

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? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Address 1: 6200 FM 3387		Program Area:	IHW CORRECTIVE ACTION ▼
Address 2:		Mail Code:	MC-127
City: Christine	State: Texas	Is This A New Site To This Program Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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, 2024

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

Table 2 - Industrial & Hazardous Waste Correspondence

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

2023 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

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



Issued: 31 January 2024

Prepared for: San Miguel Electric Cooperative, Inc.



GSI Environmental Inc.

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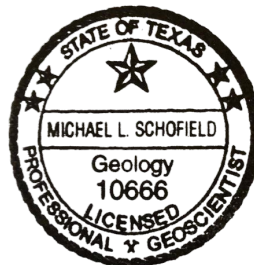


**2023 ANNUAL GROUNDWATER MONITORING AND
CORRECTIVE ACTION REPORT**

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

A handwritten signature in blue ink, appearing to read 'Michael L. Schofield'.

Michael L. Schofield, PG
Texas Professional Geoscientist, #10666



A handwritten signature in black ink, appearing to read 'Stephen D. Richardson'.

Stephen D. Richardson, PhD, PE
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Prepared for:

SAN MIGUEL ELECTRIC COOPERATIVE, INC.

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Issued: 31 January 2024

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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 2023 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 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 1×10^{-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 2023 and September 2023 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). The second semiannual sampling event of the year is typically conducted in August, however this year the sampling was postponed one month due to a tropical storm.

Additional activities at the Ash Pile included:

- Re-Testing Events, to confirm no releases to groundwater. Groundwater re-testing events were conducted at the Ash Pile in i) May 2023 for the February semiannual event and ii) November and December 2023 for the September 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 May event did not confirm the initial exceedances of Boron, Calcium, Chloride, Fluoride, Sulfate and total dissolved

solids (TDS) noted at select wells. Results from the November and December events confirmed a statistically significant increase (SSI) of Calcium in wells SP-02 and SP-32. Initial exceedances of Boron and TDS at select wells were not confirmed during these events. Refer to Table 4A for additional details with respect to re-testing events.

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 Ponds and Equalization Pond:

- The detection limits for thallium were higher than the groundwater protection standards (GWPS) during the February 2023 event (Table 4C). This is a result of laboratory sample dilution necessary to bring the concentration of target analytes within the calibration range.

No issues were identified with the groundwater monitoring program at the Ash Pile.

2.4 Projected Key Activities for the Upcoming Year

In 2024, 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 2024.

- 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-02 and SP-32. An alternative source description (ASD) will be prepared and submitted to TCEQ in the first quarter of 2024.

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 31 monitoring wells installed between July 2015 and October 2016 (AECOM, 2018; ERM, 2017) (Figure 1). The well network includes: five monitoring wells for the Ash Pile, 11 monitoring wells for the Ash Ponds, nine monitoring wells for the East Equalization Pond, and six 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.

No monitoring wells were added or removed from the CCR unit-specific monitoring well network in 2023. All wells were found to be in good working condition during the February and September 2023 sampling events.

3.2 Additional Groundwater Monitoring at the Plant

There were no changes to the CCR unit-specific monitoring well network in 2023. 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 2023 and September 2023. 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 2023 and September 2023 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 2023 were Boron (SP-03 and SP-32), Calcium (SP-03 and SP-32), Chloride (SP-32), Fluoride (SP-02 and SP-32), Sulfate (SP-34 and 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 these initial exceedances of Boron, Chloride, Fluoride, 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 2023 semiannual monitoring results for the Ash Ponds are summarized in Table 4B. The Appendix IV constituents with exceedances of the respective GWPS in 2023 were Arsenic (PZ-03 and AP-33), Mercury (AP-33, AP-34 and AP-35), and Combined Radium (AP-32, AP-33, 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 Appendix IV constituents with exceedances of GWPS in 2023 were Thallium (EP-31), and Combined Radium (EP-32 and EP-34).

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 2023. For reference, the status of monitoring program at each unit is summarized below:

- Ash Pile. In 2023, detection monitoring continued.
- Ash Ponds. In 2023, 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 2023, 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 2023 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. Resampling events did confirm SSIs of Calcium at wells SP-03 and SP-32. An ASD will be prepared and submitted to TCEQ in 2024.
- Recordkeeping, § 257.94(f). The 2022 Annual Groundwater Monitoring and Corrective Action Report was posted to the San Miguel website in February 2023.

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 2023, 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 2022 and September 2022. No alternative monitoring frequency has been developed or proposed for the Ash Ponds or Equalization Pond. The second semiannual sampling event of the year is typically conducted in August, however this year the sampling was postponed one month due to a tropical storm.
 - 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 2023 were arsenic, mercury, and combined radium for the Ash Ponds, and thallium and combined radium for the East Equalization Pond.
- Recordkeeping, § 257.95(i). The 2022 Annual Groundwater Monitoring and Corrective Action Report was posted to the San Miguel website in February 2023.
- Source Control: 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 2023, the groundwater extraction system operated from January through the beginning of December when it was shut down for maintenance and water management. 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.

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.

2023 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

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

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TABLE 1
Groundwater Sampling Event Summary - 2023

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	4	2/21/2023	Detection Monitoring
					5/5/2023	
					9/6/2023	
					11/27/2023	
SP-01	11/12/2015	Downgradient Monitoring Well	Downgradient	2	2/21/2023	Detection Monitoring
					9/6/2023	
SP-02	11/13/2015	Downgradient Monitoring Well	Downgradient	3	2/21/2023	Detection Monitoring
					5/5/2023	
					9/6/2023	
SP-03	11/11/2015	Downgradient Monitoring Well	Downgradient	5	2/21/2023	Detection Monitoring
					5/5/2023	
					9/6/2023	
					11/27/2023	
					12/18/2023	
SP-32	5/5/2016	Downgradient Monitoring Well	Downgradient	5	2/21/2023	Detection Monitoring
					5/5/2023	
					9/6/2023	
					11/27/2023	
					12/18/2023	
Ash Ponds						
PZ-02	11/14/2015	Upgradient Monitoring Well	Upgradient	2	2/21/2023	Assessment Monitoring
					9/6/2023	
PZ-03	11/18/2015	Upgradient Monitoring Well	Upgradient	2	2/21/2023	Assessment Monitoring
					9/6/2023	
AP-31	4/30/2016	Downgradient Monitoring Well	Downgradient	2	2/21/2023	Assessment Monitoring
					9/6/2023	
AP-32	4/29/2016	Downgradient Monitoring Well	Downgradient	2	2/21/2023	Assessment Monitoring
					9/6/2023	
AP-33	4/29/2016	Downgradient Monitoring Well	Downgradient	2	2/21/2023	Assessment Monitoring
					9/6/2023	
AP-34	4/28/2016	Downgradient Monitoring Well	Downgradient	2	2/21/2023	Assessment Monitoring
					9/6/2023	
AP-35	4/28/2016	Downgradient Monitoring Well	Downgradient	2	2/21/2023	Assessment Monitoring
					9/6/2023	
AP-36	4/27/2016	Downgradient Monitoring Well	Downgradient	2	2/21/2023	Assessment Monitoring
					9/6/2023	
MW-03	7/30/2015	Downgradient Monitoring Well	Downgradient	2	2/21/2023	Assessment Monitoring
					9/6/2023	
PZ-05	11/16/2015	Downgradient Monitoring Well	Downgradient	2	2/21/2023	Assessment Monitoring
					9/6/2023	
PZ-06	11/20/2015	Downgradient Monitoring Well	Downgradient	2	2/21/2023	Assessment Monitoring
					9/6/2023	

TABLE 1
Groundwater Sampling Event Summary - 2023

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

Well ID	Installation Date	Well Type	Hydraulic Location	Number of Samples	Sample Date	Monitoring Program
East Equalization Pond						
EP-31	5/4/2016	Upgradient Monitoring Well	Upgradient	2	2/21/2023	Assessment Monitoring
					9/6/2023	
EP-32	5/4/2016	Downgradient Monitoring Well	Downgradient	2	2/21/2023	Assessment Monitoring
					9/6/2023	
EP-33	5/3/2016	Downgradient Monitoring Well	Downgradient	2	2/21/2023	Assessment Monitoring
					9/6/2023	
EP-34	5/3/2016	Downgradient Monitoring Well	Downgradient	2	2/21/2023	Assessment Monitoring
					9/6/2023	
EP-35	5/2/2016	Downgradient Monitoring Well	Downgradient	2	2/21/2023	Assessment Monitoring
					9/6/2023	
EP-36	5/2/2016	Downgradient Monitoring Well	Downgradient	2	2/21/2023	Assessment Monitoring
					9/6/2023	
EP-37	4/26/2016	Downgradient Monitoring Well	Downgradient	2	2/21/2023	Assessment Monitoring
					9/6/2023	
EP-38	4/27/2016	Downgradient Monitoring Well	Downgradient	2	2/21/2023	Assessment Monitoring
					9/6/2023	
MW-04	7/31/2015	Downgradient Monitoring Well	Downgradient	2	2/21/2023	Assessment Monitoring
					9/6/2023	

TABLE 2
Groundwater Elevation Data - 2023

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	2/21/2023	55	31.73	302.89
SP-34	334.62	5/5/2023	55	31.88	302.74
SP-34	334.62	9/6/2023	55	31.19	303.43
SP-34	334.62	11/27/2023	55	31.94	302.68
SP-01	329.25	2/21/2023	52	26.74	302.51
SP-01	329.25	9/6/2023	52	26.37	302.88
SP-02	333.48	2/21/2023	50	30.26	303.22
SP-02	334.48	5/5/2023	50	30.53	302.95
SP-02	333.48	9/6/2023	50	29.80	303.68
SP-03	332.00	2/21/2023	65	29.88	302.12
SP-03	332.00	5/5/2023	65	30.19	301.81
SP-03	332.00	9/6/2023	65	29.68	302.32
SP-03	332.00	11/27/2023	65	30.39	301.61
SP-03	332.00	12/18/2023	65	30.25	301.75
SP-32	327.89	2/21/2023	50	26.08	301.81
SP-32	327.89	5/5/2023	50	26.06	301.83
SP-32	327.89	9/6/2023	50	25.70	302.19
SP-32	327.89	11/27/2023	50	26.39	301.50
SP-32	327.89	12/18/2023	50	26.24	301.65
Ash Ponds					
PZ-02	318.92	2/21/2023	76.5	31.98	286.94
PZ-02	318.92	9/6/2023	76.5	31.51	287.41
PZ-03	323.19	2/21/2023	60	32.70	290.49
PZ-03	323.19	9/6/2023	60	31.99	291.20
AP-31	292.80	2/21/2023	24	10.32	282.48
AP-31	292.80	9/6/2023	24	10.59	282.21
AP-32	297.94	2/21/2023	35	17.72	280.22
AP-32	297.94	9/6/2023	35	17.87	280.07
AP-33	304.67	2/21/2023	42	23.85	280.82
AP-33	304.67	9/6/2023	42	24.25	280.42
AP-34	296.32	2/21/2023	40	16.33	279.99
AP-34	296.32	9/6/2023	40	17.01	279.31
AP-35	298.36	2/21/2023	43	17.21	281.15
AP-35	298.36	9/6/2023	43	17.61	280.75
AP-36	288.75	2/21/2023	41	9.01	279.74
AP-36	288.75	9/6/2023	41	9.72	279.03
MW-03	295.90	2/21/2023	40	14.89	281.01
MW-03	295.90	9/6/2023	40	15.09	280.81
PZ-05	302.77	2/21/2023	52	21.39	281.38
PZ-05	302.77	9/6/2023	52	21.91	280.86
PZ-06	297.42	2/21/2023	50	16.82	280.60
PZ-06	297.42	9/6/2023	50	16.18	281.24

TABLE 2
Groundwater Elevation Data - 2023

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					
East Equalization Pond					
EP-31	316.70	2/21/2023	65	25.35	291.35
EP-31	316.70	9/6/2023	65	25.45	291.25
EP-32	277.44	2/21/2023	52.5	5.16	272.28
EP-32	277.44	9/6/2023	52.5	8.76	268.68
EP-33	278.00	2/21/2023	41	4.64	273.36
EP-33	278.00	9/6/2023	41	7.20	270.80
EP-34	278.71	2/21/2023	53.5	5.02	273.69
EP-34	278.71	9/6/2023	53.5	7.08	271.63
EP-35	279.86	2/21/2023	45	6.38	273.48
EP-35	279.86	9/6/2023	45	8.20	271.66
EP-36	278.50	2/21/2023	47	6.97	271.53
EP-36	278.50	9/6/2023	47	8.61	269.89
EP-37	277.80	2/21/2023	56	6.37	271.43
EP-37	277.80	9/6/2023	56	7.88	269.92
EP-38	279.35	2/21/2023	40	4.60	274.75
EP-38	279.35	9/6/2023	40	5.74	273.61
MW-04	278.58	2/21/2023	45	5.18	273.40
MW-04	278.58	9/6/2023	45	6.44	272.14
Groundwater Observation Wells					
MW-01	289.16	2/21/2023	50	10.50	278.66
MW-01	289.16	9/6/2023	50	13.23	275.93
MW-02	317.68	2/21/2023	62	33.69	283.99
MW-02	317.68	9/6/2023	62	33.23	284.45
PZ-04	303.21	2/21/2023	42	14.96	288.25
PZ-04	303.21	9/6/2023	42	15.31	287.90
PZ-07	281.99	2/21/2023	52	5.46	276.53
PZ-07	281.99	9/6/2023	52	6.56	275.43
SP-31	335.01	2/21/2023	62	33.84	301.17
SP-31	335.01	9/6/2023	62	33.70	301.31
SP-33	329.96	2/21/2023	39	23.49	306.47
SP-33	329.96	9/6/2023	39	23.59	306.37

Notes:

