA	1040	10155905
Cobalt	PA	1050	10155905
Copper	PA	1055	10155905
Iron	PA	1070	10155905
Lead	PA	1075	10155905
Lithium	PA	1080	10155905
Magnesium	PA	1085	10155905

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Matrix: ***Non-Potable Water***

Manganese	PA	1090	10155905
Molybdenum	PA	1100	10155905
Nickel	PA	1105	10155905
Potassium	PA	1125	10155905
Selenium	PA	1140	10155905
Silica as SiO2	PA	1990	10155905
Silver	PA	1150	10155905
Sodium	PA	1155	10155905
Strontium	PA	1160	10155905
Thallium	PA	1165	10155905
Tin	PA	1175	10155905
Titanium	PA	1180	10155905
Vanadium	PA	1185	10155905
Zinc	PA	1190	10155905

Method EPA 6020

Analyte	**AB**	**Analyte ID**	**Method ID**
Aluminum	PA	1000	10156419
Antimony	PA	1005	10156419
Arsenic	PA	1010	10156419
Barium	PA	1015	10156419
Beryllium	PA	1020	10156419
Boron	PA	1025	10156419
Cadmium	PA	1030	10156419
Calcium	PA	1035	10156419
Chromium	PA	1040	10156419
Cobalt	PA	1050	10156419
Copper	PA	1055	10156419
Iron	PA	1070	10156419
Lead	PA	1075	10156419
Lithium	PA	1080	10156419

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Matrix: ***Non-Potable Water***

Magnesium	PA	1085	10156419
Manganese	PA	1090	10156419
Molybdenum	PA	1100	10156419
Nickel	PA	1105	10156419
Potassium	PA	1125	10156419
Selenium	PA	1140	10156419
Silver	PA	1150	10156419
Sodium	PA	1155	10156419
Strontium	PA	1160	10156419
Thallium	PA	1165	10156419
Tin	PA	1175	10156419
Titanium	PA	1180	10156419
Vanadium	PA	1185	10156419
Zinc	PA	1190	10156419

Method EPA 608.3

Analyte	**AB**	**Analyte ID**	**Method ID**
4,4'-DDD	PA	7355	10296625
4,4'-DDE	PA	7360	10296625
4,4'-DDT	PA	7365	10296625
Aldrin	PA	7025	10296625
alpha-BHC (alpha-Hexachlorocyclohexane)	PA	7110	10296625
alpha-Chlordane	PA	7240	10296625
Aroclor-1016 (PCB-1016)	PA	8880	10296625
Aroclor-1221 (PCB-1221)	PA	8885	10296625
Aroclor-1232 (PCB-1232)	PA	8890	10296625
Aroclor-1242 (PCB-1242)	PA	8895	10296625
Aroclor-1248 (PCB-1248)	PA	8900	10296625
Aroclor-1254 (PCB-1254)	PA	8905	10296625
Aroclor-1260 (PCB-1260)	PA	8910	10296625
beta-BHC (beta-Hexachlorocyclohexane)	PA	7115	10296625

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Matrix: ***Non-Potable Water***

delta-BHC (delta-Hexachlorocyclohexane)	PA	7105	10296625
Dieldrin	PA	7470	10296625
Endosulfan I	PA	7510	10296625
Endosulfan II	PA	7515	10296625
Endosulfan sulfate	PA	7520	10296625
Endrin	PA	7540	10296625
Endrin aldehyde	PA	7530	10296625
Endrin ketone	PA	7535	10296625
gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	PA	7120	10296625
gamma-Chlordane	PA	7245	10296625
Heptachlor	PA	7685	10296625
Heptachlor epoxide	PA	7690	10296625
Methoxychlor	PA	7810	10296625
Toxaphene (Chlorinated camphene)	PA	8250	10296625

Method EPA 624.1

Analyte	**AB**	**Analyte ID**	**Method ID**
1,1,1-Trichloroethane	PA	5160	10298121
1,1,2,2-Tetrachloroethane	PA	5110	10298121
1,1,2-Trichloroethane	PA	5165	10298121
1,1-Dichloroethane	PA	4630	10298121
1,1-Dichloroethylene	PA	4640	10298121
1,2-Dibromoethane (EDB, Ethylene dibromide)	PA	4585	10298121
1,2-Dichlorobenzene	PA	4610	10298121
1,2-Dichloroethane (Ethylene dichloride)	PA	4635	10298121
1,2-Dichloropropane	PA	4655	10298121
1,3-Dichlorobenzene	PA	4615	10298121
1,4-Dichlorobenzene	PA	4620	10298121
2-Butanone (Methyl ethyl ketone, MEK)	PA	4410	10298121
2-Chloroethyl vinyl ether	PA	4500	10298121
Acetone (2-Propanone)	PA	4315	10298121

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Matrix: ***Non-Potable Water***

Acrolein (Propenal)	PA	4325	10298121
Acrylonitrile	PA	4340	10298121
Benzene	PA	4375	10298121
Bromodichloromethane	PA	4395	10298121
Bromoform	PA	4400	10298121
Carbon tetrachloride	PA	4455	10298121
Chlorobenzene	PA	4475	10298121
Chlorodibromomethane	PA	4575	10298121
Chloroethane (Ethyl chloride)	PA	4485	10298121
Chloroform	PA	4505	10298121
cis-1,2-Dichloroethylene	PA	4645	10298121
cis-1,3-Dichloropropene	PA	4680	10298121
Ethylbenzene	PA	4765	10298121
m+p-xylene	PA	5240	10298121
Methyl bromide (Bromomethane)	PA	4950	10298121
Methyl chloride (Chloromethane)	PA	4960	10298121
Methyl tert-butyl ether (MTBE)	PA	5000	10298121
Methylene chloride (Dichloromethane)	PA	4975	10298121
Naphthalene	PA	5005	10298121
o-Xylene	PA	5250	10298121
Tetrachloroethylene (Perchloroethylene)	PA	5115	10298121
Toluene	PA	5140	10298121
trans-1,2-Dichloroethylene	PA	4700	10298121
trans-1,3-Dichloropropylene	PA	4685	10298121
Trichloroethene (Trichloroethylene)	PA	5170	10298121
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	PA	5175	10298121
Vinyl chloride	PA	5235	10298121
Xylene (total)	PA	5260	10298121

Method EPA 625.1

Analyte	**AB**	**Analyte ID**	**Method ID**

Texas Commission on Environmental Quality

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Matrix: ***Non-Potable Water***

1,2,4,5-Tetrachlorobenzene	PA	6715	10300024
1,2,4-Trichlorobenzene	PA	5155	10300024
1,2-Dichlorobenzene	PA	4610	10300024
1,2-Diphenylhydrazine	PA	6221	10300024
1,3-Dichlorobenzene	PA	4615	10300024
1,4-Dichlorobenzene	PA	4620	10300024
2,2'-Oxybis(1-chloropropane) (bis(2-Chloro-1-methylethyl)ether)	PA	4659	10300024
2,3,4,6-Tetrachlorophenol	PA	6735	10300024
2,4,5-Trichlorophenol	PA	6835	10300024
2,4,6-Trichlorophenol	PA	6840	10300024
2,4-Dichlorophenol	PA	6000	10300024
2,4-Dimethylphenol	PA	6130	10300024
2,4-Dinitrophenol	PA	6175	10300024
2,4-Dinitrotoluene (2,4-DNT)	PA	6185	10300024
2,6-Dinitrotoluene (2,6-DNT)	PA	6190	10300024
2-Chloronaphthalene	PA	5795	10300024
2-Chlorophenol	PA	5800	10300024
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	PA	6360	10300024
2-Methylphenol (o-Cresol)	PA	6400	10300024
2-Nitrophenol	PA	6490	10300024
3,3'-Dichlorobenzidine	PA	5945	10300024
4-Bromophenyl phenyl ether (BDE-3)	PA	5660	10300024
4-Chloro-3-methylphenol	PA	5700	10300024
4-Chlorophenyl phenylether	PA	5825	10300024
4-Methylphenol (p-Cresol)	PA	6410	10300024
4-Nitrophenol	PA	6500	10300024
Acenaphthene	PA	5500	10300024
Acenaphthylene	PA	5505	10300024
Anthracene	PA	5555	10300024
Benzidine	PA	5595	10300024

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Matrix: ***Non-Potable Water***

Benzo(a)anthracene	PA	5575	10300024
Benzo(a)pyrene	PA	5580	10300024
Benzo(b)fluoranthene	PA	5585	10300024
Benzo(g,h,i)perylene	PA	5590	10300024
Benzo(k)fluoranthene	PA	5600	10300024
bis(2-Chloroethoxy)methane	PA	5760	10300024
bis(2-Chloroethyl) ether	PA	5765	10300024
bis(2-Ethylhexyl) phthalate (Di(2-Ethylhexyl) phthalate, DEHP)	PA	6065	10300024
Butyl benzyl phthalate	PA	5670	10300024
Chrysene	PA	5855	10300024
Dibenz(a,h) anthracene	PA	5895	10300024
Diethyl phthalate	PA	6070	10300024
Dimethyl phthalate	PA	6135	10300024
Di-n-butyl phthalate	PA	5925	10300024
Di-n-octyl phthalate	PA	6200	10300024
Fluoranthene	PA	6265	10300024
Fluorene	PA	6270	10300024
Hexachlorobenzene	PA	6275	10300024
Hexachlorobutadiene	PA	4835	10300024
Hexachlorocyclopentadiene	PA	6285	10300024
Hexachloroethane	PA	4840	10300024
Indeno(1,2,3-cd) pyrene	PA	6315	10300024
Isophorone	PA	6320	10300024
Naphthalene	PA	5005	10300024
Nitrobenzene	PA	5015	10300024
n-Nitrosodimethylamine	PA	6530	10300024
n-Nitrosodi-n-propylamine	PA	6545	10300024
n-Nitrosodiphenylamine	PA	6535	10300024
Pentachlorophenol	PA	6605	10300024
Phenanthrene	PA	6615	10300024

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Matrix: ***Non-Potable Water***

Phenol	PA	6625	10300024
Pyrene	PA	6665	10300024
Pyridine	PA	5095	10300024

Method EPA 7196

Analyte	**AB**	**Analyte ID**	**Method ID**
Chromium (VI)	PA	1045	10162400

Method EPA 7470

Analyte	**AB**	**Analyte ID**	**Method ID**
Mercury	PA	1095	10165807

Method EPA 8011

Analyte	**AB**	**Analyte ID**	**Method ID**
1,2-Dibromo-3-chloropropane (DBCP)	PA	4570	10173009
1,2-Dibromoethane (EDB, Ethylene dibromide)	PA	4585	10173009

Method EPA 8081

Analyte	**AB**	**Analyte ID**	**Method ID**
4,4'-DDD	PA	7355	10178800
4,4'-DDE	PA	7360	10178800
4,4'-DDT	PA	7365	10178800
Aldrin	PA	7025	10178800
alpha-BHC (alpha-Hexachlorocyclohexane)	PA	7110	10178800
alpha-Chlordane	PA	7240	10178800
beta-BHC (beta-Hexachlorocyclohexane)	PA	7115	10178800
Chlordane (tech.)	PA	7250	10178800
Dacthal (DCPA)	PA	8550	10178800
delta-BHC (delta-Hexachlorocyclohexane)	PA	7105	10178800
Diallate	PA	7405	10178800
Dieldrin	PA	7470	10178800
Endosulfan I	PA	7510	10178800
Endosulfan II	PA	7515	10178800
Endosulfan sulfate	PA	7520	10178800
Endrin	PA	7540	10178800

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Matrix: ***Non-Potable Water***

Endrin aldehyde	PA	7530	10178800
Endrin ketone	PA	7535	10178800
gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	PA	7120	10178800
gamma-Chlordane	PA	7245	10178800
Heptachlor	PA	7685	10178800
Heptachlor epoxide	PA	7690	10178800
Hexachlorobenzene	PA	6275	10178800
Isodrin	PA	7725	10178800
Methoxychlor	PA	7810	10178800
Mirex	PA	7870	10178800
Toxaphene (Chlorinated camphene)	PA	8250	10178800
trans-Nanochlor	PA	7910	10178800

Method EPA 8082

Analyte	**AB**	**Analyte ID**	**Method ID**
2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl (BZ-206)	PA	9095	10179201
2,2',3,3',4,4',5,6-Octachlorobiphenyl (BZ-195)	PA	9103	10179201
2,2',3,3',4,4',5-Heptachlorobiphenyl (BZ-170)	PA	9065	10179201
2,2',3,3',4,4'-Hexachlorobiphenyl (BZ-128)	PA	9020	10179201
2,2',3,4,4',5,5'-Heptachlorobiphenyl (BZ-180)	PA	9134	10179201
2,2',3,4,4',5',6-Heptachlorobiphenyl (BZ-183)	PA	9075	10179201
2,2',3,4,4',5'-Hexachlorobiphenyl (BZ-138)	PA	9025	10179201
2,2',3,4',5,5',6-Heptachlorobiphenyl (BZ-187)	PA	9080	10179201
2,2',3,4,5'-Pentachlorobiphenyl (BZ-87)	PA	8975	10179201
2,2',3,5'-Tetrachlorobiphenyl (BZ-44)	PA	8945	10179201
2,2',4,4',5,5'-Hexachlorobiphenyl (BZ-153)	PA	9040	10179201
2,2',4,5,5'-Pentachlorobiphenyl (BZ-101)	PA	8980	10179201
2,2',4,5'-Tetrachlorobiphenyl (BZ-49)	PA	8950	10179201
2,2',5,5'-Tetrachlorobiphenyl (BZ-52)	PA	8955	10179201
2,2',5-Trichlorobiphenyl (BZ-18)	PA	8930	10179201
2,3,3',4,4',5,5'-Heptachlorobiphenyl (BZ-189)	PA	9085	10179201

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Matrix: ***Non-Potable Water***

2,3,3',4,4',5-Hexachlorobiphenyl (BZ-156)	PA	9050	10179201
2,3,3',4,4',5'-Hexachlorobiphenyl (BZ-157)	PA	9045	10179201
2,3,3',4,4'-Pentachlorobiphenyl (BZ-105)	PA	8985	10179201
2,3',4,4',5,5'-Hexachlorobiphenyl (BZ-167)	PA	9055	10179201
2,3,4,4',5-Pentachlorobiphenyl (BZ-114)	PA	9005	10179201
2,3',4,4',5-Pentachlorobiphenyl (BZ-118)	PA	8995	10179201
2',3,4,4',5-Pentachlorobiphenyl (BZ-123)	PA	9000	10179201
2,3',4,4'-Tetrachlorobiphenyl (BZ-66)	PA	8960	10179201
2,4,4'-Trichlorobiphenyl (BZ-28)	PA	9252	10179201
2,4'-Dichlorobiphenyl (BZ-8)	PA	9256	10179201
Aroclor-1016 (PCB-1016)	PA	8880	10179201
Aroclor-1221 (PCB-1221)	PA	8885	10179201
Aroclor-1232 (PCB-1232)	PA	8890	10179201
Aroclor-1242 (PCB-1242)	PA	8895	10179201
Aroclor-1248 (PCB-1248)	PA	8900	10179201
Aroclor-1254 (PCB-1254)	PA	8905	10179201
Aroclor-1260 (PCB-1260)	PA	8910	10179201
Decachlorobiphenyl (BZ-209)	PA	9105	10179201
PCBs (total)	PA	8870	10179201

Method EPA 8141

Analyte	**AB**	**Analyte ID**	**Method ID**
Azinphos-methyl (Guthion)	PA	7075	10182204
Bolstar (Sulprofos)	PA	7125	10182204
Chlorpyrifos (Dursban)	PA	7300	10182204
Coumaphos	PA	7315	10182204
Demeton	PA	7390	10182204
Demeton-o	PA	7395	10182204
Demeton-s	PA	7385	10182204
Diazinon	PA	7410	10182204
Dichlorovos (DDVP, Dichlorvos)	PA	8610	10182204

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Matrix: ***Non-Potable Water***

Dimethoate	PA	7475	10182204
Disulfoton	PA	8625	10182204
EPN (Phosphonothioic acid, phenyl-, O-ethyl O-(p-nitrophenyl) ester)	PA	7550	10182204
Ethoprop	PA	7570	10182204
Famphur	PA	7580	10182204
Fensulfothion	PA	7600	10182204
Fenthion	PA	7605	10182204
Malathion	PA	7770	10182204
Methyl parathion (Parathion, methyl)	PA	7825	10182204
Mevinphos	PA	7850	10182204
Parathion, ethyl	PA	7955	10182204
Phorate	PA	7985	10182204
Ronnel	PA	8110	10182204
Sulfotepp	PA	8155	10182204
Tetrachlorvinphos (Stirophos, Gardona)	PA	8197	10182204
Thionazin (Zinophos)	PA	8235	10182204
Tokuthion (Prothiophos)	PA	8245	10182204
Trichloronate	PA	8275	10182204

Method EPA 8151

Analyte	**AB**	**Analyte ID**	**Method ID**
2,4,5-T	PA	8655	10183207
2,4-D	PA	8545	10183207
2,4-DB	PA	8560	10183207
Dalapon	PA	8555	10183207
Dicamba	PA	8595	10183207
Dichloroprop (Dichlorprop, Weedone)	PA	8605	10183207
Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	PA	8620	10183207
MCPA	PA	7775	10183207
MCPP	PA	7780	10183207
Pentachlorophenol	PA	6605	10183207

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Matrix: ***Non-Potable Water***

Silvex (2,4,5-TP)	PA	8650	10183207

Method EPA 8260

Analyte	AB	Analyte ID	Method ID
1,1,1,2-Tetrachloroethane	PA	5105	10184802
1,1,1-Trichloroethane	PA	5160	10184802
1,1,2,2-Tetrachloroethane	PA	5110	10184802
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	PA	5185	10184802
1,1,2-Trichloroethane	PA	5165	10184802
1,1-Dichloroethane	PA	4630	10184802
1,1-Dichloroethylene	PA	4640	10184802
1,1-Dichloropropene	PA	4670	10184802
1,2,3-Trichlorobenzene	PA	5150	10184802
1,2,3-Trichloropropane	PA	5180	10184802
1,2,4-Trichlorobenzene	PA	5155	10184802
1,2,4-Trimethylbenzene	PA	5210	10184802
1,2-Dibromo-3-chloropropane (DBCP)	PA	4570	10184802
1,2-Dibromoethane (EDB, Ethylene dibromide)	PA	4585	10184802
1,2-Dichlorobenzene	PA	4610	10184802
1,2-Dichloroethane (Ethylene dichloride)	PA	4635	10184802
1,2-Dichloropropane	PA	4655	10184802
1,3,5-Trimethylbenzene	PA	5215	10184802
1,3-Dichlorobenzene	PA	4615	10184802
1,3-Dichloropropane	PA	4660	10184802
1,4-Dichlorobenzene	PA	4620	10184802
1,4-Dioxane (1,4-Diethyleneoxide)	PA	4735	10184802
2,2-Dichloropropane	PA	4665	10184802
2-Butanone (Methyl ethyl ketone, MEK)	PA	4410	10184802
2-Chloroethyl vinyl ether	PA	4500	10184802
2-Chlorotoluene	PA	4535	10184802
2-Hexanone (MBK)	PA	4860	10184802

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Matrix: ***Non-Potable Water***

4-Chlorotoluene	PA	4540	10184802
4-Isopropyltoluene (p-Cymene)	PA	4915	10184802
4-Methyl-2-pentanone (MIBK)	PA	4995	10184802
Acetone (2-Propanone)	PA	4315	10184802
Acetonitrile	PA	4320	10184802
Acrolein (Propenal)	PA	4325	10184802
Acrylonitrile	PA	4340	10184802
Allyl chloride (3-Chloropropene)	PA	4355	10184802
Benzene	PA	4375	10184802
Benzyl chloride	PA	5635	10184802
Bromobenzene	PA	4385	10184802
Bromochloromethane	PA	4390	10184802
Bromodichloromethane	PA	4395	10184802
Bromoform	PA	4400	10184802
Carbon disulfide	PA	4450	10184802
Carbon tetrachloride	PA	4455	10184802
Chlorobenzene	PA	4475	10184802
Chlorodibromomethane	PA	4575	10184802
Chloroethane (Ethyl chloride)	PA	4485	10184802
Chloroform	PA	4505	10184802
Chloroprene (2-Chloro-1,3-butadiene)	PA	4525	10184802
cis-1,2-Dichloroethylene	PA	4645	10184802
cis-1,3-Dichloropropene	PA	4680	10184802
Dibromomethane (Methylene bromide)	PA	4595	10184802
Dichlorodifluoromethane (Freon-12)	PA	4625	10184802
Diethyl ether	PA	4725	10184802
Ethyl methacrylate	PA	4810	10184802
Ethylbenzene	PA	4765	10184802
Hexachlorobutadiene	PA	4835	10184802
Iodomethane (Methyl iodide)	PA	4870	10184802

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Matrix: ***Non-Potable Water***

Isobutyl alcohol (2-Methyl-1-propanol)	PA	4875	10184802
Isopropyl alcohol (2-Propanol, Isopropanol)	PA	4895	10184802
Isopropylbenzene (Cumene)	PA	4900	10184802
m+p-xylene	PA	5240	10184802
Methacrylonitrile	PA	4925	10184802
Methyl acetate	PA	4940	10184802
Methyl bromide (Bromomethane)	PA	4950	10184802
Methyl chloride (Chloromethane)	PA	4960	10184802
Methyl methacrylate	PA	4990	10184802
Methyl tert-butyl ether (MTBE)	PA	5000	10184802
Methylcyclohexane	PA	4965	10184802
Methylene chloride (Dichloromethane)	PA	4975	10184802
Naphthalene	PA	5005	10184802
n-Butylbenzene	PA	4435	10184802
n-Propylbenzene	PA	5090	10184802
o-Xylene	PA	5250	10184802
Propionitrile (Ethyl cyanide)	PA	5080	10184802
sec-Butylbenzene	PA	4440	10184802
Styrene	PA	5100	10184802
tert-Butyl alcohol	PA	4420	10184802
tert-Butylbenzene	PA	4445	10184802
Tetrachloroethylene (Perchloroethylene)	PA	5115	10184802
Toluene	PA	5140	10184802
Total trihalomethanes	PA	5205	10184802
trans-1,2-Dichloroethylene	PA	4700	10184802
trans-1,3-Dichloropropylene	PA	4685	10184802
trans-1,4-Dichloro-2-butene	PA	4605	10184802
Trichloroethene (Trichloroethylene)	PA	5170	10184802
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	PA	5175	10184802
Vinyl acetate	PA	5225	10184802

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Matrix: ***Non-Potable Water***

Vinyl chloride	PA	5235	10184802
Xylene (total)	PA	5260	10184802

Method EPA 8270

Analyte	AB	Analyte ID	Method ID
1,2,4,5-Tetrachlorobenzene	PA	6715	10186002
1,2,4-Trichlorobenzene	PA	5155	10186002
1,2-Dichlorobenzene	PA	4610	10186002
1,2-Dinitrobenzene	PA	6155	10186002
1,2-Diphenylhydrazine	PA	6220	10186002
1,3,5-Trinitrobenzene (1,3,5-TNB)	PA	6885	10186002
1,3-Dichlorobenzene	PA	4615	10186002
1,3-Dinitrobenzene (1,3-DNB)	PA	6160	10186002
1,4-Dichlorobenzene	PA	4620	10186002
1,4-Naphthoquinone	PA	6420	10186002
1,4-Phenylenediamine	PA	6630	10186002
1-Naphthylamine	PA	6425	10186002
2,2'-Oxybis(1-chloropropane) (bis(2-Chloro-1-methylethyl)ether)	PA	4659	10186002
2,3,4,6-Tetrachlorophenol	PA	6735	10186002
2,4,5-Trichlorophenol	PA	6835	10186002
2,4,6-Trichlorophenol	PA	6840	10186002
2,4-Dichlorophenol	PA	6000	10186002
2,4-Dimethylphenol	PA	6130	10186002
2,4-Dinitrophenol	PA	6175	10186002
2,4-Dinitrotoluene (2,4-DNT)	PA	6185	10186002
2,6-Dichlorophenol	PA	6005	10186002
2,6-Dinitrotoluene (2,6-DNT)	PA	6190	10186002
2-Acetylaminofluorene	PA	5515	10186002
2-Chloronaphthalene	PA	5795	10186002
2-Chlorophenol	PA	5800	10186002
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	TX	6360	10186002

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Matrix: ***Non-Potable Water***

2-Methylaniline (o-Toluidine)	PA	5145	10186002
2-Methylnaphthalene	PA	6385	10186002
2-Methylphenol (o-Cresol)	PA	6400	10186002
2-Naphthylamine	PA	6430	10186002
2-Nitroaniline	PA	6460	10186002
2-Nitrophenol	PA	6490	10186002
2-Picoline (2-Methylpyridine)	PA	5050	10186002
3,3'-Dichlorobenzidine	PA	5945	10186002
3,3'-Dimethylbenzidine	PA	6120	10186002
3-Methylcholanthrene	PA	6355	10186002
3-Methylphenol (m-Cresol)	PA	6405	10186002
3-Nitroaniline	PA	6465	10186002
4,4'-Methylenebis(2-chloroaniline)	PA	6365	10186002
4-Aminobiphenyl	PA	5540	10186002
4-Bromophenyl phenyl ether (BDE-3)	PA	5660	10186002
4-Chloro-3-methylphenol	PA	5700	10186002
4-Chloroaniline	PA	5745	10186002
4-Chlorophenyl phenylether	PA	5825	10186002
4-Dimethyl aminoazobenzene	PA	6105	10186002
4-Methylphenol (p-Cresol)	PA	6410	10186002
4-Nitroaniline	PA	6470	10186002
4-Nitrophenol	PA	6500	10186002
4-Nitroquinoline-1-oxide	PA	6510	10186002
5-Nitro-o-toluidine	PA	6570	10186002
7,12-Dimethylbenz(a) anthracene	PA	6115	10186002
Acenaphthene	PA	5500	10186002
Acenaphthylene	PA	5505	10186002
Acetophenone	PA	5510	10186002
Aniline	PA	5545	10186002
Anthracene	PA	5555	10186002

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Matrix: ***Non-Potable Water***

Aramite	PA	5560	10186002
Atrazine	PA	7065	10186002
Benzidine	PA	5595	10186002
Benzo(a)anthracene	PA	5575	10186002
Benzo(a)pyrene	PA	5580	10186002
Benzo(b)fluoranthene	PA	5585	10186002
Benzo(g,h,i)perylene	PA	5590	10186002
Benzo(k)fluoranthene	PA	5600	10186002
Benzoic acid	PA	5610	10186002
Benzyl alcohol	PA	5630	10186002
Biphenyl	PA	5640	10186002
bis(2-Chloroethoxy)methane	PA	5760	10186002
bis(2-Chloroethyl) ether	PA	5765	10186002
bis(2-Ethylhexyl) phthalate (Di(2-Ethylhexyl) phthalate, DEHP)	PA	6065	10186002
Butyl benzyl phthalate	PA	5670	10186002
Caprolactam	PA	7180	10186002
Carbazole	PA	5680	10186002
Chlorobenzilate	PA	7260	10186002
Chrysene	PA	5855	10186002
Diallate	PA	7405	10186002
Dibenz(a,h) anthracene	PA	5895	10186002
Dibenzofuran	PA	5905	10186002
Diethyl phthalate	PA	6070	10186002
Dimethoate	PA	7475	10186002
Dimethyl phthalate	PA	6135	10186002
Di-n-butyl phthalate	PA	5925	10186002
Di-n-octyl phthalate	PA	6200	10186002
Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	PA	8620	10186002
Disulfoton	PA	8625	10186002
Ethyl methanesulfonate	PA	6260	10186002

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Matrix: ***Non-Potable Water***

Famphur	PA	7580	10186002
Fluoranthene	PA	6265	10186002
Fluorene	PA	6270	10186002
Hexachlorobenzene	PA	6275	10186002
Hexachlorobutadiene	PA	4835	10186002
Hexachlorocyclopentadiene	PA	6285	10186002
Hexachloroethane	PA	4840	10186002
Hexachloropropene	PA	6295	10186002
Indeno(1,2,3-cd) pyrene	PA	6315	10186002
Isodrin	PA	7725	10186002
Isophorone	PA	6320	10186002
Isosafrole	PA	6325	10186002
Kepone	PA	7740	10186002
Methapyrilene	PA	6345	10186002
Methyl methanesulfonate	PA	6375	10186002
Methyl parathion (Parathion, methyl)	PA	7825	10186002
Naphthalene	PA	5005	10186002
Nitrobenzene	PA	5015	10186002
n-Nitrosodiethylamine	PA	6525	10186002
n-Nitrosodimethylamine	PA	6530	10186002
n-Nitrosodi-n-butylamine	PA	5025	10186002
n-Nitrosodi-n-propylamine	PA	6545	10186002
n-Nitrosodiphenylamine	PA	6535	10186002
n-Nitrosomethylethylamine	PA	6550	10186002
n-Nitrosomorpholine	PA	6555	10186002
n-Nitrosopiperidine	PA	6560	10186002
n-Nitrosopyrrolidine	PA	6565	10186002
o,o,o-Triethyl phosphorothioate	PA	8290	10186002
Parathion, ethyl	PA	7955	10186002
Pentachlorobenzene	PA	6590	10186002

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Matrix: ***Non-Potable Water***

Pentachloronitrobenzene (PCNB)	PA	6600	10186002
Pentachlorophenol	PA	6605	10186002
Phenacetin	PA	6610	10186002
Phenanthrene	PA	6615	10186002
Phenol	PA	6625	10186002
Phorate	PA	7985	10186002
Pronamide (Kerb)	PA	6650	10186002
Pyrene	PA	6665	10186002
Pyridine	PA	5095	10186002
Safrole	PA	6685	10186002
Sulfotepp	PA	8155	10186002
Thionazin (Zinophos)	PA	8235	10186002

Method EPA 9014

Analyte	**AB**	**Analyte ID**	**Method ID**
Total cyanide	PA	1645	10193803

Method EPA 9034

Analyte	**AB**	**Analyte ID**	**Method ID**
Sulfide	PA	2005	10196006

Method EPA 9040

Analyte	**AB**	**Analyte ID**	**Method ID**
pH	PA	1900	10197203

Method EPA 9050

Analyte	**AB**	**Analyte ID**	**Method ID**
Conductivity	PA	1610	10198808

Method EPA 9056

Analyte	**AB**	**Analyte ID**	**Method ID**
Bromide	PA	1540	10199607
Chloride	PA	1575	10199607
Fluoride	PA	1730	10199607
Nitrate as N	PA	1810	10199607
Nitrite as N	PA	1840	10199607

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Matrix: ***Non-Potable Water***