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

TABLE 3
Field Parameter Results - 2023

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	2/21/2023	26.4	3.15	12990	472.6	1.6	7.5
SP-34	5/5/2023	28.4	2.73	12890	477.2	1.8	6.3
SP-34	9/6/2023	27.9	3.01	10810	479.3	1.4	5.1
SP-34	11/27/2023	22.6	2.78	11520	466.3	1.8	4.9
SP-01	2/21/2023	26.1	3.09	18210	389.6	1.4	9.3
SP-01	9/6/2023	27.0	3.03	14610	402.7	1.8	8.4
SP-02	2/21/2023	27.0	5.14	12860	280.4	0.9	6.2
SP-02	5/5/2023	27.2	5.24	12540	238.2	1.8	7.1
SP-02	9/6/2023	28.8	5.39	10390	248.1	1.6	3.9
SP-03	2/21/2023	25.4	3.49	17760	448.6	2.3	7.2
SP-03	5/5/2023	25.4	3.28	17780	447.2	1.9	6.8
SP-03	9/6/2023	27.9	3.56	14510	451.3	2.4	4.9
SP-03	11/27/2023	23.1	4.04	16380	361.8	2.1	4.4
SP-03	12/18/2023	25.2	3.20	16030	367.9	2.0	3.8
SP-32	2/21/2023	23.9	3.31	16270	460.3	1.6	8.1
SP-32	5/5/2023	25.6	3.99	11970	432.6	3.2	9.3
SP-32	9/6/2023	26.3	3.94	9020	394.8	1.9	16.4
SP-32	11/27/2023	22.6	3.39	12190	421.3	2.4	8.7
SP-32	12/18/2023	24.4	3.17	12670	439.8	2.5	7.8
Ash Ponds							
PZ-02	2/21/2023	24.6	6.05	14670	59.6	2.9	51.1
PZ-02	9/6/2023	26.5	5.95	13700	28.1	1.2	24.9
PZ-03	2/21/2023	24.2	3.45	18400	456.1	2.0	35.3
PZ-03	9/6/2023	26.6	3.33	18220	452.1	1.8	46
AP-31	2/21/2023	22.5	4.02	10170	402.3	3.2	7.5
AP-31	9/6/2023	26.8	3.57	8950	259.8	3.2	3.9
AP-32	2/21/2023	26.5	3.50	12370	428.2	4.5	5.4
AP-32	9/6/2023	28.4	3.44	10390	409.8	5.4	6
AP-33	2/21/2023	27.7	3.34	16060	441.4	1.7	15.6
AP-33	9/6/2023	28.7	3.79	14200	209.4	3.8	12.5
AP-34	2/21/2023	28.5	3.65	10500	256.4	2.0	8.3
AP-34	9/6/2023	30.8	3.63	10940	232.6	1.9	8.7
AP-35	2/21/2023	26.5	3.90	9830	225.8	1.3	8.1
AP-35	9/6/2023	29.3	3.60	11820	247.1	1.6	10
AP-36	2/21/2023	25.1	4.50	7320	159.2	1.3	7.6
AP-36	9/6/2023	27.2	4.20	9230	248.1	1.2	15.7
MW-03	2/21/2023	25.0	3.65	11650	403.1	3.0	5.4
MW-03	9/6/2023	28.7	3.56	9710	259.6	3.3	8.7
PZ-05	2/21/2023	26.9	3.62	10290	395.0	2.4	23.1
PZ-05	9/6/2023	29.4	3.87	10250	342.4	2.9	25.3
PZ-06	2/21/2023	22.8	6.09	8310	-1.9	1.6	9.7
PZ-06	9/6/2023	26.3	5.87	10920	-20.3	1.5	20.1

TABLE 3
Field Parameter Results - 2023

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)
East Equalization Pond							
EP-31	2/21/2023	24.8	3.98	5840	340.4	2.3	4.5
EP-31	9/6/2023	26.2	3.81	5190	318.8	3.9	9.6
EP-32	2/21/2023	25.0	6.49	14330	-76.0	1.9	11.1
EP-32	9/6/2023	25.0	6.94	13720	-37.9	3.4	5.1
EP-33	2/21/2023	24.6	6.52	9810	-3.4	1.2	0.4
EP-33	9/6/2023	27.2	6.60	11980	7.7	2.2	3.6
EP-34	2/21/2023	23.5	6.74	13140	-32.8	1.4	0.6
EP-34	9/6/2023	26.3	6.90	16620	-39.1	1.5	2.8
EP-35	2/21/2023	22.8	6.42	11900	-35.3	0.8	0.7
EP-35	9/6/2023	26.2	6.48	14920	-4.1	1.5	10
EP-36	2/21/2023	21.2	6.36	6670	-78.1	2.4	1.1
EP-36	9/6/2023	29.8	6.19	11690	-144.7	3.6	4.4
EP-37	2/21/2023	25.4	6.29	9550	-85.9	1.9	14.9
EP-37	9/6/2023	29.2	6.15	11960	-56.2	1.6	4.1
EP-38	2/21/2023	24.9	5.62	6000	27.7	1.9	15
EP-38	9/6/2023	26.1	5.49	7420	22.7	2.2	18.9
MW-04	2/21/2023	24.2	6.14	6300	0.2	2.0	26.2
MW-04	9/6/2023	26.7	6.01	8610	-10.5	3.0	18.5

Notes:

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

TABLE 4A
Ash Pile Groundwater Analytical Results - 2023

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

			Appendix III Constituents						
		Analyte: Units:	pH (field) SU	Boron mg/L	Calcium mg/L	Chloride mg/L	Fluoride mg/L	Sulfate mg/L	TDS mg/L
Well ID	Sample Date	Type							
SP-34 (upgradient)	Background:		2.23 - 3.73	21	827	3380	<10	3900	9000
	2/21/2023	N	3.15	10.6	804	3170	<10.0	5590	9400
	5/5/2023	N	2.73	-	-	-	-	2740	8960
	9/6/2023	N	3.01	9.81	794	3190	5.74	3130	9880
	11/27/2023	N	2.78	-	-	-	-	-	8980
SP-01	Background:		2.07 - 5.52	11.3	694	3690	22	8530	16900
	2/21/2023	N	3.09	7.92 JH	596	3130	17.9 J	7250	14700
	9/6/2023	N	3.03	7.99	569	2730	16.5	5170	14600 JL
SP-02	Background:		5.09 - 6.6	13.1	1420	5320	<10	2580	17100
	2/21/2023	N	5.14	10.9	911	3030	<10	1980 J	8840
	2/21/2023	Dup	-	12.9	964	3040	10.2 J	7020 J	8670
	5/5/2023	N	5.24	-	-	-	2.72	2160	-
	9/6/2023	N	5.39	11.9	944	2520	<1.00	1800	8930
	9/6/2023	Dup	-	11.7	855	2610	<1.00	1860	9090
SP-03	Background:		3.3 - 5.15	9	924	4810	<10	3730	13500
	2/21/2023	N	3.49	9.13 JH	940	4440	<10	2700	11200
	5/5/2023	N	3.28	6.02	813	-	-	-	-
	9/6/2023	N	3.56	7.31	1000	4020	<1.00	2360	12400
	11/27/2023	N	4.04	-	970	-	-	-	-
	12/18/2023	N	3.20	-	953	-	-	-	-
SP-32	Background:		2.81 - 3.94	11.1	510	1930	17.5	11800	18600
	2/21/2023	N	3.31	10.6	542	2170	18.8 J	7110	13500
	5/5/2023	N	3.99	-	465	820	1.17	-	-
	9/6/2023	N	3.94	13.0	574	1220	3.57	4170	9150 JL
	11/27/2023	N	3.39	11.4	569	-	-	-	-
	12/18/2023	N	3.17	9.58	756	-	-	-	-

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.
6. N = normal sample; Dup = field duplicate; "<" = not detected at the SDL; J = analyte detected between the SDL and RL; JL = estimated result is biased low; JH = estimated result is biased high.
7. See Appendix A for cumulative results from all CCR groundwater monitoring network wells.

TABLE 4C
East Equalization Pond Groundwater Analytical Results - 2023

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

Well ID	Sample Date	Type	Appendix III Constituents							Appendix IV Constituents															
			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
			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	mg/L	pCi/L	pCi/L
Background (Note 5):			2.78-6.11	4.829	493.2	282.5	4.839	3982	8114	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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	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
EP-31	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
	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
EP-32	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
	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
EP-33	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
	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
	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
	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
EP-34	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
	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
EP-35	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
	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
EP-36	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
	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
EP-37	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	3.61 ± 0.757 JH	3.61
	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
EP-38	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	1.90
	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
MW-04	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	0.70	2.14 ± 0.616 JH	2.84
	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

Notes:

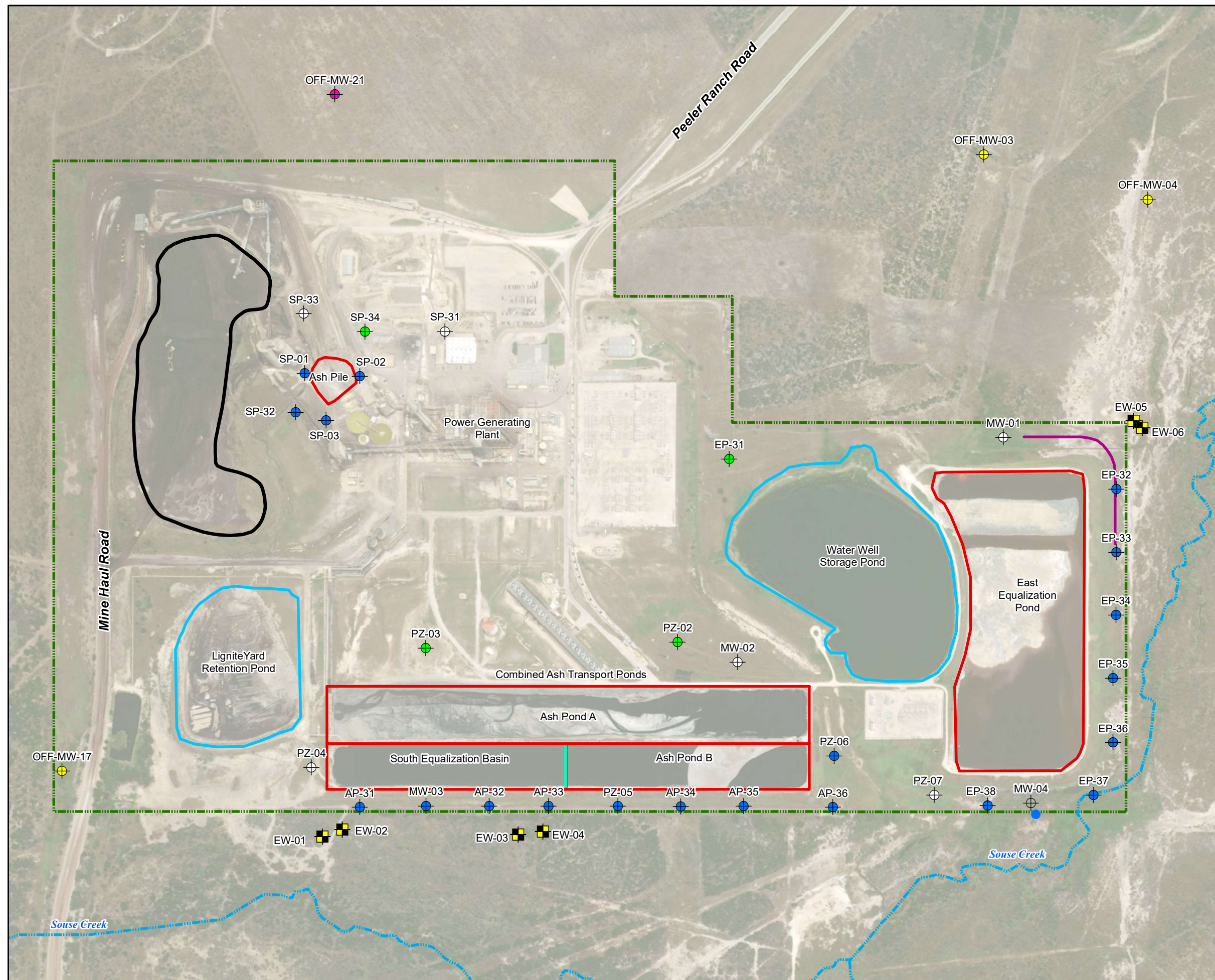
- This table includes semiannual assessment/corrective action monitoring (Appendix III and IV) results from the upgradient and downgradient wells at the East Equalization Pond (EEP), for the reporting year. The EEP was closed in 2022. See report text for details.
- Fluoride is included in both Appendix III and Appendix IV analyte lists.
- TDS = Total Dissolved Solids; mg/L = milligrams per liter; SU = standard units; SDL = sample detection limit; RL = reporting limit.
- N = normal sample; Dup = field duplicate; "<" = not detected at the SDL; J = analyte detected between the SDL and RL. Bias codes: B = analyte detected in method blank; JH = estimated result is biased high; Dash ("-") = not available or not applicable; G = sample minimum detectable concentration is greater than the requested RL.
- Background based on Zephyr 2018 (UTL), and Power 2019 "Groundwater Statistics Report for RY 2018", Table 2.
- 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).
- 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.
- See Appendix A for cumulative results from all CCR groundwater monitoring network wells.

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Figures

- Figure 1 Site Map
- Figure 2 Potentiometric Surface - February 2023
- Figure 3 Potentiometric Surface - September 2023



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
- Groundwater Elevation Observation Well
- Approximate Plant Property Boundary
- CCR Management Unit
- Non-CCR Impoundment
- Lignite Storage Pile
- Interim Interceptor Trench

Note

Aerial imagery provided by Esri ArcGIS Online, July 2018.

<p>Feet 0 250 500</p>	<p>Projected Coordinate System Datum: NAD 83 State Plane Texas South Central Units: Feet</p>
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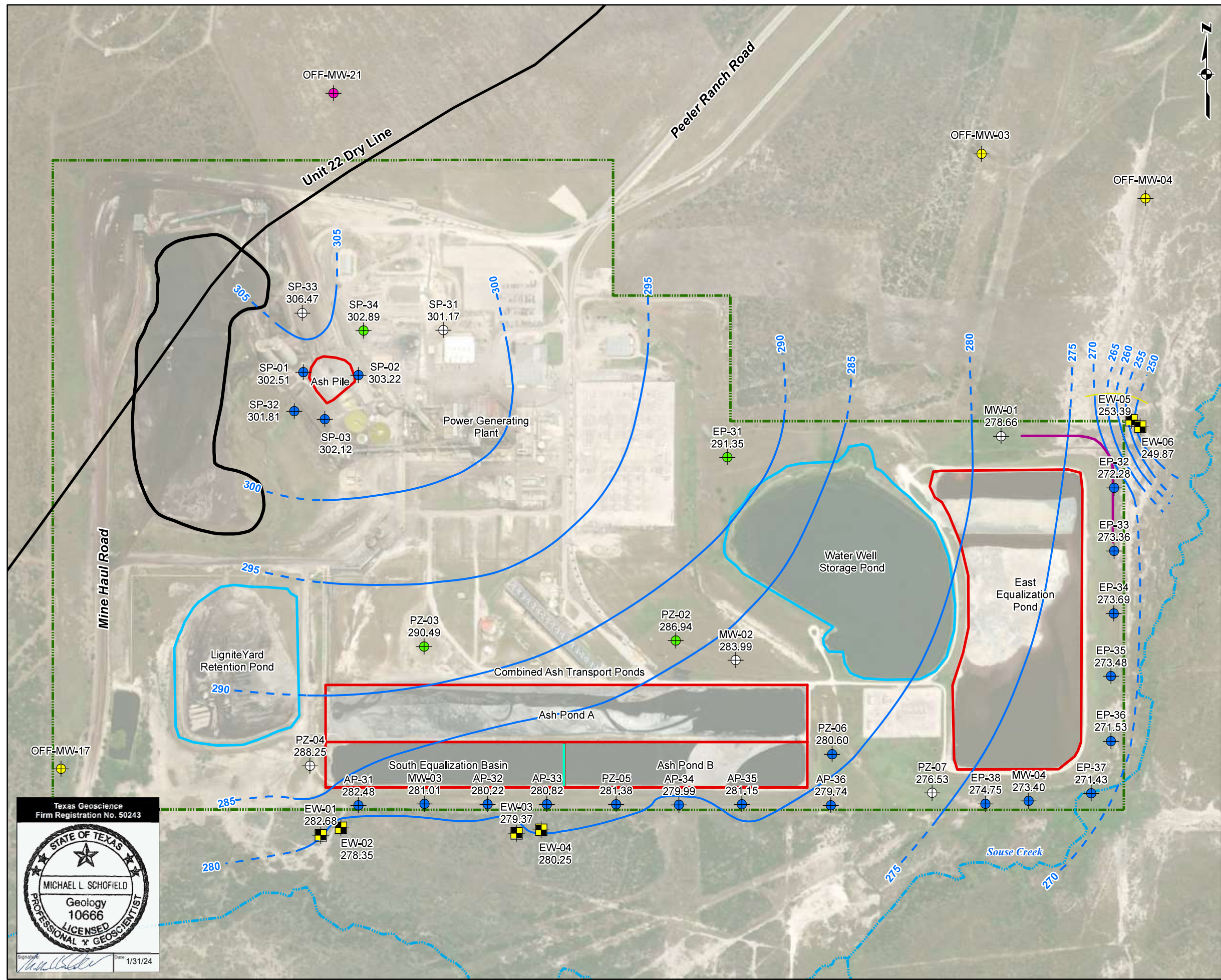


SITE MAP

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

GSI Job No.	5076	Drawn By:	AV
Issued:	26-Apr-2022	Chk'd By:	ARD
Map ID:	SMEC_GWMR2022SiteMap	Appv'd By:	SDR

FIGURE 1



LEGEND

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

253.39 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 21, 2023.
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

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

UNIT 22 POTENTIOMETRIC SURFACE MAP - FEBRUARY 2023

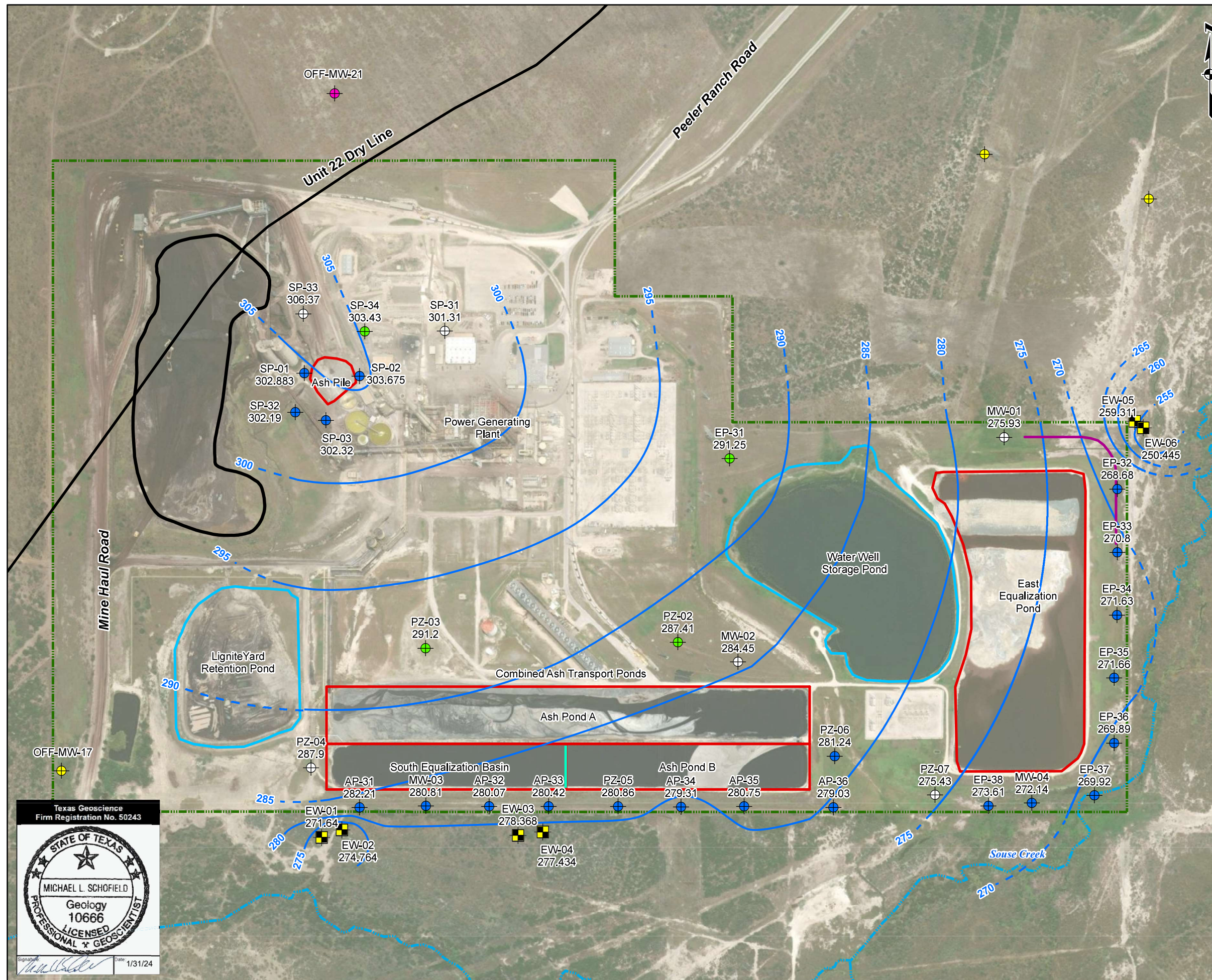
San Miguel Electric Cooperative, Inc. Plant
Atascosa County, Texas

GSI Job No.	5076-109	Drawn By:	CDM
Issued:	15-Jan-2024	Chk'd By:	MLS
Map ID:	SMEC_GWE_0223	Appv'd By:	SDR

FIGURE 2

Texas Geoscience
Firm Registration No. 50243

Signature: *Michael L. Schofield* Date: 1/31/24



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
- Groundwater Elevation Observation Well
- Approximate Plant Property Boundary
- CCR Unit
- Non-CCR Impoundment
- Lignite Storage Pile
- Interim Interceptor Trench

259.311 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 Sept 6, 2023.
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

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

UNIT 22 POTENTIOMETRIC SURFACE MAP - SEPTEMBER 2023

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

GSI Job No.	5076-109	Drawn By:	AV
Issued:	15-Jan-2024	Chk'd By:	MLS
Map ID:	SMEC_GWE_0923	Appv'd By:	SDR

FIGURE 3

Texas Geoscience
Firm Registration No. 50243

STATE OF TEXAS

MICHAEL L. SCHOFIELD

Geology
10666

LICENSED
PROFESSIONAL GEOSCIENTIST

Signature: *[Signature]* Date: 1/31/24

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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 2023

Appendix B.2 Data Usability Summaries – September 2023

Appendix B.3 Laboratory NELAP Accreditation

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Appendix A. Cumulative Groundwater Analytical Results for CCR



APPENDIX A
Cumulative Groundwater Analytical Results for CCR Monitoring Network Wells

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

Table with columns for Analyte: (pH (field), Boron, Calcium, Chloride, Fluoride*, Sulfate, TDS) and Appendix IV Constituents (Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Lead, Lithium, Mercury, Molybdenum, Selenium, Thallium, Radium-226, Radium-228, Combined Radium). Rows include Area, Well ID, Well Type, Sample Date, Type, and various chemical concentrations.

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Appendix B. Data Usability Summaries and Laboratory Analytical Reports

Appendix B.1 Data Usability Summaries – February 2023

Appendix B.2 Data Usability Summaries – September 2023

Appendix B.3 Laboratory NELAP Accreditation

2023 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

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

Appendix B.1 Data Usability Summaries – February 2023
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DATA USABILITY SUMMARY

February 2023 Sampling Event (Job ID: 860-43776-1)

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 21 February 2023¹** 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: T104704215-23-50 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 Five samples plus one field duplicate and one field blank.

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 (RG-366/TRRP-13):

Analytes	MS/MSD		LCS/LCSD		Lab Dup	Field Precision
	% R	RPD	% R	RPD	RPD	RPD
Metals	75 – 125	15	80 – 120	15	-	≤ 30%
Inorganic Anions	90 – 110	20	90 – 110	20	10	
Alkalinity	-		74 – 129	20	20	
Total Dissolved Solids (TDS)	-		90 – 113	-	5	

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 the C-O-C are 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, and DUP-01 by Method 300.0 were diluted (100x) due to the nature of the sample matrix. Elevated RLs are provided.
- Samples SP-34, SP-01, SP-02, SP-03, SP-32, DUP-01, and FB-01 (boron only) by Method 6020A were diluted (5x) due to the nature of the sample matrix. Elevated RLs are provided.

Finding: No qualifiers were added per these criteria.

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 LCN did not note any issues with method blanks.

For Method 300.0, the instrument blank for analytical batch 860-92696 contained Chloride greater than the method detection limit (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:

- Chloride, Fluoride, Sulfate, and Boron 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, Fluoride, Sulfate and Boron that were greater than 5X the associated field blank concentration, except for Boron in SP-01 and SP-03. Those samples that contained Chloride, Fluoride, Sulfate and Boron concentrations that were greater than 5X the method blank concentration did not require qualifiers.

Finding: "JH" qualifiers were added to Boron concentrations of SP-01 and SP-03 because it was detected at a concentration that was less than 5X the blank concentration in each of those samples.

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 860-92696 analyzed using sample SP-34 were outside control limits for Sulfate (MS/MSD), Boron (MSD), and Calcium (MS/MSD). Recoveries of Sulfate in the MS/MSD samples were 76% and 77%, respectively, below the desired range of 90-110%. Recoveries for Boron in the MSD and Calcium in the MS/MSD samples were above the desired range of 75-125%. Sample matrix interference is suspected because

the associated laboratory control sample/laboratory control sample duplicate (LCS/LCSD) recovery was 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: 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, except for Sulfate, 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 3.

Finding: Field duplicate RPD for Sulfate was outside specifications (RPD 112%). Therefore “J” qualifiers were added to the Sulfate results for SP-02 and DUP-01.

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 2).

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
2/21/2023	EET HOU/EET PIT	860-43776-1	SP-34	Water
2/21/2023	EET HOU/EET PIT	860-43776-2	SP-01	Water
2/21/2023	EET HOU/EET PIT	860-43776-3	SP-02	Water
2/21/2023	EET HOU/EET PIT	860-43776-4	SP-03	Water
2/21/2023	EET HOU/EET PIT	860-43776-5	SP-32	Water
2/21/2023	EET HOU/EET PIT	860-43776-6	DUP-01	Water
2/21/2023	EET HOU/EET PIT	860-43776-7	FB-01	Water

Notes:

1. EET HOU: Eurofins Houston, Stafford, Texas; EET PIT: Eurofins Pittsburgh, Pittsburghs, Pennsylvania

TABLE 2
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	Boron	7.92	mg/L	JH	Detected within 5X of FB concentration	180-431885	860-43776-1
SP-03	Boron	9.13	mg/L	JH	Detected within 5X of FB concentration	180-431885	860-43776-1
SP-02	Sulfate	1980	mg/L	J	FD RPD > 30%	860-92696	860-43776-1
DUP-01	Sulfate	7020	mg/L	J	FD RPD > 30%	860-92696	860-43776-1

Notes:

1. mg/L: milligrams per liter.
2. JH: Estimated value, biased high
3. >30%: Greater than thirty percent
4. 5X: five times
5. FB: Field Blank
6. FD: Field Duplicate

TABLE 3
Field Duplicate Detections

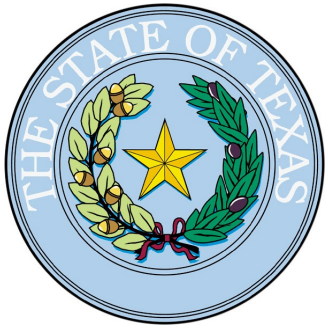
Analyte	MDL	Primary Sample Result (mg/L)	Field Duplicate Result (mg/L)	Relative Percent Difference
Chloride	20	3030	3040	0%
Fluoride	10	10 U	10.2 J	2%
Sulfate	10.9	1980	7020	112%
Boron	0.301	10.9	12.9	17%
Calcium	0.635	911	964	6%
Total Alkalinity	4	50.3	46.3	8%
Bicarbonate Alkalinity as CaCO ₃	4	50.3	46.3	8%
Total Dissolved Solids	100	8840	8670	2%

Notes:

1. MDL: Method Detection Limit
2. mg/L: milligrams per liter
3. $RPD = \frac{ABS(PR-FD)}{AVERAGE(PR+FD)} * 100$, where PR is the Primary Sample and FD is the Field Duplicate, where the MDL is substituted for results below detection.
4. ***Bold-italics*** = RPD greater than 30%.
5. U = analyte not detected at the stated limit; J = estimated result between the MDL and reporting limit
6. 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
4141-4147 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.

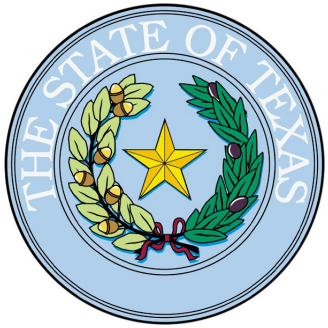
Certificate Number: T104704215-23-50

Effective Date: 3/14/2023

Expiration Date: 6/30/2023

A handwritten signature in black ink that reads "Erin E. Chamalor".

**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.

Certificate Number: T104704528-23-12

Effective Date: 4/1/2023

Expiration Date: 3/31/2024

A handwritten signature in black ink that reads "Erin E. Chamallo".

**Executive Director Texas Commission on
Environmental Quality**

Attachment B

Eurofins Houston – Stafford, Texas

Analytical Report

Job ID.: 860-43776-1

 **ANALYTICAL REPORT****PREPARED FOR**

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

Generated 4/20/2023 5:56:43 PM

JOB DESCRIPTION

Ash Pile

JOB NUMBER

860-43776-1

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
4/20/2023 5:56:43 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
Project/Site: Ash Pile

Job ID: 860-43776-1

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.
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.
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.
α	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

Case Narrative

Client: GSI Environmental, Inc
Project/Site: Ash Pile

Job ID: 860-43776-1

Job ID: 860-43776-1

Laboratory: Eurofins Houston

Narrative

Job Narrative 860-43776-1

Receipt

The samples were received on 2/22/2023 4:03 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 3.1°C and 3.8°C

HPLC/IC

Method 300_ORGFM_28D: The instrument blank/CCB for analytical batch 860-92696 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 qualified and reported.