Orthophosphate as P	PA	1870	10199607
Sulfate	PA	2000	10199607

Method EPA 9060

Analyte	**AB**	**Analyte ID**	**Method ID**
Total Organic Carbon (TOC)	PA	2040	10200201

Method EPA 9065

Analyte	**AB**	**Analyte ID**	**Method ID**
Total phenolics	PA	1905	10200405

Method EPA 9070

Analyte	**AB**	**Analyte ID**	**Method ID**
n-Hexane Extractable Material (HEM) (O&G)	PA	1803	10201000
Silica Gel Treated n-Hexane Extractable Material (SGT-HEM)	PA	10220	10201000

Method OIA-1677

Analyte	**AB**	**Analyte ID**	**Method ID**
Amenable cyanide	PA	1510	60031405

Method SM 2120 B

Analyte	**AB**	**Analyte ID**	**Method ID**
Color	PA	1605	20223807

Method SM 2310 B (4a)

Analyte	**AB**	**Analyte ID**	**Method ID**
Acidity, as CaCO3	PA	1500	20002806

Method SM 2320 B

Analyte	**AB**	**Analyte ID**	**Method ID**
Alkalinity as CaCO3	PA	1505	20045005

Method SM 2510 B

Analyte	**AB**	**Analyte ID**	**Method ID**
Conductivity	PA	1610	20048004

Method SM 2540 B

Analyte	**AB**	**Analyte ID**	**Method ID**
Residue-total (total solids)	PA	1950	20004608

Method SM 2540 C

Analyte	**AB**	**Analyte ID**	**Method ID**

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Matrix: ***Non-Potable Water***

Residue-filterable (TDS)	PA	1955	20049803

Method SM 2540 D

Analyte	**AB**	**Analyte ID**	**Method ID**
Residue-nonfilterable (TSS)	PA	1960	20004802

Method SM 2540 F

Analyte	**AB**	**Analyte ID**	**Method ID**
Residue-settleable	PA	1965	20005009

Method SM 4500-Cl G

Analyte	**AB**	**Analyte ID**	**Method ID**
Total residual chlorine	PA	1940	20020604

Method SM 4500-H+ B

Analyte	**AB**	**Analyte ID**	**Method ID**
pH	PA	1900	20104603

Method SM 4500-O G

Analyte	**AB**	**Analyte ID**	**Method ID**
Oxygen, dissolved	PA	1880	20025405

Method SM 4500-$S2^{-}$ F

Analyte	**AB**	**Analyte ID**	**Method ID**
Sulfide	PA	2005	20126209

Method SM 5210 B

Analyte	**AB**	**Analyte ID**	**Method ID**
Biochemical oxygen demand (BOD)	PA	1530	20027401
Carbonaceous BOD, CBOD	PA	1555	20027401

Method SM 5310 C

Analyte	**AB**	**Analyte ID**	**Method ID**
Total Organic Carbon (TOC)	PA	2040	20138209

Method SM 5540 C

Analyte	**AB**	**Analyte ID**	**Method ID**
Surfactants - MBAS	PA	2025	20144405

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Matrix: ***Solid & Chemical Materials***

Method EPA 1010

Analyte	AB	Analyte ID	Method ID
Ignitability	PA	1780	10234807

Method EPA 1020

Analyte	AB	Analyte ID	Method ID
Ignitability	PA	1780	10117007

Method EPA 1311

Analyte	AB	Analyte ID	Method ID
TCLP	PA	849	10118806

Method EPA 1312

Analyte	AB	Analyte ID	Method ID
SPLP	PA	850	10119003

Method EPA 300.0

Analyte	AB	Analyte ID	Method ID
Bromide	PA	1540	10053200
Chloride	PA	1575	10053200
Fluoride	PA	1730	10053200
Nitrate as N	PA	1810	10053200
Nitrite as N	PA	1840	10053200
Orthophosphate as P	PA	1870	10053200
Sulfate	PA	2000	10053200

Method EPA 350.1

Analyte	AB	Analyte ID	Method ID
Ammonia as N	PA	1515	10063408

Method EPA 353.2

Analyte	AB	Analyte ID	Method ID
Nitrate-nitrite	PA	1820	10067604

Method EPA 6010

Analyte	AB	Analyte ID	Method ID
Aluminum	PA	1000	10155905
Antimony	PA	1005	10155905

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Matrix: ***Solid & Chemical Materials***

Arsenic	PA	1010	10155905
Barium	PA	1015	10155905
Beryllium	PA	1020	10155905
Boron	PA	1025	10155905
Cadmium	PA	1030	10155905
Calcium	PA	1035	10155905
Chromium	PA	1040	10155905
Cobalt	PA	1050	10155905
Copper	PA	1055	10155905
Iron	PA	1070	10155905
Lead	PA	1075	10155905
Lithium	PA	1080	10155905
Magnesium	PA	1085	10155905
Manganese	PA	1090	10155905
Molybdenum	PA	1100	10155905
Nickel	PA	1105	10155905
Potassium	PA	1125	10155905
Selenium	PA	1140	10155905
Silica as SiO2	PA	1990	10155905
Silver	PA	1150	10155905
Sodium	PA	1155	10155905
Strontium	PA	1160	10155905
Thallium	PA	1165	10155905
Tin	PA	1175	10155905
Titanium	PA	1180	10155905
Vanadium	PA	1185	10155905
Zinc	PA	1190	10155905

Method EPA 6020

Analyte	**AB**	**Analyte ID**	**Method ID**
Aluminum	PA	1000	10156419

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Matrix: ***Solid & Chemical Materials***

Antimony	PA	1005	10156419
Arsenic	PA	1010	10156419
Barium	PA	1015	10156419
Beryllium	PA	1020	10156419
Boron	PA	1025	10156419
Cadmium	PA	1030	10156419
Calcium	PA	1035	10156419
Chromium	PA	1040	10156419
Cobalt	PA	1050	10156419
Copper	PA	1055	10156419
Iron	PA	1070	10156419
Lead	PA	1075	10156419
Lithium	PA	1080	10156419
Magnesium	PA	1085	10156419
Manganese	PA	1090	10156419
Molybdenum	PA	1100	10156419
Nickel	PA	1105	10156419
Potassium	PA	1125	10156419
Selenium	PA	1140	10156419
Silver	PA	1150	10156419
Sodium	PA	1155	10156419
Strontium	PA	1160	10156419
Thallium	PA	1165	10156419
Tin	PA	1175	10156419
Titanium	PA	1180	10156419
Vanadium	PA	1185	10156419
Zinc	PA	1190	10156419

Method EPA 7196

Analyte	**AB**	**Analyte ID**	**Method ID**
Chromium (VI)	PA	1045	10162400

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Matrix: ***Solid & Chemical Materials***

Method EPA 7470

Analyte	AB	Analyte ID	Method ID
Mercury	PA	1095	10165807

Method EPA 7471

Analyte	AB	Analyte ID	Method ID
Mercury	PA	1095	10166457

Method EPA 8081

Analyte	AB	Analyte ID	Method ID
4,4'-DDD	PA	7355	10178800
4,4'-DDE	PA	7360	10178800
4,4'-DDT	PA	7365	10178800
Aldrin	PA	7025	10178800
alpha-BHC (alpha-Hexachlorocyclohexane)	PA	7110	10178800
alpha-Chlordane	PA	7240	10178800
beta-BHC (beta-Hexachlorocyclohexane)	PA	7115	10178800
Chlordane (tech.)	PA	7250	10178800
Dacthal (DCPA)	PA	8550	10178800
delta-BHC (delta-Hexachlorocyclohexane)	PA	7105	10178800
Diallate	PA	7405	10178800
Dieldrin	PA	7470	10178800
Endosulfan I	PA	7510	10178800
Endosulfan II	PA	7515	10178800
Endosulfan sulfate	PA	7520	10178800
Endrin	PA	7540	10178800
Endrin aldehyde	PA	7530	10178800
Endrin ketone	PA	7535	10178800
gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	PA	7120	10178800
gamma-Chlordane	PA	7245	10178800
Heptachlor	PA	7685	10178800
Heptachlor epoxide	PA	7690	10178800
Hexachlorobenzene	PA	6275	10178800

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Matrix: ***Solid & Chemical Materials***

Isodrin	PA	7725	10178800
Methoxychlor	PA	7810	10178800
Mirex	PA	7870	10178800
Toxaphene (Chlorinated camphene)	PA	8250	10178800
trans-Nanochlor	PA	7910	10178800

Method EPA 8082

Analyte	AB	Analyte ID	Method ID
2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl (BZ-206)	PA	9095	10179201
2,2',3,3',4,4',5,6-Octachlorobiphenyl (BZ-195)	PA	9103	10179201
2,2',3,3',4,4',5-Heptachlorobiphenyl (BZ-170)	PA	9065	10179201
2,2',3,3',4,4'-Hexachlorobiphenyl (BZ-128)	PA	9020	10179201
2,2',3,4,4',5,5'-Heptachlorobiphenyl (BZ-180)	PA	9134	10179201
2,2',3,4,4',5',6-Heptachlorobiphenyl (BZ-183)	PA	9075	10179201
2,2',3,4,4',5'-Hexachlorobiphenyl (BZ-138)	PA	9025	10179201
2,2',3,4',5,5',6-Heptachlorobiphenyl (BZ-187)	PA	9080	10179201
2,2',3,4,5'-Pentachlorobiphenyl (BZ-87)	PA	8975	10179201
2,2',3,5'-Tetrachlorobiphenyl (BZ-44)	PA	8945	10179201
2,2',4,4',5,5'-Hexachlorobiphenyl (BZ-153)	PA	9040	10179201
2,2',4,5,5'-Pentachlorobiphenyl (BZ-101)	PA	8980	10179201
2,2',4,5'-Tetrachlorobiphenyl (BZ-49)	PA	8950	10179201
2,2',5,5'-Tetrachlorobiphenyl (BZ-52)	PA	8955	10179201
2,2',5-Trichlorobiphenyl (BZ-18)	PA	8930	10179201
2,3,3',4,4',5,5'-Heptachlorobiphenyl (BZ-189)	PA	9085	10179201
2,3,3',4,4',5'-Hexachlorobiphenyl (BZ-157)	PA	9045	10179201
2,3,3',4,4'-Pentachlorobiphenyl (BZ-105)	PA	8985	10179201
2,3',4,4',5,5'-Hexachlorobiphenyl (BZ-167)	PA	9055	10179201
2,3,4,4',5-Pentachlorobiphenyl (BZ-114)	PA	9005	10179201
2,3',4,4',5-Pentachlorobiphenyl (BZ-118)	PA	8995	10179201
2',3,4,4',5-Pentachlorobiphenyl (BZ-123)	PA	9000	10179201
2,3',4,4'-Tetrachlorobiphenyl (BZ-66)	PA	8960	10179201

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Matrix: ***Solid & Chemical Materials***

2,4,4'-Trichlorobiphenyl (BZ-28)	PA	9252	10179201
2,4'-Dichlorobiphenyl (BZ-8)	PA	9256	10179201
Aroclor-1016 (PCB-1016)	PA	8880	10179201
Aroclor-1221 (PCB-1221)	PA	8885	10179201
Aroclor-1232 (PCB-1232)	PA	8890	10179201
Aroclor-1242 (PCB-1242)	PA	8895	10179201
Aroclor-1248 (PCB-1248)	PA	8900	10179201
Aroclor-1254 (PCB-1254)	PA	8905	10179201
Aroclor-1260 (PCB-1260)	PA	8910	10179201
Decachlorobiphenyl (BZ-209)	PA	9105	10179201
PCBs (total)	PA	8870	10179201

Method EPA 8141

Analyte	**AB**	**Analyte ID**	**Method ID**
Azinphos-methyl (Guthion)	PA	7075	10182204
Bolstar (Sulprofos)	PA	7125	10182204
Chlorpyrifos (Dursban)	PA	7300	10182204
Coumaphos	PA	7315	10182204
Demeton	PA	7390	10182204
Demeton-o	PA	7395	10182204
Demeton-s	PA	7385	10182204
Diazinon	PA	7410	10182204
Dichlorovos (DDVP, Dichlorvos)	PA	8610	10182204
Dimethoate	PA	7475	10182204
Disulfoton	PA	8625	10182204
EPN (Phosphonothioic acid, phenyl-, O-ethyl O-(p-nitrophenyl) ester)	PA	7550	10182204
Ethoprop	PA	7570	10182204
Famphur	PA	7580	10182204
Fensulfothion	PA	7600	10182204
Fenthion	PA	7605	10182204
Malathion	PA	7770	10182204

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Matrix: ***Solid & Chemical Materials***

Methyl parathion (Parathion, methyl)	PA	7825	10182204
Mevinphos	PA	7850	10182204
Parathion, ethyl	PA	7955	10182204
Phorate	PA	7985	10182204
Ronnel	PA	8110	10182204
Sulfotepp	PA	8155	10182204
Tetrachlorvinphos (Stirophos, Gardona)	PA	8197	10182204
Thionazin (Zinophos)	PA	8235	10182204
Tokuthion (Prothiophos)	PA	8245	10182204
Trichloronate	PA	8275	10182204

Method EPA 8151

Analyte	AB	Analyte ID	Method ID
2,4,5-T	PA	8655	10183207
2,4-D	PA	8545	10183207
2,4-DB	PA	8560	10183207
Dalapon	PA	8555	10183207
Dicamba	PA	8595	10183207
Dichloroprop (Dichlorprop, Weedone)	PA	8605	10183207
Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	PA	8620	10183207
MCPA	PA	7775	10183207
MCPP	PA	7780	10183207
Pentachlorophenol	PA	6605	10183207
Silvex (2,4,5-TP)	PA	8650	10183207

Method EPA 8260

Analyte	AB	Analyte ID	Method ID
1,1,1,2-Tetrachloroethane	PA	5105	10184802
1,1,1-Trichloroethane	PA	5160	10184802
1,1,2,2-Tetrachloroethane	PA	5110	10184802
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	PA	5185	10184802
1,1,2-Trichloroethane	PA	5165	10184802
1,1-Dichloroethane	PA	4630	10184802

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Matrix: ***Solid & Chemical Materials***

1,1-Dichloroethylene	PA	4640	10184802
1,1-Dichloropropene	PA	4670	10184802
1,2,3-Trichlorobenzene	PA	5150	10184802
1,2,3-Trichloropropane	PA	5180	10184802
1,2,4-Trichlorobenzene	PA	5155	10184802
1,2,4-Trimethylbenzene	PA	5210	10184802
1,2-Dibromo-3-chloropropane (DBCP)	PA	4570	10184802
1,2-Dibromoethane (EDB, Ethylene dibromide)	PA	4585	10184802
1,2-Dichlorobenzene	PA	4610	10184802
1,2-Dichloroethane (Ethylene dichloride)	PA	4635	10184802
1,2-Dichloropropane	PA	4655	10184802
1,3,5-Trimethylbenzene	PA	5215	10184802
1,3-Dichlorobenzene	PA	4615	10184802
1,3-Dichloropropane	PA	4660	10184802
1,4-Dichlorobenzene	PA	4620	10184802
1,4-Dioxane (1,4-Diethyleneoxide)	PA	4735	10184802
2,2-Dichloropropane	PA	4665	10184802
2-Butanone (Methyl ethyl ketone, MEK)	PA	4410	10184802
2-Chloroethyl vinyl ether	PA	4500	10184802
2-Chlorotoluene	PA	4535	10184802
2-Hexanone (MBK)	PA	4860	10184802
4-Chlorotoluene	PA	4540	10184802
4-Isopropyltoluene (p-Cymene)	PA	4915	10184802
4-Methyl-2-pentanone (MIBK)	PA	4995	10184802
Acetone (2-Propanone)	PA	4315	10184802
Acetonitrile	PA	4320	10184802
Acrolein (Propenal)	PA	4325	10184802
Acrylonitrile	PA	4340	10184802
Allyl chloride (3-Chloropropene)	PA	4355	10184802
Benzene	PA	4375	10184802

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Matrix: ***Solid & Chemical Materials***

Benzyl chloride	PA	5635	10184802
Bromobenzene	PA	4385	10184802
Bromochloromethane	PA	4390	10184802
Bromodichloromethane	PA	4395	10184802
Bromoform	PA	4400	10184802
Carbon disulfide	PA	4450	10184802
Carbon tetrachloride	PA	4455	10184802
Chlorobenzene	PA	4475	10184802
Chlorodibromomethane	PA	4575	10184802
Chloroethane (Ethyl chloride)	PA	4485	10184802
Chloroform	PA	4505	10184802
Chloroprene (2-Chloro-1,3-butadiene)	PA	4525	10184802
cis-1,2-Dichloroethylene	PA	4645	10184802
cis-1,3-Dichloropropene	PA	4680	10184802
Dibromomethane (Methylene bromide)	PA	4595	10184802
Dichlorodifluoromethane (Freon-12)	PA	4625	10184802
Diethyl ether	PA	4725	10184802
Ethyl methacrylate	PA	4810	10184802
Ethylbenzene	PA	4765	10184802
Hexachlorobutadiene	PA	4835	10184802
Iodomethane (Methyl iodide)	PA	4870	10184802
Isobutyl alcohol (2-Methyl-1-propanol)	PA	4875	10184802
Isopropyl alcohol (2-Propanol, Isopropanol)	PA	4895	10184802
Isopropylbenzene (Cumene)	PA	4900	10184802
m+p-xylene	PA	5240	10184802
Methacrylonitrile	PA	4925	10184802
Methyl acetate	PA	4940	10184802
Methyl bromide (Bromomethane)	PA	4950	10184802
Methyl chloride (Chloromethane)	PA	4960	10184802
Methyl methacrylate	PA	4990	10184802

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

Certificate: T104704528-23-12

Eurofins Pittsburgh

Expiration Date: 3/31/2024

301 Alpha Drive
Pittsburgh, PA 15238-2907

Issue Date: 4/1/2023

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Matrix: ***Solid & Chemical Materials***

Methyl tert-butyl ether (MTBE)	PA	5000	10184802
Methylcyclohexane	PA	4965	10184802
Methylene chloride (Dichloromethane)	PA	4975	10184802
Naphthalene	PA	5005	10184802
n-Butylbenzene	PA	4435	10184802
n-Propylbenzene	PA	5090	10184802
o-Xylene	PA	5250	10184802
Propionitrile (Ethyl cyanide)	PA	5080	10184802
sec-Butylbenzene	PA	4440	10184802
Styrene	PA	5100	10184802
tert-Butyl alcohol	PA	4420	10184802
tert-Butylbenzene	PA	4445	10184802
Tetrachloroethylene (Perchloroethylene)	PA	5115	10184802
Toluene	PA	5140	10184802
trans-1,2-Dichloroethylene	PA	4700	10184802
trans-1,3-Dichloropropylene	PA	4685	10184802
trans-1,4-Dichloro-2-butene	PA	4605	10184802
Trichloroethene (Trichloroethylene)	PA	5170	10184802
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	PA	5175	10184802
Vinyl acetate	PA	5225	10184802
Vinyl chloride	PA	5235	10184802
Xylene (total)	PA	5260	10184802

Method EPA 8270

Analyte	**AB**	**Analyte ID**	**Method ID**
1,2,4,5-Tetrachlorobenzene	PA	6715	10186002
1,2,4-Trichlorobenzene	PA	5155	10186002
1,2-Dichlorobenzene	PA	4610	10186002
1,2-Diphenylhydrazine	PA	6220	10186002
1,3,5-Trinitrobenzene (1,3,5-TNB)	PA	6885	10186002
1,3-Dichlorobenzene	PA	4615	10186002

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Matrix: ***Solid & Chemical Materials***

1,3-Dinitrobenzene (1,3-DNB)	PA	6160	10186002
1,4-Dichlorobenzene	PA	4620	10186002
1,4-Naphthoquinone	PA	6420	10186002
1,4-Phenylenediamine	PA	6630	10186002
1-Chloronaphthalene	PA	5790	10186002
1-Naphthylamine	PA	6425	10186002
2,2'-Oxybis(1-chloropropane) (bis(2-Chloro-1-methylethyl)ether)	PA	4659	10186002
2,3,4,6-Tetrachlorophenol	PA	6735	10186002
2,4,5-Trichlorophenol	PA	6835	10186002
2,4,6-Trichlorophenol	PA	6840	10186002
2,4-Dichlorophenol	PA	6000	10186002
2,4-Dimethylphenol	PA	6130	10186002
2,4-Dinitrophenol	PA	6175	10186002
2,4-Dinitrotoluene (2,4-DNT)	PA	6185	10186002
2,6-Dichlorophenol	PA	6005	10186002
2,6-Dinitrotoluene (2,6-DNT)	PA	6190	10186002
2-Acetylaminofluorene	PA	5515	10186002
2-Chloronaphthalene	PA	5795	10186002
2-Chlorophenol	PA	5800	10186002
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	PA	6360	10186002
2-Methylaniline (o-Toluidine)	PA	5145	10186002
2-Methylnaphthalene	PA	6385	10186002
2-Methylphenol (o-Cresol)	PA	6400	10186002
2-Naphthylamine	PA	6430	10186002
2-Nitroaniline	PA	6460	10186002
2-Nitrophenol	PA	6490	10186002
2-Picoline (2-Methylpyridine)	PA	5050	10186002
3,3'-Dichlorobenzidine	PA	5945	10186002
3,3'-Dimethylbenzidine	PA	6120	10186002
3-Methylcholanthrene	PA	6355	10186002

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Matrix: ***Solid & Chemical Materials***

3-Methylphenol (m-Cresol)	PA	6405	10186002
3-Nitroaniline	PA	6465	10186002
4,4'-Methylenebis(2-chloroaniline)	PA	6365	10186002
4-Aminobiphenyl	PA	5540	10186002
4-Bromophenyl phenyl ether (BDE-3)	PA	5660	10186002
4-Chloro-3-methylphenol	PA	5700	10186002
4-Chloroaniline	PA	5745	10186002
4-Chlorophenyl phenylether	PA	5825	10186002
4-Dimethyl aminoazobenzene	PA	6105	10186002
4-Methylphenol (p-Cresol)	PA	6410	10186002
4-Nitroaniline	PA	6470	10186002
4-Nitrophenol	PA	6500	10186002
4-Nitroquinoline-1-oxide	PA	6510	10186002
5-Nitro-o-toluidine	PA	6570	10186002
7,12-Dimethylbenz(a) anthracene	PA	6115	10186002
Acenaphthene	PA	5500	10186002
Acenaphthylene	PA	5505	10186002
Acetophenone	PA	5510	10186002
Aniline	PA	5545	10186002
Anthracene	PA	5555	10186002
Aramite	PA	5560	10186002
Atrazine	PA	7065	10186002
Benzidine	PA	5595	10186002
Benzo(a)anthracene	PA	5575	10186002
Benzo(a)pyrene	PA	5580	10186002
Benzo(b)fluoranthene	PA	5585	10186002
Benzo(g,h,i)perylene	PA	5590	10186002
Benzo(k)fluoranthene	PA	5600	10186002
Benzoic acid	PA	5610	10186002
Benzyl alcohol	PA	5630	10186002

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Matrix: ***Solid & Chemical Materials***

Biphenyl	PA	5640	10186002
bis(2-Chloroethoxy)methane	PA	5760	10186002
bis(2-Chloroethyl) ether	PA	5765	10186002
bis(2-Ethylhexyl) phthalate (Di(2-Ethylhexyl) phthalate, DEHP)	PA	6065	10186002
Butyl benzyl phthalate	PA	5670	10186002
Caprolactam	PA	7180	10186002
Carbazole	PA	5680	10186002
Chlorobenzilate	PA	7260	10186002
Chrysene	PA	5855	10186002
Diallate	PA	7405	10186002
Dibenz(a,h) anthracene	PA	5895	10186002
Dibenzofuran	PA	5905	10186002
Diethyl phthalate	PA	6070	10186002
Dimethoate	PA	7475	10186002
Dimethyl phthalate	PA	6135	10186002
Di-n-butyl phthalate	PA	5925	10186002
Di-n-octyl phthalate	PA	6200	10186002
Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	PA	8620	10186002
Disulfoton	PA	8625	10186002
Ethyl methanesulfonate	PA	6260	10186002
Famphur	PA	7580	10186002
Fluoranthene	PA	6265	10186002
Fluorene	PA	6270	10186002
Hexachlorobenzene	PA	6275	10186002
Hexachlorobutadiene	PA	4835	10186002
Hexachlorocyclopentadiene	PA	6285	10186002
Hexachloroethane	PA	4840	10186002
Hexachloropropene	PA	6295	10186002
Indeno(1,2,3-cd) pyrene	PA	6315	10186002
Isodrin	PA	7725	10186002

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Matrix: ***Solid & Chemical Materials***

Isophorone	PA	6320	10186002
Isosafrole	PA	6325	10186002
Kepone	PA	7740	10186002
Methapyrilene	PA	6345	10186002
Methyl methanesulfonate	PA	6375	10186002
Methyl parathion (Parathion, methyl)	PA	7825	10186002
Methylphenols, total	PA	10313	10186002
Naphthalene	PA	5005	10186002
Nitrobenzene	PA	5015	10186002
n-Nitrosodiethylamine	PA	6525	10186002
n-Nitrosodimethylamine	PA	6530	10186002
n-Nitrosodi-n-butylamine	PA	5025	10186002
n-Nitrosodi-n-propylamine	PA	6545	10186002
n-Nitrosodiphenylamine	PA	6535	10186002
n-Nitrosomethylethylamine	PA	6550	10186002
n-Nitrosomorpholine	PA	6555	10186002
n-Nitrosopiperidine	PA	6560	10186002
n-Nitrosopyrrolidine	PA	6565	10186002
o,o,o-Triethyl phosphorothioate	PA	8290	10186002
Parathion, ethyl	PA	7955	10186002
Pentachlorobenzene	PA	6590	10186002
Pentachloronitrobenzene (PCNB)	PA	6600	10186002
Pentachlorophenol	PA	6605	10186002
Phenacetin	PA	6610	10186002
Phenanthrene	PA	6615	10186002
Phenol	PA	6625	10186002
Phorate	PA	7985	10186002
Pronamide (Kerb)	PA	6650	10186002
Pyrene	PA	6665	10186002
Pyridine	PA	5095	10186002

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Matrix: ***Solid & Chemical Materials***

Safrole	PA	6685	10186002
Sulfotepp	PA	8155	10186002
Thionazin (Zinophos)	PA	8235	10186002

Method EPA 9014

Analyte	**AB**	**Analyte ID**	**Method ID**
Total cyanide	PA	1645	10193803

Method EPA 9034

Analyte	**AB**	**Analyte ID**	**Method ID**
Sulfide	PA	2005	10196006

Method EPA 9040

Analyte	**AB**	**Analyte ID**	**Method ID**
Corrosivity	PA	1615	10244403
pH	PA	1900	10244403

Method EPA 9045

Analyte	**AB**	**Analyte ID**	**Method ID**
Corrosivity	PA	1615	10198455
pH	PA	1900	10198455

Method EPA 9056

Analyte	**AB**	**Analyte ID**	**Method ID**
Bromide	PA	1540	10199607
Chloride	PA	1575	10199607
Fluoride	PA	1730	10199607
Nitrate as N	PA	1810	10199607
Nitrite as N	PA	1840	10199607
Orthophosphate as P	PA	1870	10199607
Sulfate	PA	2000	10199607

Method EPA 9065

Analyte	**AB**	**Analyte ID**	**Method ID**
Total phenolics	PA	1905	10200405

Method EPA 9071

Analyte	**AB**	**Analyte ID**	**Method ID**

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Matrix: ***Solid & Chemical Materials***

n-Hexane Extractable Material (HEM) (O&G)	PA	1803	10201806
Silica Gel Treated n-Hexane Extractable Material (SGT-HEM)	PA	10220	10201806

Method EPA 9095

Analyte	**AB**	**Analyte ID**	**Method ID**
Paint Filter Liquids Test	PA	10312	10204203

Method SM 2540 G

Analyte	**AB**	**Analyte ID**	**Method ID**
Residue-total (total solids)	PA	1950	20005203

Jon Niermann, *Chairman*
Bobby Janecka, *Commissioner*
Catarina R. Gonzales, *Commissioner*
Kelly Keel, *Executive Director*

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

April 09, 2024

Ms. Amanda L. Grilli
Eurofins Pittsburgh
301 Alpha Drive
Pittsburgh, PA 15238-2907

Subject: Texas NELAP accreditation withdrawal

Dear Ms. Grilli:

Based on the withdrawal request submitted on April 09, 2024, I am enclosing an updated NELAP accreditation certificate and Fields of Accreditation listing. They replace the previous ones issued on August 01, 2024.

Please review the enclosures for accuracy and completeness. Your laboratory's accreditation is valid until the expiration date on the certificate and scope, contingent on continued compliance with the requirements of the state of Texas as well as those of your primary accreditation body.

Please contact me at frank.jamison@tceq.texas.gov if I can provide any additional information or assistance.

Sincerely,

Frank Jamison
Data and Records Specialist

Enclosures

Texas Commission on Environmental Quality

Certificate of Accreditation

Accreditation is hereby granted to

Eurofins Pittsburgh
301 Alpha Drive
Pittsburgh, PA 15238-2907

State Lab ID: T104704528
Effective Date: 04/09/2024
Expiration Date: 03/31/2025
Document ID: TX-C24-00110

Conditions of Accreditation

This laboratory has been found to conform with TCEQ rules and applicable standards for laboratory accreditation. The scope of accreditation is limited to the Fields of Accreditation specifically listed on the subsequent page(s) of this certificate. Accreditation is for all version of a method approved per 40 CFR 136, 40 CFR 141, and/ or 40 CFR 143. Continued accreditation requires ongoing compliance with all applicable standards and requirements.