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-92696 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample/laboratory control sample duplicate (LCS/LCSD) 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: The following samples were diluted due to the nature of the sample matrix: SP-34 (860-43776-1), SP-34 (860-43776-1[MS]), SP-34 (860-43776-1[MSD]), SP-01 (860-43776-2), SP-02 (860-43776-3), SP-03 (860-43776-4), SP-32 (860-43776-5), DUP-01 (860-43776-6), FB-01 (860-43776-7), (860-43776-C-1-A PDS ^5) and (860-43776-C-1-A SD ^25). Elevated reporting limits (RLs) are provided.

Method 6020A: The post digestion spike % recovery for barium associated with batch 180-430351 was outside of control limits. The associated sample is: SP-34 (860-43776-1).

Method 6020A: The post digestion spike % recovery for Boron associated with batch 180-431885 was outside of control limits. The associated sample is: SP-34 (860-43776-1).

Method 6020A: The following samples were diluted due to the nature of the sample matrix: SP-34 (860-43776-1), SP-01 (860-43776-2), SP-02 (860-43776-3), SP-03 (860-43776-4), SP-32 (860-43776-5), DUP-01 (860-43776-6) and FB-01 (860-43776-7). 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
Project/Site: Ash Pile

Job ID: 860-43776-1

Client Sample ID: SP-34

Lab Sample ID: 860-43776-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	3170		50.0	20.0	mg/L	100		300.0	Total/NA
Sulfate	5590		50.0	10.9	mg/L	100		300.0	Total/NA
Boron	10.6		0.400	0.301	mg/L	5		EPA 6020A	Total Recoverable
Calcium	804		2.50	0.635	mg/L	5		EPA 6020A	Total Recoverable
Total Dissolved Solids	9400		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SP-01

Lab Sample ID: 860-43776-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	3130		50.0	20.0	mg/L	100		300.0	Total/NA
Fluoride	17.9	J	50.0	10.0	mg/L	100		300.0	Total/NA
Sulfate	7250		50.0	10.9	mg/L	100		300.0	Total/NA
Boron	7.92		0.400	0.301	mg/L	5		EPA 6020A	Total Recoverable
Calcium	596		2.50	0.635	mg/L	5		EPA 6020A	Total Recoverable
Total Dissolved Solids	14700		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SP-02

Lab Sample ID: 860-43776-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	3030		50.0	20.0	mg/L	100		300.0	Total/NA
Sulfate	1980		50.0	10.9	mg/L	100		300.0	Total/NA
Boron	10.9		0.400	0.301	mg/L	5		EPA 6020A	Total Recoverable
Calcium	911		2.50	0.635	mg/L	5		EPA 6020A	Total Recoverable
Total Alkalinity	50.3		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	50.3		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	8840		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SP-03

Lab Sample ID: 860-43776-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	4440		50.0	20.0	mg/L	100		300.0	Total/NA
Sulfate	2700		50.0	10.9	mg/L	100		300.0	Total/NA
Boron	9.13		0.400	0.301	mg/L	5		EPA 6020A	Total Recoverable
Calcium	940		2.50	0.635	mg/L	5		EPA 6020A	Total Recoverable
Total Dissolved Solids	11200		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SP-32

Lab Sample ID: 860-43776-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	2170		50.0	20.0	mg/L	100		300.0	Total/NA
Fluoride	18.8	J	50.0	10.0	mg/L	100		300.0	Total/NA
Sulfate	7110		50.0	10.9	mg/L	100		300.0	Total/NA
Boron	10.6		0.400	0.301	mg/L	5		EPA 6020A	Total Recoverable
Calcium	542		2.50	0.635	mg/L	5		EPA 6020A	Total Recoverable
Total Dissolved Solids	13500		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: Ash Pile

Job ID: 860-43776-1

Client Sample ID: DUP-01

Lab Sample ID: 860-43776-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	3040		50.0	20.0	mg/L	100		300.0	Total/NA
Fluoride	10.2	J	50.0	10.0	mg/L	100		300.0	Total/NA
Sulfate	7020		50.0	10.9	mg/L	100		300.0	Total/NA
Boron	12.9		0.400	0.301	mg/L	5		EPA 6020A	Total Recoverable
Calcium	964		2.50	0.635	mg/L	5		EPA 6020A	Total Recoverable
Total Alkalinity	46.3		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	46.3		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	8670		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: FB-01

Lab Sample ID: 860-43776-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	0.906		0.500	0.200	mg/L	1		300.0	Total/NA
Fluoride	0.196	J	0.500	0.100	mg/L	1		300.0	Total/NA
Sulfate	0.123	J	0.500	0.109	mg/L	1		300.0	Total/NA
Boron	1.84		0.400	0.301	mg/L	5		EPA 6020A	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Houston

Client Sample Results

Client: GSI Environmental, Inc
Project/Site: Ash Pile

Job ID: 860-43776-1

Client Sample ID: SP-34
Date Collected: 02/21/23 11:20
Date Received: 02/22/23 16:03

Lab Sample ID: 860-43776-1
Matrix: Water

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3170		50.0	20.0	mg/L			03/04/23 22:38	100
Fluoride	10.0	U	50.0	10.0	mg/L			03/04/23 22:38	100
Sulfate	5590		50.0	10.9	mg/L			03/04/23 22:38	100

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	10.6		0.400	0.301	mg/L		04/07/23 08:55	04/10/23 11:53	5
Calcium	804		2.50	0.635	mg/L		04/07/23 08:55	04/10/23 11:53	5

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			03/02/23 13:46	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			03/02/23 13:46	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			03/02/23 13:46	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			03/02/23 13:46	1
Total Dissolved Solids (SM 2540C)	9400		100	100	mg/L			02/27/23 12:00	1

Client Sample ID: SP-01
Date Collected: 02/21/23 10:00
Date Received: 02/22/23 16:03

Lab Sample ID: 860-43776-2
Matrix: Water

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3130		50.0	20.0	mg/L			03/04/23 23:52	100
Fluoride	17.9	J	50.0	10.0	mg/L			03/04/23 23:52	100
Sulfate	7250		50.0	10.9	mg/L			03/04/23 23:52	100

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	7.92		0.400	0.301	mg/L		04/07/23 08:55	04/10/23 12:40	5
Calcium	596		2.50	0.635	mg/L		04/07/23 08:55	04/10/23 12:40	5

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			03/02/23 13:51	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			03/02/23 13:51	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			03/02/23 13:51	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			03/02/23 13:51	1
Total Dissolved Solids (SM 2540C)	14700		100	100	mg/L			02/27/23 12:00	1

Client Sample ID: SP-02
Date Collected: 02/21/23 10:40
Date Received: 02/22/23 16:03

Lab Sample ID: 860-43776-3
Matrix: Water

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3030		50.0	20.0	mg/L			03/05/23 00:05	100
Fluoride	10.0	U	50.0	10.0	mg/L			03/05/23 00:05	100

Eurofins Houston

Client Sample Results

Client: GSI Environmental, Inc
Project/Site: Ash Pile

Job ID: 860-43776-1

Client Sample ID: SP-02
Date Collected: 02/21/23 10:40
Date Received: 02/22/23 16:03

Lab Sample ID: 860-43776-3
Matrix: Water

Method: EPA 300.0 - Anions, Ion Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	1980		50.0	10.9	mg/L			03/05/23 00:05	100

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	10.9		0.400	0.301	mg/L		04/07/23 08:55	04/10/23 12:44	5
Calcium	911		2.50	0.635	mg/L		04/07/23 08:55	04/10/23 12:44	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	50.3		4.00	4.00	mg/L			03/02/23 13:58	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	50.3		4.00	4.00	mg/L			03/02/23 13:58	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			03/02/23 13:58	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			03/02/23 13:58	1
Total Dissolved Solids (SM 2540C)	8840		100	100	mg/L			02/27/23 12:00	1

Client Sample ID: SP-03
Date Collected: 02/21/23 09:10
Date Received: 02/22/23 16:03

Lab Sample ID: 860-43776-4
Matrix: Water

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4440		50.0	20.0	mg/L			03/05/23 00:42	100
Fluoride	10.0	U	50.0	10.0	mg/L			03/05/23 00:42	100
Sulfate	2700		50.0	10.9	mg/L			03/05/23 00:42	100

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	9.13		0.400	0.301	mg/L		04/07/23 08:55	04/10/23 12:47	5
Calcium	940		2.50	0.635	mg/L		04/07/23 08:55	04/10/23 12:47	5

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			03/02/23 14:03	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			03/02/23 14:03	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			03/02/23 14:03	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			03/02/23 14:03	1
Total Dissolved Solids (SM 2540C)	11200		100	100	mg/L			02/27/23 12:00	1

Client Sample ID: SP-32
Date Collected: 02/21/23 08:35
Date Received: 02/22/23 16:03

Lab Sample ID: 860-43776-5
Matrix: Water

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2170		50.0	20.0	mg/L			03/05/23 00:54	100
Fluoride	18.8	J	50.0	10.0	mg/L			03/05/23 00:54	100
Sulfate	7110		50.0	10.9	mg/L			03/05/23 00:54	100

Eurofins Houston

Client Sample Results

Client: GSI Environmental, Inc
Project/Site: Ash Pile

Job ID: 860-43776-1

Client Sample ID: SP-32
Date Collected: 02/21/23 08:35
Date Received: 02/22/23 16:03

Lab Sample ID: 860-43776-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	10.6		0.400	0.301	mg/L		04/07/23 08:55	04/10/23 12:51	5
Calcium	542		2.50	0.635	mg/L		04/07/23 08:55	04/10/23 12:51	5

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			03/02/23 14:33	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			03/02/23 14:33	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			03/02/23 14:33	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			03/02/23 14:33	1
Total Dissolved Solids (SM 2540C)	13500		100	100	mg/L			02/27/23 12:00	1

Client Sample ID: DUP-01
Date Collected: 02/21/23 10:00
Date Received: 02/22/23 16:03

Lab Sample ID: 860-43776-6
Matrix: Water

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3040		50.0	20.0	mg/L			03/05/23 01:06	100
Fluoride	10.2	J	50.0	10.0	mg/L			03/05/23 01:06	100
Sulfate	7020		50.0	10.9	mg/L			03/05/23 01:06	100

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	12.9		0.400	0.301	mg/L		04/07/23 08:55	04/10/23 12:55	5
Calcium	964		2.50	0.635	mg/L		04/07/23 08:55	04/10/23 12:55	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	46.3		4.00	4.00	mg/L			03/02/23 14:39	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	46.3		4.00	4.00	mg/L			03/02/23 14:39	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			03/02/23 14:39	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			03/02/23 14:39	1
Total Dissolved Solids (SM 2540C)	8670		100	100	mg/L			02/27/23 12:00	1

Client Sample ID: FB-01
Date Collected: 02/21/23 09:20
Date Received: 02/22/23 16:03

Lab Sample ID: 860-43776-7
Matrix: Water

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.906		0.500	0.200	mg/L			03/05/23 01:19	1
Fluoride	0.196	J	0.500	0.100	mg/L			03/05/23 01:19	1
Sulfate	0.123	J	0.500	0.109	mg/L			03/05/23 01:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.84		0.400	0.301	mg/L		04/07/23 08:55	04/10/23 12:59	5
Calcium	0.127	U	0.500	0.127	mg/L		03/09/23 13:20	03/30/23 16:02	1

Eurolins Houston

Client Sample Results

Client: GSI Environmental, Inc
Project/Site: Ash Pile

Job ID: 860-43776-1

Client Sample ID: FB-01
Date Collected: 02/21/23 09:20
Date Received: 02/22/23 16:03

Lab Sample ID: 860-43776-7
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	5.00	U	5.00	5.00	mg/L			02/27/23 12:00	1

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

QC Sample Results

Client: GSI Environmental, Inc
Project/Site: Ash Pile

Job ID: 860-43776-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-92696/3
Matrix: Water
Analysis Batch: 92696

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	0.200	U	0.500	0.200	mg/L			03/04/23 18:18	1
Fluoride	0.100	U	0.500	0.100	mg/L			03/04/23 18:18	1
Sulfate	0.109	U	0.500	0.109	mg/L			03/04/23 18:18	1

Lab Sample ID: LCS 860-92696/4
Matrix: Water
Analysis Batch: 92696

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	10.0	9.962		mg/L		100	90 - 110
Sulfate	10.0	9.872		mg/L		99	90 - 110

Lab Sample ID: LCSD 860-92696/5
Matrix: Water
Analysis Batch: 92696

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
Fluoride	10.0	10.19		mg/L		102	90 - 110	2	20
Sulfate	10.0	10.15		mg/L		102	90 - 110	3	20

Lab Sample ID: LLCS 860-92696/7
Matrix: Water
Analysis Batch: 92696

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.500	0.4885	J	mg/L		98	50 - 150
Sulfate	0.500	0.5299		mg/L		106	50 - 150

Lab Sample ID: 860-43776-1 MS
Matrix: Water
Analysis Batch: 92696

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
Fluoride	10.0	U	1000	986.9		mg/L		99	90 - 110
Sulfate	5590		1000	6350	4	mg/L		76	90 - 110

Lab Sample ID: 860-43776-1 MSD
Matrix: Water
Analysis Batch: 92696

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
Fluoride	10.0	U	1000	993.5		mg/L		99	90 - 110	1	20
Sulfate	5590		1000	6357	4	mg/L		77	90 - 110	0	20

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QC Sample Results

Client: GSI Environmental, Inc
Project/Site: Ash Pile

Job ID: 860-43776-1

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

Lab Sample ID: MB 180-431671/1-A
Matrix: Water
Analysis Batch: 431885

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 431671

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Boron	0.0601	U	0.0800	0.0601	mg/L		04/07/23 08:55	04/10/23 11:46	1
Calcium	0.127	U	0.500	0.127	mg/L		04/07/23 08:55	04/10/23 11:46	1

Lab Sample ID: LCS 180-431671/2-A
Matrix: Water
Analysis Batch: 431885

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 431671

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	25.0	28.89		mg/L		116	80 - 120

Lab Sample ID: 860-43776-1 MS
Matrix: Water
Analysis Batch: 431885

Client Sample ID: SP-34
Prep Type: Total Recoverable
Prep Batch: 431671

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	804		25.0	851.8	4	mg/L		191	75 - 125

Lab Sample ID: 860-43776-1 MSD
Matrix: Water
Analysis Batch: 431885

Client Sample ID: SP-34
Prep Type: Total Recoverable
Prep Batch: 431671

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Calcium	804		25.0	858.5	4	mg/L		218	75 - 125	1	20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-92477/3
Matrix: Water
Analysis Batch: 92477

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Total Alkalinity	4.00	U	4.00	4.00	mg/L			03/02/23 12:08	1
Bicarbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			03/02/23 12:08	1
Carbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			03/02/23 12:08	1
Hydroxide Alkalinity	4.00	U	4.00	4.00	mg/L			03/02/23 12:08	1