Issued By: Kelly Keel, Executive Director Texas Commission on Environmental Quality
Date Issued: 04/09/2024

Laboratory Fields of Accreditation

Matrix	Method	Method Code	Analyte	Analyte Code	AB
NPW	EPA 1010	10116606	Ignitability	1780	PA
NPW	EPA 120.1	10006403	Conductivity	1610	PA
NPW	EPA 1311	10118806	Toxicity Characteristic Leaching Procedure (TCLP)	1466	PA
NPW	EPA 160.4	10010409	Residue-volatile	1970	PA
NPW	EPA 1664	10127807	Hexane Extractable Material - Silica Gel Treated (HEM-SGT)	6142	PA
NPW	EPA 1664	10127807	n-Hexane Extractable Material (O&G)	1803	PA
NPW	EPA 180.1	10011606	Turbidity	2055	PA
NPW	EPA 200.7	10013806	Aluminum	1000	PA
NPW	EPA 200.7	10013806	Antimony	1005	PA
NPW	EPA 200.7	10013806	Arsenic	1010	PA
NPW	EPA 200.7	10013806	Barium	1015	PA
NPW	EPA 200.7	10013806	Beryllium	1020	PA
NPW	EPA 200.7	10013806	Boron	1025	PA
NPW	EPA 200.7	10013806	Cadmium	1030	PA
NPW	EPA 200.7	10013806	Calcium	1035	PA
NPW	EPA 200.7	10013806	Chromium	1040	PA
NPW	EPA 200.7	10013806	Cobalt	1050	PA
NPW	EPA 200.7	10013806	Copper	1055	PA
NPW	EPA 200.7	10013806	Iron	1070	PA
NPW	EPA 200.7	10013806	Lead	1075	PA
NPW	EPA 200.7	10013806	Lithium	1080	PA
NPW	EPA 200.7	10013806	Magnesium	1085	PA
NPW	EPA 200.7	10013806	Manganese	1090	PA
NPW	EPA 200.7	10013806	Molybdenum	1100	PA
NPW	EPA 200.7	10013806	Nickel	1105	PA
NPW	EPA 200.7	10013806	Potassium	1125	PA
NPW	EPA 200.7	10013806	Selenium	1140	PA
NPW	EPA 200.7	10013806	Silica as SiO2	1990	PA
NPW	EPA 200.7	10013806	Silver	1150	PA
NPW	EPA 200.7	10013806	Sodium	1155	PA
NPW	EPA 200.7	10013806	Strontium	1160	PA
NPW	EPA 200.7	10013806	Thallium	1165	PA
NPW	EPA 200.7	10013806	Tin	1175	PA
NPW	EPA 200.7	10013806	Titanium	1180	PA
NPW	EPA 200.7	10013806	Vanadium	1185	PA

NPW	EPA 200.7	10013806	Zinc	1190	PA
NPW	EPA 200.8	10014605	Aluminum	1000	PA
NPW	EPA 200.8	10014605	Antimony	1005	PA
NPW	EPA 200.8	10014605	Arsenic	1010	PA
NPW	EPA 200.8	10014605	Barium	1015	PA
NPW	EPA 200.8	10014605	Beryllium	1020	PA
NPW	EPA 200.8	10014605	Boron	1025	PA
NPW	EPA 200.8	10014605	Cadmium	1030	PA
NPW	EPA 200.8	10014605	Calcium	1035	PA
NPW	EPA 200.8	10014605	Chromium	1040	PA
NPW	EPA 200.8	10014605	Cobalt	1050	PA
NPW	EPA 200.8	10014605	Copper	1055	PA
NPW	EPA 200.8	10014605	Iron	1070	PA
NPW	EPA 200.8	10014605	Lead	1075	PA
NPW	EPA 200.8	10014605	Magnesium	1085	PA
NPW	EPA 200.8	10014605	Manganese	1090	PA
NPW	EPA 200.8	10014605	Molybdenum	1100	PA
NPW	EPA 200.8	10014605	Nickel	1105	PA
NPW	EPA 200.8	10014605	Potassium	1125	PA
NPW	EPA 200.8	10014605	Selenium	1140	PA
NPW	EPA 200.8	10014605	Silica as SiO2	1990	PA
NPW	EPA 200.8	10014605	Silver	1150	PA
NPW	EPA 200.8	10014605	Sodium	1155	PA
NPW	EPA 200.8	10014605	Strontium	1160	PA
NPW	EPA 200.8	10014605	Thallium	1165	PA
NPW	EPA 200.8	10014605	Thorium	1170	PA
NPW	EPA 200.8	10014605	Tin	1175	PA
NPW	EPA 200.8	10014605	Titanium	1180	PA
NPW	EPA 200.8	10014605	Uranium	3035	PA
NPW	EPA 200.8	10014605	Vanadium	1185	PA
NPW	EPA 200.8	10014605	Zinc	1190	PA
NPW	EPA 245.1	10036609	Mercury	1095	PA
NPW	EPA 300.0	10053200	Bromide	1540	PA
NPW	EPA 300.0	10053200	Chloride	1575	PA
NPW	EPA 300.0	10053200	Fluoride	1730	PA
NPW	EPA 300.0	10053200	Nitrate as N	1810	PA
NPW	EPA 300.0	10053200	Nitrite as N	1840	PA
NPW	EPA 300.0	10053200	Sulfate	2000	PA
NPW	EPA 350.1	10063408	Ammonia as N	1515	PA
NPW	EPA 351.2	10065404	Total Kjeldahl Nitrogen - (TKN)	1790	PA
NPW	EPA 353.2	10067400	Nitrate plus Nitrite as N	1820	PA

NPW	EPA 365.3	10070801	Orthophosphate as P	1870	PA
NPW	EPA 365.4	10071202	Total Phosphorus	1910	PA
NPW	EPA 410.4	10077404	Chemical Oxygen Demand (COD)	1565	PA
NPW	EPA 420.1	10079400	Total Phenolics	1905	PA
NPW	EPA 6010	10155905	Aluminum	1000	PA
NPW	EPA 6010	10155905	Antimony	1005	PA
NPW	EPA 6010	10155905	Arsenic	1010	PA
NPW	EPA 6010	10155905	Barium	1015	PA
NPW	EPA 6010	10155905	Beryllium	1020	PA
NPW	EPA 6010	10155905	Boron	1025	PA
NPW	EPA 6010	10155905	Cadmium	1030	PA
NPW	EPA 6010	10155905	Calcium	1035	PA
NPW	EPA 6010	10155905	Chromium	1040	PA
NPW	EPA 6010	10155905	Cobalt	1050	PA
NPW	EPA 6010	10155905	Copper	1055	PA
NPW	EPA 6010	10155905	Iron	1070	PA
NPW	EPA 6010	10155905	Lead	1075	PA
NPW	EPA 6010	10155905	Lithium	1080	PA
NPW	EPA 6010	10155905	Magnesium	1085	PA
NPW	EPA 6010	10155905	Manganese	1090	PA
NPW	EPA 6010	10155905	Molybdenum	1100	PA
NPW	EPA 6010	10155905	Nickel	1105	PA
NPW	EPA 6010	10155905	Potassium	1125	PA
NPW	EPA 6010	10155905	Selenium	1140	PA
NPW	EPA 6010	10155905	Silica as SiO2	1990	PA
NPW	EPA 6010	10155905	Silver	1150	PA
NPW	EPA 6010	10155905	Sodium	1155	PA
NPW	EPA 6010	10155905	Strontium	1160	PA
NPW	EPA 6010	10155905	Thallium	1165	PA
NPW	EPA 6010	10155905	Tin	1175	PA
NPW	EPA 6010	10155905	Titanium	1180	PA
NPW	EPA 6010	10155905	Vanadium	1185	PA
NPW	EPA 6010	10155905	Zinc	1190	PA
NPW	EPA 6020	10156419	Aluminum	1000	PA
NPW	EPA 6020	10156419	Antimony	1005	PA
NPW	EPA 6020	10156419	Arsenic	1010	PA
NPW	EPA 6020	10156419	Barium	1015	PA
NPW	EPA 6020	10156419	Beryllium	1020	PA
NPW	EPA 6020	10156419	Boron	1025	PA
NPW	EPA 6020	10156419	Cadmium	1030	PA
NPW	EPA 6020	10156419	Calcium	1035	PA

NPW	EPA 6020	10156419	Chromium	1040	PA
NPW	EPA 6020	10156419	Cobalt	1050	PA
NPW	EPA 6020	10156419	Copper	1055	PA
NPW	EPA 6020	10156419	Iron	1070	PA
NPW	EPA 6020	10156419	Lead	1075	PA
NPW	EPA 6020	10156419	Lithium	1080	PA
NPW	EPA 6020	10156419	Magnesium	1085	PA
NPW	EPA 6020	10156419	Manganese	1090	PA
NPW	EPA 6020	10156419	Molybdenum	1100	PA
NPW	EPA 6020	10156419	Nickel	1105	PA
NPW	EPA 6020	10156419	Potassium	1125	PA
NPW	EPA 6020	10156419	Selenium	1140	PA
NPW	EPA 6020	10156419	Silver	1150	PA
NPW	EPA 6020	10156419	Sodium	1155	PA
NPW	EPA 6020	10156419	Strontium	1160	PA
NPW	EPA 6020	10156419	Thallium	1165	PA
NPW	EPA 6020	10156419	Tin	1175	PA
NPW	EPA 6020	10156419	Titanium	1180	PA
NPW	EPA 6020	10156419	Vanadium	1185	PA
NPW	EPA 6020	10156419	Zinc	1190	PA
NPW	EPA 608.3	10296625	4,4'-DDD	7355	PA
NPW	EPA 608.3	10296625	4,4'-DDE	7360	PA
NPW	EPA 608.3	10296625	4,4'-DDT	7365	PA
NPW	EPA 608.3	10296625	Aldrin	7025	PA
NPW	EPA 608.3	10296625	alpha-BHC (alpha-Hexachlorocyclohexane)	7110	PA
NPW	EPA 608.3	10296625	Aroclor-1016 (PCB-1016)	8880	PA
NPW	EPA 608.3	10296625	Aroclor-1221 (PCB-1221)	8885	PA
NPW	EPA 608.3	10296625	Aroclor-1232 (PCB-1232)	8890	PA
NPW	EPA 608.3	10296625	Aroclor-1242 (PCB-1242)	8895	PA
NPW	EPA 608.3	10296625	Aroclor-1248 (PCB-1248)	8900	PA
NPW	EPA 608.3	10296625	Aroclor-1254 (PCB-1254)	8905	PA
NPW	EPA 608.3	10296625	Aroclor-1260 (PCB-1260)	8910	PA
NPW	EPA 608.3	10296625	beta-BHC (beta-Hexachlorocyclohexane)	7115	PA
NPW	EPA 608.3	10296625	Chlordane (tech.)	7250	PA
NPW	EPA 608.3	10296625	cis-Chlordane (alpha-Chlordane)	7240	PA
NPW	EPA 608.3	10296625	delta-BHC	7105	PA
NPW	EPA 608.3	10296625	Dieldrin	7470	PA
NPW	EPA 608.3	10296625	Endosulfan I	7510	PA
NPW	EPA 608.3	10296625	Endosulfan II	7515	PA

NPW	EPA 608.3	10296625	Endosulfan sulfate	7520	PA
NPW	EPA 608.3	10296625	Endrin	7540	PA
NPW	EPA 608.3	10296625	Endrin aldehyde	7530	PA
NPW	EPA 608.3	10296625	Endrin ketone	7535	PA
NPW	EPA 608.3	10296625	gamma-BHC (Lindane, gamma-HexachlorocyclohexanE)	7120	PA
NPW	EPA 608.3	10296625	gamma-Chlordane	7245	PA
NPW	EPA 608.3	10296625	Heptachlor	7685	PA
NPW	EPA 608.3	10296625	Heptachlor epoxide	7690	PA
NPW	EPA 608.3	10296625	Methoxychlor	7810	PA
NPW	EPA 608.3	10296625	Toxaphene (Chlorinated Camphene)	8250	PA
NPW	EPA 624.1	10298121	1,1,1-Trichloroethane	5160	PA
NPW	EPA 624.1	10298121	1,1,2,2-Tetrachloroethane	5110	PA
NPW	EPA 624.1	10298121	1,1,2-Trichloroethane	5165	PA
NPW	EPA 624.1	10298121	1,1-Dichloroethane	4630	PA
NPW	EPA 624.1	10298121	1,1-Dichloroethylene	4640	PA
NPW	EPA 624.1	10298121	1,2-Dibromoethane (EDB, Ethylene dibromide)	4585	PA
NPW	EPA 624.1	10298121	1,2-Dichlorobenzene (o-Dichlorobenzene)	4610	PA
NPW	EPA 624.1	10298121	1,2-Dichloroethane (Ethylene dichloride)	4635	PA
NPW	EPA 624.1	10298121	1,2-Dichloropropane	4655	PA
NPW	EPA 624.1	10298121	1,3-Dichlorobenzene (m-Dichlorobenzene)	4615	PA
NPW	EPA 624.1	10298121	1,4-Dichlorobenzene (p-Dichlorobenzene)	4620	PA
NPW	EPA 624.1	10298121	2-Butanone (Methyl ethyl ketone, MEK)	4410	PA
NPW	EPA 624.1	10298121	2-Chloroethyl vinyl ether	4500	PA
NPW	EPA 624.1	10298121	Acetone	4315	PA
NPW	EPA 624.1	10298121	Acrolein (Propenal)	4325	PA
NPW	EPA 624.1	10298121	Acrylonitrile	4340	PA
NPW	EPA 624.1	10298121	Benzene	4375	PA
NPW	EPA 624.1	10298121	Bromodichloromethane	4395	PA
NPW	EPA 624.1	10298121	Bromoform	4400	PA
NPW	EPA 624.1	10298121	Carbon tetrachloride	4455	PA
NPW	EPA 624.1	10298121	Chlorobenzene	4475	PA
NPW	EPA 624.1	10298121	Chlorodibromomethane	4575	PA
NPW	EPA 624.1	10298121	Chloroethane (Ethyl chloride)	4485	PA
NPW	EPA 624.1	10298121	Chloroform	4505	PA
NPW	EPA 624.1	10298121	cis-1,2-Dichloroethylene	4645	PA
NPW	EPA 624.1	10298121	cis-1,3-Dichloropropene	4680	PA

NPW	EPA 624.1	10298121	Ethylbenzene	4765	PA
NPW	EPA 624.1	10298121	m+p-xylene	5240	PA
NPW	EPA 624.1	10298121	Methyl bromide (Bromomethane)	4950	PA
NPW	EPA 624.1	10298121	Methyl chloride (Chloromethane)	4960	PA
NPW	EPA 624.1	10298121	Methyl tert-butyl ether (MTBE)	5000	PA
NPW	EPA 624.1	10298121	Methylene chloride (Dichloromethane)	4975	PA
NPW	EPA 624.1	10298121	Naphthalene	5005	PA
NPW	EPA 624.1	10298121	o-Xylene	5250	PA
NPW	EPA 624.1	10298121	Tetrachloroethylene (Perchloroethylene)	5115	PA
NPW	EPA 624.1	10298121	Toluene	5140	PA
NPW	EPA 624.1	10298121	Total Trihalomethanes (TTHMs)	5205	PA
NPW	EPA 624.1	10298121	Total Xylene	5260	PA
NPW	EPA 624.1	10298121	trans-1,2-Dichloroethylene	4700	PA
NPW	EPA 624.1	10298121	trans-1,3-Dichloropropylene	4685	PA
NPW	EPA 624.1	10298121	Trichloroethene (Trichloroethylene)	5170	PA
NPW	EPA 624.1	10298121	Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	5175	PA
NPW	EPA 624.1	10298121	Vinyl chloride (Chloroethene)	5235	PA
NPW	EPA 625.1	10300024	1,2,4,5-Tetrachlorobenzene	6715	PA
NPW	EPA 625.1	10300024	1,2,4-Trichlorobenzene	5155	PA
NPW	EPA 625.1	10300024	1,2-Dichlorobenzene (o-Dichlorobenzene)	4610	PA
NPW	EPA 625.1	10300024	1,2-Diphenylhydrazine	6221	PA
NPW	EPA 625.1	10300024	1,3-Dichlorobenzene (m-Dichlorobenzene)	4615	PA
NPW	EPA 625.1	10300024	1,4-Dichlorobenzene (p-Dichlorobenzene)	4620	PA
NPW	EPA 625.1	10300024	2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether	4659	PA
NPW	EPA 625.1	10300024	2,3,4,6-Tetrachlorophenol	6735	PA
NPW	EPA 625.1	10300024	2,4,5-Trichlorophenol	6835	PA
NPW	EPA 625.1	10300024	2,4,6-Trichlorophenol	6840	PA
NPW	EPA 625.1	10300024	2,4-Dichlorophenol	6000	PA
NPW	EPA 625.1	10300024	2,4-Dimethylphenol	6130	PA
NPW	EPA 625.1	10300024	2,4-Dinitrophenol	6175	PA
NPW	EPA 625.1	10300024	2,4-Dinitrotoluene (2,4-DNT)	6185	PA
NPW	EPA 625.1	10300024	2,6-Dinitrotoluene (2,6-DNT)	6190	PA
NPW	EPA 625.1	10300024	2-Chloronaphthalene	5795	PA
NPW	EPA 625.1	10300024	2-Chlorophenol	5800	PA
NPW	EPA 625.1	10300024	2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	6360	PA

NPW	EPA 625.1	10300024	2-Methylphenol (o-Cresol)	6400	PA
NPW	EPA 625.1	10300024	2-Nitrophenol	6490	PA
NPW	EPA 625.1	10300024	3,3'-Dichlorobenzidine	5945	PA
NPW	EPA 625.1	10300024	4-Bromophenyl phenyl ether (BDE-3)	5660	PA
NPW	EPA 625.1	10300024	4-Chloro-3-methylphenol	5700	PA
NPW	EPA 625.1	10300024	4-Chlorophenyl phenylether	5825	PA
NPW	EPA 625.1	10300024	4-Methylphenol (p-Cresol)	6410	PA
NPW	EPA 625.1	10300024	4-Nitrophenol	6500	PA
NPW	EPA 625.1	10300024	Acenaphthene	5500	PA
NPW	EPA 625.1	10300024	Acenaphthylene	5505	PA
NPW	EPA 625.1	10300024	Anthracene	5555	PA
NPW	EPA 625.1	10300024	Benzidine	5595	PA
NPW	EPA 625.1	10300024	Benzo(a)anthracene	5575	PA
NPW	EPA 625.1	10300024	Benzo(a)pyrene	5580	PA
NPW	EPA 625.1	10300024	Benzo(g,h,i)perylene	5590	PA
NPW	EPA 625.1	10300024	Benzo(k)fluoranthene	5600	PA
NPW	EPA 625.1	10300024	Benzo[b]fluoranthene	5585	PA
NPW	EPA 625.1	10300024	bis(2-Chloroethoxy)methane	5760	PA
NPW	EPA 625.1	10300024	bis(2-Chloroethyl) ether	5765	PA
NPW	EPA 625.1	10300024	Butyl benzyl phthalate	5670	PA
NPW	EPA 625.1	10300024	Chrysene	5855	PA
NPW	EPA 625.1	10300024	Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	6065	PA
NPW	EPA 625.1	10300024	Di-n-butyl phthalate	5925	PA
NPW	EPA 625.1	10300024	Di-n-octyl phthalate	6200	PA
NPW	EPA 625.1	10300024	Dibenz(a,h) anthracene	5895	PA
NPW	EPA 625.1	10300024	Diethyl phthalate	6070	PA
NPW	EPA 625.1	10300024	Dimethyl phthalate	6135	PA
NPW	EPA 625.1	10300024	Fluoranthene	6265	PA
NPW	EPA 625.1	10300024	Fluorene	6270	PA
NPW	EPA 625.1	10300024	Hexachlorobenzene	6275	PA
NPW	EPA 625.1	10300024	Hexachlorobutadiene	4835	PA
NPW	EPA 625.1	10300024	Hexachlorocyclopentadiene	6285	PA
NPW	EPA 625.1	10300024	Hexachloroethane	4840	PA
NPW	EPA 625.1	10300024	Indeno(1,2,3-cd) pyrene	6315	PA
NPW	EPA 625.1	10300024	Isophorone	6320	PA
NPW	EPA 625.1	10300024	n-Nitrosodi-n-propylamine	6545	PA
NPW	EPA 625.1	10300024	n-Nitrosodimethylamine	6530	PA
NPW	EPA 625.1	10300024	n-Nitrosodiphenylamine	6535	PA
NPW	EPA 625.1	10300024	Naphthalene	5005	PA

NPW	EPA 625.1	10300024	Nitrobenzene	5015	PA
NPW	EPA 625.1	10300024	Pentachlorophenol	6605	PA
NPW	EPA 625.1	10300024	Phenanthrene	6615	PA
NPW	EPA 625.1	10300024	Phenol	6625	PA
NPW	EPA 625.1	10300024	Pyrene	6665	PA
NPW	EPA 625.1	10300024	Pyridine	5095	PA
NPW	EPA 7196	10162400	Chromium (VI)	1045	PA
NPW	EPA 7470	10165807	Mercury	1095	PA
NPW	EPA 8011	10173009	1,2-Dibromo-3-chloropropane (DBCP)	4570	PA
NPW	EPA 8011	10173009	1,2-Dibromoethane (EDB, Ethylene dibromide)	4585	PA
NPW	EPA 8081	10178800	4,4'-DDD	7355	PA
NPW	EPA 8081	10178800	4,4'-DDE	7360	PA
NPW	EPA 8081	10178800	4,4'-DDT	7365	PA
NPW	EPA 8081	10178800	Aldrin	7025	PA
NPW	EPA 8081	10178800	alpha-BHC (alpha-Hexachlorocyclohexane)	7110	PA
NPW	EPA 8081	10178800	beta-BHC (beta-Hexachlorocyclohexane)	7115	PA
NPW	EPA 8081	10178800	Chlordane (tech.)	7250	PA
NPW	EPA 8081	10178800	cis-Chlordane (alpha-Chlordane)	7240	PA
NPW	EPA 8081	10178800	Dacthal (DCPA)	8550	PA
NPW	EPA 8081	10178800	delta-BHC	7105	PA
NPW	EPA 8081	10178800	Diallate	7405	PA
NPW	EPA 8081	10178800	Dieldrin	7470	PA
NPW	EPA 8081	10178800	Endosulfan I	7510	PA
NPW	EPA 8081	10178800	Endosulfan II	7515	PA
NPW	EPA 8081	10178800	Endosulfan sulfate	7520	PA
NPW	EPA 8081	10178800	Endrin	7540	PA
NPW	EPA 8081	10178800	Endrin aldehyde	7530	PA
NPW	EPA 8081	10178800	Endrin ketone	7535	PA
NPW	EPA 8081	10178800	gamma-BHC (Lindane, gamma-HexachlorocyclohexanE)	7120	PA
NPW	EPA 8081	10178800	gamma-Chlordane	7245	PA
NPW	EPA 8081	10178800	Heptachlor	7685	PA
NPW	EPA 8081	10178800	Heptachlor epoxide	7690	PA
NPW	EPA 8081	10178800	Hexachlorobenzene	6275	PA
NPW	EPA 8081	10178800	Isodrin	7725	PA
NPW	EPA 8081	10178800	Methoxychlor	7810	PA
NPW	EPA 8081	10178800	Mirex	7870	PA
NPW	EPA 8081	10178800	Toxaphene (Chlorinated Camphene)	8250	PA

NPW	EPA 8081	10178800	trans-Nonachlor	7910	PA
NPW	EPA 8082	10179201	2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl (BZ-206)	9095	PA
NPW	EPA 8082	10179201	2,2',3,3',4,4',5,6-Octachlorobiphenyl (BZ-195)	9103	PA
NPW	EPA 8082	10179201	2,2',3,3',4,4',5-Heptachlorobiphenyl (BZ-170)	9065	PA
NPW	EPA 8082	10179201	2,2',3,3',4,4'-Hexachlorobiphenyl (BZ-128)	9020	PA
NPW	EPA 8082	10179201	2,2',3,4',5,5',6-Heptachlorobiphenyl (BZ-187)	9080	PA
NPW	EPA 8082	10179201	2,2',3,4,4',5',6-Heptachlorobiphenyl (BZ-183)	9075	PA
NPW	EPA 8082	10179201	2,2',3,4,4',5'-Hexachlorobiphenyl (BZ-138)	9025	PA
NPW	EPA 8082	10179201	2,2',3,4,4',5,5'-Heptachlorobiphenyl (BZ-180)	9134	PA
NPW	EPA 8082	10179201	2,2',3,4,5'-Pentachlorobiphenyl (BZ-87)	8975	PA
NPW	EPA 8082	10179201	2,2',3,5'-Tetrachlorobiphenyl (BZ-44)	8945	PA
NPW	EPA 8082	10179201	2,2',4,4',5,5'-Hexachlorobiphenyl (BZ-153)	9040	PA
NPW	EPA 8082	10179201	2,2',4,5'-Tetrachlorobiphenyl (BZ-49)	8950	PA
NPW	EPA 8082	10179201	2,2',4,5,5'-Pentachlorobiphenyl (BZ-101)	8980	PA
NPW	EPA 8082	10179201	2,2',5,5'-Tetrachlorobiphenyl (BZ-52)	8955	PA
NPW	EPA 8082	10179201	2,2',5-Trichlorobiphenyl (BZ-18)	8930	PA
NPW	EPA 8082	10179201	2,3',4,4',5'-Pentachlorobiphenyl (BZ-123)	9000	PA
NPW	EPA 8082	10179201	2,3',4,4',5,5'-Hexachlorobiphenyl (BZ-167)	9055	PA
NPW	EPA 8082	10179201	2,3',4,4',5-Pentachlorobiphenyl (BZ-118)	8995	PA
NPW	EPA 8082	10179201	2,3',4,4'-Tetrachlorobiphenyl (BZ-66)	8960	PA
NPW	EPA 8082	10179201	2,3,3',4,4',5'-Hexachlorobiphenyl (BZ-157)	9045	PA
NPW	EPA 8082	10179201	2,3,3',4,4',5,5'-Heptachlorobiphenyl (BZ-189)	9085	PA
NPW	EPA 8082	10179201	2,3,3',4,4',5-Hexachlorobiphenyl (BZ-156)	9050	PA
NPW	EPA 8082	10179201	2,3,3',4,4'-Pentachlorobiphenyl (BZ-105)	8985	PA
NPW	EPA 8082	10179201	2,3,4,4',5-Pentachlorobiphenyl (BZ-114)	9005	PA

NPW	EPA 8082	10179201	2,4'-Dichlorobiphenyl (BZ-8)	9256	PA
NPW	EPA 8082	10179201	2,4,4'-Trichlorobiphenyl (BZ-28)	9252	PA
NPW	EPA 8082	10179201	Aroclor-1016 (PCB-1016)	8880	PA
NPW	EPA 8082	10179201	Aroclor-1221 (PCB-1221)	8885	PA
NPW	EPA 8082	10179201	Aroclor-1232 (PCB-1232)	8890	PA
NPW	EPA 8082	10179201	Aroclor-1242 (PCB-1242)	8895	PA
NPW	EPA 8082	10179201	Aroclor-1248 (PCB-1248)	8900	PA
NPW	EPA 8082	10179201	Aroclor-1254 (PCB-1254)	8905	PA
NPW	EPA 8082	10179201	Aroclor-1260 (PCB-1260)	8910	PA
NPW	EPA 8082	10179201	Decachlorobiphenyl (BZ-209)	9105	PA
NPW	EPA 8082	10179201	Total PCBs	8870	PA
NPW	EPA 8141	10182204	Azinphos-methyl (Guthion)	7075	PA
NPW	EPA 8141	10182204	Bolstar (Sulprofos)	7125	PA
NPW	EPA 8141	10182204	Chlorpyrifos	7300	PA
NPW	EPA 8141	10182204	Coumaphos	7315	PA
NPW	EPA 8141	10182204	Demeton	7390	PA
NPW	EPA 8141	10182204	Demeton-o	7395	PA
NPW	EPA 8141	10182204	Demeton-s	7385	PA
NPW	EPA 8141	10182204	Diazinon	7410	PA
NPW	EPA 8141	10182204	Dichlorvos (DDVP)	8610	PA
NPW	EPA 8141	10182204	Dimethoate	7475	PA
NPW	EPA 8141	10182204	Disulfoton	8625	PA
NPW	EPA 8141	10182204	EPN (Phosphonothioic acid, phenyl-, O-ethyl O-(p-nitrophenyl) ester)	7550	PA
NPW	EPA 8141	10182204	Ethoprop	7570	PA
NPW	EPA 8141	10182204	Famphur	7580	PA
NPW	EPA 8141	10182204	Fensulfothion	7600	PA
NPW	EPA 8141	10182204	Fenthion	7605	PA
NPW	EPA 8141	10182204	Malathion	7770	PA
NPW	EPA 8141	10182204	Methyl parathion (Parathion, methyl)	7825	PA
NPW	EPA 8141	10182204	Mevinphos	7850	PA
NPW	EPA 8141	10182204	Parathion, ethyl	7955	PA
NPW	EPA 8141	10182204	Phorate	7985	PA
NPW	EPA 8141	10182204	Ronnel	8110	PA
NPW	EPA 8141	10182204	Sulfotep (Tetraethyl dithiopyrophospahte)	8155	PA
NPW	EPA 8141	10182204	Tetrachlorvinphos (Stirophos, Gardona) E-isomer	8197	PA
NPW	EPA 8141	10182204	Thionazin (Zinophos)	8235	PA
NPW	EPA 8141	10182204	Tokuthion (Prothiophos)	8245	PA

NPW	EPA 8141	10182204	Trichloronate	8275	PA
NPW	EPA 8151	10183207	2,4,5-T	8655	PA
NPW	EPA 8151	10183207	2,4-D	8545	PA
NPW	EPA 8151	10183207	2,4-DB	8560	PA
NPW	EPA 8151	10183207	Dalapon	8555	PA
NPW	EPA 8151	10183207	Dicamba	8595	PA
NPW	EPA 8151	10183207	Dichlorprop	8605	PA
NPW	EPA 8151	10183207	Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	8620	PA
NPW	EPA 8151	10183207	MCPA	7775	PA
NPW	EPA 8151	10183207	MCPP	7780	PA
NPW	EPA 8151	10183207	Pentachlorophenol	6605	PA
NPW	EPA 8151	10183207	Silvex (2,4,5-TP)	8650	PA
NPW	EPA 8260	10184802	1,1,1,2-Tetrachloroethane	5105	PA
NPW	EPA 8260	10184802	1,1,1-Trichloroethane	5160	PA
NPW	EPA 8260	10184802	1,1,2,2-Tetrachloroethane	5110	PA
NPW	EPA 8260	10184802	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5185	PA
NPW	EPA 8260	10184802	1,1,2-Trichloroethane	5165	PA
NPW	EPA 8260	10184802	1,1-Dichloroethane	4630	PA
NPW	EPA 8260	10184802	1,1-Dichloroethylene	4640	PA
NPW	EPA 8260	10184802	1,1-Dichloropropene	4670	PA
NPW	EPA 8260	10184802	1,2,3-Trichlorobenzene	5150	PA
NPW	EPA 8260	10184802	1,2,3-Trichloropropane	5180	PA
NPW	EPA 8260	10184802	1,2,4-Trichlorobenzene	5155	PA
NPW	EPA 8260	10184802	1,2,4-Trimethylbenzene	5210	PA
NPW	EPA 8260	10184802	1,2-Dibromo-3-chloropropane (DBCP)	4570	PA
NPW	EPA 8260	10184802	1,2-Dibromoethane (EDB, Ethylene dibromide)	4585	PA
NPW	EPA 8260	10184802	1,2-Dichlorobenzene (o-Dichlorobenzene)	4610	PA
NPW	EPA 8260	10184802	1,2-Dichloroethane (Ethylene dichloride)	4635	PA
NPW	EPA 8260	10184802	1,2-Dichloropropane	4655	PA
NPW	EPA 8260	10184802	1,3,5-Trimethylbenzene	5215	PA
NPW	EPA 8260	10184802	1,3-Dichlorobenzene (m-Dichlorobenzene)	4615	PA
NPW	EPA 8260	10184802	1,3-Dichloropropane	4660	PA
NPW	EPA 8260	10184802	1,4-Dichlorobenzene (p-Dichlorobenzene)	4620	PA
NPW	EPA 8260	10184802	1,4-Dioxane (1,4- Diethyleneoxide)	4735	PA
NPW	EPA 8260	10184802	2,2-Dichloropropane	4665	PA