Lab Sample ID: LCS 860-92477/4
Matrix: Water
Analysis Batch: 92477

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits

QC Sample Results

Client: GSI Environmental, Inc
Project/Site: Ash Pile

Job ID: 860-43776-1

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: LCSD 860-92477/5
Matrix: Water
Analysis Batch: 92477

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	238.9		mg/L		96	85 - 115	0	20

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

Lab Sample ID: MB 860-91847/1
Matrix: Water
Analysis Batch: 91847

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			02/27/23 12:00	1

Lab Sample ID: LCS 860-91847/2
Matrix: Water
Analysis Batch: 91847

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	863.0		mg/L		86	80 - 120

Lab Sample ID: LCSD 860-91847/3
Matrix: Water
Analysis Batch: 91847

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	871.0		mg/L		87	80 - 120	1	10

Lab Sample ID: LLCS 860-91847/4
Matrix: Water
Analysis Batch: 91847

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		80	50 - 150

Lab Sample ID: 860-43776-1 DU
Matrix: Water
Analysis Batch: 91847

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	9400		9720		mg/L		3	10

Lab Sample ID: MB 860-91848/1
Matrix: Water
Analysis Batch: 91848

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			02/27/23 12:00	1

QC Sample Results

Client: GSI Environmental, Inc
Project/Site: Ash Pile

Job ID: 860-43776-1

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

Lab Sample ID: LCS 860-91848/2
Matrix: Water
Analysis Batch: 91848

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	848.0		mg/L		85	80 - 120

Lab Sample ID: LCSD 860-91848/3
Matrix: Water
Analysis Batch: 91848

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	823.0		mg/L		82	80 - 120	3	10

Lab Sample ID: LLCS 860-91848/4
Matrix: Water
Analysis Batch: 91848

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		80	50 - 150

QC Association Summary

Client: GSI Environmental, Inc
Project/Site: Ash Pile

Job ID: 860-43776-1

HPLC/IC

Analysis Batch: 92696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-43776-1	SP-34	Total/NA	Water	300.0	
860-43776-2	SP-01	Total/NA	Water	300.0	
860-43776-3	SP-02	Total/NA	Water	300.0	
860-43776-4	SP-03	Total/NA	Water	300.0	
860-43776-5	SP-32	Total/NA	Water	300.0	
860-43776-6	DUP-01	Total/NA	Water	300.0	
860-43776-7	FB-01	Total/NA	Water	300.0	
MB 860-92696/3	Method Blank	Total/NA	Water	300.0	
LCS 860-92696/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-92696/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-92696/7	Lab Control Sample	Total/NA	Water	300.0	
860-43776-1 MS	SP-34	Total/NA	Water	300.0	
860-43776-1 MSD	SP-34	Total/NA	Water	300.0	

Metals

Prep Batch: 428685

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-43776-7	FB-01	Total Recoverable	Water	3005A	

Analysis Batch: 430905

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-43776-7	FB-01	Total Recoverable	Water	EPA 6020A	428685

Prep Batch: 431671

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-43776-1	SP-34	Total Recoverable	Water	3005A	
860-43776-2	SP-01	Total Recoverable	Water	3005A	
860-43776-3	SP-02	Total Recoverable	Water	3005A	
860-43776-4	SP-03	Total Recoverable	Water	3005A	
860-43776-5	SP-32	Total Recoverable	Water	3005A	
860-43776-6	DUP-01	Total Recoverable	Water	3005A	
860-43776-7	FB-01	Total Recoverable	Water	3005A	
MB 180-431671/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-431671/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
860-43776-1 MS	SP-34	Total Recoverable	Water	3005A	
860-43776-1 MSD	SP-34	Total Recoverable	Water	3005A	

Analysis Batch: 431885

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-43776-1	SP-34	Total Recoverable	Water	EPA 6020A	431671
860-43776-2	SP-01	Total Recoverable	Water	EPA 6020A	431671
860-43776-3	SP-02	Total Recoverable	Water	EPA 6020A	431671
860-43776-4	SP-03	Total Recoverable	Water	EPA 6020A	431671
860-43776-5	SP-32	Total Recoverable	Water	EPA 6020A	431671
860-43776-6	DUP-01	Total Recoverable	Water	EPA 6020A	431671
860-43776-7	FB-01	Total Recoverable	Water	EPA 6020A	431671
MB 180-431671/1-A	Method Blank	Total Recoverable	Water	EPA 6020A	431671
LCS 180-431671/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020A	431671
860-43776-1 MS	SP-34	Total Recoverable	Water	EPA 6020A	431671
860-43776-1 MSD	SP-34	Total Recoverable	Water	EPA 6020A	431671

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QC Association Summary

Client: GSI Environmental, Inc
Project/Site: Ash Pile

Job ID: 860-43776-1

General Chemistry

Analysis Batch: 91847

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-43776-1	SP-34	Total/NA	Water	SM 2540C	
860-43776-2	SP-01	Total/NA	Water	SM 2540C	
860-43776-3	SP-02	Total/NA	Water	SM 2540C	
860-43776-4	SP-03	Total/NA	Water	SM 2540C	
860-43776-5	SP-32	Total/NA	Water	SM 2540C	
860-43776-6	DUP-01	Total/NA	Water	SM 2540C	
MB 860-91847/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-91847/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-91847/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
LLCS 860-91847/4	Lab Control Sample	Total/NA	Water	SM 2540C	
860-43776-1 DU	SP-34	Total/NA	Water	SM 2540C	

Analysis Batch: 91848

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-43776-7	FB-01	Total/NA	Water	SM 2540C	
MB 860-91848/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-91848/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-91848/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
LLCS 860-91848/4	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 92477

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-43776-1	SP-34	Total/NA	Water	SM 2320B	
860-43776-2	SP-01	Total/NA	Water	SM 2320B	
860-43776-3	SP-02	Total/NA	Water	SM 2320B	
860-43776-4	SP-03	Total/NA	Water	SM 2320B	
860-43776-5	SP-32	Total/NA	Water	SM 2320B	
860-43776-6	DUP-01	Total/NA	Water	SM 2320B	
MB 860-92477/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-92477/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-92477/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: Ash Pile

Job ID: 860-43776-1

Client Sample ID: SP-34
Date Collected: 02/21/23 11:20
Date Received: 02/22/23 16:03

Lab Sample ID: 860-43776-1
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		100			92696	03/04/23 22:38	WP	EET HOU
Total Recoverable	Prep	3005A			25 mL	25 mL	431671	04/07/23 08:55	RJR	EET PIT
Total Recoverable	Analysis	EPA 6020A		5			431885	04/10/23 11:53	RSK	EET PIT
Total/NA	Analysis	SM 2320B		1			92477	03/02/23 13:46	TL	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	91847	02/27/23 12:00	HN	EET HOU

Client Sample ID: SP-01
Date Collected: 02/21/23 10:00
Date Received: 02/22/23 16:03

Lab Sample ID: 860-43776-2
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		100			92696	03/04/23 23:52	WP	EET HOU
Total Recoverable	Prep	3005A			25 mL	25 mL	431671	04/07/23 08:55	RJR	EET PIT
Total Recoverable	Analysis	EPA 6020A		5			431885	04/10/23 12:40	RSK	EET PIT
Total/NA	Analysis	SM 2320B		1			92477	03/02/23 13:51	TL	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	91847	02/27/23 12:00	HN	EET HOU

Client Sample ID: SP-02
Date Collected: 02/21/23 10:40
Date Received: 02/22/23 16:03

Lab Sample ID: 860-43776-3
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		100			92696	03/05/23 00:05	WP	EET HOU
Total Recoverable	Prep	3005A			25 mL	25 mL	431671	04/07/23 08:55	RJR	EET PIT
Total Recoverable	Analysis	EPA 6020A		5			431885	04/10/23 12:44	RSK	EET PIT
Total/NA	Analysis	SM 2320B		1			92477	03/02/23 13:58	TL	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	91847	02/27/23 12:00	HN	EET HOU

Client Sample ID: SP-03
Date Collected: 02/21/23 09:10
Date Received: 02/22/23 16:03

Lab Sample ID: 860-43776-4
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		100			92696	03/05/23 00:42	WP	EET HOU
Total Recoverable	Prep	3005A			25 mL	25 mL	431671	04/07/23 08:55	RJR	EET PIT
Total Recoverable	Analysis	EPA 6020A		5			431885	04/10/23 12:47	RSK	EET PIT
Total/NA	Analysis	SM 2320B		1			92477	03/02/23 14:03	TL	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	91847	02/27/23 12:00	HN	EET HOU

Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: Ash Pile

Job ID: 860-43776-1

Client Sample ID: SP-32
Date Collected: 02/21/23 08:35
Date Received: 02/22/23 16:03

Lab Sample ID: 860-43776-5
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			92696	03/05/23 00:54	WP	EET HOU
Total Recoverable	Prep	3005A			25 mL	25 mL	431671	04/07/23 08:55	RJR	EET PIT
Total Recoverable	Analysis	EPA 6020A		5			431885	04/10/23 12:51	RSK	EET PIT
Total/NA	Analysis	SM 2320B		1			92477	03/02/23 14:33	TL	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	91847	02/27/23 12:00	HN	EET HOU

Client Sample ID: DUP-01
Date Collected: 02/21/23 10:00
Date Received: 02/22/23 16:03

Lab Sample ID: 860-43776-6
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		100			92696	03/05/23 01:06	WP	EET HOU
Total Recoverable	Prep	3005A			25 mL	25 mL	431671	04/07/23 08:55	RJR	EET PIT
Total Recoverable	Analysis	EPA 6020A		5			431885	04/10/23 12:55	RSK	EET PIT
Total/NA	Analysis	SM 2320B		1			92477	03/02/23 14:39	TL	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	91847	02/27/23 12:00	HN	EET HOU

Client Sample ID: FB-01
Date Collected: 02/21/23 09:20
Date Received: 02/22/23 16:03

Lab Sample ID: 860-43776-7
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		1			92696	03/05/23 01:19	WP	EET HOU
Total Recoverable	Prep	3005A			25 mL	25 mL	431671	04/07/23 08:55	RJR	EET PIT
Total Recoverable	Analysis	EPA 6020A		5			431885	04/10/23 12:59	RSK	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	428685	03/09/23 13:20	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			430905	03/30/23 16:02	RSK	EET PIT
Total/NA	Analysis	SM 2540C		1	200 mL	200 mL	91848	02/27/23 12:00	HN	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
Project/Site: Ash Pile

Job ID: 860-43776-1

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	T104704215-23-50	03-13-23
<p>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.</p>			
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	06-27-23
California	State	2891	04-30-23
Connecticut	State	PH-0688	09-30-24
Florida	NELAP	E871008	06-30-23
Georgia	State	PA 02-00416	04-30-23
Illinois	NELAP	004375	06-30-23
Kansas	NELAP	E-10350	01-31-24
Kentucky (UST)	State	162013	04-30-23
Kentucky (WW)	State	KY98043	12-31-23
Louisiana	NELAP	04041	06-30-22 *
Louisiana (All)	NELAP	04041	06-30-23
Maine	State	PA00164	03-06-24
Minnesota	NELAP	042-999-482	12-31-23
New Hampshire	NELAP	2030	04-04-24
New Jersey	NELAP	PA005	06-30-23
New York	NELAP	11182	04-01-24
North Carolina (WW/SW)	State	434	12-31-23
North Dakota	State	R-227	04-30-23
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	04-30-23
Texas	NELAP	T104704528	03-31-24
USDA	US Federal Programs	P330-16-00211	06-21-24
Utah	NELAP	PA001462019-8	05-31-23
Virginia	NELAP	10043	09-14-23
West Virginia DEP	State	142	03-31-23 *
Wisconsin	State	998027800	08-31-23

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

Method Summary

Client: GSI Environmental, Inc
Project/Site: Ash Pile

Job ID: 860-43776-1

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

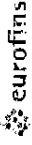
Client: GSI Environmental, Inc
Project/Site: Ash Pile

Job ID: 860-43776-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-43776-1	SP-34	Water	02/21/23 11:20	02/22/23 16:03
860-43776-2	SP-01	Water	02/21/23 10:00	02/22/23 16:03
860-43776-3	SP-02	Water	02/21/23 10:40	02/22/23 16:03
860-43776-4	SP-03	Water	02/21/23 09:10	02/22/23 16:03
860-43776-5	SP-32	Water	02/21/23 08:35	02/22/23 16:03
860-43776-6	DUP-01	Water	02/21/23 10:00	02/22/23 16:03
860-43776-7	FB-01	Water	02/21/23 09:20	02/22/23 16:03

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

Chain of Custody Record



Environmental Testing
 America

Client Information
 Client Contact: Mike Schofield
 Company: GSI Environmental Inc
 Address: 9600 Great Hills Trail Suite 350E
 City: Austin
 State, Zip: TX, 78759
 Phone: 512-346-4474 (Tel) 512-346-4476 (Fax)
 Email: mschofield@gsi-net.com
 Project Name: San Miguel Electrical Co-Op GW (Ash Pile)
 Site:
 PO #:
 Project #: 86001746
 SSO#:
 Due Date Requested:
 TAT Requested (days):
 Compliance Project: Yes No
 PWSID:
 Lab Pkt:
 Sampler: Brian Hillman + HM1 Team
 Lab Pkt: Kudchadkar Sachin G
 E-Mail: Sachin.Kudchadkar@Eurofins.com
 State of Origin: TX
 Carrier Tracking No(s):
 GOC No: 960-3614-1220 I
 Page: 1 of 1
 Job #:

Analysis Requested
 802A, B, Ca Eurofina Pittsburg
 2320B, Alkalinity
 2640C, TDS
 300-Cl, F, SO4
 O=MS/MSD vol printed

Sample Identification

Sample ID	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=soil, B=biological, A=air)	Field Filtered Sample (Yes/No)	Preservation Code	N	D	M	I	N	
SP-34	2-21-23	1120	G	Water	X		Y					
SP-01		1000		Water			N					
SP-02		1040		Water								
SP-03		910		Water								
SP-32		835		Water								
DUP-01		1000		Water								
FB-01		920	↓	Water			Y					

Special Instructions/Note:
 (No MS/MSD requested for Alkalinity)
 (No Alkalinity 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
 Other:
 M Hexane
 N None
 O AsNo2
 P Na2OAS
 Q Na2SO3
 R Na2S2O3
 S H2SO4
 T TSP Dodecahydrate
 U - Acetone
 V MCAA
 W pH 4-5
 Z other (specify)

Special Hazard Identification
 Non-Hazard Flammable Skin Irritant
 Deliverable Requested: I II III IV Other (specify)
 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
 Special Instructions/QC Requirements: CCR-Appendix III Detector Monitor N/g
 Method of Shipment: Cass Dropoff