NPW	EPA 8260	10184802	2-Butanone (Methyl ethyl ketone, MEK)	4410	PA
NPW	EPA 8260	10184802	2-Chloroethyl vinyl ether	4500	PA
NPW	EPA 8260	10184802	2-Chlorotoluene	4535	PA
NPW	EPA 8260	10184802	2-Hexanone	4860	PA
NPW	EPA 8260	10184802	4-Chlorotoluene	4540	PA
NPW	EPA 8260	10184802	4-Isopropyltoluene (p-Cymene)	4910	PA
NPW	EPA 8260	10184802	4-Methyl-2-pentanone (MIBK)	4995	PA
NPW	EPA 8260	10184802	Acetone	4315	PA
NPW	EPA 8260	10184802	Acetonitrile	4320	PA
NPW	EPA 8260	10184802	Acrolein (Propenal)	4325	PA
NPW	EPA 8260	10184802	Acrylonitrile	4340	PA
NPW	EPA 8260	10184802	Allyl chloride (3-Chloropropene)	4355	PA
NPW	EPA 8260	10184802	Benzene	4375	PA
NPW	EPA 8260	10184802	Benzyl chloride	5635	PA
NPW	EPA 8260	10184802	Bromobenzene	4385	PA
NPW	EPA 8260	10184802	Bromochloromethane	4390	PA
NPW	EPA 8260	10184802	Bromodichloromethane	4395	PA
NPW	EPA 8260	10184802	Bromoform	4400	PA
NPW	EPA 8260	10184802	Carbon disulfide	4450	PA
NPW	EPA 8260	10184802	Carbon tetrachloride	4455	PA
NPW	EPA 8260	10184802	Chlorobenzene	4475	PA
NPW	EPA 8260	10184802	Chlorodibromomethane	4575	PA
NPW	EPA 8260	10184802	Chloroethane (Ethyl chloride)	4485	PA
NPW	EPA 8260	10184802	Chloroform	4505	PA
NPW	EPA 8260	10184802	Chloroprene (2-Chloro-1,3-butadiene)	4525	PA
NPW	EPA 8260	10184802	cis-1,2-Dichloroethylene	4645	PA
NPW	EPA 8260	10184802	cis-1,3-Dichloropropene	4680	PA
NPW	EPA 8260	10184802	Dibromomethane (Methylene bromide)	4595	PA
NPW	EPA 8260	10184802	Dichlorodifluoromethane (Freon-12)	4625	PA
NPW	EPA 8260	10184802	Diethyl ether	4725	PA
NPW	EPA 8260	10184802	Ethyl methacrylate	4810	PA
NPW	EPA 8260	10184802	Ethylbenzene	4765	PA
NPW	EPA 8260	10184802	Hexachlorobutadiene	4835	PA
NPW	EPA 8260	10184802	Iodomethane (Methyl iodide)	4870	PA
NPW	EPA 8260	10184802	Isobutyl alcohol (2-Methyl-1-propanol)	4875	PA
NPW	EPA 8260	10184802	Isopropyl alcohol (2-Propanol, Isopropanol)	4895	PA
NPW	EPA 8260	10184802	Isopropylbenzene	4900	PA

NPW	EPA 8260	10184802	m+p-xylene	5240	PA
NPW	EPA 8260	10184802	Methacrylonitrile	4925	PA
NPW	EPA 8260	10184802	Methyl acetate	4940	PA
NPW	EPA 8260	10184802	Methyl bromide (Bromomethane)	4950	PA
NPW	EPA 8260	10184802	Methyl chloride (Chloromethane)	4960	PA
NPW	EPA 8260	10184802	Methyl methacrylate	4990	PA
NPW	EPA 8260	10184802	Methyl tert-butyl ether (MTBE)	5000	PA
NPW	EPA 8260	10184802	Methylcyclohexane	4965	PA
NPW	EPA 8260	10184802	Methylene chloride (Dichloromethane)	4975	PA
NPW	EPA 8260	10184802	n-Butylbenzene	4435	PA
NPW	EPA 8260	10184802	n-Propylbenzene	5090	PA
NPW	EPA 8260	10184802	Naphthalene	5005	PA
NPW	EPA 8260	10184802	o-Xylene	5250	PA
NPW	EPA 8260	10184802	Propionitrile (Ethyl cyanide)	5080	PA
NPW	EPA 8260	10184802	sec-Butylbenzene	4440	PA
NPW	EPA 8260	10184802	Styrene	5100	PA
NPW	EPA 8260	10184802	tert-Butyl alcohol (2-Methyl-2-Propanol)	4420	PA
NPW	EPA 8260	10184802	tert-Butylbenzene	4445	PA
NPW	EPA 8260	10184802	Tetrachloroethylene (Perchloroethylene)	5115	PA
NPW	EPA 8260	10184802	Toluene	5140	PA
NPW	EPA 8260	10184802	Total Trihalomethanes (TTHMs)	5205	PA
NPW	EPA 8260	10184802	Total Xylene	5260	PA
NPW	EPA 8260	10184802	trans-1,2-Dichloroethylene	4700	PA
NPW	EPA 8260	10184802	trans-1,3-Dichloropropylene	4685	PA
NPW	EPA 8260	10184802	trans-1,4-Dichloro-2-butene	4605	PA
NPW	EPA 8260	10184802	Trichloroethene (Trichloroethylene)	5170	PA
NPW	EPA 8260	10184802	Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	5175	PA
NPW	EPA 8260	10184802	Vinyl acetate	5225	PA
NPW	EPA 8260	10184802	Vinyl chloride (Chloroethene)	5235	PA
NPW	EPA 8270	10186002	1,2,4,5-Tetrachlorobenzene	6715	PA
NPW	EPA 8270	10186002	1,2,4-Trichlorobenzene	5155	PA
NPW	EPA 8270	10186002	1,2-Dichlorobenzene (o-Dichlorobenzene)	4610	PA
NPW	EPA 8270	10186002	1,2-Diphenylhydrazine	6220	PA
NPW	EPA 8270	10186002	1,3,5-Trinitrobenzene (1,3,5-TNB)	6885	PA
NPW	EPA 8270	10186002	1,3-Dichlorobenzene (m-Dichlorobenzene)	4615	PA
NPW	EPA 8270	10186002	1,3-Dinitrobenzene (1,3-DNB)	6160	PA
NPW	EPA 8270	10186002	1,4-Dichlorobenzene (p-	4620	PA

			Dichlorobenzene)		
NPW	EPA 8270	10186002	1,4-Dinitrobenzene (1,4-DNB)	6165	PA
NPW	EPA 8270	10186002	1,4-Naphthoquinone	6420	PA
NPW	EPA 8270	10186002	1,4-Phenylenediamine	6630	PA
NPW	EPA 8270	10186002	1-Naphthylamine	6425	PA
NPW	EPA 8270	10186002	2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether	4659	PA
NPW	EPA 8270	10186002	2,3,4,6-Tetrachlorophenol	6735	PA
NPW	EPA 8270	10186002	2,4,5-Trichlorophenol	6835	PA
NPW	EPA 8270	10186002	2,4,6-Trichlorophenol	6840	PA
NPW	EPA 8270	10186002	2,4-Dichlorophenol	6000	PA
NPW	EPA 8270	10186002	2,4-Dimethylphenol	6130	PA
NPW	EPA 8270	10186002	2,4-Dinitrophenol	6175	PA
NPW	EPA 8270	10186002	2,4-Dinitrotoluene (2,4-DNT)	6185	PA
NPW	EPA 8270	10186002	2,6-Dichlorophenol	6005	PA
NPW	EPA 8270	10186002	2,6-Dinitrotoluene (2,6-DNT)	6190	PA
NPW	EPA 8270	10186002	2-Acetylaminofluorene	5515	PA
NPW	EPA 8270	10186002	2-Chloronaphthalene	5795	PA
NPW	EPA 8270	10186002	2-Chlorophenol	5800	PA
NPW	EPA 8270	10186002	2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	6360	PA
NPW	EPA 8270	10186002	2-Methylaniline (o-Toluidine)	5145	PA
NPW	EPA 8270	10186002	2-Methylnaphthalene	6385	PA
NPW	EPA 8270	10186002	2-Methylphenol (o-Cresol)	6400	PA
NPW	EPA 8270	10186002	2-Naphthylamine	6430	PA
NPW	EPA 8270	10186002	2-Nitroaniline	6460	PA
NPW	EPA 8270	10186002	2-Nitrophenol	6490	PA
NPW	EPA 8270	10186002	2-Picoline (2-Methylpyridine)	5050	PA
NPW	EPA 8270	10186002	3,3'-Dichlorobenzidine	5945	PA
NPW	EPA 8270	10186002	3,3'-Dimethylbenzidine	6120	PA
NPW	EPA 8270	10186002	3-Methylcholanthrene	6355	PA
NPW	EPA 8270	10186002	3-Methylphenol (m-Cresol)	6405	PA
NPW	EPA 8270	10186002	3-Nitroaniline	6465	PA
NPW	EPA 8270	10186002	4,4'-Methylenebis(2-chloroaniline)	6365	PA
NPW	EPA 8270	10186002	4-Aminobiphenyl	5540	PA
NPW	EPA 8270	10186002	4-Bromophenyl phenyl ether (BDE-3)	5660	PA
NPW	EPA 8270	10186002	4-Chloro-3-methylphenol	5700	PA
NPW	EPA 8270	10186002	4-Chloroaniline	5745	PA
NPW	EPA 8270	10186002	4-Chlorophenyl phenylether	5825	PA
NPW	EPA 8270	10186002	4-Dimethyl aminoazobenzene	6105	PA
NPW	EPA 8270	10186002	4-Methylphenol (p-Cresol)	6410	PA

NPW	EPA 8270	10186002	4-Nitroaniline	6470	PA
NPW	EPA 8270	10186002	4-Nitrophenol	6500	PA
NPW	EPA 8270	10186002	4-Nitroquinoline-1-oxide	6510	PA
NPW	EPA 8270	10186002	5-Nitro-o-toluidine	6570	PA
NPW	EPA 8270	10186002	7,12-Dimethylbenz(a)anthracene	6115	PA
NPW	EPA 8270	10186002	Acenaphthene	5500	PA
NPW	EPA 8270	10186002	Acenaphthylene	5505	PA
NPW	EPA 8270	10186002	Acetophenone	5510	PA
NPW	EPA 8270	10186002	Aniline	5545	PA
NPW	EPA 8270	10186002	Anthracene	5555	PA
NPW	EPA 8270	10186002	Aramite	5560	PA
NPW	EPA 8270	10186002	Atrazine	7065	PA
NPW	EPA 8270	10186002	Benzidine	5595	PA
NPW	EPA 8270	10186002	Benzo(a)anthracene	5575	PA
NPW	EPA 8270	10186002	Benzo(a)pyrene	5580	PA
NPW	EPA 8270	10186002	Benzo(g,h,i)perylene	5590	PA
NPW	EPA 8270	10186002	Benzo(k)fluoranthene	5600	PA
NPW	EPA 8270	10186002	Benzoic acid	5610	PA
NPW	EPA 8270	10186002	Benzo[b]fluoranthene	5585	PA
NPW	EPA 8270	10186002	Benzyl alcohol	5630	PA
NPW	EPA 8270	10186002	Biphenyl	5640	PA
NPW	EPA 8270	10186002	bis(2-Chloroethoxy)methane	5760	PA
NPW	EPA 8270	10186002	bis(2-Chloroethyl) ether	5765	PA
NPW	EPA 8270	10186002	Butyl benzyl phthalate	5670	PA
NPW	EPA 8270	10186002	Caprolactam	7180	PA
NPW	EPA 8270	10186002	Carbazole	5680	PA
NPW	EPA 8270	10186002	Chlorobenzilate	7260	PA
NPW	EPA 8270	10186002	Chrysene	5855	PA
NPW	EPA 8270	10186002	Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	6065	PA
NPW	EPA 8270	10186002	Di-n-butyl phthalate	5925	PA
NPW	EPA 8270	10186002	Di-n-octyl phthalate	6200	PA
NPW	EPA 8270	10186002	Diallate	7405	PA
NPW	EPA 8270	10186002	Dibenz(a,h) anthracene	5895	PA
NPW	EPA 8270	10186002	Dibenzofuran	5905	PA
NPW	EPA 8270	10186002	Diethyl phthalate	6070	PA
NPW	EPA 8270	10186002	Dimethoate	7475	PA
NPW	EPA 8270	10186002	Dimethyl phthalate	6135	PA
NPW	EPA 8270	10186002	Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	8620	PA
NPW	EPA 8270	10186002	Disulfoton	8625	PA

NPW	EPA 8270	10186002	Ethyl methanesulfonate	6260	PA
NPW	EPA 8270	10186002	Famphur	7580	PA
NPW	EPA 8270	10186002	Fluoranthene	6265	PA
NPW	EPA 8270	10186002	Fluorene	6270	PA
NPW	EPA 8270	10186002	Hexachlorobenzene	6275	PA
NPW	EPA 8270	10186002	Hexachlorobutadiene	4835	PA
NPW	EPA 8270	10186002	Hexachlorocyclopentadiene	6285	PA
NPW	EPA 8270	10186002	Hexachloroethane	4840	PA
NPW	EPA 8270	10186002	Hexachloropropene	6295	PA
NPW	EPA 8270	10186002	Indeno(1,2,3-cd) pyrene	6315	PA
NPW	EPA 8270	10186002	Isodrin	7725	PA
NPW	EPA 8270	10186002	Isophorone	6320	PA
NPW	EPA 8270	10186002	Isosafrole	6325	PA
NPW	EPA 8270	10186002	Kepone	7740	PA
NPW	EPA 8270	10186002	Methapyrilene	6345	PA
NPW	EPA 8270	10186002	Methyl methanesulfonate	6375	PA
NPW	EPA 8270	10186002	Methyl parathion (Parathion, methyl)	7825	PA
NPW	EPA 8270	10186002	n-Nitroso-di-n-butylamine	5025	PA
NPW	EPA 8270	10186002	n-Nitrosodi-n-propylamine	6545	PA
NPW	EPA 8270	10186002	n-Nitrosodiethylamine	6525	PA
NPW	EPA 8270	10186002	n-Nitrosodimethylamine	6530	PA
NPW	EPA 8270	10186002	n-Nitrosodiphenylamine	6535	PA
NPW	EPA 8270	10186002	n-Nitrosomethylethylamine	6550	PA
NPW	EPA 8270	10186002	n-Nitrosomorpholine	6555	PA
NPW	EPA 8270	10186002	n-Nitrosopiperidine	6560	PA
NPW	EPA 8270	10186002	n-Nitrosopyrrolidine	6565	PA
NPW	EPA 8270	10186002	Naphthalene	5005	PA
NPW	EPA 8270	10186002	Nitrobenzene	5015	PA
NPW	EPA 8270	10186002	o,o,o-Triethyl phosphorothioate	8290	PA
NPW	EPA 8270	10186002	Parathion, ethyl	7955	PA
NPW	EPA 8270	10186002	Pentachlorobenzene	6590	PA
NPW	EPA 8270	10186002	Pentachloronitrobenzene	6600	PA
NPW	EPA 8270	10186002	Pentachlorophenol	6605	PA
NPW	EPA 8270	10186002	Phenacetin	6610	PA
NPW	EPA 8270	10186002	Phenanthrene	6615	PA
NPW	EPA 8270	10186002	Phenol	6625	PA
NPW	EPA 8270	10186002	Phorate	7985	PA
NPW	EPA 8270	10186002	Pronamide (Kerb)	6650	PA
NPW	EPA 8270	10186002	Pyrene	6665	PA
NPW	EPA 8270	10186002	Pyridine	5095	PA

NPW	EPA 8270	10186002	Safrole	6685	PA
NPW	EPA 8270	10186002	Sulfotep (Tetraethyl dithiopyrophospahte)	8155	PA
NPW	EPA 8270	10186002	Thionazin (Zinophos)	8235	PA
NPW	EPA 9014	10193803	Cyanide	1635	PA
NPW	EPA 9034	10196006	Sulfide	2005	PA
NPW	EPA 9040	10197203	pH	1900	PA
NPW	EPA 9050	10198808	Conductivity	1610	PA
NPW	EPA 9056	10199607	Bromide	1540	PA
NPW	EPA 9056	10199607	Chloride	1575	PA
NPW	EPA 9056	10199607	Fluoride	1730	PA
NPW	EPA 9056	10199607	Nitrate as N	1810	PA
NPW	EPA 9056	10199607	Nitrite as N	1840	PA
NPW	EPA 9056	10199607	Sulfate	2000	PA
NPW	EPA 9060	10200201	Total Organic Carbon (TOC)	2040	PA
NPW	EPA 9065	10200405	Total Phenolics	1905	PA
NPW	EPA 9070	10201000	Hexane Extractable Material - Silica Gel Treated (HEM-SGT)	6142	PA
NPW	EPA 9070	10201000	n-Hexane Extractable Material (O&G)	1803	PA
NPW	OIA 1677	60031405	Amenable Cyanide	1510	PA
NPW	SM 2120 B	20223807	Color	1605	PA
NPW	SM 2310 B	20002806	Acidity, as CaCO3	1500	PA
NPW	SM 2320 B	20045005	Alkalinity as CaCO3	1505	PA
NPW	SM 2510 B	20048004	Conductivity	1610	PA
NPW	SM 2540 B	20004608	Residue-total (TS)	1950	PA
NPW	SM 2540 C	20049803	Residue-filterable (TDS)	1955	PA
NPW	SM 2540 D	20004802	Residue-nonfilterable (TSS)	1960	PA
NPW	SM 2540 F	20005009	Residue-settleable	1965	PA
NPW	SM 3500-Cr B	20066266	Chromium (VI)	1045	PA
NPW	SM 4500-Cl G	20020604	Total Residual Chlorine	1940	PA
NPW	SM 4500-CN^- C	20020808	Total Cyanide	1645	PA
NPW	SM 4500-CN^- E	20021209	Total Cyanide	1645	PA
NPW	SM 4500-H+ B	20104603	pH	1900	PA
NPW	SM 4500-O G	20025405	Oxygen, dissolved	1880	PA
NPW	SM 4500-$S2^-$ F	20126209	Sulfide	2005	PA
NPW	SM 5210 B	20027401	Biochemical Oxygen Demand (BOD)	1530	PA
NPW	SM 5210 B	20027401	Carbonaceous BOD (CBOD)	1555	PA
NPW	SM 5310 C	20138209	Total Organic Carbon (TOC)	2040	PA
NPW	SM 5540 C	20144405	Surfactants - MBAS	2025	PA
S	EPA 1010	10234807	Ignitability	1780	PA
S	EPA 1020	10117007	Ignitability	1780	PA

S	EPA 1311	10118806	Toxicity Characteristic Leaching Procedure (TCLP)	1466	PA
S	EPA 1312	10119003	Synthetic Precipitation Leaching Procedure (SPLP)	1460	PA
S	EPA 300.0	10053200	Bromide	1540	PA
S	EPA 300.0	10053200	Chloride	1575	PA
S	EPA 300.0	10053200	Fluoride	1730	PA
S	EPA 300.0	10053200	Nitrate as N	1810	PA
S	EPA 300.0	10053200	Nitrite as N	1840	PA
S	EPA 300.0	10053200	Sulfate	2000	PA
S	EPA 350.1	10063408	Ammonia as N	1515	PA
S	EPA 353.2	10067604	Nitrate plus Nitrite as N	1820	PA
S	EPA 6010	10155905	Aluminum	1000	PA
S	EPA 6010	10155905	Antimony	1005	PA
S	EPA 6010	10155905	Arsenic	1010	PA
S	EPA 6010	10155905	Barium	1015	PA
S	EPA 6010	10155905	Beryllium	1020	PA
S	EPA 6010	10155905	Boron	1025	PA
S	EPA 6010	10155905	Cadmium	1030	PA
S	EPA 6010	10155905	Calcium	1035	PA
S	EPA 6010	10155905	Chromium	1040	PA
S	EPA 6010	10155905	Cobalt	1050	PA
S	EPA 6010	10155905	Copper	1055	PA
S	EPA 6010	10155905	Iron	1070	PA
S	EPA 6010	10155905	Lead	1075	PA
S	EPA 6010	10155905	Lithium	1080	PA
S	EPA 6010	10155905	Magnesium	1085	PA
S	EPA 6010	10155905	Manganese	1090	PA
S	EPA 6010	10155905	Molybdenum	1100	PA
S	EPA 6010	10155905	Nickel	1105	PA
S	EPA 6010	10155905	Potassium	1125	PA
S	EPA 6010	10155905	Selenium	1140	PA
S	EPA 6010	10155905	Silica as SiO2	1990	PA
S	EPA 6010	10155905	Silver	1150	PA
S	EPA 6010	10155905	Sodium	1155	PA
S	EPA 6010	10155905	Strontium	1160	PA
S	EPA 6010	10155905	Thallium	1165	PA
S	EPA 6010	10155905	Tin	1175	PA
S	EPA 6010	10155905	Titanium	1180	PA
S	EPA 6010	10155905	Vanadium	1185	PA
S	EPA 6010	10155905	Zinc	1190	PA

S	EPA 6020	10156419	Aluminum	1000	PA
S	EPA 6020	10156419	Antimony	1005	PA
S	EPA 6020	10156419	Arsenic	1010	PA
S	EPA 6020	10156419	Barium	1015	PA
S	EPA 6020	10156419	Beryllium	1020	PA
S	EPA 6020	10156419	Boron	1025	PA
S	EPA 6020	10156419	Cadmium	1030	PA
S	EPA 6020	10156419	Calcium	1035	PA
S	EPA 6020	10156419	Chromium	1040	PA
S	EPA 6020	10156419	Cobalt	1050	PA
S	EPA 6020	10156419	Copper	1055	PA
S	EPA 6020	10156419	Iron	1070	PA
S	EPA 6020	10156419	Lead	1075	PA
S	EPA 6020	10156419	Lithium	1080	PA
S	EPA 6020	10156419	Magnesium	1085	PA
S	EPA 6020	10156419	Manganese	1090	PA
S	EPA 6020	10156419	Molybdenum	1100	PA
S	EPA 6020	10156419	Nickel	1105	PA
S	EPA 6020	10156419	Potassium	1125	PA
S	EPA 6020	10156419	Selenium	1140	PA
S	EPA 6020	10156419	Silver	1150	PA
S	EPA 6020	10156419	Sodium	1155	PA
S	EPA 6020	10156419	Strontium	1160	PA
S	EPA 6020	10156419	Thallium	1165	PA
S	EPA 6020	10156419	Tin	1175	PA
S	EPA 6020	10156419	Titanium	1180	PA
S	EPA 6020	10156419	Vanadium	1185	PA
S	EPA 6020	10156419	Zinc	1190	PA
S	EPA 7196	10162400	Chromium (VI)	1045	PA
S	EPA 7470	10165807	Mercury	1095	PA
S	EPA 7471	10166457	Mercury	1095	PA
S	EPA 8081	10178800	4,4'-DDD	7355	PA
S	EPA 8081	10178800	4,4'-DDE	7360	PA
S	EPA 8081	10178800	4,4'-DDT	7365	PA
S	EPA 8081	10178800	Aldrin	7025	PA
S	EPA 8081	10178800	alpha-BHC (alpha-Hexachlorocyclohexane)	7110	PA
S	EPA 8081	10178800	beta-BHC (beta-Hexachlorocyclohexane)	7115	PA
S	EPA 8081	10178800	Chlordane (tech.)	7250	PA
S	EPA 8081	10178800	cis-Chlordane (alpha-Chlordane)	7240	PA

S	EPA 8081	10178800	Dacthal (DCPA)	8550	PA
S	EPA 8081	10178800	delta-BHC	7105	PA
S	EPA 8081	10178800	Diallate	7405	PA
S	EPA 8081	10178800	Dieldrin	7470	PA
S	EPA 8081	10178800	Endosulfan I	7510	PA
S	EPA 8081	10178800	Endosulfan II	7515	PA
S	EPA 8081	10178800	Endosulfan sulfate	7520	PA
S	EPA 8081	10178800	Endrin	7540	PA
S	EPA 8081	10178800	Endrin aldehyde	7530	PA
S	EPA 8081	10178800	Endrin ketone	7535	PA
S	EPA 8081	10178800	gamma-BHC (Lindane, gamma-HexachlorocyclohexanE)	7120	PA
S	EPA 8081	10178800	gamma-Chlordane	7245	PA
S	EPA 8081	10178800	Heptachlor	7685	PA
S	EPA 8081	10178800	Heptachlor epoxide	7690	PA
S	EPA 8081	10178800	Hexachlorobenzene	6275	PA
S	EPA 8081	10178800	Isodrin	7725	PA
S	EPA 8081	10178800	Methoxychlor	7810	PA
S	EPA 8081	10178800	Mirex	7870	PA
S	EPA 8081	10178800	Toxaphene (Chlorinated Camphene)	8250	PA
S	EPA 8081	10178800	trans-Nonachlor	7910	PA
S	EPA 8082	10179201	2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl (BZ-206)	9095	PA
S	EPA 8082	10179201	2,2',3,3',4,4',5,6-Octachlorobiphenyl (BZ-195)	9103	PA
S	EPA 8082	10179201	2,2',3,3',4,4',5-Heptachlorobiphenyl (BZ-170)	9065	PA
S	EPA 8082	10179201	2,2',3,3',4,4'-Hexachlorobiphenyl (BZ-128)	9020	PA
S	EPA 8082	10179201	2,2',3,4',5,5',6-Heptachlorobiphenyl (BZ-187)	9080	PA
S	EPA 8082	10179201	2,2',3,4,4',5',6-Heptachlorobiphenyl (BZ-183)	9075	PA
S	EPA 8082	10179201	2,2',3,4,4',5'-Hexachlorobiphenyl (BZ-138)	9025	PA
S	EPA 8082	10179201	2,2',3,4,4',5,5'-Heptachlorobiphenyl (BZ-180)	9134	PA
S	EPA 8082	10179201	2,2',3,4,5'-Pentachlorobiphenyl (BZ-87)	8975	PA
S	EPA 8082	10179201	2,2',3,5'-Tetrachlorobiphenyl (BZ-44)	8945	PA
S	EPA 8082	10179201	2,2',4,4',5,5'-Hexachlorobiphenyl (BZ-153)	9040	PA
S	EPA 8082	10179201	2,2',4,5'-Tetrachlorobiphenyl (BZ-49)	8950	PA

S	EPA 8082	10179201	2,2',4,5,5'-Pentachlorobiphenyl (BZ-101)	8980	PA
S	EPA 8082	10179201	2,2',5,5'-Tetrachlorobiphenyl (BZ-52)	8955	PA
S	EPA 8082	10179201	2,2',5-Trichlorobiphenyl (BZ-18)	8930	PA
S	EPA 8082	10179201	2,3',4,4',5'-Pentachlorobiphenyl (BZ-123)	9000	PA
S	EPA 8082	10179201	2,3',4,4',5,5'-Hexachlorobiphenyl (BZ-167)	9055	PA
S	EPA 8082	10179201	2,3',4,4',5-Pentachlorobiphenyl (BZ-118)	8995	PA
S	EPA 8082	10179201	2,3',4,4'-Tetrachlorobiphenyl (BZ-66)	8960	PA
S	EPA 8082	10179201	2,3,3',4,4',5'-Hexachlorobiphenyl (BZ-157)	9045	PA
S	EPA 8082	10179201	2,3,3',4,4',5,5'-Heptachlorobiphenyl (BZ-189)	9085	PA
S	EPA 8082	10179201	2,3,3',4,4'-Pentachlorobiphenyl (BZ-105)	8985	PA
S	EPA 8082	10179201	2,3,4,4',5-Pentachlorobiphenyl (BZ-114)	9005	PA
S	EPA 8082	10179201	2,4'-Dichlorobiphenyl (BZ-8)	9256	PA
S	EPA 8082	10179201	2,4,4'-Trichlorobiphenyl (BZ-28)	9252	PA
S	EPA 8082	10179201	Aroclor-1016 (PCB-1016)	8880	PA
S	EPA 8082	10179201	Aroclor-1221 (PCB-1221)	8885	PA
S	EPA 8082	10179201	Aroclor-1232 (PCB-1232)	8890	PA
S	EPA 8082	10179201	Aroclor-1242 (PCB-1242)	8895	PA
S	EPA 8082	10179201	Aroclor-1248 (PCB-1248)	8900	PA
S	EPA 8082	10179201	Aroclor-1254 (PCB-1254)	8905	PA
S	EPA 8082	10179201	Aroclor-1260 (PCB-1260)	8910	PA
S	EPA 8082	10179201	Decachlorobiphenyl (BZ-209)	9105	PA
S	EPA 8082	10179201	Total PCBs	8870	PA
S	EPA 8141	10182204	Azinphos-methyl (Guthion)	7075	PA
S	EPA 8141	10182204	Bolstar (Sulprofos)	7125	PA
S	EPA 8141	10182204	Chlorpyrifos	7300	PA
S	EPA 8141	10182204	Coumaphos	7315	PA
S	EPA 8141	10182204	Demeton	7390	PA
S	EPA 8141	10182204	Demeton-o	7395	PA
S	EPA 8141	10182204	Demeton-s	7385	PA
S	EPA 8141	10182204	Diazinon	7410	PA
S	EPA 8141	10182204	Dichlorvos (DDVP)	8610	PA
S	EPA 8141	10182204	Dimethoate	7475	PA
S	EPA 8141	10182204	Disulfoton	8625	PA
S	EPA 8141	10182204	EPN (Phosphonothioic acid,	7550	PA

			phenyl-, O-ethyl O-(p-nitrophenyl) ester)		
S	EPA 8141	10182204	Ethoprop	7570	PA
S	EPA 8141	10182204	Famphur	7580	PA
S	EPA 8141	10182204	Fensulfothion	7600	PA
S	EPA 8141	10182204	Fenthion	7605	PA
S	EPA 8141	10182204	Malathion	7770	PA
S	EPA 8141	10182204	Methyl parathion (Parathion, methyl)	7825	PA
S	EPA 8141	10182204	Mevinphos	7850	PA
S	EPA 8141	10182204	Parathion, ethyl	7955	PA
S	EPA 8141	10182204	Phorate	7985	PA
S	EPA 8141	10182204	Ronnel	8110	PA
S	EPA 8141	10182204	Sulfotep (Tetraethyl dithiopyrophospahte)	8155	PA
S	EPA 8141	10182204	Tetrachlorvinphos (Stirophos, Gardona) E-isomer	8197	PA
S	EPA 8141	10182204	Thionazin (Zinophos)	8235	PA
S	EPA 8141	10182204	Tokuthion (Prothiophos)	8245	PA
S	EPA 8141	10182204	Trichloronate	8275	PA
S	EPA 8151	10183207	2,4,5-T	8655	PA
S	EPA 8151	10183207	2,4-D	8545	PA
S	EPA 8151	10183207	2,4-DB	8560	PA
S	EPA 8151	10183207	Dalapon	8555	PA
S	EPA 8151	10183207	Dicamba	8595	PA
S	EPA 8151	10183207	Dichlorprop	8605	PA
S	EPA 8151	10183207	Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	8620	PA
S	EPA 8151	10183207	MCPA	7775	PA
S	EPA 8151	10183207	MCPP	7780	PA
S	EPA 8151	10183207	Pentachlorophenol	6605	PA
S	EPA 8151	10183207	Silvex (2,4,5-TP)	8650	PA
S	EPA 8260	10184802	1,1,1,2-Tetrachloroethane	5105	PA
S	EPA 8260	10184802	1,1,1-Trichloroethane	5160	PA
S	EPA 8260	10184802	1,1,2,2-Tetrachloroethane	5110	PA
S	EPA 8260	10184802	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5185	PA
S	EPA 8260	10184802	1,1,2-Trichloroethane	5165	PA
S	EPA 8260	10184802	1,1-Dichloroethane	4630	PA
S	EPA 8260	10184802	1,1-Dichloroethylene	4640	PA
S	EPA 8260	10184802	1,1-Dichloropropene	4670	PA
S	EPA 8260	10184802	1,2,3-Trichlorobenzene	5150	PA

S	EPA 8260	10184802	1,2,3-Trichloropropane	5180	PA
S	EPA 8260	10184802	1,2,4-Trichlorobenzene	5155	PA
S	EPA 8260	10184802	1,2,4-Trimethylbenzene	5210	PA
S	EPA 8260	10184802	1,2-Dibromo-3-chloropropane (DBCP)	4570	PA
S	EPA 8260	10184802	1,2-Dibromoethane (EDB, Ethylene dibromide)	4585	PA
S	EPA 8260	10184802	1,2-Dichlorobenzene (o-Dichlorobenzene)	4610	PA
S	EPA 8260	10184802	1,2-Dichloroethane (Ethylene dichloride)	4635	PA
S	EPA 8260	10184802	1,2-Dichloropropane	4655	PA
S	EPA 8260	10184802	1,3,5-Trimethylbenzene	5215	PA
S	EPA 8260	10184802	1,3-Dichlorobenzene (m-Dichlorobenzene)	4615	PA
S	EPA 8260	10184802	1,3-Dichloropropane	4660	PA
S	EPA 8260	10184802	1,4-Dichlorobenzene (p-Dichlorobenzene)	4620	PA
S	EPA 8260	10184802	1,4-Dioxane (1,4- Diethyleneoxide)	4735	PA
S	EPA 8260	10184802	2,2-Dichloropropane	4665	PA
S	EPA 8260	10184802	2-Butanone (Methyl ethyl ketone, MEK)	4410	PA
S	EPA 8260	10184802	2-Chloroethyl vinyl ether	4500	PA
S	EPA 8260	10184802	2-Chlorotoluene	4535	PA
S	EPA 8260	10184802	2-Hexanone	4860	PA
S	EPA 8260	10184802	4-Chlorotoluene	4540	PA
S	EPA 8260	10184802	4-Isopropyltoluene (p-Cymene)	4910	PA
S	EPA 8260	10184802	4-Methyl-2-pentanone (MIBK)	4995	PA
S	EPA 8260	10184802	Acetone	4315	PA
S	EPA 8260	10184802	Acetonitrile	4320	PA
S	EPA 8260	10184802	Acrolein (Propenal)	4325	PA
S	EPA 8260	10184802	Acrylonitrile	4340	PA
S	EPA 8260	10184802	Allyl chloride (3-Chloropropene)	4355	PA
S	EPA 8260	10184802	Benzene	4375	PA
S	EPA 8260	10184802	Benzyl chloride	5635	PA
S	EPA 8260	10184802	Bromobenzene	4385	PA
S	EPA 8260	10184802	Bromochloromethane	4390	PA
S	EPA 8260	10184802	Bromodichloromethane	4395	PA
S	EPA 8260	10184802	Bromoform	4400	PA
S	EPA 8260	10184802	Carbon disulfide	4450	PA
S	EPA 8260	10184802	Carbon tetrachloride	4455	PA
S	EPA 8260	10184802	Chlorobenzene	4475	PA
S	EPA 8260	10184802	Chlorodibromomethane	4575	PA

S	EPA 8260	10184802	Chloroethane (Ethyl chloride)	4485	PA
S	EPA 8260	10184802	Chloroform	4505	PA
S	EPA 8260	10184802	Chloroprene (2-Chloro-1,3-butadiene)	4525	PA
S	EPA 8260	10184802	cis-1,2-Dichloroethylene	4645	PA
S	EPA 8260	10184802	cis-1,3-Dichloropropene	4680	PA
S	EPA 8260	10184802	Dibromomethane (Methylene bromide)	4595	PA
S	EPA 8260	10184802	Dichlorodifluoromethane (Freon-12)	4625	PA
S	EPA 8260	10184802	Diethyl ether	4725	PA
S	EPA 8260	10184802	Ethyl methacrylate	4810	PA
S	EPA 8260	10184802	Ethylbenzene	4765	PA
S	EPA 8260	10184802	Hexachlorobutadiene	4835	PA
S	EPA 8260	10184802	Iodomethane (Methyl iodide)	4870	PA
S	EPA 8260	10184802	Isobutyl alcohol (2-Methyl-1-propanol)	4875	PA
S	EPA 8260	10184802	Isopropyl alcohol (2-Propanol, Isopropanol)	4895	PA
S	EPA 8260	10184802	Isopropylbenzene	4900	PA
S	EPA 8260	10184802	m+p-xylene	5240	PA
S	EPA 8260	10184802	Methacrylonitrile	4925	PA
S	EPA 8260	10184802	Methyl acetate	4940	PA
S	EPA 8260	10184802	Methyl bromide (Bromomethane)	4950	PA
S	EPA 8260	10184802	Methyl chloride (Chloromethane)	4960	PA
S	EPA 8260	10184802	Methyl methacrylate	4990	PA
S	EPA 8260	10184802	Methyl tert-butyl ether (MTBE)	5000	PA
S	EPA 8260	10184802	Methylcyclohexane	4965	PA
S	EPA 8260	10184802	Methylene chloride (Dichloromethane)	4975	PA
S	EPA 8260	10184802	n-Butylbenzene	4435	PA
S	EPA 8260	10184802	n-Propylbenzene	5090	PA
S	EPA 8260	10184802	Naphthalene	5005	PA
S	EPA 8260	10184802	o-Xylene	5250	PA
S	EPA 8260	10184802	Propionitrile (Ethyl cyanide)	5080	PA
S	EPA 8260	10184802	sec-Butylbenzene	4440	PA
S	EPA 8260	10184802	Styrene	5100	PA
S	EPA 8260	10184802	tert-Butyl alcohol (2-Methyl-2-Propanol)	4420	PA
S	EPA 8260	10184802	tert-Butylbenzene	4445	PA
S	EPA 8260	10184802	Tetrachloroethylene (Perchloroethylene)	5115	PA
S	EPA 8260	10184802	Toluene	5140	PA
S	EPA 8260	10184802	Total Xylene	5260	PA

S	EPA 8260	10184802	trans-1,2-Dichloroethylene	4700	PA
S	EPA 8260	10184802	trans-1,3-Dichloropropylene	4685	PA
S	EPA 8260	10184802	trans-1,4-Dichloro-2-butene	4605	PA
S	EPA 8260	10184802	Trichloroethene (Trichloroethylene)	5170	PA
S	EPA 8260	10184802	Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	5175	PA
S	EPA 8260	10184802	Vinyl acetate	5225	PA
S	EPA 8260	10184802	Vinyl chloride (Chloroethene)	5235	PA
S	EPA 8270	10186002	1,2,4,5-Tetrachlorobenzene	6715	PA
S	EPA 8270	10186002	1,2,4-Trichlorobenzene	5155	PA
S	EPA 8270	10186002	1,2-Dichlorobenzene (o-Dichlorobenzene)	4610	PA
S	EPA 8270	10186002	1,2-Diphenylhydrazine	6220	PA
S	EPA 8270	10186002	1,3,5-Trinitrobenzene (1,3,5-TNB)	6885	PA
S	EPA 8270	10186002	1,3-Dichlorobenzene (m-Dichlorobenzene)	4615	PA
S	EPA 8270	10186002	1,3-Dinitrobenzene (1,3-DNB)	6160	PA
S	EPA 8270	10186002	1,4-Dichlorobenzene (p-Dichlorobenzene)	4620	PA
S	EPA 8270	10186002	1,4-Dinitrobenzene (1,4-DNB)	6165	PA
S	EPA 8270	10186002	1,4-Naphthoquinone	6420	PA
S	EPA 8270	10186002	1,4-Phenylenediamine	6630	PA
S	EPA 8270	10186002	1-Chloronaphthalene	5790	PA
S	EPA 8270	10186002	1-Naphthylamine	6425	PA
S	EPA 8270	10186002	2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether	4659	PA
S	EPA 8270	10186002	2,3,4,6-Tetrachlorophenol	6735	PA
S	EPA 8270	10186002	2,4,5-Trichlorophenol	6835	PA
S	EPA 8270	10186002	2,4,6-Trichlorophenol	6840	PA
S	EPA 8270	10186002	2,4-Dichlorophenol	6000	PA
S	EPA 8270	10186002	2,4-Dimethylphenol	6130	PA
S	EPA 8270	10186002	2,4-Dinitrophenol	6175	PA
S	EPA 8270	10186002	2,4-Dinitrotoluene (2,4-DNT)	6185	PA
S	EPA 8270	10186002	2,6-Dichlorophenol	6005	PA
S	EPA 8270	10186002	2,6-Dinitrotoluene (2,6-DNT)	6190	PA
S	EPA 8270	10186002	2-Acetylaminofluorene	5515	PA
S	EPA 8270	10186002	2-Chloronaphthalene	5795	PA
S	EPA 8270	10186002	2-Chlorophenol	5800	PA
S	EPA 8270	10186002	2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	6360	PA
S	EPA 8270	10186002	2-Methylaniline (o-Toluidine)	5145	PA
S	EPA 8270	10186002	2-Methylnaphthalene	6385	PA
S	EPA 8270	10186002	2-Methylphenol (o-Cresol)	6400	PA

S	EPA 8270	10186002	2-Naphthylamine	6430	PA
S	EPA 8270	10186002	2-Nitroaniline	6460	PA
S	EPA 8270	10186002	2-Nitrophenol	6490	PA
S	EPA 8270	10186002	2-Picoline (2-Methylpyridine)	5050	PA
S	EPA 8270	10186002	3,3'-Dichlorobenzidine	5945	PA
S	EPA 8270	10186002	3,3'-Dimethylbenzidine	6120	PA
S	EPA 8270	10186002	3-Methylcholanthrene	6355	PA
S	EPA 8270	10186002	3-Methylphenol (m-Cresol)	6405	PA
S	EPA 8270	10186002	3-Nitroaniline	6465	PA
S	EPA 8270	10186002	4,4'-Methylenebis(2-chloroaniline)	6365	PA
S	EPA 8270	10186002	4-Aminobiphenyl	5540	PA
S	EPA 8270	10186002	4-Bromophenyl phenyl ether (BDE-3)	5660	PA
S	EPA 8270	10186002	4-Chloro-3-methylphenol	5700	PA
S	EPA 8270	10186002	4-Chloroaniline	5745	PA
S	EPA 8270	10186002	4-Chlorophenyl phenylether	5825	PA
S	EPA 8270	10186002	4-Dimethyl aminoazobenzene	6105	PA
S	EPA 8270	10186002	4-Methylphenol (p-Cresol)	6410	PA
S	EPA 8270	10186002	4-Nitroaniline	6470	PA
S	EPA 8270	10186002	4-Nitrophenol	6500	PA
S	EPA 8270	10186002	4-Nitroquinoline-1-oxide	6510	PA
S	EPA 8270	10186002	5-Nitro-o-toluidine	6570	PA
S	EPA 8270	10186002	7,12-Dimethylbenz(a)anthracene	6115	PA
S	EPA 8270	10186002	Acenaphthene	5500	PA
S	EPA 8270	10186002	Acenaphthylene	5505	PA
S	EPA 8270	10186002	Acetophenone	5510	PA
S	EPA 8270	10186002	Aniline	5545	PA
S	EPA 8270	10186002	Anthracene	5555	PA
S	EPA 8270	10186002	Aramite	5560	PA
S	EPA 8270	10186002	Atrazine	7065	PA
S	EPA 8270	10186002	Benzidine	5595	PA
S	EPA 8270	10186002	Benzo(a)anthracene	5575	PA
S	EPA 8270	10186002	Benzo(a)pyrene	5580	PA
S	EPA 8270	10186002	Benzo(g,h,i)perylene	5590	PA
S	EPA 8270	10186002	Benzo(k)fluoranthene	5600	PA
S	EPA 8270	10186002	Benzoic acid	5610	PA
S	EPA 8270	10186002	Benzo[b]fluoranthene	5585	PA
S	EPA 8270	10186002	Benzyl alcohol	5630	PA
S	EPA 8270	10186002	Biphenyl	5640	PA
S	EPA 8270	10186002	bis(2-Chloroethoxy)methane	5760	PA
S	EPA 8270	10186002	bis(2-Chloroethyl) ether	5765	PA

S	EPA 8270	10186002	Butyl benzyl phthalate	5670	PA
S	EPA 8270	10186002	Caprolactam	7180	PA
S	EPA 8270	10186002	Carbazole	5680	PA
S	EPA 8270	10186002	Chlorobenzilate	7260	PA
S	EPA 8270	10186002	Chrysene	5855	PA
S	EPA 8270	10186002	Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	6065	PA
S	EPA 8270	10186002	Di-n-butyl phthalate	5925	PA
S	EPA 8270	10186002	Di-n-octyl phthalate	6200	PA
S	EPA 8270	10186002	Diallate	7405	PA
S	EPA 8270	10186002	Dibenz(a,h) anthracene	5895	PA
S	EPA 8270	10186002	Dibenzofuran	5905	PA
S	EPA 8270	10186002	Diethyl phthalate	6070	PA
S	EPA 8270	10186002	Dimethoate	7475	PA
S	EPA 8270	10186002	Dimethyl phthalate	6135	PA
S	EPA 8270	10186002	Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	8620	PA
S	EPA 8270	10186002	Disulfoton	8625	PA
S	EPA 8270	10186002	Ethyl methanesulfonate	6260	PA
S	EPA 8270	10186002	Famphur	7580	PA
S	EPA 8270	10186002	Fluoranthene	6265	PA
S	EPA 8270	10186002	Fluorene	6270	PA
S	EPA 8270	10186002	Hexachlorobenzene	6275	PA
S	EPA 8270	10186002	Hexachlorobutadiene	4835	PA
S	EPA 8270	10186002	Hexachlorocyclopentadiene	6285	PA
S	EPA 8270	10186002	Hexachloroethane	4840	PA
S	EPA 8270	10186002	Hexachloropropene	6295	PA
S	EPA 8270	10186002	Indeno(1,2,3-cd) pyrene	6315	PA
S	EPA 8270	10186002	Isodrin	7725	PA
S	EPA 8270	10186002	Isophorone	6320	PA
S	EPA 8270	10186002	Isosafrole	6325	PA
S	EPA 8270	10186002	Kepone	7740	PA
S	EPA 8270	10186002	Methapyrilene	6345	PA
S	EPA 8270	10186002	Methyl methanesulfonate	6375	PA
S	EPA 8270	10186002	Methyl parathion (Parathion, methyl)	7825	PA
S	EPA 8270	10186002	n-Nitroso-di-n-butylamine	5025	PA
S	EPA 8270	10186002	n-Nitrosodi-n-propylamine	6545	PA
S	EPA 8270	10186002	n-Nitrosodiethylamine	6525	PA
S	EPA 8270	10186002	n-Nitrosodimethylamine	6530	PA
S	EPA 8270	10186002	n-Nitrosodiphenylamine	6535	PA
S	EPA 8270	10186002	n-Nitrosomethylethylamine	6550	PA

S	EPA 8270	10186002	n-Nitrosomorpholine	6555	PA
S	EPA 8270	10186002	n-Nitrosopiperidine	6560	PA
S	EPA 8270	10186002	n-Nitrosopyrrolidine	6565	PA
S	EPA 8270	10186002	Naphthalene	5005	PA
S	EPA 8270	10186002	Nitrobenzene	5015	PA
S	EPA 8270	10186002	o,o,o-Triethyl phosphorothioate	8290	PA
S	EPA 8270	10186002	Parathion, ethyl	7955	PA
S	EPA 8270	10186002	Pentachlorobenzene	6590	PA
S	EPA 8270	10186002	Pentachloronitrobenzene	6600	PA
S	EPA 8270	10186002	Pentachlorophenol	6605	PA
S	EPA 8270	10186002	Phenacetin	6610	PA
S	EPA 8270	10186002	Phenanthrene	6615	PA
S	EPA 8270	10186002	Phenol	6625	PA
S	EPA 8270	10186002	Phorate	7985	PA
S	EPA 8270	10186002	Pronamide (Kerb)	6650	PA
S	EPA 8270	10186002	Pyrene	6665	PA
S	EPA 8270	10186002	Pyridine	5095	PA
S	EPA 8270	10186002	Safrole	6685	PA
S	EPA 8270	10186002	Sulfotep (Tetraethyl dithiopyrophospahte)	8155	PA
S	EPA 8270	10186002	Thionazin (Zinophos)	8235	PA
S	EPA 8270	10186002	Total Cresols	5862	PA
S	EPA 9014	10193803	Cyanide	1635	PA
S	EPA 9034	10196006	Sulfide	2005	PA
S	EPA 9040	10244403	Corrosivity	1615	PA
S	EPA 9040	10244403	pH	1900	PA
S	EPA 9045	10198455	Corrosivity	1615	PA
S	EPA 9045	10198455	pH	1900	PA
S	EPA 9056	10199607	Bromide	1540	PA
S	EPA 9056	10199607	Chloride	1575	PA
S	EPA 9056	10199607	Fluoride	1730	PA
S	EPA 9056	10199607	Nitrate as N	1810	PA
S	EPA 9056	10199607	Nitrite as N	1840	PA
S	EPA 9056	10199607	Sulfate	2000	PA
S	EPA 9065	10200405	Total Phenolics	1905	PA
S	EPA 9071	10201806	Hexane Extractable Material - Silica Gel Treated (HEM-SGT)	6142	PA
S	EPA 9071	10201806	n-Hexane Extractable Material (O&G)	1803	PA
S	EPA 9095	10204203	Paint Filter Test	1434	PA
S	SM 2540 G	20005203	Residue-total (TS)	1950	PA

Texas Commission on Environmental Quality

NELAP-Recognized Laboratory Accreditation is hereby awarded to

Eurofins Savannah

5102 LaRoche Avenue
Savannah, GA 31404-6019

in accordance with Texas Water Code Chapter 5, Subchapter R, Title 30 Texas Administrative Code Chapter 25, and the National Environmental Laboratory Accreditation Program.

The laboratory's scope of accreditation includes the fields of accreditation that accompany this certificate. Continued accreditation depends upon successful ongoing participation in the program. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current location(s) and accreditation status for particular methods and analyses (www.tceq.texas.gov/goto/lab). Accreditation does not imply that a product, process, system or person is approved by the Texas Commission on Environmental Quality.

Certificate Number: T104704185-23-22
Effective Date: 12/1/2023
Expiration Date: 11/30/2024

Executive Director Texas Commission on Environmental Quality

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

Certificate: T104704185-23-22

Eurofins Savannah

Expiration Date: 11/30/2024

5102 LaRoche Avenue
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Issue Date: 12/1/2023

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Matrix: ***Drinking Water***

Method EPA 160.1

Analyte	AB	Analyte ID	Method ID
Residue-filterable (TDS)	FL	1955	10009208

Method EPA 200.7

Analyte	AB	Analyte ID	Method ID
Aluminum	FL	1000	10013806
Barium	FL	1015	10013806
Beryllium	FL	1020	10013806
Boron	FL	1025	10013806
Cadmium	FL	1030	10013806
Chromium	FL	1040	10013806
Copper	FL	1055	10013806
Iron	FL	1070	10013806
Magnesium	FL	1085	10013806
Manganese	FL	1090	10013806
Molybdenum	FL	1100	10013806
Nickel	FL	1105	10013806
Potassium	FL	1125	10013806
Silica as SiO2	FL	1990	10013806
Silver	FL	1150	10013806
Sodium	FL	1155	10013806
Vanadium	FL	1185	10013806
Zinc	FL	1190	10013806

Method EPA 200.8

Analyte	AB	Analyte ID	Method ID
Aluminum	FL	1000	10014605
Antimony	FL	1005	10014605
Arsenic	FL	1010	10014605
Barium	FL	1015	10014605
Beryllium	FL	1020	10014605
Cadmium	FL	1030	10014605

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Matrix: ***Drinking Water***

Chromium	FL	1040	10014605
Copper	FL	1055	10014605
Lead	FL	1075	10014605
Manganese	FL	1090	10014605
Mercury	FL	1095	10014605
Nickel	FL	1105	10014605
Selenium	FL	1140	10014605
Silver	FL	1150	10014605
Thallium	FL	1165	10014605
Zinc	FL	1190	10014605

Method EPA 245.1

Analyte	**AB**	**Analyte ID**	**Method ID**
Mercury	FL	1095	10036609

Method EPA 300.0

Analyte	**AB**	**Analyte ID**	**Method ID**
Chloride	FL	1575	10053200
Fluoride	FL	1730	10053200
Nitrate as N	FL	1810	10053200
Nitrite as N	FL	1840	10053200
Sulfate	FL	2000	10053200

Method EPA 300.1

Analyte	**AB**	**Analyte ID**	**Method ID**
Bromate	FL	1535	10275602
Bromide	FL	1540	10275602
Chlorate	FL	1570	10275602
Chlorite	FL	1595	10275602

Method EPA 335.4

Analyte	**AB**	**Analyte ID**	**Method ID**
Total cyanide	FL	1645	10061402

Method EPA 353.2

Analyte	**AB**	**Analyte ID**	**Method ID**

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Matrix: ***Drinking Water***

Nitrate as N	FL	1810	10067604
Nitrite as N	FL	1840	10067604

Method EPA 375.4

Analyte	**AB**	**Analyte ID**	**Method ID**
Sulfate	FL	2000	10073800

Method EPA 504.1

Analyte	**AB**	**Analyte ID**	**Method ID**
1,2-Dibromo-3-chloropropane (DBCP)	FL	4570	10082801
1,2-Dibromoethane (EDB, Ethylene dibromide)	FL	4585	10082801

Method EPA 524.2

Analyte	**AB**	**Analyte ID**	**Method ID**
1,1,1-Trichloroethane	FL	5160	10088809
1,1,2-Trichloroethane	FL	5165	10088809
1,1-Dichloroethylene	FL	4640	10088809
1,2,4-Trichlorobenzene	FL	5155	10088809
1,2-Dichlorobenzene	FL	4610	10088809
1,2-Dichloroethane (Ethylene dichloride)	FL	4635	10088809
1,2-Dichloropropane	FL	4655	10088809
1,4-Dichlorobenzene	FL	4620	10088809
Benzene	FL	4375	10088809
Carbon tetrachloride	FL	4455	10088809
Chlorobenzene	FL	4475	10088809
cis-1,2-Dichloroethylene	FL	4645	10088809
Ethylbenzene	FL	4765	10088809
m+p-xylene	FL	5240	10088809
Methylene chloride (Dichloromethane)	FL	4975	10088809
o-Xylene	FL	5250	10088809
Styrene	FL	5100	10088809
Tetrachloroethylene (Perchloroethylene)	FL	5115	10088809
Toluene	FL	5140	10088809
Total trihalomethanes	FL	5205	10088809

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Matrix: ***Drinking Water***

trans-1,2-Dichloroethylene	FL	4700	10088809
Trichloroethene (Trichloroethylene)	FL	5170	10088809
Vinyl chloride	FL	5235	10088809
Xylene (total)	FL	5260	10088809

Method SM 2510 B

Analyte	**AB**	**Analyte ID**	**Method ID**
Conductivity	FL	1610	20048004

Method SM 2540 C

Analyte	**AB**	**Analyte ID**	**Method ID**
Residue-filterable (TDS)	FL	1955	20049803

Method SM 4500-CN^- C,E

Analyte	**AB**	**Analyte ID**	**Method ID**
Total cyanide	FL	1645	20092404

Method SM 4500-CN^- C,G

Analyte	**AB**	**Analyte ID**	**Method ID**
Amenable cyanide	FL	1510	20093203

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Matrix: ***Non-Potable Water***

Method EPA 110.2

Analyte	AB	Analyte ID	Method ID
Color	FL	1605	10005604

Method EPA 120.1

Analyte	AB	Analyte ID	Method ID
Conductivity	FL	1610	10006403

Method EPA 150.1

Analyte	AB	Analyte ID	Method ID
pH	FL	1900	10008409

Method EPA 160.1

Analyte	AB	Analyte ID	Method ID
Residue-filterable (TDS)	FL	1955	10009208

Method EPA 160.2

Analyte	AB	Analyte ID	Method ID
Residue-nonfilterable (TSS)	FL	1960	10009606

Method EPA 160.3

Analyte	AB	Analyte ID	Method ID
Residue-total (total solids)	FL	1950	10010001

Method EPA 160.5

Analyte	AB	Analyte ID	Method ID
Residue-settleable	FL	1965	10010807

Method EPA 1664

Analyte	AB	Analyte ID	Method ID
n-Hexane Extractable Material (HEM) (O&G)	FL	1803	10127807
Silica Gel Treated n-Hexane Extractable Material (SGT-HEM)	FL	10220	10127807

Method EPA 1666

Analyte	AB	Analyte ID	Method ID
Butyl acetate	FL	4403	10128208
Ethyl acetate	FL	4755	10128208
Isopropyl acetate	FL	4890	10128208
n-Amyl acetate	FL	4360	10128208

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Matrix: ***Non-Potable Water***

Method EPA 180.1

Analyte	AB	Analyte ID	Method ID
Turbidity	FL	2055	10011606

Method EPA 200.7

Analyte	AB	Analyte ID	Method ID
Aluminum	FL	1000	10013806
Antimony	FL	1005	10013806
Arsenic	FL	1010	10013806
Barium	FL	1015	10013806
Beryllium	FL	1020	10013806
Boron	FL	1025	10013806
Cadmium	FL	1030	10013806
Calcium	FL	1035	10013806
Chromium	FL	1040	10013806
Cobalt	FL	1050	10013806
Copper	FL	1055	10013806
Iron	FL	1070	10013806
Lead	FL	1075	10013806
Magnesium	FL	1085	10013806
Manganese	FL	1090	10013806
Molybdenum	FL	1100	10013806
Nickel	FL	1105	10013806
Potassium	FL	1125	10013806
Selenium	FL	1140	10013806
Silica as SiO2	FL	1990	10013806
Silver	FL	1150	10013806
Sodium	FL	1155	10013806
Strontium	FL	1160	10013806
Thallium	FL	1165	10013806
Tin	FL	1175	10013806
Titanium	FL	1180	10013806

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Matrix: ***Non-Potable Water***

Vanadium	FL	1185	10013806
Zinc	FL	1190	10013806

Method EPA 200.8

Analyte	AB	Analyte ID	Method ID
Aluminum	FL	1000	10014605
Antimony	FL	1005	10014605
Arsenic	FL	1010	10014605
Barium	FL	1015	10014605
Beryllium	FL	1020	10014605
Cadmium	FL	1030	10014605
Chromium	FL	1040	10014605
Cobalt	FL	1050	10014605
Copper	FL	1055	10014605
Lead	FL	1075	10014605
Manganese	FL	1090	10014605
Molybdenum	FL	1100	10014605
Nickel	FL	1105	10014605
Selenium	FL	1140	10014605
Silver	FL	1150	10014605
Thallium	FL	1165	10014605
Vanadium	FL	1185	10014605
Zinc	FL	1190	10014605

Method EPA 245.1

Analyte	AB	Analyte ID	Method ID
Mercury	FL	1095	10036609

Method EPA 300.0

Analyte	AB	Analyte ID	Method ID
Bromide	FL	1540	10053200
Chloride	FL	1575	10053200
Fluoride	FL	1730	10053200
Nitrate as N	FL	1810	10053200

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Matrix: ***Non-Potable Water***

Nitrate-nitrite	FL	1820	10053200
Nitrite as N	FL	1840	10053200
Sulfate	FL	2000	10053200

Method EPA 310.1

Analyte	AB	Analyte ID	Method ID
Alkalinity as CaCO3	FL	1505	10054805

Method EPA 325.2

Analyte	AB	Analyte ID	Method ID
Chloride	FL	1575	10057202

Method EPA 330.3

Analyte	AB	Analyte ID	Method ID
Total residual chlorine	FL	1940	10058807

Method EPA 335.1

Analyte	AB	Analyte ID	Method ID
Amenable cyanide	FL	1510	10060001

Method EPA 335.4

Analyte	AB	Analyte ID	Method ID
Total cyanide	FL	1645	10061402

Method EPA 350.1

Analyte	AB	Analyte ID	Method ID
Ammonia as N	FL	1515	10063408

Method EPA 351.2

Analyte	AB	Analyte ID	Method ID
Kjeldahl Nitrogen (Total Kjeldahl Nitrogen-TKN)	FL	1790	10065404

Method EPA 353.2

Analyte	AB	Analyte ID	Method ID
Nitrate as N	FL	1810	10067400
Nitrate-nitrite	FL	1820	10067400
Nitrite as N	FL	1840	10067400

Method EPA 365.1

Analyte	AB	Analyte ID	Method ID

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Matrix: ***Non-Potable Water***

Orthophosphate as P	FL	1870	10070005

Method EPA 365.4

Analyte	**AB**	**Analyte ID**	**Method ID**
Phosphorus	FL	1910	10071202

Method EPA 375.4

Analyte	**AB**	**Analyte ID**	**Method ID**
Sulfate	FL	2000	10073800

Method EPA 376.1

Analyte	**AB**	**Analyte ID**	**Method ID**
Sulfide	FL	2005	10074201

Method EPA 405.1

Analyte	**AB**	**Analyte ID**	**Method ID**
Biochemical oxygen demand (BOD)	FL	1530	10075602