Relinquished by: Grebe Garcia 888 Date/Time: 2-22-23 1603 Company: HM
 Relinquished by: Sachin Kudchadkar Date/Time: 2-22-23 1653 Company: Eurofins
 Relinquished by:
 Date/Time:
 Company:
 Relinquished by:
 Date/Time:
 Company:
 Custody Seal Intact:
 Δ Yes Δ No
 Custody Seal No.
 Cooler Temperature(s) °C and Other Remarks:

Barcode: 860-43776 Chain of Custody

Temp: 3.5 IR ID: HOU-343
 C/F: -0.4 Corrected Temp: 3.1
 Temp: 4.2 IR ID: HOU-343
 C/F: -0.4 Corrected Temp: 3.8





Client Information (Sub Contract Lab)			Lab PM Kudchadkar, Sachin G	Center Tracking No(s) 860-22281.1				
Client Contact: Shipping/Receiving			E-Mail: Sachin.Kudchadkar@et.eurofins.com	Page Page 1 of 1				
Company: Eurofins Environment Testing Northeast,			Accreditations Required (See note): NELAP - Texas					
Address 301 Alpha Drive, RIDC Park,			Job # 860-43776-1					
City: Pittsburgh			Preservation Codes:					
State, Zip PA, 15238			A - HCL B - NaOH C - AsNaO2 D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:					
Phone: 412-963-7058(Tel) 412-963-2468(Fax)			M - Hexane N - None O - AsNaO2 P - Na2OAS Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify)					
Email			Analysis Requested					
Due Date Requested: 3/2/2023			Total Number of Containers					
TAT Requested (days):			1					
PO #:			1					
WO #:			1					
Project #: 86001746			1					
SSOW#:			1					
Project Name: Ash Pile			1					
Site:			1					
Special Instructions/Note:			Please analyze at the lowest possible dilution					
Sample Identification - Client ID (Lab ID)			Please analyze at the lowest possible dilution					
SP-34 (860-43776-1)	Sample Date 2/21/23	Sample Time 11:20 Central	Sample Type (C=Comp, G=grab) MS	Matrix (W=water, S=solid, O=swab, BT=Trace, Asst)	Field Filled Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020A/3005A (MSD) Copy Analytes	Special Instructions/Note:
SP-34 (860-43776-1MS)	2/21/23	11:20 Central	MS	Water	X	X		Please analyze at the lowest possible dilution
SP-34 (860-43776-1MSD)	2/21/23	11:20 Central	MSD	Water	X	X		Please analyze at the lowest possible dilution
SP-01 (860-43776-2)	2/21/23	10:00 Central		Water	X	X		Please analyze at the lowest possible dilution
SP-02 (860-43776-3)	2/21/23	10:40 Central		Water	X	X		Please analyze at the lowest possible dilution
SP-03 (860-43776-4)	2/21/23	09:10 Central		Water	X	X		Please analyze at the lowest possible dilution
SP-32 (860-43776-5)	2/21/23	08:35 Central		Water	X	X		Please analyze at the lowest possible dilution
DUP-01 (860-43776-6)	2/21/23	10:00 Central		Water	X	X		Please analyze at the lowest possible dilution
FB-01 (860-43776-7)	2/21/23	09:20 Central		Water	X	X		Please analyze at the lowest possible dilution

Note: Since laboratory accreditation is 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/test/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
Deliverable Requested: I, II, III, IV, Other (specify)
Primary Deliverable Rank: 2
Special Instructions/QC Requirements:

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

Empty Kit Relinquished by: _____ Date: _____ Time: _____ Method of Shipment: _____
 Relinquished by: _____ Date/Time: _____ Company: _____
 Relinquished by: _____ Date/Time: _____ Company: _____
 Relinquished by: _____ Date/Time: _____ Company: _____
 Custody Seal Intact: _____ Custody Seal No.: _____

Received by: _____ Date/Time: 2/25/23 9:00 Company: EPA, INC
 Date/Time: _____ Company: _____

860-43776 Chain of Custody
Ver: 06/08/2021



Login Sample Receipt Checklist

Client: GSI Environmental, Inc

Job Number: 860-43776-1

Login Number: 43776

List Number: 1

Creator: Rubio, Yuri

List Source: Eurofins Houston

Question	Answer	Comment
The cooler's custody seal, if present, is intact.		
Sample custody seals, if present, are intact.		
The cooler or samples do not appear to have been compromised or tampered with.		
Samples were received on ice.		
Cooler Temperature is acceptable.		
Cooler Temperature is recorded.		
COC is present.		
COC is filled out in ink and legible.		
COC is filled out with all pertinent information.		
Is the Field Sampler's name present on COC?		
There are no discrepancies between the containers received and the COC.		
Samples are received within Holding Time (excluding tests with immediate HTs)		
Sample containers have legible labels.		
Containers are not broken or leaking.		
Sample collection date/times are provided.		
Appropriate sample containers are used.		
Sample bottles are completely filled.		
Sample Preservation Verified.		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs		
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").		

Login Sample Receipt Checklist

Client: GSI Environmental, Inc

Job Number: 860-43776-1

Login Number: 43776
List Number: 2
Creator: Kovitch, Christina M

List Source: Eurofins Pittsburgh
List Creation: 02/25/23 03:46 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	



DATA USABILITY SUMMARY

February 2023 Sampling Event (Job ID: 860-43774-1)

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 Ponds on 21 February 2023¹** 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 (EET PIT) laboratory and the radiological analyses were conducted by the Eurofins St. Louis (EET SL) and the Eurofins Eaton Analytical South Bend (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: T104704215-23-50, T104704528, T104704193 and T104704187-22-16 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 (RG-366/TRRP-13):

Analytes	MS/MSD		LCS/LCSD		Lab Dup
	% R	RPD	% R	RPD	RPD
Metals	75 – 125	20	80 – 120	–	–
Inorganic Anions	90 – 110	20	90 – 110	20	–
Alkalinity	–	–	85 – 115	20	20
Total Dissolved Solids (TDS)	–	–	80 – 120	10	10
Radium-228	60 – 140	1	75 – 125	1	–
Radium-226	80 – 120	–	90 – 110	–	–

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 the C-O-C are 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 300.0 were diluted (10x-100x) to bring the concentration of target analytes within the calibration range. Elevated RLs are provided.
- Samples PZ-02, PZ-03, AP-31, AP-32, AP-33, AP-34, AP-35, AP-36, MW-03, PZ-05, PZ-06, EB-01, DUP-02 and FB-02 by Method 6020A were diluted (5x-50x) due to the nature of the sample matrix and to bring the concentration of target analytes within the calibration range. Elevated RLs are provided.

Finding: No qualifiers were added per these criteria.

Calibrations

The following calibration issues were identified in the LCN or during review of the laboratory data package:

- The low level check standard (CCVL) recovery for Boron was outside the control limits for analytical batch 180-437655. All other instrument QC, calibration verifications (CCVs), calibration blanks (CCBs) were within the control limits and the Boron results were greater than the CCV. Therefore, a CCVL for Boron is not needed. No qualifiers were added as part of this data review.
- The Boron concentrations found in the CCBs 180-437655/39 and 180-437655/50 were greater than the reporting limit of 80 ug/L. All associated samples bracketed by these CCBs has boron concentrations at least 10 times greater than the CCB concentrations. No qualifiers were added as part of this data review.
- The CCV recovery for Boron was outside the control limits for analytical batch 180-438170. The samples associated with this CCV were below the reporting limit for Boron; 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:

- For Method 300.0, the instrument blank for analytical batch 860-92315 contained Chloride, Sulfate, and Fluoride greater than the method detection limit (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 300.0, the instrument blank and method blank for analytical batch 860-92843 contained Chloride and Sulfate greater than the method detection limit (MDL) and were not reanalyzed because associated sample results were greater than 10X the value found

in the instrument blank/CCB. No additional qualifiers were added as part of this data review.

Field Blanks

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

- Chloride and Sulfate 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 Chloride and Sulfate that were greater than 5X the associated field blank concentration and did not require qualifiers.
- Chloride and Sulfate 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 and Sulfate that were greater than 5X the associated equipment 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:

- Due to the high concentration of Chloride and Sulfate, the matrix spike / matrix spike duplicate (MS/MSD) for analytical batch 860-92315 could not be evaluated for accuracy and precision. The associated laboratory control/laboratory control sample duplicate (LCS/LCSD) met acceptance criteria.
- The recoveries for analytical batch 860-92315 analyzed using sample PZ-03 were outside control limits for Fluoride (MS/MSD). Recoveries of Fluoride in the MS/MSD samples were 430% and 431%, respectively, above the desired range of 90-110%. matrix interference and/or non-homogeneity is suspected because the associated laboratory control sample/laboratory control sample duplicate (LCS/LCSD) recovery was 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 860-92611 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 89% and 88%, respectively, below the desired range of 90-110%.

Recoveries for Chloride in the MS/MSD samples were 82% and 79%, respectively, below the desired range of 90-110%. Sample matrix interference and/or non-homogeneity is suspected because the associated laboratory control sample/laboratory control sample duplicate (LCS/LCSD) recovery was 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 180-430163 analytical batch 860-437655 analyzed using sample PZ-03 were outside control limits for Boron (MS/MSD). Recoveries of Boron in the MS/MSD samples were 211% and 138%, respectively, above the desired range of 75-125%. Sample non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was 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 180-429585 and analytical batch 180-429822 analyzed using sample PZ-03 were outside control limits for Mercury (MS). Recoveries of Mercury in the MS sample was 73%, below the desired range of 75-125%. Sample matrix interference and/or non-homogeneity is suspected because the associated laboratory control sample/laboratory control sample duplicate (LCS/LCSD) recovery was 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 860-436424 analyzed using sample PZ-03 were outside control limits for Calcium (MS/MSD) and Lithium (MS). Recoveries of Calcium in the MS/MSD samples were 227% and -33%, respectively, outside the desired range of 75-125%. Recoveries for Lithium in the MS sample was 135%, above the desired range of 75-125%. The analytes present in the unspiked parent sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable. No additional qualifiers were added as part of this evaluation.

Findings: 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, except for Fluoride, Boron, Chromium and Radium-226 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 3.

Finding: Field duplicate RPD for Fluoride, Boron, Chromium and Radium-226 was outside specifications (RPD 80.3%, 124.8%, 41.0% and 55.0%, respectively). Therefore “J” qualifiers were added to the Fluoride, Boron, Chromium and Radium-226 results for MW-03 and DUP-02

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 2).

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
2/21/2023	EET HOU/EET PIT/EET SL/EA SB	860-43774-1	PZ-02	Water
2/21/2023	EET HOU/EET PIT/EET SL/EA SB	860-43774-2	PZ-03	Water
2/21/2023	EET HOU/EET PIT/EET SL/EA SB	860-43774-3	AP-31	Water
2/21/2023	EET HOU/EET PIT/EET SL/EA SB	860-43774-4	AP-32	Water
2/21/2023	EET HOU/EET PIT/EET SL/EA SB	860-43774-5	AP-33	Water
2/21/2023	EET HOU/EET PIT/EET SL/EA SB	860-43774-6	AP-34	Water
2/21/2023	EET HOU/EET PIT/EET SL/EA SB	860-43774-7	AP-35	Water
2/21/2023	EET HOU/EET PIT/EET SL/EA SB	860-43774-8	AP-36	Water
2/21/2023	EET HOU/EET PIT/EET SL/EA SB	860-43774-9	MW-03	Water
2/21/2023	EET HOU/EET PIT/EET SL/EA SB	860-43774-10	PZ-05	Water
2/21/2023	EET HOU/EET PIT/EET SL/EA SB	860-43774-11	PZ-06	Water
2/21/2023	EET HOU/EET PIT/EET SL/EA SB	860-43774-12	EB-01	Water
2/21/2023	EET HOU/EET PIT/EET SL/EA SB	860-43774-13	DUP-02	Water
2/21/2023	EET HOU/EET PIT/EET SL/EA SB	860-43774-14	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 Analytical South Bend, South Bend, Indiana

TABLE 2
Qualifiers Added During Data Usability Review

Sample ID	Analyte	Lab Result	Unit	DUS Qualifier or Bias Code	Reason for Qualification	Report Number
MW-03	Boron	61.3 ^+^2	mg/L	J	FD RPD > 30%	860-43774-1
MW-03	Chromium	0.00765 U	mg/L	J	FD RPD > 30%	860-43774-1
MW-03	Radium-226	0.95	pCi/L	J	FD RPD > 30%	860-43774-1
DUP-02	Fluoride	0.775	mg/L	J	FD RPD > 30%	860-43774-1
DUP-02	Boron	14.2 ^+^2	mg/L	J	FD RPD > 30%	860-43774-1
DUP-02	Chromium	0.0116	mg/L	J	FD RPD > 30%	860-43774-1
DUP-02	Radium-226	0.54	pCi/L	J	FD RPD > 30%	860-43774-1

Notes:

1. mg/L: milligrams per liter.
2. JH: Estimated value, biased high
3. >30%: Greater than thirty percent
4. 5X: five times
5. FB: Field Blank
6. FD: Field Duplicate

TABLE 3
Field Duplicate Detections

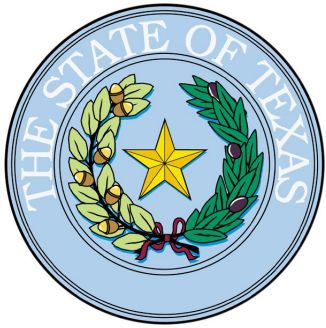
Analyte	MDL	Primary Sample Result (mg/L)	Field Duplicate Result (mg/L)	Relative Percent Difference
Chloride	2.00	1750	1740	0.6
Fluoride	0.1	0.331 J	0.775	80.3
Sulfate	10.9	4410	4380	0.7
Arsenic	0.00141	0.0286	0.0256	11.1
Boron	0.601	61.3 ^+^2	14.2 ^+^2	124.8
Barium	0.0157	0.0157 U	0.0157 U	0.0
Beryllium	0.00137	0.0283	0.0258	9.2
Calcium	0.635	604	552	9.0
Cadmium	0.00109	0.0602	0.0555	8.1
Chromium	0.00765	0.00765 U	0.0116	41.0
Cobalt	0.00131	0.400	0.357	11.4
Molybdenum	0.00305	0.00305 U	0.00305 U	0
Lead	0.00188	0.00188 U	0.00188 U	0
Antimony	0.00484	0.00484 U	0.00484 U	0
Thallium	0.00236	0.00236 U	0.00236 U	0
Selenium	0.00370	0.0113 J	0.00969 J	15.3
Lithium	0.00645	1.87	1.69	10.1
Mercury	0.130	0.130 U	0.130 U	0
Total Alkalinity	4.00	4.00 U	4.00 U	0
Bicarbonate Alkalinity as CaCO3	4.00	4.00 U	4.00 U	0
Total Dissolved Solids	100	8990	8990	0
Radium-228	0.504 pCi/L	5.08 pCi/L	4.68 pCi/L	8.2
Radium-226	0.350 pCi/L	0.950 pCi/L	0.540 pCi/L	55.0

Notes:

1. MDL: Method Detection Limit
2. mg/L: milligrams per liter; pCi/L: pico Curies per liter
3. $RPD = \frac{ABS(PR-FD)}{AVERAGE(PR+FD)} * 100$, where PR is the Primary Sample and FD is the Field Duplicate, where the MDL is substituted for results below detection.
4. ***Bold-italics*** = RPD greater than 30%.
5. U = analyte not detected at the stated limit; J = estimated result between the MDL and reporting limit; ^+ = Continuing Calibration Verification (CCV) is outside acceptance limits, high biased; ^2 = Calibration Blank (ICB and/or CCB) is outside acceptance limits
6. 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
4141-4147 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: T104704215-23-50
Effective Date: 3/14/2023
Expiration Date: 6/30/2023

A handwritten signature in black ink that reads "Erin E. Chamalor".