Method EPA 410.4

Analyte	**AB**	**Analyte ID**	**Method ID**
Chemical oxygen demand (COD)	FL	1565	10077404

Method EPA 415.1

Analyte	**AB**	**Analyte ID**	**Method ID**
Total Organic Carbon (TOC)	FL	2040	10078407

Method EPA 420.1

Analyte	**AB**	**Analyte ID**	**Method ID**
Total phenolics	FL	1905	10079400

Method EPA 6010

Analyte	**AB**	**Analyte ID**	**Method ID**
Aluminum	FL	1000	10155201
Antimony	FL	1005	10155201
Arsenic	FL	1010	10155201
Barium	FL	1015	10155201
Beryllium	FL	1020	10155201
Boron	FL	1025	10155201
Cadmium	FL	1030	10155201

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Matrix: ***Non-Potable Water***

Calcium	FL	1035	10155201
Chromium	FL	1040	10155201
Cobalt	FL	1050	10155201
Copper	FL	1055	10155201
Iron	FL	1070	10155201
Lead	FL	1075	10155201
Magnesium	FL	1085	10155201
Manganese	FL	1090	10155201
Molybdenum	FL	1100	10155201
Nickel	FL	1105	10155201
Potassium	FL	1125	10155201
Selenium	FL	1140	10155201
Silver	FL	1150	10155201
Sodium	FL	1155	10155201
Strontium	FL	1160	10155201
Thallium	FL	1165	10155201
Tin	FL	1175	10155201
Titanium	FL	1180	10155201
Vanadium	FL	1185	10155201
Zinc	FL	1190	10155201

Method EPA 6020

Analyte	**AB**	**Analyte ID**	**Method ID**
Aluminum	FL	1000	10156204
Antimony	FL	1005	10156204
Arsenic	FL	1010	10156204
Barium	FL	1015	10156204
Beryllium	FL	1020	10156204
Cadmium	FL	1030	10156204
Calcium	FL	1035	10156204
Chromium	FL	1040	10156204

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Matrix: ***Non-Potable Water***

Cobalt	FL	1050	10156204
Copper	FL	1055	10156204
Iron	FL	1070	10156204
Lead	FL	1075	10156204
Magnesium	FL	1085	10156204
Manganese	FL	1090	10156204
Molybdenum	FL	1100	10156204
Nickel	FL	1105	10156204
Potassium	FL	1125	10156204
Selenium	FL	1140	10156204
Silver	FL	1150	10156204
Sodium	FL	1155	10156204
Thallium	FL	1165	10156204
Vanadium	FL	1185	10156204
Zinc	FL	1190	10156204

Method EPA 608.3

Analyte	**AB**	**Analyte ID**	**Method ID**
4,4'-DDD	FL	7355	10296625
4,4'-DDE	FL	7360	10296625
4,4'-DDT	FL	7365	10296625
Aldrin	FL	7025	10296625
alpha-BHC (alpha-Hexachlorocyclohexane)	FL	7110	10296625
Aroclor-1016 (PCB-1016)	FL	8880	10296625
Aroclor-1221 (PCB-1221)	FL	8885	10296625
Aroclor-1232 (PCB-1232)	FL	8890	10296625
Aroclor-1242 (PCB-1242)	FL	8895	10296625
Aroclor-1248 (PCB-1248)	FL	8900	10296625
Aroclor-1254 (PCB-1254)	FL	8905	10296625
Aroclor-1260 (PCB-1260)	FL	8910	10296625
beta-BHC (beta-Hexachlorocyclohexane)	FL	7115	10296625

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Matrix: ***Non-Potable Water***

Chlordane (tech.)	FL	7250	10296625
delta-BHC (delta-Hexachlorocyclohexane)	FL	7105	10296625
Dieldrin	FL	7470	10296625
Endosulfan I	FL	7510	10296625
Endosulfan II	FL	7515	10296625
Endosulfan sulfate	FL	7520	10296625
Endrin	FL	7540	10296625
Endrin aldehyde	FL	7530	10296625
gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	FL	7120	10296625
Heptachlor	FL	7685	10296625
Heptachlor epoxide	FL	7690	10296625
Methoxychlor	FL	7810	10296625
Toxaphene (Chlorinated camphene)	FL	8250	10296625

Method EPA 615

Analyte	**AB**	**Analyte ID**	**Method ID**
2,4,5-T	FL	8655	10298201
2,4-D	FL	8545	10298201
2,4-DB	FL	8560	10298201
Dalapon	FL	8555	10298201
Dicamba	FL	8595	10298201
Dichloroprop (Dichlorprop, Weedone)	FL	8605	10298201
Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	FL	8620	10298201
MCPA	FL	7775	10298201
MCPP	FL	7780	10298201
Silvex (2,4,5-TP)	FL	8650	10298201

Method EPA 624.1

Analyte	**AB**	**Analyte ID**	**Method ID**
1,1,1-Trichloroethane	FL	5160	10298121
1,1,2,2-Tetrachloroethane	FL	5110	10298121
1,1,2-Trichloroethane	FL	5165	10298121
1,1-Dichloroethane	FL	4630	10298121

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Matrix: ***Non-Potable Water***

1,1-Dichloroethylene	FL	4640	10298121
1,2-Dichlorobenzene	FL	4610	10298121
1,2-Dichloroethane (Ethylene dichloride)	FL	4635	10298121
1,2-Dichloropropane	FL	4655	10298121
1,3-Dichlorobenzene	FL	4615	10298121
1,4-Dichlorobenzene	FL	4620	10298121
2-Chloroethyl vinyl ether	FL	4500	10298121
Acrolein (Propenal)	FL	4325	10298121
Acrylonitrile	FL	4340	10298121
Benzene	FL	4375	10298121
Bromodichloromethane	FL	4395	10298121
Bromoform	FL	4400	10298121
Carbon tetrachloride	FL	4455	10298121
Chlorobenzene	FL	4475	10298121
Chlorodibromomethane	FL	4575	10298121
Chloroethane (Ethyl chloride)	FL	4485	10298121
Chloroform	FL	4505	10298121
cis-1,3-Dichloropropene	FL	4680	10298121
Ethylbenzene	FL	4765	10298121
Methyl bromide (Bromomethane)	FL	4950	10298121
Methyl chloride (Chloromethane)	FL	4960	10298121
Methylene chloride (Dichloromethane)	FL	4975	10298121
Tetrachloroethylene (Perchloroethylene)	FL	5115	10298121
Toluene	FL	5140	10298121
trans-1,2-Dichloroethylene	FL	4700	10298121
trans-1,3-Dichloropropylene	FL	4685	10298121
Trichloroethene (Trichloroethylene)	FL	5170	10298121
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	FL	5175	10298121
Vinyl chloride	FL	5235	10298121
Xylene (total)	FL	5260	10298121

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Matrix: ***Non-Potable Water***

Method EPA 625.1

Analyte	AB	Analyte ID	Method ID
1,2,4-Trichlorobenzene	FL	5155	10300024
1,2-Diphenylhydrazine	FL	6221	10300024
2,2'-Oxybis(1-chloropropane) (bis(2-Chloro-1-methylethyl)ether)	FL	4659	10300024
2,4,6-Trichlorophenol	FL	6840	10300024
2,4-Dichlorophenol	FL	6000	10300024
2,4-Dimethylphenol	FL	6130	10300024
2,4-Dinitrophenol	FL	6175	10300024
2,4-Dinitrotoluene (2,4-DNT)	FL	6185	10300024
2,6-Dinitrotoluene (2,6-DNT)	FL	6190	10300024
2-Chloronaphthalene	FL	5795	10300024
2-Chlorophenol	FL	5800	10300024
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	FL	6360	10300024
3,3'-Dichlorobenzidine	FL	5945	10300024
4-Bromophenyl phenyl ether (BDE-3)	FL	5660	10300024
4-Chloro-3-methylphenol	FL	5700	10300024
4-Chlorophenyl phenylether	FL	5825	10300024
4-Nitrophenol	FL	6500	10300024
Acenaphthene	FL	5500	10300024
Acenaphthylene	FL	5505	10300024
Anthracene	FL	5555	10300024
Benzidine	FL	5595	10300024
Benzo(a)anthracene	FL	5575	10300024
Benzo(a)pyrene	FL	5580	10300024
Benzo(b)fluoranthene	FL	5585	10300024
Benzo(g,h,i)perylene	FL	5590	10300024
Benzo(k)fluoranthene	FL	5600	10300024
bis(2-Chloroethoxy)methane	FL	5760	10300024
bis(2-Chloroethyl) ether	FL	5765	10300024

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Matrix: ***Non-Potable Water***

bis(2-Ethylhexyl) phthalate (Di(2-Ethylhexyl) phthalate, DEHP)	FL	6065	10300024
Butyl benzyl phthalate	FL	5670	10300024
Chrysene	FL	5855	10300024
Dibenz(a,h) anthracene	FL	5895	10300024
Diethyl phthalate	FL	6070	10300024
Dimethyl phthalate	FL	6135	10300024
Di-n-butyl phthalate	FL	5925	10300024
Di-n-octyl phthalate	FL	6200	10300024
Fluoranthene	FL	6265	10300024
Fluorene	FL	6270	10300024
Hexachlorobenzene	FL	6275	10300024
Hexachlorobutadiene	FL	4835	10300024
Hexachlorocyclopentadiene	FL	6285	10300024
Hexachloroethane	FL	4840	10300024
Indeno(1,2,3-cd) pyrene	FL	6315	10300024
Isophorone	FL	6320	10300024
Naphthalene	FL	5005	10300024
Nitrobenzene	FL	5015	10300024
n-Nitrosodimethylamine	FL	6530	10300024
n-Nitrosodiphenylamine	FL	6535	10300024
Pentachlorophenol	FL	6605	10300024
Phenanthrene	FL	6615	10300024
Phenol	FL	6625	10300024
Pyrene	FL	6665	10300024

Method EPA 7196

Analyte	**AB**	**Analyte ID**	**Method ID**
Chromium (VI)	FL	1045	10162206

Method EPA 7470

Analyte	**AB**	**Analyte ID**	**Method ID**
Mercury	FL	1095	10165603

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Matrix: ***Non-Potable Water***

Method EPA 8011

Analyte	AB	Analyte ID	Method ID
1,2-Dibromo-3-chloropropane (DBCP)	FL	4570	10173009
1,2-Dibromoethane (EDB, Ethylene dibromide)	FL	4585	10173009

Method EPA 8015

Analyte	AB	Analyte ID	Method ID
2-Pentanone	FL	5045	10173203
Allyl alcohol	FL	4350	10173203
Diesel range organics (DRO)	FL	9369	10173203
Ethanol	FL	4750	10173203
Ethyl acetate	FL	4755	10173203
Ethylene glycol	FL	4785	10173203
Gasoline range organics (GRO)	FL	9408	10173203
Isobutyl alcohol (2-Methyl-1-propanol)	FL	4875	10173203
Isopropyl alcohol (2-Propanol, Isopropanol)	FL	4895	10173203
Methanol	FL	4930	10173203
n-Butyl alcohol (1-Butanol, n-Butanol)	FL	4425	10173203
n-Propanol (1-Propanol)	FL	5055	10173203
tert-Butyl alcohol	FL	4420	10173203

Method EPA 8081

Analyte	AB	Analyte ID	Method ID
4,4'-DDD	FL	7355	10178402
4,4'-DDE	FL	7360	10178402
4,4'-DDT	FL	7365	10178402
Aldrin	FL	7025	10178402
alpha-BHC (alpha-Hexachlorocyclohexane)	FL	7110	10178402
alpha-Chlordane	FL	7240	10178402
beta-BHC (beta-Hexachlorocyclohexane)	FL	7115	10178402
Chlordane (tech.)	FL	7250	10178402
Chlorobenzilate	FL	7260	10178402
delta-BHC (delta-Hexachlorocyclohexane)	FL	7105	10178402

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Matrix: ***Non-Potable Water***

Dieldrin	FL	7470	10178402
Endosulfan I	FL	7510	10178402
Endosulfan II	FL	7515	10178402
Endosulfan sulfate	FL	7520	10178402
Endrin	FL	7540	10178402
Endrin aldehyde	FL	7530	10178402
Endrin ketone	FL	7535	10178402
gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	FL	7120	10178402
gamma-Chlordane	FL	7245	10178402
Heptachlor	FL	7685	10178402
Heptachlor epoxide	FL	7690	10178402
Isodrin	FL	7725	10178402
Methoxychlor	FL	7810	10178402
Mirex	FL	7870	10178402
Toxaphene (Chlorinated camphene)	FL	8250	10178402

Method EPA 8082

Analyte	**AB**	**Analyte ID**	**Method ID**
Aroclor-1016 (PCB-1016)	FL	8880	10179007
Aroclor-1221 (PCB-1221)	FL	8885	10179007
Aroclor-1232 (PCB-1232)	FL	8890	10179007
Aroclor-1242 (PCB-1242)	FL	8895	10179007
Aroclor-1248 (PCB-1248)	FL	8900	10179007
Aroclor-1254 (PCB-1254)	FL	8905	10179007
Aroclor-1260 (PCB-1260)	FL	8910	10179007
PCBs (total)	FL	8870	10179007

Method EPA 8151

Analyte	**AB**	**Analyte ID**	**Method ID**
2,4,5-T	FL	8655	10183003
2,4-D	FL	8545	10183003
2,4-DB	FL	8560	10183003
3,5-Dichlorobenzoic acid	FL	8600	10183003

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Matrix: ***Non-Potable Water***

Acifluorfen	FL	8505	10183003
Bentazon	FL	8530	10183003
Chloramben	FL	8540	10183003
Dacthal (DCPA)	FL	8550	10183003
Dalapon	FL	8555	10183003
Dicamba	FL	8595	10183003
Dichloroprop (Dichlorprop, Weedone)	FL	8605	10183003
Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	FL	8620	10183003
MCPA	FL	7775	10183003
MCPP	FL	7780	10183003
Pentachlorophenol	FL	6605	10183003
Picloram	FL	8645	10183003
Silvex (2,4,5-TP)	FL	8650	10183003

Method EPA 8260

Analyte	**AB**	**Analyte ID**	**Method ID**
1,1,1,2-Tetrachloroethane	FL	5105	10184404
1,1,1-Trichloroethane	FL	5160	10184404
1,1,2,2-Tetrachloroethane	FL	5110	10184404
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	FL	5185	10184404
1,1,2-Trichloroethane	FL	5165	10184404
1,1-Dichloroethane	FL	4630	10184404
1,1-Dichloroethylene	FL	4640	10184404
1,1-Dichloropropene	FL	4670	10184404
1,2,3-Trichlorobenzene	FL	5150	10184404
1,2,3-Trichloropropane	FL	5180	10184404
1,2,4-Trichlorobenzene	FL	5155	10184404
1,2,4-Trimethylbenzene	FL	5210	10184404
1,2-Dibromo-3-chloropropane (DBCP)	FL	4570	10184404
1,2-Dibromoethane (EDB, Ethylene dibromide)	FL	4585	10184404
1,2-Dichlorobenzene	FL	4610	10184404

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Matrix: ***Non-Potable Water***

1,2-Dichloroethane (Ethylene dichloride)	FL	4635	10184404
1,2-Dichloropropane	FL	4655	10184404
1,3,5-Trimethylbenzene	FL	5215	10184404
1,3-Dichlorobenzene	FL	4615	10184404
1,3-Dichloropropane	FL	4660	10184404
1,4-Dichlorobenzene	FL	4620	10184404
1-Chlorohexane	FL	4510	10184404
2,2-Dichloropropane	FL	4665	10184404
2-Butanone (Methyl ethyl ketone, MEK)	FL	4410	10184404
2-Chloroethyl vinyl ether	FL	4500	10184404
2-Chlorotoluene	FL	4535	10184404
2-Hexanone (MBK)	FL	4860	10184404
4-Chlorotoluene	FL	4540	10184404
4-Isopropyltoluene (p-Cymene)	FL	4915	10184404
4-Methyl-2-pentanone (MIBK)	FL	4995	10184404
Acetone (2-Propanone)	FL	4315	10184404
Acetonitrile	FL	4320	10184404
Acrolein (Propenal)	FL	4325	10184404
Acrylonitrile	FL	4340	10184404
Allyl chloride (3-Chloropropene)	FL	4355	10184404
Benzene	FL	4375	10184404
Bromobenzene	FL	4385	10184404
Bromochloromethane	FL	4390	10184404
Bromodichloromethane	FL	4395	10184404
Bromoform	FL	4400	10184404
Carbon disulfide	FL	4450	10184404
Carbon tetrachloride	FL	4455	10184404
Chlorobenzene	FL	4475	10184404
Chlorodibromomethane	FL	4575	10184404
Chloroethane (Ethyl chloride)	FL	4485	10184404

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Matrix: ***Non-Potable Water***

Chloroform	FL	4505	10184404
Chloroprene (2-Chloro-1,3-butadiene)	FL	4525	10184404
cis-1,2-Dichloroethylene	FL	4645	10184404
cis-1,3-Dichloropropene	FL	4680	10184404
Dibromomethane (Methylene bromide)	FL	4595	10184404
Dichlorodifluoromethane (Freon-12)	FL	4625	10184404
Diethyl ether	FL	4725	10184404
Ethyl methacrylate	FL	4810	10184404
Ethylbenzene	FL	4765	10184404
Hexachlorobutadiene	FL	4835	10184404
Iodomethane (Methyl iodide)	FL	4870	10184404
Isobutyl alcohol (2-Methyl-1-propanol)	FL	4875	10184404
Isopropylbenzene (Cumene)	FL	4900	10184404
m+p-xylene	FL	5240	10184404
Methacrylonitrile	FL	4925	10184404
Methyl acetate	FL	4940	10184404
Methyl bromide (Bromomethane)	FL	4950	10184404
Methyl chloride (Chloromethane)	FL	4960	10184404
Methyl methacrylate	FL	4990	10184404
Methyl tert-butyl ether (MTBE)	FL	5000	10184404
Methylcyclohexane	FL	4965	10184404
Methylene chloride (Dichloromethane)	FL	4975	10184404
Naphthalene	FL	5005	10184404
n-Butylbenzene	FL	4435	10184404
n-Propylbenzene	FL	5090	10184404
o-Xylene	FL	5250	10184404
Pentachloroethane	FL	5035	10184404
Propionitrile (Ethyl cyanide)	FL	5080	10184404
sec-Butylbenzene	FL	4440	10184404
Styrene	FL	5100	10184404

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tert-Butyl alcohol	FL	4420	10184404
tert-Butylbenzene	FL	4445	10184404
Tetrachloroethylene (Perchloroethylene)	FL	5115	10184404
Toluene	FL	5140	10184404
trans-1,2-Dichloroethylene	FL	4700	10184404
trans-1,3-Dichloropropylene	FL	4685	10184404
trans-1,4-Dichloro-2-butene	FL	4605	10184404
Trichloroethene (Trichloroethylene)	FL	5170	10184404
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	FL	5175	10184404
Vinyl acetate	FL	5225	10184404
Vinyl chloride	FL	5235	10184404
Xylene (total)	FL	5260	10184404

Method EPA 8270

Analyte	**AB**	**Analyte ID**	**Method ID**
1,2,4,5-Tetrachlorobenzene	FL	6715	10185203
1,2,4-Trichlorobenzene	FL	5155	10185203
1,2-Dichlorobenzene	FL	4610	10185203
1,2-Diphenylhydrazine	FL	6220	10185203
1,3,5-Trinitrobenzene (1,3,5-TNB)	FL	6885	10185203
1,3-Dichlorobenzene	FL	4615	10185203
1,3-Dinitrobenzene (1,3-DNB)	FL	6160	10185203
1,4-Dichlorobenzene	FL	4620	10185203
1,4-Naphthoquinone	FL	6420	10185203
1,4-Phenylenediamine	FL	6630	10185203
1-Naphthylamine	FL	6425	10185203
2,2'-Oxybis(1-chloropropane) (bis(2-Chloro-1-methylethyl)ether)	FL	4659	10185203
2,3,4,6-Tetrachlorophenol	FL	6735	10185203
2,4,5-Trichlorophenol	FL	6835	10185203
2,4,6-Trichlorophenol	FL	6840	10185203
2,4-Dichlorophenol	FL	6000	10185203

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Matrix: ***Non-Potable Water***

2,4-Dimethylphenol	FL	6130	10185203
2,4-Dinitrophenol	FL	6175	10185203
2,4-Dinitrotoluene (2,4-DNT)	FL	6185	10185203
2,6-Dichlorophenol	FL	6005	10185203
2,6-Dinitrotoluene (2,6-DNT)	FL	6190	10185203
2-Acetylaminofluorene	FL	5515	10185203
2-Chloronaphthalene	FL	5795	10185203
2-Chlorophenol	FL	5800	10185203
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	FL	6360	10185203
2-Methylaniline (o-Toluidine)	FL	5145	10185203
2-Methylnaphthalene	FL	6385	10185203
2-Methylphenol (o-Cresol)	FL	6400	10185203
2-Nitroaniline	FL	6460	10185203
2-Nitrophenol	FL	6490	10185203
2-Picoline (2-Methylpyridine)	FL	5050	10185203
3,3'-Dichlorobenzidine	FL	5945	10185203
3,3'-Dimethylbenzidine	FL	6120	10185203
3-Methylcholanthrene	FL	6355	10185203
3-Methylphenol (m-Cresol)	FL	6405	10185203
3-Nitroaniline	FL	6465	10185203
4-Aminobiphenyl	FL	5540	10185203
4-Bromophenyl phenyl ether (BDE-3)	FL	5660	10185203
4-Chloro-3-methylphenol	FL	5700	10185203
4-Chloroaniline	FL	5745	10185203
4-Chlorophenyl phenylether	FL	5825	10185203
4-Dimethyl aminoazobenzene	FL	6105	10185203
4-Methylphenol (p-Cresol)	FL	6410	10185203
4-Nitroaniline	FL	6470	10185203
4-Nitrophenol	FL	6500	10185203
4-Nitroquinoline-1-oxide	FL	6510	10185203

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Matrix: ***Non-Potable Water***

5-Nitro-o-toluidine	FL	6570	10185203
7,12-Dimethylbenz(a) anthracene	FL	6115	10185203
a-a-Dimethylphenethylamine	FL	6125	10185203
Acenaphthene	FL	5500	10185203
Acenaphthylene	FL	5505	10185203
Acetophenone	FL	5510	10185203
Aniline	FL	5545	10185203
Anthracene	FL	5555	10185203
Aramite	FL	5560	10185203
Atrazine	FL	7065	10185203
Benzidine	FL	5595	10185203
Benzo(a)anthracene	FL	5575	10185203
Benzo(a)pyrene	FL	5580	10185203
Benzo(b)fluoranthene	FL	5585	10185203
Benzo(g,h,i)perylene	FL	5590	10185203
Benzo(k)fluoranthene	FL	5600	10185203
Benzoic acid	FL	5610	10185203
Benzyl alcohol	FL	5630	10185203
Biphenyl	FL	5640	10185203
bis(2-Chloroethoxy)methane	FL	5760	10185203
bis(2-Chloroethyl) ether	FL	5765	10185203
bis(2-Ethylhexyl) phthalate (Di(2-Ethylhexyl) phthalate, DEHP)	FL	6065	10185203
Butyl benzyl phthalate	FL	5670	10185203
Caprolactam	FL	7180	10185203
Carbazole	FL	5680	10185203
Chrysene	FL	5855	10185203
Diallate	FL	7405	10185203
Dibenz(a,h) anthracene	FL	5895	10185203
Dibenzofuran	FL	5905	10185203
Diethyl phthalate	FL	6070	10185203

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Matrix: ***Non-Potable Water***

Dimethoate	FL	7475	10185203
Dimethyl phthalate	FL	6135	10185203
Di-n-butyl phthalate	FL	5925	10185203
Di-n-octyl phthalate	FL	6200	10185203
Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	FL	8620	10185203
Disulfoton	FL	8625	10185203
Ethyl methanesulfonate	FL	6260	10185203
Famphur	FL	7580	10185203
Fluoranthene	FL	6265	10185203
Fluorene	FL	6270	10185203
Hexachlorobenzene	FL	6275	10185203
Hexachlorobutadiene	FL	4835	10185203
Hexachlorocyclopentadiene	FL	6285	10185203
Hexachloroethane	FL	4840	10185203
Hexachlorophene	FL	6290	10185203
Hexachloropropene	FL	6295	10185203
Indeno(1,2,3-cd) pyrene	FL	6315	10185203
Isophorone	FL	6320	10185203
Isosafrole	FL	6325	10185203
Methapyrilene	FL	6345	10185203
Methyl methanesulfonate	FL	6375	10185203
Methyl parathion (Parathion, methyl)	FL	7825	10185203
Naphthalene	FL	5005	10185203
Nitrobenzene	FL	5015	10185203
n-Nitrosodiethylamine	FL	6525	10185203
n-Nitrosodimethylamine	FL	6530	10185203
n-Nitrosodi-n-butylamine	FL	5025	10185203
n-Nitrosodi-n-propylamine	FL	6545	10185203
n-Nitrosodiphenylamine	FL	6535	10185203
n-Nitrosomethylethylamine	FL	6550	10185203

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Matrix: ***Non-Potable Water***

n-Nitrosomorpholine	FL	6555	10185203
n-Nitrosopiperidine	FL	6560	10185203
n-Nitrosopyrrolidine	FL	6565	10185203
o,o,o-Triethyl phosphorothioate	FL	8290	10185203
Parathion, ethyl	FL	7955	10185203
Pentachlorobenzene	FL	6590	10185203
Pentachloronitrobenzene (PCNB)	FL	6600	10185203
Pentachlorophenol	FL	6605	10185203
Phenacetin	FL	6610	10185203
Phenanthrene	FL	6615	10185203
Phenol	FL	6625	10185203
Phorate	FL	7985	10185203
Pronamide (Kerb)	FL	6650	10185203
Pyrene	FL	6665	10185203
Pyridine	FL	5095	10185203
Safrole	FL	6685	10185203
Sulfotepp	FL	8155	10185203
Thionazin (Zinophos)	FL	8235	10185203

Method EPA 9012

Analyte	**AB**	**Analyte ID**	**Method ID**
Amenable cyanide	FL	1510	10193201
Total cyanide	FL	1645	10193405

Method EPA 9020

Analyte	**AB**	**Analyte ID**	**Method ID**
Total organic halides (TOX)	FL	2045	10194000

Method EPA 9034

Analyte	**AB**	**Analyte ID**	**Method ID**
Sulfide	FL	2005	10196006

Method EPA 9038

Analyte	**AB**	**Analyte ID**	**Method ID**
Sulfate	FL	2000	10196608

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Matrix: ***Non-Potable Water***

Method EPA 9040

Analyte	AB	Analyte ID	Method ID
pH	FL	1900	10196802

Method EPA 9050

Analyte	AB	Analyte ID	Method ID
Conductivity	FL	1610	10198604

Method EPA 9056

Analyte	AB	Analyte ID	Method ID
Bromide	FL	1540	10199209
Chloride	FL	1575	10199209
Fluoride	FL	1730	10199209
Nitrate as N	FL	1810	10199209
Nitrate-nitrite	FL	1820	10199209
Nitrite as N	FL	1840	10199209
Sulfate	FL	2000	10199209

Method EPA 9060

Analyte	AB	Analyte ID	Method ID
Total Organic Carbon (TOC)	FL	2040	10200201

Method EPA 9065

Analyte	AB	Analyte ID	Method ID
Total phenolics	FL	1905	10200405

Method EPA 9251

Analyte	AB	Analyte ID	Method ID
Chloride	FL	1575	10207406

Method EPA RSK 175

Analyte	AB	Analyte ID	Method ID
Ethane	FL	4747	10212905
Ethene	FL	4752	10212905
Methane	FL	4926	10212905

Method SM 2120 B

Analyte	AB	Analyte ID	Method ID

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Matrix: ***Non-Potable Water***

Color	FL	1605	20223807

Method SM 2130 B

Analyte	AB	Analyte ID	Method ID
Turbidity	FL	2055	20042200

Method SM 2320 B

Analyte	AB	Analyte ID	Method ID
Alkalinity as CaCO3	FL	1505	20045005

Method SM 2340 B

Analyte	AB	Analyte ID	Method ID
Total hardness as CaCO3	FL	1755	20046008

Method SM 2510 B

Analyte	AB	Analyte ID	Method ID
Conductivity	FL	1610	20048004

Method SM 2540 B

Analyte	AB	Analyte ID	Method ID
Residue-total (total solids)	FL	1950	20004608

Method SM 2540 C

Analyte	AB	Analyte ID	Method ID
Residue-filterable (TDS)	FL	1955	20049803

Method SM 2540 D

Analyte	AB	Analyte ID	Method ID
Residue-nonfilterable (TSS)	FL	1960	20004802

Method SM 3500-Cr D

Analyte	AB	Analyte ID	Method ID
Chromium (VI)	FL	1045	20009001

Method SM 4500-Cl^- E

Analyte	AB	Analyte ID	Method ID
Chloride	FL	1575	20019209

Method SM 4500-CN^- E

Analyte	AB	Analyte ID	Method ID
Total cyanide	FL	1645	20021209

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Matrix: ***Non-Potable Water***

Method SM 4500-CN^- G

Analyte	AB	Analyte ID	Method ID
Amenable cyanide	FL	1510	20021607

Method SM 4500-H+ B

Analyte	AB	Analyte ID	Method ID
pH	FL	1900	20104603

Method SM 4500-$S2^-$ F

Analyte	AB	Analyte ID	Method ID
Sulfide	FL	2005	20126209

Method SM 5210 B

Analyte	AB	Analyte ID	Method ID
Biochemical oxygen demand (BOD)	FL	1530	20027401
Carbonaceous BOD, CBOD	FL	1555	20027401

Method SM 5220 D

Analyte	AB	Analyte ID	Method ID
Chemical oxygen demand (COD)	FL	1565	20027809

Method SM 5310 B

Analyte	AB	Analyte ID	Method ID
Total Organic Carbon (TOC)	FL	2040	20137206

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Matrix: ***Solid & Chemical Materials***

Method EPA 1030

Analyte	AB	Analyte ID	Method ID
Ignitability	FL	1780	10117201

Method EPA 1311

Analyte	AB	Analyte ID	Method ID
TCLP	FL	849	10118806

Method EPA 1312

Analyte	AB	Analyte ID	Method ID
SPLP	FL	850	10119003

Method EPA 300.0

Analyte	AB	Analyte ID	Method ID
Bromide	FL	1540	10053200
Chloride	FL	1575	10053200
Fluoride	FL	1730	10053200
Nitrate as N	FL	1810	10053200
Nitrite as N	FL	1840	10053200
Sulfate	FL	2000	10053200

Method EPA 350.1

Analyte	AB	Analyte ID	Method ID
Ammonia as N	FL	1515	10063408

Method EPA 353.2

Analyte	AB	Analyte ID	Method ID
Nitrate as N	FL	1810	10067604
Nitrate-nitrite	FL	1820	10067604
Nitrite as N	FL	1840	10067604

Method EPA 6010

Analyte	AB	Analyte ID	Method ID
Aluminum	FL	1000	10155201
Antimony	FL	1005	10155201
Arsenic	FL	1010	10155201
Barium	FL	1015	10155201

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Matrix: ***Solid & Chemical Materials***

Beryllium	FL	1020	10155201
Boron	FL	1025	10155201
Cadmium	FL	1030	10155201
Calcium	FL	1035	10155201
Chromium	FL	1040	10155201
Cobalt	FL	1050	10155201
Copper	FL	1055	10155201
Iron	FL	1070	10155201
Lead	FL	1075	10155201
Magnesium	FL	1085	10155201
Manganese	FL	1090	10155201
Molybdenum	FL	1100	10155201
Nickel	FL	1105	10155201
Potassium	FL	1125	10155201
Selenium	FL	1140	10155201
Silver	FL	1150	10155201
Sodium	FL	1155	10155201
Strontium	FL	1160	10155201
Thallium	FL	1165	10155201
Tin	FL	1175	10155201
Titanium	FL	1180	10155201
Vanadium	FL	1185	10155201
Zinc	FL	1190	10155201

Method EPA 6020

Analyte	**AB**	**Analyte ID**	**Method ID**
Aluminum	FL	1000	10156204
Antimony	FL	1005	10156204
Arsenic	FL	1010	10156204
Barium	FL	1015	10156204
Beryllium	FL	1020	10156204

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Matrix: ***Solid & Chemical Materials***

Cadmium	FL	1030	10156204
Calcium	FL	1035	10156204
Chromium	FL	1040	10156204
Cobalt	FL	1050	10156204
Copper	FL	1055	10156204
Iron	FL	1070	10156204
Lead	FL	1075	10156204
Magnesium	FL	1085	10156204
Manganese	FL	1090	10156204
Molybdenum	FL	1100	10156204
Nickel	FL	1105	10156204
Potassium	FL	1125	10156204
Selenium	FL	1140	10156204
Silver	FL	1150	10156204
Sodium	FL	1155	10156204
Thallium	FL	1165	10156204
Vanadium	FL	1185	10156204
Zinc	FL	1190	10156204

Method EPA 7471

Analyte	**AB**	**Analyte ID**	**Method ID**
Mercury	FL	1095	10166004

Method EPA 8015

Analyte	**AB**	**Analyte ID**	**Method ID**
Diesel range organics (DRO)	FL	9369	10173203
Ethanol	FL	4750	10173203
Ethyl acetate	FL	4755	10173203
Ethylene glycol	FL	4785	10173203
Gasoline range organics (GRO)	FL	9408	10173203
Isobutyl alcohol (2-Methyl-1-propanol)	FL	4875	10173203
Isopropyl alcohol (2-Propanol, Isopropanol)	FL	4895	10173203
Methanol	FL	4930	10173203

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Matrix: ***Solid & Chemical Materials***

n-Butyl alcohol (1-Butanol, n-Butanol)	FL	4425	10173203
n-Propanol (1-Propanol)	FL	5055	10173203
tert-Butyl alcohol	FL	4420	10173203

Method EPA 8081

Analyte	AB	Analyte ID	Method ID
4,4'-DDD	FL	7355	10178402
4,4'-DDE	FL	7360	10178402
4,4'-DDT	FL	7365	10178402
Aldrin	FL	7025	10178402
alpha-BHC (alpha-Hexachlorocyclohexane)	FL	7110	10178402
alpha-Chlordane	FL	7240	10178402
beta-BHC (beta-Hexachlorocyclohexane)	FL	7115	10178402
Chlordane (tech.)	FL	7250	10178402
Chlorobenzilate	FL	7260	10178402
delta-BHC (delta-Hexachlorocyclohexane)	FL	7105	10178402
Dieldrin	FL	7470	10178402
Endosulfan I	FL	7510	10178402
Endosulfan II	FL	7515	10178402
Endosulfan sulfate	FL	7520	10178402
Endrin	FL	7540	10178402
Endrin aldehyde	FL	7530	10178402
Endrin ketone	FL	7535	10178402
gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	FL	7120	10178402
gamma-Chlordane	FL	7245	10178402
Heptachlor	FL	7685	10178402
Heptachlor epoxide	FL	7690	10178402
Isodrin	FL	7725	10178402
Methoxychlor	FL	7810	10178402
Mirex	FL	7870	10178402
Toxaphene (Chlorinated camphene)	FL	8250	10178402

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Matrix: ***Solid & Chemical Materials***

Method EPA 8082

Analyte	AB	Analyte ID	Method ID
Aroclor-1016 (PCB-1016)	FL	8880	10179007
Aroclor-1221 (PCB-1221)	FL	8885	10179007
Aroclor-1232 (PCB-1232)	FL	8890	10179007
Aroclor-1242 (PCB-1242)	FL	8895	10179007
Aroclor-1248 (PCB-1248)	FL	8900	10179007
Aroclor-1254 (PCB-1254)	FL	8905	10179007
Aroclor-1260 (PCB-1260)	FL	8910	10179007
PCBs (total)	FL	8870	10179007

Method EPA 8151

Analyte	AB	Analyte ID	Method ID
2,4,5-T	FL	8655	10183003
2,4-D	FL	8545	10183003
2,4-DB	FL	8560	10183003
3,5-Dichlorobenzoic acid	FL	8600	10183003
Acifluorfen	FL	8505	10183003
Bentazon	FL	8530	10183003
Chloramben	FL	8540	10183003
Dacthal (DCPA)	FL	8550	10183003
Dalapon	FL	8555	10183003
Dicamba	FL	8595	10183003
Dichloroprop (Dichlorprop, Weedone)	FL	8605	10183003
Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	FL	8620	10183003
MCPA	FL	7775	10183003
MCPP	FL	7780	10183003
Pentachlorophenol	FL	6605	10183003
Picloram	FL	8645	10183003
Silvex (2,4,5-TP)	FL	8650	10183003

Method EPA 8260

Analyte	AB	Analyte ID	Method ID

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Matrix: ***Solid & Chemical Materials***

1,1,1,2-Tetrachloroethane	FL	5105	10184404
1,1,1-Trichloroethane	FL	5160	10184404
1,1,2,2-Tetrachloroethane	FL	5110	10184404
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	FL	5185	10184404
1,1,2-Trichloroethane	FL	5165	10184404
1,1-Dichloroethane	FL	4630	10184404
1,1-Dichloroethylene	FL	4640	10184404
1,1-Dichloropropene	FL	4670	10184404
1,2,3-Trichlorobenzene	FL	5150	10184404
1,2,3-Trichloropropane	FL	5180	10184404
1,2,4-Trichlorobenzene	FL	5155	10184404
1,2,4-Trimethylbenzene	FL	5210	10184404
1,2-Dibromo-3-chloropropane (DBCP)	FL	4570	10184404
1,2-Dibromoethane (EDB, Ethylene dibromide)	FL	4585	10184404
1,2-Dichlorobenzene	FL	4610	10184404
1,2-Dichloroethane (Ethylene dichloride)	FL	4635	10184404
1,2-Dichloropropane	FL	4655	10184404
1,3,5-Trimethylbenzene	FL	5215	10184404
1,3-Dichlorobenzene	FL	4615	10184404
1,3-Dichloropropane	FL	4660	10184404
1,4-Dichlorobenzene	FL	4620	10184404
1-Chlorohexane	FL	4510	10184404
2,2-Dichloropropane	FL	4665	10184404
2-Butanone (Methyl ethyl ketone, MEK)	FL	4410	10184404
2-Chlorotoluene	FL	4535	10184404
2-Hexanone (MBK)	FL	4860	10184404
4-Chlorotoluene	FL	4540	10184404
4-Isopropyltoluene (p-Cymene)	FL	4915	10184404
4-Methyl-2-pentanone (MIBK)	FL	4995	10184404
Acetone (2-Propanone)	FL	4315	10184404

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Matrix: ***Solid & Chemical Materials***

Acetonitrile	FL	4320	10184404
Acrolein (Propenal)	FL	4325	10184404
Acrylonitrile	FL	4340	10184404
Allyl chloride (3-Chloropropene)	FL	4355	10184404
Benzene	FL	4375	10184404
Bromobenzene	FL	4385	10184404
Bromochloromethane	FL	4390	10184404
Bromodichloromethane	FL	4395	10184404
Bromoform	FL	4400	10184404
Carbon disulfide	FL	4450	10184404
Carbon tetrachloride	FL	4455	10184404
Chlorobenzene	FL	4475	10184404
Chlorodibromomethane	FL	4575	10184404
Chloroethane (Ethyl chloride)	FL	4485	10184404
Chloroform	FL	4505	10184404
Chloroprene (2-Chloro-1,3-butadiene)	FL	4525	10184404
cis-1,2-Dichloroethylene	FL	4645	10184404
cis-1,3-Dichloropropene	FL	4680	10184404
Dibromomethane (Methylene bromide)	FL	4595	10184404
Dichlorodifluoromethane (Freon-12)	FL	4625	10184404
Diethyl ether	FL	4725	10184404
Ethyl methacrylate	FL	4810	10184404
Ethylbenzene	FL	4765	10184404
Hexachlorobutadiene	FL	4835	10184404
Iodomethane (Methyl iodide)	FL	4870	10184404
Isobutyl alcohol (2-Methyl-1-propanol)	FL	4875	10184404
Isopropylbenzene (Cumene)	FL	4900	10184404
m+p-xylene	FL	5240	10184404
Methacrylonitrile	FL	4925	10184404
Methyl acetate	FL	4940	10184404

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Matrix: ***Solid & Chemical Materials***

Methyl bromide (Bromomethane)	FL	4950	10184404
Methyl chloride (Chloromethane)	FL	4960	10184404
Methyl methacrylate	FL	4990	10184404
Methyl tert-butyl ether (MTBE)	FL	5000	10184404
Methylcyclohexane	FL	4965	10184404
Methylene chloride (Dichloromethane)	FL	4975	10184404
Naphthalene	FL	5005	10184404
n-Butylbenzene	FL	4435	10184404
n-Propylbenzene	FL	5090	10184404
o-Xylene	FL	5250	10184404
Pentachloroethane	FL	5035	10184404
Propionitrile (Ethyl cyanide)	FL	5080	10184404
sec-Butylbenzene	FL	4440	10184404
Styrene	FL	5100	10184404
tert-Butyl alcohol	FL	4420	10184404
tert-Butylbenzene	FL	4445	10184404
Tetrachloroethylene (Perchloroethylene)	FL	5115	10184404
Toluene	FL	5140	10184404
trans-1,2-Dichloroethylene	FL	4700	10184404
trans-1,3-Dichloropropylene	FL	4685	10184404
trans-1,4-Dichloro-2-butene	FL	4605	10184404
Trichloroethene (Trichloroethylene)	FL	5170	10184404
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	FL	5175	10184404
Vinyl acetate	FL	5225	10184404
Vinyl chloride	FL	5235	10184404
Xylene (total)	FL	5260	10184404

Method EPA 8270

Analyte	**AB**	**Analyte ID**	**Method ID**
1,2,4,5-Tetrachlorobenzene	FL	6715	10185203
1,2,4-Trichlorobenzene	FL	5155	10185203

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Matrix: ***Solid & Chemical Materials***

1,2-Dichlorobenzene	FL	4610	10185203
1,2-Diphenylhydrazine	FL	6220	10185203
1,3,5-Trinitrobenzene (1,3,5-TNB)	FL	6885	10185203
1,3-Dichlorobenzene	FL	4615	10185203
1,3-Dinitrobenzene (1,3-DNB)	FL	6160	10185203
1,4-Dichlorobenzene	FL	4620	10185203
1,4-Naphthoquinone	FL	6420	10185203
1,4-Phenylenediamine	FL	6630	10185203
1-Naphthylamine	FL	6425	10185203
2,2'-Oxybis(1-chloropropane) (bis(2-Chloro-1-methylethyl)ether)	FL	4659	10185203
2,3,4,6-Tetrachlorophenol	FL	6735	10185203
2,4,5-Trichlorophenol	FL	6835	10185203
2,4,6-Trichlorophenol	FL	6840	10185203
2,4-Dichlorophenol	FL	6000	10185203
2,4-Dimethylphenol	FL	6130	10185203
2,4-Dinitrophenol	FL	6175	10185203
2,4-Dinitrotoluene (2,4-DNT)	FL	6185	10185203
2,6-Dichlorophenol	FL	6005	10185203
2,6-Dinitrotoluene (2,6-DNT)	FL	6190	10185203
2-Acetylaminofluorene	FL	5515	10185203
2-Chloronaphthalene	FL	5795	10185203
2-Chlorophenol	FL	5800	10185203
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	FL	6360	10185203
2-Methylnaphthalene	FL	6385	10185203
2-Methylphenol (o-Cresol)	FL	6400	10185203
2-Naphthylamine	FL	6430	10185203
2-Nitroaniline	FL	6460	10185203
2-Nitrophenol	FL	6490	10185203
2-Picoline (2-Methylpyridine)	FL	5050	10185203
3,3'-Dichlorobenzidine	FL	5945	10185203

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Matrix: ***Solid & Chemical Materials***

3,3'-Dimethylbenzidine	FL	6120	10185203
3-Methylcholanthrene	FL	6355	10185203
3-Methylphenol (m-Cresol)	FL	6405	10185203
3-Nitroaniline	FL	6465	10185203
4-Aminobiphenyl	FL	5540	10185203
4-Bromophenyl phenyl ether (BDE-3)	FL	5660	10185203
4-Chloro-3-methylphenol	FL	5700	10185203
4-Chloroaniline	FL	5745	10185203
4-Chlorophenyl phenylether	FL	5825	10185203
4-Methylphenol (p-Cresol)	FL	6410	10185203
4-Nitroaniline	FL	6470	10185203
4-Nitrophenol	FL	6500	10185203
5-Nitro-o-toluidine	FL	6570	10185203
7,12-Dimethylbenz(a) anthracene	FL	6115	10185203
a-a-Dimethylphenethylamine	FL	6125	10185203
Acenaphthene	FL	5500	10185203
Acenaphthylene	FL	5505	10185203
Acetophenone	FL	5510	10185203
Aniline	FL	5545	10185203
Anthracene	FL	5555	10185203
Aramite	FL	5560	10185203
Atrazine	FL	7065	10185203
Benzidine	FL	5595	10185203
Benzo(a)anthracene	FL	5575	10185203
Benzo(a)pyrene	FL	5580	10185203
Benzo(b)fluoranthene	FL	5585	10185203
Benzo(g,h,i)perylene	FL	5590	10185203
Benzo(k)fluoranthene	FL	5600	10185203
Benzoic acid	FL	5610	10185203
Benzyl alcohol	FL	5630	10185203

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Matrix: ***Solid & Chemical Materials***

Biphenyl	FL	5640	10185203
bis(2-Chloroethoxy)methane	FL	5760	10185203
bis(2-Chloroethyl) ether	FL	5765	10185203
bis(2-Ethylhexyl) phthalate (Di(2-Ethylhexyl) phthalate, DEHP)	FL	6065	10185203
Butyl benzyl phthalate	FL	5670	10185203
Caprolactam	FL	7180	10185203
Carbazole	FL	5680	10185203
Chrysene	FL	5855	10185203
Diallate	FL	7405	10185203
Dibenz(a,h) anthracene	FL	5895	10185203
Dibenzofuran	FL	5905	10185203
Diethyl phthalate	FL	6070	10185203
Dimethoate	FL	7475	10185203
Dimethyl phthalate	FL	6135	10185203
Di-n-butyl phthalate	FL	5925	10185203
Di-n-octyl phthalate	FL	6200	10185203
Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	FL	8620	10185203
Disulfoton	FL	8625	10185203
Ethyl methanesulfonate	FL	6260	10185203
Famphur	FL	7580	10185203
Fluoranthene	FL	6265	10185203
Fluorene	FL	6270	10185203
Hexachlorobenzene	FL	6275	10185203
Hexachlorobutadiene	FL	4835	10185203
Hexachlorocyclopentadiene	FL	6285	10185203
Hexachloroethane	FL	4840	10185203
Hexachlorophene	FL	6290	10185203
Hexachloropropene	FL	6295	10185203
Indeno(1,2,3-cd) pyrene	FL	6315	10185203
Isophorone	FL	6320	10185203

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

Certificate: T104704185-23-22

Eurofins Savannah

Expiration Date: 11/30/2024

5102 LaRoche Avenue
Savannah, GA 31404-6019

Issue Date: 12/1/2023

These fields of accreditation supercede all previous fields. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current accreditation status for particular methods and analyses.

Matrix: ***Solid & Chemical Materials***

Isosafrole	FL	6325	10185203
Methapyrilene	FL	6345	10185203
Methyl methanesulfonate	FL	6375	10185203
Methyl parathion (Parathion, methyl)	FL	7825	10185203
Naphthalene	FL	5005	10185203
Nitrobenzene	FL	5015	10185203
n-Nitrosodiethylamine	FL	6525	10185203
n-Nitrosodimethylamine	FL	6530	10185203
n-Nitrosodi-n-butylamine	FL	5025	10185203
n-Nitrosodi-n-propylamine	FL	6545	10185203
n-Nitrosodiphenylamine	FL	6535	10185203
n-Nitrosomethylethylamine	FL	6550	10185203
n-Nitrosomorpholine	FL	6555	10185203
n-Nitrosopiperidine	FL	6560	10185203
n-Nitrosopyrrolidine	FL	6565	10185203
o,o,o-Triethyl phosphorothioate	FL	8290	10185203
Parathion, ethyl	FL	7955	10185203
Pentachlorobenzene	FL	6590	10185203
Pentachloronitrobenzene (PCNB)	FL	6600	10185203
Pentachlorophenol	FL	6605	10185203
Phenacetin	FL	6610	10185203
Phenanthrene	FL	6615	10185203
Phenol	FL	6625	10185203
Phorate	FL	7985	10185203
Pronamide (Kerb)	FL	6650	10185203
Pyrene	FL	6665	10185203
Pyridine	FL	5095	10185203
Safrole	FL	6685	10185203
Sulfotepp	FL	8155	10185203
Thionazin (Zinophos)	FL	8235	10185203

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

Certificate: T104704185-23-22
Expiration Date: 11/30/2024
Issue Date: 12/1/2023

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404-6019

These fields of accreditation supercede all previous fields. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current accreditation status for particular methods and analyses.

Matrix: ***Solid & Chemical Materials***

Method EPA 9034

Analyte	AB	Analyte ID	Method ID
Sulfide	FL	2005	10196006

Method EPA 9038

Analyte	AB	Analyte ID	Method ID
Sulfate	FL	2000	10196608

Method EPA 9045

Analyte	AB	Analyte ID	Method ID
pH	FL	1900	10197805

Method EPA 9056

Analyte	AB	Analyte ID	Method ID
Bromide	FL	1540	10199209
Chloride	FL	1575	10199209
Fluoride	FL	1730	10199209
Nitrate as N	FL	1810	10199209
Nitrate-nitrite	FL	1820	10199209
Nitrite as N	FL	1840	10199209
Sulfate	FL	2000	10199209

Method EPA 9065

Analyte	AB	Analyte ID	Method ID
Total phenolics	FL	1905	10200405

Method EPA 9095

Analyte	AB	Analyte ID	Method ID
Paint Filter Liquids Test	FL	10312	10204009

Method EPA 9251

Analyte	AB	Analyte ID	Method ID
Chloride	FL	1575	10207406

Jon Niermann, *Chairman*
Emily Lindley, *Commissioner*
Bobby Janecka, *Commissioner*
Kelly Keel, *Interim Executive Director*

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

December 06, 2023

Ms. Theresa Zielke
Eurofins Eaton Analytical, Inc. - South Bend
110 South Hill Street
South Bend, IN 46617-2702

Subject: Texas NELAP accreditation renewal

Dear Mr. Reeves:

I am writing to congratulate you and the staff of *Eurofins Eaton Analytical, Inc. - South Bend*. Based on your application and primary NELAP accreditation from the state of Florida, pursuant to authorization from the Executive Director of the Texas Commission on Environmental Quality, the Program Manager of the Quality Assurance Section has renewed your laboratory's secondary NELAP.

I am enclosing the new accreditation certificate and fields of accreditation listing. Please review the enclosures for accuracy and completeness. Your laboratory's accreditation is valid until the expiration date on the certificate and scope, contingent on continued compliance with the requirements of the state of Texas as well as those of your primary accreditation body.

Please contact me at frank.jamison@tceq.texas.gov if I can provide any additional information or assistance.

Sincerely,

Frank Jamison
Data and Records Specialist

Enclosures

Texas Commission on Environmental Quality

NELAP-Recognized Laboratory Accreditation is hereby awarded to

Eurofins Eaton Analytical, LLC - South Bend

110 South Hill Street
South Bend, IN 46617-2702

in accordance with Texas Water Code Chapter 5, Subchapter R, Title 30 Texas Administrative Code Chapter 25, and the National Environmental Laboratory Accreditation Program.

The laboratory's scope of accreditation includes the fields of accreditation that accompany this certificate. Continued accreditation depends upon successful ongoing participation in the program. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current location(s) and accreditation status for particular methods and analyses (www.tceq.texas.gov/goto/lab). Accreditation does not imply that a product, process, system or person is approved by the Texas Commission on Environmental Quality.

Erin E. Chancellor

Executive Director Texas Commission on Environmental Quality

Certificate Number: T104704187-23-17
Effective Date: 1/1/2024
Expiration Date: 12/31/2024

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

Certificate: T104704187-23-17

Eurofins Eaton Analytical, LLC - South Bend

Expiration Date: 12/31/2024

110 South Hill Street
South Bend, IN 46617-2702

Issue Date: 1/1/2024

These fields of accreditation supercede all previous fields. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current accreditation status for particular methods and analyses.

Matrix: ***Drinking Water***

Method EPA 200.7

Analyte	AB	Analyte ID	Method ID
Iron	FL	1070	10013806
Magnesium	FL	1085	10013806
Potassium	FL	1125	10013806
Silica as SiO2	FL	1990	10013806
Sodium	FL	1155	10013806

Method EPA 200.8

Analyte	AB	Analyte ID	Method ID
Aluminum	FL	1000	10014605
Antimony	FL	1005	10014605
Arsenic	FL	1010	10014605
Barium	FL	1015	10014605
Beryllium	FL	1020	10014605
Cadmium	FL	1030	10014605
Chromium	FL	1040	10014605
Copper	FL	1055	10014605
Lead	FL	1075	10014605
Manganese	FL	1090	10014605
Nickel	FL	1105	10014605
Selenium	FL	1140	10014605
Silver	FL	1150	10014605
Thallium	FL	1165	10014605
Uranium	FL	3035	10014605
Zinc	FL	1190	10014605

Method EPA 245.1

Analyte	AB	Analyte ID	Method ID
Mercury	FL	1095	10036609

Method EPA 300.0

Analyte	AB	Analyte ID	Method ID
Bromide	FL	1540	10053200

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

Certificate: T104704187-23-17
Expiration Date: 12/31/2024
Issue Date: 1/1/2024

Eurofins Eaton Analytical, LLC - South Bend

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South Bend, IN 46617-2702

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Matrix: ***Drinking Water***

Chloride	FL	1575	10053200
Chlorite	FL	1595	10053200
Fluoride	FL	1730	10053200
Nitrate as N	FL	1810	10053200
Sulfate	FL	2000	10053200

Method EPA 300.0 B

Analyte	**AB**	**Analyte ID**	**Method ID**
Bromide	FL	1540	10275408
Chlorate	FL	1570	10275408

Method EPA 300.1

Analyte	**AB**	**Analyte ID**	**Method ID**
Bromate	FL	1535	10275602

Method EPA 317.0

Analyte	**AB**	**Analyte ID**	**Method ID**
Bromate	FL	1535	10055808

Method EPA 335.4

Analyte	**AB**	**Analyte ID**	**Method ID**
Total cyanide	FL	1645	10061402

Method EPA 353.2

Analyte	**AB**	**Analyte ID**	**Method ID**
Nitrate as N	FL	1810	10067604
Nitrite as N	FL	1840	10067604

Method EPA 504.1

Analyte	**AB**	**Analyte ID**	**Method ID**
1,2-Dibromo-3-chloropropane (DBCP)	FL	4570	10082801
1,2-Dibromoethane (EDB, Ethylene dibromide)	FL	4585	10082801

Method EPA 505

Analyte	**AB**	**Analyte ID**	**Method ID**
Chlordane (tech.)	FL	7250	10083406
PCB Aroclor Identification	FL	8872	10083406
Toxaphene (Chlorinated camphene)	FL	8250	10083406

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

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Eurofins Eaton Analytical, LLC - South Bend

Expiration Date: 12/31/2024

110 South Hill Street
South Bend, IN 46617-2702

Issue Date: 1/1/2024

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Matrix: ***Drinking Water***

Method EPA 515.3

Analyte	AB	Analyte ID	Method ID
2,4-D	FL	8545	10088401
Dalapon	FL	8555	10088401
Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	FL	8620	10088401
Pentachlorophenol	FL	6605	10088401
Picloram	FL	8645	10088401
Silvex (2,4,5-TP)	FL	8650	10088401

Method EPA 524.2

Analyte	AB	Analyte ID	Method ID
1,1,1-Trichloroethane	FL	5160	10088809
1,1,2-Trichloroethane	FL	5165	10088809
1,1-Dichloroethylene	FL	4640	10088809
1,2,4-Trichlorobenzene	FL	5155	10088809
1,2-Dichlorobenzene	FL	4610	10088809
1,2-Dichloroethane (Ethylene dichloride)	FL	4635	10088809
1,2-Dichloropropane	FL	4655	10088809
1,4-Dichlorobenzene	FL	4620	10088809
Benzene	FL	4375	10088809
Carbon tetrachloride	FL	4455	10088809
Chlorobenzene	FL	4475	10088809
cis-1,2-Dichloroethylene	FL	4645	10088809
Ethylbenzene	FL	4765	10088809
m+p-xylene	FL	5240	10088809
Methylene chloride (Dichloromethane)	FL	4975	10088809
o-Xylene	FL	5250	10088809
Styrene	FL	5100	10088809
Tetrachloroethylene (Perchloroethylene)	FL	5115	10088809
Toluene	FL	5140	10088809
Total trihalomethanes	FL	5205	10088809
trans-1,2-Dichloroethylene	FL	4700	10088809

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

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Eurofins Eaton Analytical, LLC - South Bend

Expiration Date: 12/31/2024

110 South Hill Street
South Bend, IN 46617-2702

Issue Date: 1/1/2024

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Matrix: ***Drinking Water***

Trichloroethene (Trichloroethylene)	FL	5170	10088809
Vinyl chloride	FL	5235	10088809
Xylene (total)	FL	5260	10088809

Method EPA 525.2

Analyte	AB	Analyte ID	Method ID
Alachlor	FL	7005	10090003
Atrazine	FL	7065	10090003
Benzo(a)pyrene	FL	5580	10090003
bis(2-Ethylhexyl) adipate (Di(2-Ethylhexyl) adipate, DEHA)	FL	6062	10090003
bis(2-Ethylhexyl) phthalate (Di(2-Ethylhexyl) phthalate, DEHP)	FL	6065	10090003
Endrin	FL	7540	10090003
gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	FL	7120	10090003
Heptachlor	FL	7685	10090003
Heptachlor epoxide	FL	7690	10090003
Hexachlorobenzene	FL	6275	10090003
Hexachlorocyclopentadiene	FL	6285	10090003
Methoxychlor	FL	7810	10090003
Simazine	FL	8125	10090003

Method EPA 531.2

Analyte	AB	Analyte ID	Method ID
Carbofuran (Furaden)	FL	7205	10091302
Oxamyl (Vydate)	FL	7940	10091302

Method EPA 547

Analyte	AB	Analyte ID	Method ID
Glyphosate	FL	9411	10092009

Method EPA 548.1

Analyte	AB	Analyte ID	Method ID
Endothall	FL	7525	10092805

Method EPA 549.2

Analyte	AB	Analyte ID	Method ID
Diquat	FL	9390	10093400

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

Certificate: T104704187-23-17

Eurofins Eaton Analytical, LLC - South Bend

Expiration Date: 12/31/2024

110 South Hill Street
South Bend, IN 46617-2702

Issue Date: 1/1/2024

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Matrix: ***Drinking Water***

Method EPA 551.1

Analyte	AB	Analyte ID	Method ID
Total trihalomethanes	FL	5205	10094801

Method EPA 552.2

Analyte	AB	Analyte ID	Method ID
Total haloacetic acids	FL	9414	10095804

Method EPA 906.0

Analyte	AB	Analyte ID	Method ID
Tritium	FL	3030	10310200

Method IDEXX Laboratories SimPlate®

Analyte	AB	Analyte ID	Method ID
Heterotrophic plate count	FL	2555	60032602

Method SM 2510 B

Analyte	AB	Analyte ID	Method ID
Conductivity	FL	1610	20048004

Method SM 2540 C

Analyte	AB	Analyte ID	Method ID
Residue-filterable (TDS)	FL	1955	20049803

Method SM 4500-F^- C

Analyte	AB	Analyte ID	Method ID
Fluoride	FL	1730	20101808

Method SM 7110 B

Analyte	AB	Analyte ID	Method ID
Gross-alpha	FL	2830	20157033
Gross-beta	FL	2840	20157033

Method SM 7110 C

Analyte	AB	Analyte ID	Method ID
Gross-alpha	FL	2830	20158401

Method SM 7500-Ra B

Analyte	AB	Analyte ID	Method ID
Radium-226	FL	2965	20170007

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

Certificate: T104704187-23-17

Eurofins Eaton Analytical, LLC - South Bend

Expiration Date: 12/31/2024

Issue Date: 1/1/2024

110 South Hill Street
South Bend, IN 46617-2702

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Matrix: ***Drinking Water***

Method SM 7500-Ra D

Analyte	AB	Analyte ID	Method ID
Radium-228	FL	2970	20173006

Method SM 9223-IDEXX Laboratories Colilert® Test

Analyte	AB	Analyte ID	Method ID
Total coliforms and E. coli (P/A)	FL	2502	20212413

Method SM 9223-IDEXX Laboratories Colilert® Quanti-Tray Test

Analyte	AB	Analyte ID	Method ID
Escherichia coli (enumeration)	FL	2525	20211603
Total coliforms (enumeration)	FL	2500	20211603

Method SM 9223-IDEXX Laboratories Colilert®-18 Test

Analyte	AB	Analyte ID	Method ID
Total coliforms and E. coli (P/A)	FL	2502	20214602

Method SM 9223-IDEXX Laboratories Colilert®-18 Quanti-Tray Test

Analyte	AB	Analyte ID	Method ID
Escherichia coli (enumeration)	FL	2525	20211603
Total coliforms (enumeration)	FL	2500	20211603

Method SM 9223-IDEXX Laboratories Colisure® Test

Analyte	AB	Analyte ID	Method ID
Total coliforms and E. coli (P/A)	FL	2502	20231805

Texas Commission on Environmental Quality

NELAP-Recognized Laboratory Accreditation is hereby awarded to

Eurofins St. Louis

13715 Rider Trail North
Earth City, MO 63045-1205

in accordance with Texas Water Code Chapter 5, Subchapter R, Title 30 Texas Administrative Code Chapter 25, and the National Environmental Laboratory Accreditation Program.