**Executive Director Texas Commission on
Environmental Quality**



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.

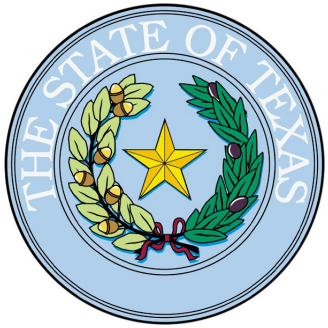
Certificate Number: T104704187-22-16

Effective Date: 1/1/2023

Expiration Date: 12/31/2023

A handwritten signature in black ink, appearing to read "T. G. Baker".

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.

Certificate Number: T104704528-23-12

Effective Date: 4/1/2023

Expiration Date: 3/31/2024

A handwritten signature in black ink that reads "Erin E. Chamallo".

**Executive Director Texas Commission on
Environmental Quality**



Texas Commission on Environmental Quality

NELAP-Recognized Laboratory Accreditation is hereby awarded to



Eurofins TestAmerica 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.

A handwritten signature in black ink, appearing to read "T. G. Baker".

Certificate Number: T104704193-22-21

Effective Date: 8/1/2022

Expiration Date: 7/31/2023

**Executive Director Texas Commission on
Environmental Quality**

Attachment B

Eurofins Houston – Stafford, Texas

Analytical Report

Job ID.: 860-43774-1

 **ANALYTICAL REPORT****PREPARED FOR**

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

Generated 6/27/2023 12:18:07 PM

JOB DESCRIPTION

Ash Pond

JOB NUMBER

860-43774-1

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
6/27/2023 12:18:07 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
Project/Site: Ash Pond

Job ID: 860-43774-1

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.
B	Compound was found in the blank and sample.
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.
^2	Calibration Blank (ICB and/or CCB) is outside acceptance limits.
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
U	Result is less than the sample detection limit.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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)

Eurofins Houston

Definitions/Glossary

Client: GSI Environmental, Inc
Project/Site: Ash Pond

Job ID: 860-43774-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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

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Case Narrative

Client: GSI Environmental, Inc
Project/Site: Ash Pond

Job ID: 860-43774-1

Job ID: 860-43774-1

Laboratory: Eurofins Houston

Narrative

Job Narrative 860-43774-1

Receipt

The samples were received on 2/22/2023 4:03 PM. 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 2.5°C, 3.5°C, 3.9°C and 4.1°C

HPLC/IC

Method 300_ORGFM_28D: The instrument blank/CCB for analytical batch 860-92315 contained Chloride and Sulfate greater than the method detection limit (MDL), associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the instrument blank/CCB. The data have been qualified and reported.

Method 300_ORGFM_28D: The following samples were diluted to bring the concentration of target analytes within the calibration range: AP-31 (860-43774-3), AP-34 (860-43774-6), AP-35 (860-43774-7), AP-36 (860-43774-8), MW-03 (860-43774-9), PZ-05 (860-43774-10), PZ-06 (860-43774-11) and DUP-02 (860-43774-13). Elevated reporting limits (RLs) are provided.

Method 300_ORGFM_28D: Due to the high concentration of Chloride and Sulfate, the matrix spike / matrix spike duplicate (MS/MSD) for analytical batch 860-92315 could not be evaluated for accuracy and precision. The associated laboratory control/laboratory control sample duplicate (LCS/LCSD) met acceptance criteria.

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-92315 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/laboratory control sample duplicate (LCS/LCSD) recovery is within acceptance limits.

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-92611 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/laboratory control sample duplicate (LCS/LCSD) 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: PZ-03 (860-43774-2), AP-31 (860-43774-3), AP-32 (860-43774-4), AP-34 (860-43774-6), AP-35 (860-43774-7), AP-36 (860-43774-8), MW-03 (860-43774-9), PZ-05 (860-43774-10), PZ-06 (860-43774-11) and DUP-02 (860-43774-13). Elevated reporting limits (RLs) are provided.

Method 300_ORGFM_28D: The instrument blank/CCB for analytical batch 860-92315 contained Fluoride greater than the method detection limit (MDL), and were not reanalyzed because associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the instrument blank/CCB. The data have been qualified and reported.

Method 300_ORGFM_28D: The instrument blank/CCB for analytical batch 860-92315 contained Fluoride greater than the method detection limit (MDL), and were not reanalyzed because this target analyte concentration was less than the reporting limit (RL). The data have been qualified and reported.

Method 300_ORGFM_28D: The instrument blank/CCB for analytical batch 860-92315 contained Chloride greater than the method detection limit (MDL), and were not reanalyzed because associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the instrument blank/CCB. The data have been qualified and reported.

Method 300_ORGFM_28D: The method blank for analytical batch 860-92843 contained Chloride and Sulfate above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 300_ORGFM_28D: The method blank for analytical batch 860-92843 contained Chloride and Sulfate above the method detection limit (MDL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the

Case Narrative

Client: GSI Environmental, Inc
Project/Site: Ash Pond

Job ID: 860-43774-1

Job ID: 860-43774-1 (Continued)

Laboratory: Eurofins Houston (Continued)

method blank.

Method 300_ORGFM_28D: The instrument blank/CCB for analytical batch 860-92843 contained Chloride and Sulfate 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 qualified and reported.

Method 300_ORGFM_28D: The following samples were diluted to bring the concentration of target analytes within the calibration range: AP-32 (860-43774-4) and AP-33 (860-43774-5). 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.

Metals

Method 6020A: The following samples were diluted due to the nature of the sample matrix: PZ-02 (860-43774-1), PZ-03 (860-43774-2), PZ-03 (860-43774-2[MS]), PZ-03 (860-43774-2[MSD]), AP-31 (860-43774-3), AP-32 (860-43774-4), AP-33 (860-43774-5), AP-34 (860-43774-6), AP-35 (860-43774-7), AP-36 (860-43774-8), MW-03 (860-43774-9), PZ-05 (860-43774-10), PZ-06 (860-43774-11), EB-01 (860-43774-12), DUP-02 (860-43774-13), FB-02 (860-43774-14), (860-43774-F-2-D PDS ^5) and (860-43774-F-2-D SD ^25). Elevated reporting limits (RLs) are provided.

Method 6020A: The low level check standard (CCVL) recovery for boron was outside the control limits for batch 180-437655. All other instrument QC, calibration verifications (CCVs), calibration blanks (CCBs) were within the control limits and the boron results were greater than the CCV. Therefore, a CCVL for boron is not needed. Results are reported as is with the addition of this narrative.

Method 6020A: The boron concentrations found in the continuing calibration blanks CCB 180-437655/39 and CCB 180-437655/50 were greater than the reporting limit (80 ug/L). All associated samples bracketed by these CCBs had boron concentrations at least 10x > the CCB concentrations. Results are reported as is with the addition of this narrative.

Method 6020A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 180-430163 and analytical batch 180-437655 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: The post digestion spike % recovery for boron associated with batch 180-437655 was outside of control limits. The associated samples are: PZ-02 (860-43774-1), PZ-03 (860-43774-2), PZ-03 (860-43774-2[MS]), PZ-03 (860-43774-2[MSD]), AP-31 (860-43774-3), AP-32 (860-43774-4), AP-33 (860-43774-5), AP-34 (860-43774-6), AP-35 (860-43774-7), AP-36 (860-43774-8), MW-03 (860-43774-9), PZ-05 (860-43774-10), PZ-06 (860-43774-11), EB-01 (860-43774-12), DUP-02 (860-43774-13), FB-02 (860-43774-14), (860-43774-F-2-D PDS ^10) and (860-43774-F-2-D SD ^50).

Method 6020A: The following samples were diluted to bring the concentration of target analytes within the calibration range: PZ-02 (860-43774-1), PZ-03 (860-43774-2), PZ-03 (860-43774-2[MS]), PZ-03 (860-43774-2[MSD]), AP-31 (860-43774-3), AP-32 (860-43774-4), AP-33 (860-43774-5), AP-34 (860-43774-6), AP-35 (860-43774-7), AP-36 (860-43774-8), MW-03 (860-43774-9), PZ-05 (860-43774-10), PZ-06 (860-43774-11), EB-01 (860-43774-12), DUP-02 (860-43774-13), FB-02 (860-43774-14), (860-43774-F-2-D PDS ^10) and (860-43774-F-2-D SD ^50).Elevated reporting limits (RLs) are provided.

Method 6020A: The continuing calibration verification (CCV) associated with batch 180-438170 recovered above the upper control limit for boron. The samples associated with this CCV were below the reporting limit for boron; therefore, the data have been reported.

Method 6020A: The following samples were diluted to bring the concentration of target analytes within the calibration range: AP-33 (860-43774-5), AP-34 (860-43774-6), AP-35 (860-43774-7), AP-36 (860-43774-8), MW-03 (860-43774-9) and PZ-05 (860-43774-10). Elevated reporting limits (RLs) are provided.

Method 6020A: The following samples were diluted to bring the concentration of target analytes within the calibration range: AP-33 (860-43774-5), AP-34 (860-43774-6), AP-35 (860-43774-7), AP-36 (860-43774-8) and PZ-05 (860-43774-10). Elevated reporting limits (RLs) are provided.

Case Narrative

Client: GSI Environmental, Inc
Project/Site: Ash Pond

Job ID: 860-43774-1

Job ID: 860-43774-1 (Continued)

Laboratory: Eurofins Houston (Continued)

Method 7470A: The matrix spike (MS) recovery for preparation batch 180-429585 and analytical batch 180-429822 was below the control limits for mercury. Sample non-homogeneity is 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

Method 904.0: Radium-228 prep batch 160-602361: Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. PZ-02 (860-43774-1), PZ-03 (860-43774-2), PZ-03 (860-43774-2[MS]), PZ-03 (860-43774-2[MSD]), AP-31 (860-43774-3), AP-32 (860-43774-4), AP-33 (860-43774-5), AP-34 (860-43774-6), AP-35 (860-43774-7), AP-36 (860-43774-8), MW-03 (860-43774-9), PZ-05 (860-43774-10), PZ-06 (860-43774-11), EB-01 (860-43774-12), DUP-02 (860-43774-13), FB-02 (860-43774-14), (LCS 160-602361/2-A) and (MB 160-602361/1-A)

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 dirty matrix, which resulted in a high biased barium carrier recovery. Results may be low biased. The barium carrier limits are 11.9-63.9 mg. The sample barium precipitate is 85.0 mg. Sample requires re-extraction, however there is insufficient volume remaining. Recommend client accept the qualified results or recollect.

Method SM7500_Ra_B: Sample had a dirty matrix, which resulted in a high biased barium carrier recovery. Results may be low biased. The barium carrier limits are 11.9-63.9 mg. The sample barium precipitate is 85.0 mg. Sample requires re-extraction, however there is insufficient volume remaining. Recommend client accept the qualified results or recollect.

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: 860-43774-1

Client Sample ID: PZ-02

Lab Sample ID: 860-43774-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	3830		5.00	2.00	mg/L	10		300.0	Total/NA
Sulfate - DL	2910		50.0	10.9	mg/L	100		300.0	Total/NA
Boron	8.86	^+	0.800	0.601	mg/L	10		EPA 6020A	Total Recoverable
Barium	0.0304	J	0.0500	0.0157	mg/L	5		EPA 6020A	Total Recoverable
Calcium	945		2.50	0.635	mg/L	5		EPA 6020A	Total Recoverable
Cobalt	0.00299		0.00250	0.00131	mg/L	5		EPA 6020A	Total Recoverable
Lithium	2.08		0.0250	0.00645	mg/L	5		EPA 6020A	Total Recoverable
Total Alkalinity	115		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	115		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: PZ-03

Lab Sample ID: 860-43774-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	5.09	F1	5.00	1.00	mg/L	10		300.0	Total/NA
Chloride - DL	5470		50.0	20.0	mg/L	100		300.0	Total/NA
Sulfate - DL	3940	F1	50.0	10.9	mg/L	100		300.0	Total/NA
Arsenic	0.0821		0.00500	0.00141	mg/L	5		EPA 6020A	Total Recoverable
Boron	11.4	^+	0.800	0.601	mg/L	10		EPA 6020A	Total Recoverable
Barium	0.0210	J	0.0500	0.0157	mg/L	5		EPA 6020A	Total Recoverable
Beryllium	0.257		0.00500	0.00137	mg/L	5		EPA 6020A	Total Recoverable
Calcium	864		2.50	0.635	mg/L	5		EPA 6020A	Total Recoverable
Cadmium	0.529		0.00500	0.00109	mg/L	5		EPA 6020A	Total Recoverable
Cobalt	1.55		0.00250	0.00131	mg/L	5		EPA 6020A	Total Recoverable
Lead	0.00206	J	0.00500	0.00188	mg/L	5		EPA 6020A	Total Recoverable
Thallium	0.00952		0.00500	0.00236	mg/L	5		EPA 6020A	Total Recoverable
Selenium	0.0444		0.0250	0.00370	mg/L	5		EPA 6020A	Total Recoverable
Lithium	2.36		0.0250	0.00645	mg/L	5		EPA 6020A	Total Recoverable
Mercury	0.404	F1	0.200	0.130	ug/L	1		EPA 7470A	Total/NA
Total Dissolved Solids	14100		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: AP-31

Lab Sample ID: 860-43774-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	0.211	J	0.500	0.100	mg/L	1		300.0	Total/NA
Chloride - DL	2040		5.00	2.00	mg/L	10		300.0	Total/NA
Sulfate - DL2	3110		50.0	10.9	mg/L	100		300.0	Total/NA
Arsenic	0.0123		0.00500	0.00141	mg/L	5		EPA 6020A	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Houston

Detection Summary

Client: GSI Environmental, Inc
Project/Site: Ash Pond

Job ID: 860-43774-1

Client Sample ID: AP-31 (Continued)