The laboratory's scope of accreditation includes the fields of accreditation that accompany this certificate. Continued accreditation depends upon successful ongoing participation in the program. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current location(s) and accreditation status for particular methods and analyses (www.tceq.texas.gov/goto/lab). Accreditation does not imply that a product, process, system or person is approved by the Texas Commission on Environmental Quality.

Erin E. Chancellor

Executive Director Texas Commission on Environmental Quality

Certificate Number: T104704193-23-22
Effective Date: 8/1/2023
Expiration Date: 7/31/2024

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

Certificate: T104704193-23-22
Expiration Date: 7/31/2024
Issue Date: 8/1/2023

Eurofins St. Louis

13715 Rider Trail North
Earth City, MO 63045-1205

These fields of accreditation supercede all previous fields. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current accreditation status for particular methods and analyses.

Matrix: ***Drinking Water***

Method EPA 200.8

Analyte	AB	Analyte ID	Method ID
Uranium	FL	3035	10014605

Method EPA 900.0

Analyte	AB	Analyte ID	Method ID
Gross-alpha	FL	2830	10308200
Gross-beta	FL	2840	10308200

Method EPA 903.0

Analyte	AB	Analyte ID	Method ID
Radium-226	FL	2965	10309407

Method EPA 904.0

Analyte	AB	Analyte ID	Method ID
Radium-228	FL	2970	10309805

Method EPA 905.0

Analyte	AB	Analyte ID	Method ID
Strontium-90	FL	3005	10310006

Method EPA 906.0

Analyte	AB	Analyte ID	Method ID
Tritium	FL	3030	10310200

Method HASL-300 Sr-02-RC

Analyte	AB	Analyte ID	Method ID
Strontium-90	FL	3005	DOE Sr-02

Method HASL-300 U-02-RC

Analyte	AB	Analyte ID	Method ID
Uranium	FL	3035	90011204

Method SM 7110 C

Analyte	AB	Analyte ID	Method ID
Gross-alpha	FL	2830	20158401

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

Certificate: T104704193-23-22
Expiration Date: 7/31/2024
Issue Date: 8/1/2023

Eurofins St. Louis

13715 Rider Trail North
Earth City, MO 63045-1205

These fields of accreditation supercede all previous fields. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current accreditation status for particular methods and analyses.

Matrix: ***Non-Potable Water***

Method EPA 200.7

Analyte	AB	Analyte ID	Method ID
Aluminum	LA-DEQ	1000	10013806
Antimony	LA-DEQ	1005	10013806
Arsenic	LA-DEQ	1010	10013806
Barium	LA-DEQ	1015	10013806
Beryllium	LA-DEQ	1020	10013806
Boron	LA-DEQ	1025	10013806
Cadmium	LA-DEQ	1030	10013806
Calcium	LA-DEQ	1035	10013806
Chromium	LA-DEQ	1040	10013806
Cobalt	LA-DEQ	1050	10013806
Copper	LA-DEQ	1055	10013806
Iron	LA-DEQ	1070	10013806
Lead	LA-DEQ	1075	10013806
Lithium	LA-DEQ	1080	10013806
Magnesium	LA-DEQ	1085	10013806
Manganese	LA-DEQ	1090	10013806
Molybdenum	LA-DEQ	1100	10013806
Nickel	LA-DEQ	1105	10013806
Phosphorus	LA-DEQ	1910	10013806
Potassium	LA-DEQ	1125	10013806
Selenium	LA-DEQ	1140	10013806
Silica as SiO2	LA-DEQ	1990	10013806
Silver	LA-DEQ	1150	10013806
Sodium	LA-DEQ	1155	10013806
Strontium	LA-DEQ	1160	10013806
Thallium	LA-DEQ	1165	10013806
Tin	LA-DEQ	1175	10013806
Titanium	LA-DEQ	1180	10013806

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

Certificate: T104704193-23-22
Expiration Date: 7/31/2024
Issue Date: 8/1/2023

Eurofins St. Louis
13715 Rider Trail North
Earth City, MO 63045-1205

These fields of accreditation supercede all previous fields. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current accreditation status for particular methods and analyses.

Matrix: ***Non-Potable Water***

Vanadium	LA-DEQ	1185	10013806
Zinc	LA-DEQ	1190	10013806

Method EPA 200.8

Analyte	AB	Analyte ID	Method ID
Aluminum	LA-DEQ	1000	10014605
Antimony	LA-DEQ	1005	10014605
Arsenic	LA-DEQ	1010	10014605
Barium	LA-DEQ	1015	10014605
Beryllium	LA-DEQ	1020	10014605
Boron	LA-DEQ	1025	10014605
Cadmium	LA-DEQ	1030	10014605
Calcium	LA-DEQ	1035	10014605
Chromium	LA-DEQ	1040	10014605
Cobalt	LA-DEQ	1050	10014605
Copper	LA-DEQ	1055	10014605
Iron	LA-DEQ	1070	10014605
Lead	LA-DEQ	1075	10014605
Magnesium	LA-DEQ	1085	10014605
Manganese	LA-DEQ	1090	10014605
Molybdenum	LA-DEQ	1100	10014605
Nickel	LA-DEQ	1105	10014605
Potassium	LA-DEQ	1125	10014605
Selenium	LA-DEQ	1140	10014605
Silver	LA-DEQ	1150	10014605
Sodium	LA-DEQ	1155	10014605
Strontium	LA-DEQ	1160	10014605
Thallium	LA-DEQ	1165	10014605
Thorium	LA-DEQ	1170	10014605
Tin	LA-DEQ	1175	10014605
Titanium	LA-DEQ	1180	10014605

Texas Commission on Environmental Quality

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13715 Rider Trail North
Earth City, MO 63045-1205

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Matrix: ***Non-Potable Water***

Uranium	LA-DEQ	3035	10014605
Vanadium	LA-DEQ	1185	10014605
Zinc	LA-DEQ	1190	10014605

Method EPA 245.1

Analyte	AB	Analyte ID	Method ID
Mercury	LA-DEQ	1095	10036609

Method EPA 6010

Analyte	AB	Analyte ID	Method ID
Aluminum	LA-DEQ	1000	10155201
Antimony	LA-DEQ	1005	10155201
Arsenic	LA-DEQ	1010	10155201
Barium	LA-DEQ	1015	10155201
Beryllium	LA-DEQ	1020	10155201
Boron	LA-DEQ	1025	10155201
Cadmium	LA-DEQ	1030	10155201
Calcium	LA-DEQ	1035	10155201
Chromium	LA-DEQ	1040	10155201
Cobalt	LA-DEQ	1050	10155201
Copper	LA-DEQ	1055	10155201
Iron	LA-DEQ	1070	10155201
Lead	LA-DEQ	1075	10155201
Lithium	LA-DEQ	1080	10155201
Magnesium	LA-DEQ	1085	10155201
Manganese	LA-DEQ	1090	10155201
Molybdenum	LA-DEQ	1100	10155201
Nickel	LA-DEQ	1105	10155201
Phosphorus	LA-DEQ	1910	10155201
Potassium	LA-DEQ	1125	10155201
Selenium	LA-DEQ	1140	10155201
Silica as SiO2	LA-DEQ	1990	10155201
Silver	LA-DEQ	1150	10155201

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

Certificate: T104704193-23-22

Eurofins St. Louis

Expiration Date: 7/31/2024

13715 Rider Trail North
Earth City, MO 63045-1205

Issue Date: 8/1/2023

These fields of accreditation supercede all previous fields. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current accreditation status for particular methods and analyses.

Matrix: ***Non-Potable Water***

Sodium	LA-DEQ	1155	10155201
Strontium	LA-DEQ	1160	10155201
Thallium	LA-DEQ	1165	10155201
Tin	LA-DEQ	1175	10155201
Titanium	LA-DEQ	1180	10155201
Vanadium	LA-DEQ	1185	10155201
Zinc	LA-DEQ	1190	10155201

Method EPA 6020

Analyte	**AB**	**Analyte ID**	**Method ID**
Aluminum	LA-DEQ	1000	10156204
Antimony	LA-DEQ	1005	10156204
Arsenic	LA-DEQ	1010	10156204
Barium	LA-DEQ	1015	10156204
Beryllium	LA-DEQ	1020	10156204
Boron	LA-DEQ	1025	10156204
Cadmium	LA-DEQ	1030	10156204
Calcium	LA-DEQ	1035	10156204
Chromium	LA-DEQ	1040	10156204
Cobalt	LA-DEQ	1050	10156204
Copper	LA-DEQ	1055	10156204
Iron	LA-DEQ	1070	10156204
Lead	LA-DEQ	1075	10156204
Lithium	LA-DEQ	1080	10156204
Magnesium	LA-DEQ	1085	10156204
Manganese	LA-DEQ	1090	10156204
Molybdenum	LA-DEQ	1100	10156204
Nickel	LA-DEQ	1105	10156204
Potassium	LA-DEQ	1125	10156204
Selenium	LA-DEQ	1140	10156204
Silver	LA-DEQ	1150	10156204

Texas Commission on Environmental Quality

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Eurofins St. Louis
13715 Rider Trail North
Earth City, MO 63045-1205

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Matrix: ***Non-Potable Water***

Sodium	LA-DEQ	1155	10156204
Strontium	LA-DEQ	1160	10156204
Thallium	LA-DEQ	1165	10156204
Tin	LA-DEQ	1175	10156204
Titanium	LA-DEQ	1180	10156204
Vanadium	LA-DEQ	1185	10156204
Zinc	LA-DEQ	1190	10156204

Method EPA 7470

Analyte	**AB**	**Analyte ID**	**Method ID**
Mercury	LA-DEQ	1095	10165603

Method EPA 900.0

Analyte	**AB**	**Analyte ID**	**Method ID**
Gross-alpha	LA-DEQ	2830	10308200
Gross-beta	LA-DEQ	2840	10308200

Method EPA 903.0

Analyte	**AB**	**Analyte ID**	**Method ID**
Total radium	LA-DEQ	2975	10309407

Method HASL-300 Ga-01-R

Analyte	**AB**	**Analyte ID**	**Method ID**
Gross gamma	LA-DEQ	2855	90000207

Texas Commission on Environmental Quality

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Earth City, MO 63045-1205

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Matrix: ***Solid & Chemical Materials***

Method EPA 6010

Analyte	AB	Analyte ID	Method ID
Aluminum	LA-DEQ	1000	10155201
Antimony	LA-DEQ	1005	10155201
Arsenic	LA-DEQ	1010	10155201
Barium	LA-DEQ	1015	10155201
Beryllium	LA-DEQ	1020	10155201
Boron	LA-DEQ	1025	10155201
Cadmium	LA-DEQ	1030	10155201
Calcium	LA-DEQ	1035	10155201
Chromium	LA-DEQ	1040	10155201
Cobalt	LA-DEQ	1050	10155201
Copper	LA-DEQ	1055	10155201
Iron	LA-DEQ	1070	10155201
Lead	LA-DEQ	1075	10155201
Lithium	LA-DEQ	1080	10155201
Magnesium	LA-DEQ	1085	10155201
Manganese	LA-DEQ	1090	10155201
Molybdenum	LA-DEQ	1100	10155201
Nickel	LA-DEQ	1105	10155201
Potassium	LA-DEQ	1125	10155201
Selenium	LA-DEQ	1140	10155201
Silica as SiO2	LA-DEQ	1990	10155201
Silver	LA-DEQ	1150	10155201
Sodium	LA-DEQ	1155	10155201
Strontium	LA-DEQ	1160	10155201
Thallium	LA-DEQ	1165	10155201
Tin	LA-DEQ	1175	10155201
Titanium	LA-DEQ	1180	10155201
Vanadium	LA-DEQ	1185	10155201

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

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Eurofins St. Louis

13715 Rider Trail North
Earth City, MO 63045-1205

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Matrix: ***Solid & Chemical Materials***

Zinc	LA-DEQ	1190	10155201

Method EPA 6020

Analyte	AB	Analyte ID	Method ID
Aluminum	LA-DEQ	1000	10156204
Antimony	LA-DEQ	1005	10156204
Arsenic	LA-DEQ	1010	10156204
Barium	LA-DEQ	1015	10156204
Beryllium	LA-DEQ	1020	10156204
Boron	LA-DEQ	1025	10156204
Cadmium	LA-DEQ	1030	10156204
Calcium	LA-DEQ	1035	10156204
Chromium	LA-DEQ	1040	10156204
Cobalt	LA-DEQ	1050	10156204
Copper	LA-DEQ	1055	10156204
Iron	LA-DEQ	1070	10156204
Lead	LA-DEQ	1075	10156204
Lithium	LA-DEQ	1080	10156204
Magnesium	LA-DEQ	1085	10156204
Manganese	LA-DEQ	1090	10156204
Molybdenum	LA-DEQ	1100	10156204
Nickel	LA-DEQ	1105	10156204
Potassium	LA-DEQ	1125	10156204
Selenium	LA-DEQ	1140	10156204
Silver	LA-DEQ	1150	10156204
Sodium	LA-DEQ	1155	10156204
Strontium	LA-DEQ	1160	10156204
Thallium	LA-DEQ	1165	10156204
Tin	LA-DEQ	1175	10156204
Titanium	LA-DEQ	1180	10156204
Vanadium	LA-DEQ	1185	10156204

Texas Commission on Environmental Quality

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Eurofins St. Louis
13715 Rider Trail North
Earth City, MO 63045-1205

These fields of accreditation supercede all previous fields. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current accreditation status for particular methods and analyses.

Matrix: ***Solid & Chemical Materials***

Zinc	LA-DEQ	1190	10156204

Method EPA 7471

Analyte	**AB**	**Analyte ID**	**Method ID**
Mercury	LA-DEQ	1095	10166004

Method EPA 9310

Analyte	**AB**	**Analyte ID**	**Method ID**
Gross-alpha	LA-DEQ	2830	10310802
Gross-beta	LA-DEQ	2840	10310802

Method HASL-300 Ga-01-R

Analyte	**AB**	**Analyte ID**	**Method ID**
Gross gamma	LA-DEQ	2855	90000207

Method HASL-300 U-02-RC

Analyte	**AB**	**Analyte ID**	**Method ID**
Uranium	LA-DEQ	3035	90011204

Texas Commission on
Environmental Quality

Certificate of Accreditation

Accreditation is hereby granted to

Eurofins St. Louis
13715 Rider Trail North
Earth City, MO 63045-1205

State Lab ID: T104704193
Effective Date: 08/01/2024
Expiration Date: 07/31/2025
Certificate ID: TX-C24-00256

Conditions of Accreditation

This laboratory has been found to conform with TCEQ rules and applicable standards for laboratory accreditation. The scope of accreditation is limited to the Fields of Accreditation (FoA) specifically listed on the subsequent page(s) of this certificate. Accreditation is for all version of a method approved per 40 CFR 136, 40 CFR 141, and/or 40 CFR 143. Continued accreditation requires ongoing compliance with all applicable standards and requirements.

Note: For the attached FoA table, matrices may include DW (drinking water), NPW (non-potable water), S (solid and chemical materials), A (air), and/or BT (biological tissue).

Issued By: Kelly Keel, Executive Director Texas Commission on Environmental Quality
Date Issued: 08/01/2024

Laboratory Fields of Accreditation

Matrix	Method	Method Code	Analyte	Analyte Code	AB
DW	DOE EML Sr-02-RC	90009204	Strontium-90	3005	LA-DEQ
DW	DOE EML U-02-RC	90011204	Uranium	3035	FL
DW	EPA 200.8	10014605	Uranium	3035	FL
DW	EPA 900.0	10308200	Gross alpha	2830	FL
DW	EPA 900.0	10308200	Gross beta	2840	FL
DW	EPA 903.0	10309407	Radium-226	2965	FL
DW	EPA 904.0	10309805	Radium-228	2970	FL
DW	EPA 905.0	10310006	Strontium-90	3005	FL
DW	EPA 906.0	10310200	Tritium	3030	FL
DW	SM 7110 C	20158401	Gross alpha	2830	FL
NPW	DOE EML sec 4.5.2.3	90000207	Gross gamma	2855	LA-DEQ
NPW	EPA 200.7	10013806	Aluminum	1000	LA-DEQ
NPW	EPA 200.7	10013806	Antimony	1005	LA-DEQ
NPW	EPA 200.7	10013806	Arsenic	1010	LA-DEQ
NPW	EPA 200.7	10013806	Barium	1015	LA-DEQ
NPW	EPA 200.7	10013806	Beryllium	1020	LA-DEQ
NPW	EPA 200.7	10013806	Boron	1025	LA-DEQ
NPW	EPA 200.7	10013806	Cadmium	1030	LA-DEQ
NPW	EPA 200.7	10013806	Calcium	1035	LA-DEQ
NPW	EPA 200.7	10013806	Chromium	1040	LA-DEQ
NPW	EPA 200.7	10013806	Cobalt	1050	LA-DEQ
NPW	EPA 200.7	10013806	Copper	1055	LA-DEQ
NPW	EPA 200.7	10013806	Iron	1070	LA-DEQ
NPW	EPA 200.7	10013806	Lead	1075	LA-DEQ
NPW	EPA 200.7	10013806	Lithium	1080	LA-DEQ
NPW	EPA 200.7	10013806	Magnesium	1085	LA-

					DEQ
NPW	EPA 200.7	10013806	Manganese	1090	LA-DEQ
NPW	EPA 200.7	10013806	Molybdenum	1100	LA-DEQ
NPW	EPA 200.7	10013806	Nickel	1105	LA-DEQ
NPW	EPA 200.7	10013806	Potassium	1125	LA-DEQ
NPW	EPA 200.7	10013806	Selenium	1140	LA-DEQ
NPW	EPA 200.7	10013806	Silica as SiO2	1990	LA-DEQ
NPW	EPA 200.7	10013806	Silver	1150	LA-DEQ
NPW	EPA 200.7	10013806	Sodium	1155	LA-DEQ
NPW	EPA 200.7	10013806	Strontium	1160	LA-DEQ
NPW	EPA 200.7	10013806	Thallium	1165	LA-DEQ
NPW	EPA 200.7	10013806	Tin	1175	LA-DEQ
NPW	EPA 200.7	10013806	Titanium	1180	LA-DEQ
NPW	EPA 200.7	10013806	Total Phosphorus	1910	LA-DEQ
NPW	EPA 200.7	10013806	Vanadium	1185	LA-DEQ
NPW	EPA 200.7	10013806	Zinc	1190	LA-DEQ
NPW	EPA 200.8	10014605	Aluminum	1000	LA-DEQ
NPW	EPA 200.8	10014605	Antimony	1005	LA-DEQ
NPW	EPA 200.8	10014605	Arsenic	1010	LA-DEQ
NPW	EPA 200.8	10014605	Barium	1015	LA-DEQ
NPW	EPA 200.8	10014605	Beryllium	1020	LA-DEQ
NPW	EPA 200.8	10014605	Boron	1025	LA-DEQ
NPW	EPA 200.8	10014605	Cadmium	1030	LA-DEQ
NPW	EPA 200.8	10014605	Calcium	1035	LA-DEQ
NPW	EPA 200.8	10014605	Chromium	1040	LA-

					DEQ
NPW	EPA 200.8	10014605	Cobalt	1050	LA-DEQ
NPW	EPA 200.8	10014605	Copper	1055	LA-DEQ
NPW	EPA 200.8	10014605	Iron	1070	LA-DEQ
NPW	EPA 200.8	10014605	Lead	1075	LA-DEQ
NPW	EPA 200.8	10014605	Magnesium	1085	LA-DEQ
NPW	EPA 200.8	10014605	Manganese	1090	LA-DEQ
NPW	EPA 200.8	10014605	Molybdenum	1100	LA-DEQ
NPW	EPA 200.8	10014605	Nickel	1105	LA-DEQ
NPW	EPA 200.8	10014605	Potassium	1125	LA-DEQ
NPW	EPA 200.8	10014605	Selenium	1140	LA-DEQ
NPW	EPA 200.8	10014605	Silver	1150	LA-DEQ
NPW	EPA 200.8	10014605	Sodium	1155	LA-DEQ
NPW	EPA 200.8	10014605	Strontium	1160	LA-DEQ
NPW	EPA 200.8	10014605	Thallium	1165	LA-DEQ
NPW	EPA 200.8	10014605	Thorium	1170	LA-DEQ
NPW	EPA 200.8	10014605	Tin	1175	LA-DEQ
NPW	EPA 200.8	10014605	Titanium	1180	LA-DEQ
NPW	EPA 200.8	10014605	Uranium	3035	LA-DEQ
NPW	EPA 200.8	10014605	Vanadium	1185	LA-DEQ
NPW	EPA 200.8	10014605	Zinc	1190	LA-DEQ
NPW	EPA 245.1	10036609	Mercury	1095	LA-DEQ
NPW	EPA 6010	10155201	Aluminum	1000	LA-DEQ
NPW	EPA 6010	10155201	Antimony	1005	LA-DEQ
NPW	EPA 6010	10155201	Arsenic	1010	LA-

					DEQ
NPW	EPA 6010	10155201	Barium	1015	LA-DEQ
NPW	EPA 6010	10155201	Beryllium	1020	LA-DEQ
NPW	EPA 6010	10155201	Boron	1025	LA-DEQ
NPW	EPA 6010	10155201	Cadmium	1030	LA-DEQ
NPW	EPA 6010	10155201	Calcium	1035	LA-DEQ
NPW	EPA 6010	10155201	Chromium	1040	LA-DEQ
NPW	EPA 6010	10155201	Cobalt	1050	LA-DEQ
NPW	EPA 6010	10155201	Copper	1055	LA-DEQ
NPW	EPA 6010	10155201	Iron	1070	LA-DEQ
NPW	EPA 6010	10155201	Lead	1075	LA-DEQ
NPW	EPA 6010	10155201	Lithium	1080	LA-DEQ
NPW	EPA 6010	10155201	Magnesium	1085	LA-DEQ
NPW	EPA 6010	10155201	Manganese	1090	LA-DEQ
NPW	EPA 6010	10155201	Molybdenum	1100	LA-DEQ
NPW	EPA 6010	10155201	Nickel	1105	LA-DEQ
NPW	EPA 6010	10155201	Potassium	1125	LA-DEQ
NPW	EPA 6010	10155201	Selenium	1140	LA-DEQ
NPW	EPA 6010	10155201	Silica as SiO2	1990	LA-DEQ
NPW	EPA 6010	10155201	Silver	1150	LA-DEQ
NPW	EPA 6010	10155201	Sodium	1155	LA-DEQ
NPW	EPA 6010	10155201	Strontium	1160	LA-DEQ
NPW	EPA 6010	10155201	Thallium	1165	LA-DEQ
NPW	EPA 6010	10155201	Tin	1175	LA-DEQ
NPW	EPA 6010	10155201	Titanium	1180	LA-

					DEQ
NPW	EPA 6010	10155201	Total Phosphorus	1910	LA-DEQ
NPW	EPA 6010	10155201	Vanadium	1185	LA-DEQ
NPW	EPA 6010	10155201	Zinc	1190	LA-DEQ
NPW	EPA 6020	10156204	Aluminum	1000	LA-DEQ
NPW	EPA 6020	10156204	Antimony	1005	LA-DEQ
NPW	EPA 6020	10156204	Arsenic	1010	LA-DEQ
NPW	EPA 6020	10156204	Barium	1015	LA-DEQ
NPW	EPA 6020	10156204	Beryllium	1020	LA-DEQ
NPW	EPA 6020	10156204	Boron	1025	LA-DEQ
NPW	EPA 6020	10156204	Cadmium	1030	LA-DEQ
NPW	EPA 6020	10156204	Calcium	1035	LA-DEQ
NPW	EPA 6020	10156204	Chromium	1040	LA-DEQ
NPW	EPA 6020	10156204	Cobalt	1050	LA-DEQ
NPW	EPA 6020	10156204	Copper	1055	LA-DEQ
NPW	EPA 6020	10156204	Iron	1070	LA-DEQ
NPW	EPA 6020	10156204	Lead	1075	LA-DEQ
NPW	EPA 6020	10156204	Lithium	1080	LA-DEQ
NPW	EPA 6020	10156204	Magnesium	1085	LA-DEQ
NPW	EPA 6020	10156204	Manganese	1090	LA-DEQ
NPW	EPA 6020	10156204	Molybdenum	1100	LA-DEQ
NPW	EPA 6020	10156204	Nickel	1105	LA-DEQ
NPW	EPA 6020	10156204	Potassium	1125	LA-DEQ
NPW	EPA 6020	10156204	Selenium	1140	LA-DEQ
NPW	EPA 6020	10156204	Silver	1150	LA-

					DEQ
NPW	EPA 6020	10156204	Sodium	1155	LA-DEQ
NPW	EPA 6020	10156204	Strontium	1160	LA-DEQ
NPW	EPA 6020	10156204	Thallium	1165	LA-DEQ
NPW	EPA 6020	10156204	Tin	1175	LA-DEQ
NPW	EPA 6020	10156204	Titanium	1180	LA-DEQ
NPW	EPA 6020	10156204	Vanadium	1185	LA-DEQ
NPW	EPA 6020	10156204	Zinc	1190	LA-DEQ
NPW	EPA 7470	10165603	Mercury	1095	LA-DEQ
NPW	EPA 900.0	10308200	Gross alpha	2830	LA-DEQ
NPW	EPA 900.0	10308200	Gross beta	2840	LA-DEQ
NPW	EPA 903.0	10309407	Total Radium	2975	LA-DEQ
S	DOE EML sec 4.5.2.3	90000207	Gross gamma	2855	LA-DEQ
S	DOE EML U-02-RC	90011204	Uranium	3035	LA-DEQ
S	EPA 6010	10155201	Aluminum	1000	LA-DEQ
S	EPA 6010	10155201	Antimony	1005	LA-DEQ
S	EPA 6010	10155201	Arsenic	1010	LA-DEQ
S	EPA 6010	10155201	Barium	1015	LA-DEQ
S	EPA 6010	10155201	Beryllium	1020	LA-DEQ
S	EPA 6010	10155201	Boron	1025	LA-DEQ
S	EPA 6010	10155201	Cadmium	1030	LA-DEQ
S	EPA 6010	10155201	Calcium	1035	LA-DEQ
S	EPA 6010	10155201	Chromium	1040	LA-DEQ
S	EPA 6010	10155201	Cobalt	1050	LA-DEQ
S	EPA 6010	10155201	Copper	1055	LA-

					DEQ
S	EPA 6010	10155201	Iron	1070	LA-DEQ
S	EPA 6010	10155201	Lead	1075	LA-DEQ
S	EPA 6010	10155201	Lithium	1080	LA-DEQ
S	EPA 6010	10155201	Magnesium	1085	LA-DEQ
S	EPA 6010	10155201	Manganese	1090	LA-DEQ
S	EPA 6010	10155201	Molybdenum	1100	LA-DEQ
S	EPA 6010	10155201	Nickel	1105	LA-DEQ
S	EPA 6010	10155201	Potassium	1125	LA-DEQ
S	EPA 6010	10155201	Selenium	1140	LA-DEQ
S	EPA 6010	10155201	Silica as SiO2	1990	LA-DEQ
S	EPA 6010	10155201	Silver	1150	LA-DEQ
S	EPA 6010	10155201	Sodium	1155	LA-DEQ
S	EPA 6010	10155201	Strontium	1160	LA-DEQ
S	EPA 6010	10155201	Thallium	1165	LA-DEQ
S	EPA 6010	10155201	Tin	1175	LA-DEQ
S	EPA 6010	10155201	Titanium	1180	LA-DEQ
S	EPA 6010	10155201	Vanadium	1185	LA-DEQ
S	EPA 6010	10155201	Zinc	1190	LA-DEQ
S	EPA 6020	10156204	Aluminum	1000	LA-DEQ
S	EPA 6020	10156204	Antimony	1005	LA-DEQ
S	EPA 6020	10156204	Arsenic	1010	LA-DEQ
S	EPA 6020	10156204	Barium	1015	LA-DEQ
S	EPA 6020	10156204	Beryllium	1020	LA-DEQ
S	EPA 6020	10156204	Boron	1025	LA-

					DEQ
S	EPA 6020	10156204	Cadmium	1030	LA-DEQ
S	EPA 6020	10156204	Calcium	1035	LA-DEQ
S	EPA 6020	10156204	Chromium	1040	LA-DEQ
S	EPA 6020	10156204	Cobalt	1050	LA-DEQ
S	EPA 6020	10156204	Copper	1055	LA-DEQ
S	EPA 6020	10156204	Iron	1070	LA-DEQ
S	EPA 6020	10156204	Lead	1075	LA-DEQ
S	EPA 6020	10156204	Lithium	1080	LA-DEQ
S	EPA 6020	10156204	Magnesium	1085	LA-DEQ
S	EPA 6020	10156204	Manganese	1090	LA-DEQ
S	EPA 6020	10156204	Molybdenum	1100	LA-DEQ
S	EPA 6020	10156204	Nickel	1105	LA-DEQ
S	EPA 6020	10156204	Potassium	1125	LA-DEQ
S	EPA 6020	10156204	Selenium	1140	LA-DEQ
S	EPA 6020	10156204	Silver	1150	LA-DEQ
S	EPA 6020	10156204	Sodium	1155	LA-DEQ
S	EPA 6020	10156204	Strontium	1160	LA-DEQ
S	EPA 6020	10156204	Thallium	1165	LA-DEQ
S	EPA 6020	10156204	Tin	1175	LA-DEQ
S	EPA 6020	10156204	Titanium	1180	LA-DEQ
S	EPA 6020	10156204	Vanadium	1185	LA-DEQ
S	EPA 6020	10156204	Zinc	1190	LA-DEQ
S	EPA 7471	10166004	Mercury	1095	LA-DEQ
S	EPA 9310	10310802	Gross alpha	2830	LA-

					DEQ
S	EPA 9310	10310802	Gross beta	2840	LA-DEQ