Lab Sample ID: 860-43774-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	70.1	^+	8.00	6.01	mg/L	100		EPA 6020A	Total Recoverable
Beryllium	0.0136		0.00500	0.00137	mg/L	5		EPA 6020A	Total Recoverable
Calcium	655		2.50	0.635	mg/L	5		EPA 6020A	Total Recoverable
Cadmium	0.00496	J	0.00500	0.00109	mg/L	5		EPA 6020A	Total Recoverable
Cobalt	0.271		0.00250	0.00131	mg/L	5		EPA 6020A	Total Recoverable
Thallium	0.00263	J	0.00500	0.00236	mg/L	5		EPA 6020A	Total Recoverable
Selenium	0.0257		0.0250	0.00370	mg/L	5		EPA 6020A	Total Recoverable
Lithium	0.789		0.0250	0.00645	mg/L	5		EPA 6020A	Total Recoverable
Mercury	0.482		0.200	0.130	ug/L	1		EPA 7470A	Total/NA
Total Dissolved Solids	8400		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: AP-32

Lab Sample ID: 860-43774-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	2620	B	5.00	2.00	mg/L	10		300.0	Total/NA
Fluoride	1.18	J	5.00	1.00	mg/L	10		300.0	Total/NA
Sulfate - DL	3430	B	50.0	10.9	mg/L	100		300.0	Total/NA
Arsenic	0.0564		0.00500	0.00141	mg/L	5		EPA 6020A	Total Recoverable
Boron	22.2	^+ ^2	0.800	0.601	mg/L	10		EPA 6020A	Total Recoverable
Barium	0.0177	J	0.0500	0.0157	mg/L	5		EPA 6020A	Total Recoverable
Beryllium	0.0559		0.00500	0.00137	mg/L	5		EPA 6020A	Total Recoverable
Calcium	707		2.50	0.635	mg/L	5		EPA 6020A	Total Recoverable
Cadmium	0.0810		0.00500	0.00109	mg/L	5		EPA 6020A	Total Recoverable
Cobalt	0.600		0.00250	0.00131	mg/L	5		EPA 6020A	Total Recoverable
Thallium	0.00423	J	0.00500	0.00236	mg/L	5		EPA 6020A	Total Recoverable
Selenium	0.0180	J	0.0250	0.00370	mg/L	5		EPA 6020A	Total Recoverable
Lithium	1.55		0.0250	0.00645	mg/L	5		EPA 6020A	Total Recoverable
Mercury	1.79		0.200	0.130	ug/L	1		EPA 7470A	Total/NA
Total Dissolved Solids	9500		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: AP-33

Lab Sample ID: 860-43774-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	4040	B	5.00	2.00	mg/L	10		300.0	Total/NA
Fluoride	5.68		5.00	1.00	mg/L	10		300.0	Total/NA
Sulfate - DL	3440	B	50.0	10.9	mg/L	100		300.0	Total/NA
Arsenic	0.0937		0.00500	0.00141	mg/L	5		EPA 6020A	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Houston

Detection Summary

Client: GSI Environmental, Inc
Project/Site: Ash Pond

Job ID: 860-43774-1

Client Sample ID: AP-33 (Continued)

Lab Sample ID: 860-43774-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	62.0		2.00	1.50	mg/L	25		EPA 6020A	Total
Barium	0.0191	J	0.0500	0.0157	mg/L	5		EPA 6020A	Total Recoverable
Beryllium	0.287		0.00500	0.00137	mg/L	5		EPA 6020A	Total Recoverable
Calcium	844		2.50	0.635	mg/L	5		EPA 6020A	Total Recoverable
Cadmium	0.118		0.00500	0.00109	mg/L	5		EPA 6020A	Total Recoverable
Chromium	0.00880	J	0.0100	0.00765	mg/L	5		EPA 6020A	Total Recoverable
Cobalt	1.51		0.00250	0.00131	mg/L	5		EPA 6020A	Total Recoverable
Thallium	0.00564		0.00500	0.00236	mg/L	5		EPA 6020A	Total Recoverable
Selenium	0.0270		0.0250	0.00370	mg/L	5		EPA 6020A	Total Recoverable
Lithium	1.18		0.0250	0.00645	mg/L	5		EPA 6020A	Total Recoverable
Mercury	3.84		0.200	0.130	ug/L	1		EPA 7470A	Total/NA
Total Dissolved Solids	11600		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: AP-34

Lab Sample ID: 860-43774-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	1.98		0.500	0.100	mg/L	1		300.0	Total/NA
Chloride - DL	2750		5.00	2.00	mg/L	10		300.0	Total/NA
Sulfate - DL2	3520		50.0	10.9	mg/L	100		300.0	Total/NA
Arsenic	0.0611		0.00500	0.00141	mg/L	5		EPA 6020A	Total Recoverable
Boron	24.1		4.00	3.01	mg/L	50		EPA 6020A	Total Recoverable
Beryllium	0.270		0.00500	0.00137	mg/L	5		EPA 6020A	Total Recoverable
Calcium	706		2.50	0.635	mg/L	5		EPA 6020A	Total Recoverable
Cadmium	0.0232		0.00500	0.00109	mg/L	5		EPA 6020A	Total Recoverable
Cobalt	1.21		0.00250	0.00131	mg/L	5		EPA 6020A	Total Recoverable
Selenium	0.0159	J	0.0250	0.00370	mg/L	5		EPA 6020A	Total Recoverable
Lithium	1.30		0.0250	0.00645	mg/L	5		EPA 6020A	Total Recoverable
Mercury	2.21		0.200	0.130	ug/L	1		EPA 7470A	Total/NA
Total Dissolved Solids	9420		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: AP-35

Lab Sample ID: 860-43774-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	1.11		0.500	0.100	mg/L	1		300.0	Total/NA
Chloride - DL	2120		5.00	2.00	mg/L	10		300.0	Total/NA
Sulfate - DL2	2810		50.0	10.9	mg/L	100		300.0	Total/NA
Arsenic	0.0133		0.00500	0.00141	mg/L	5		EPA 6020A	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Houston

Detection Summary

Client: GSI Environmental, Inc
Project/Site: Ash Pond

Job ID: 860-43774-1

Client Sample ID: AP-35 (Continued)

Lab Sample ID: 860-43774-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	45.2		4.00	3.01	mg/L	50		EPA 6020A	Total Recoverable
Barium	0.0182	J	0.0500	0.0157	mg/L	5		EPA 6020A	Total Recoverable
Beryllium	0.0789		0.00500	0.00137	mg/L	5		EPA 6020A	Total Recoverable
Calcium	704		2.50	0.635	mg/L	5		EPA 6020A	Total Recoverable
Cadmium	0.0225		0.00500	0.00109	mg/L	5		EPA 6020A	Total Recoverable
Cobalt	0.162		0.00250	0.00131	mg/L	5		EPA 6020A	Total Recoverable
Lead	0.00548		0.00500	0.00188	mg/L	5		EPA 6020A	Total Recoverable
Thallium	0.00732		0.00500	0.00236	mg/L	5		EPA 6020A	Total Recoverable
Selenium	0.00968	J	0.0250	0.00370	mg/L	5		EPA 6020A	Total Recoverable
Lithium	1.04		0.0250	0.00645	mg/L	5		EPA 6020A	Total Recoverable
Mercury	1.13		0.200	0.130	ug/L	1		EPA 7470A	Total/NA
Total Dissolved Solids	8010		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: AP-36

Lab Sample ID: 860-43774-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	0.324	J	0.500	0.100	mg/L	1		300.0	Total/NA
Chloride - DL	1540		5.00	2.00	mg/L	10		300.0	Total/NA
Sulfate - DL2	2910		50.0	10.9	mg/L	100		300.0	Total/NA
Arsenic	0.00585		0.00500	0.00141	mg/L	5		EPA 6020A	Total Recoverable
Boron	2.23		0.160	0.120	mg/L	2		EPA 6020A	Total Recoverable
Barium	0.0190	J	0.0500	0.0157	mg/L	5		EPA 6020A	Total Recoverable
Beryllium	0.00992		0.00500	0.00137	mg/L	5		EPA 6020A	Total Recoverable
Calcium	656		2.50	0.635	mg/L	5		EPA 6020A	Total Recoverable
Cobalt	0.0647		0.00250	0.00131	mg/L	5		EPA 6020A	Total Recoverable
Lithium	0.953		0.0250	0.00645	mg/L	5		EPA 6020A	Total Recoverable
Total Dissolved Solids	6620		40.0	40.0	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-03

Lab Sample ID: 860-43774-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	0.331	J	0.500	0.100	mg/L	1		300.0	Total/NA
Chloride - DL	1750		5.00	2.00	mg/L	10		300.0	Total/NA
Sulfate - DL2	4410		50.0	10.9	mg/L	100		300.0	Total/NA
Arsenic	0.0286		0.00500	0.00141	mg/L	5		EPA 6020A	Total Recoverable
Boron	61.3	^+ ^2	2.00	1.50	mg/L	25		EPA 6020A	Total Recoverable
Beryllium	0.0283		0.00500	0.00137	mg/L	5		EPA 6020A	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Houston

Detection Summary

Client: GSI Environmental, Inc
Project/Site: Ash Pond

Job ID: 860-43774-1

Client Sample ID: MW-03 (Continued)

Lab Sample ID: 860-43774-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	604		2.50	0.635	mg/L	5		EPA 6020A	Total Recoverable
Cadmium	0.0602		0.00500	0.00109	mg/L	5		EPA 6020A	Total Recoverable
Cobalt	0.400		0.00250	0.00131	mg/L	5		EPA 6020A	Total Recoverable
Selenium	0.0113	J	0.0250	0.00370	mg/L	5		EPA 6020A	Total Recoverable
Lithium	1.87		0.0250	0.00645	mg/L	5		EPA 6020A	Total Recoverable
Total Dissolved Solids	8990		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: PZ-05

Lab Sample ID: 860-43774-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	1.24		0.500	0.100	mg/L	1		300.0	Total/NA
Chloride - DL	2280		5.00	2.00	mg/L	10		300.0	Total/NA
Sulfate - DL	3260		50.0	10.9	mg/L	100		300.0	Total/NA
Arsenic	0.0520		0.00500	0.00141	mg/L	5		EPA 6020A	Total Recoverable
Boron	28.9		4.00	3.01	mg/L	50		EPA 6020A	Total Recoverable
Beryllium	0.223		0.00500	0.00137	mg/L	5		EPA 6020A	Total Recoverable
Calcium	677		2.50	0.635	mg/L	5		EPA 6020A	Total Recoverable
Cadmium	0.0727		0.00500	0.00109	mg/L	5		EPA 6020A	Total Recoverable
Cobalt	1.01		0.00250	0.00131	mg/L	5		EPA 6020A	Total Recoverable
Thallium	0.00244	J	0.00500	0.00236	mg/L	5		EPA 6020A	Total Recoverable
Selenium	0.0152	J	0.0250	0.00370	mg/L	5		EPA 6020A	Total Recoverable
Lithium	0.966		0.0250	0.00645	mg/L	5		EPA 6020A	Total Recoverable
Mercury	0.290		0.200	0.130	ug/L	1		EPA 7470A	Total/NA
Total Dissolved Solids	8280		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: PZ-06

Lab Sample ID: 860-43774-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	0.100	J	0.500	0.100	mg/L	1		300.0	Total/NA
Chloride - DL	1910		5.00	2.00	mg/L	10		300.0	Total/NA
Sulfate - DL	3070		50.0	10.9	mg/L	100		300.0	Total/NA
Boron	4.26	^+ ^2	0.400	0.301	mg/L	5		EPA 6020A	Total Recoverable
Barium	0.0223	J	0.0500	0.0157	mg/L	5		EPA 6020A	Total Recoverable
Calcium	707		2.50	0.635	mg/L	5		EPA 6020A	Total Recoverable
Lithium	1.06		0.0250	0.00645	mg/L	5		EPA 6020A	Total Recoverable
Total Alkalinity	84.1		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	84.1		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	8440		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: Ash Pond

Job ID: 860-43774-1

Client Sample ID: EB-01

Lab Sample ID: 860-43774-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	0.350	J	0.500	0.200	mg/L	1		300.0	Total/NA
Sulfate	0.134	J	0.500	0.109	mg/L	1		300.0	Total/NA

Client Sample ID: DUP-02

Lab Sample ID: 860-43774-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	0.775		0.500	0.100	mg/L	1		300.0	Total/NA
Chloride - DL	1740		5.00	2.00	mg/L	10		300.0	Total/NA
Sulfate - DL2	4380		50.0	10.9	mg/L	100		300.0	Total/NA
Arsenic	0.0256		0.00500	0.00141	mg/L	5		EPA 6020A	Total Recoverable
Boron	14.2	^+ ^2	0.800	0.601	mg/L	10		EPA 6020A	Total Recoverable
Beryllium	0.0258		0.00500	0.00137	mg/L	5		EPA 6020A	Total Recoverable
Calcium	552		2.50	0.635	mg/L	5		EPA 6020A	Total Recoverable
Cadmium	0.0555		0.00500	0.00109	mg/L	5		EPA 6020A	Total Recoverable
Chromium	0.0116		0.0100	0.00765	mg/L	5		EPA 6020A	Total Recoverable
Cobalt	0.357		0.00250	0.00131	mg/L	5		EPA 6020A	Total Recoverable
Selenium	0.00969	J	0.0250	0.00370	mg/L	5		EPA 6020A	Total Recoverable
Lithium	1.69		0.0250	0.00645	mg/L	5		EPA 6020A	Total Recoverable
Total Dissolved Solids	8990		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: FB-02

Lab Sample ID: 860-43774-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	0.354	J	0.500	0.200	mg/L	1		300.0	Total/NA
Sulfate	0.147	J	0.500	0.109	mg/L	1		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Houston

Client Sample Results

Client: GSI Environmental, Inc
Project/Site: Ash Pond

Job ID: 860-43774-1

Client Sample ID: PZ-02

Lab Sample ID: 860-43774-1

Date Collected: 02/21/23 10:25

Matrix: Water

Date Received: 02/22/23 16:03

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3830		5.00	2.00	mg/L			03/02/23 00:42	10
Fluoride	1.00	U	5.00	1.00	mg/L			03/02/23 00:42	10

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	2910		50.0	10.9	mg/L			03/03/23 17:03	100

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00141	U	0.00500	0.00141	mg/L		03/23/23 10:55	05/26/23 10:18	5
Boron	8.86	^+	0.800	0.601	mg/L		03/23/23 10:55	06/09/23 19:36	10
Barium	0.0304	J	0.0500	0.0157	mg/L		03/23/23 10:55	05/26/23 10:18	5
Beryllium	0.00137	U	0.00500	0.00137	mg/L		03/23/23 10:55	05/26/23 10:18	5
Calcium	945		2.50	0.635	mg/L		03/23/23 10:55	05/26/23 10:18	5
Cadmium	0.00109	U	0.00500	0.00109	mg/L		03/23/23 10:55	05/26/23 10:18	5
Chromium	0.00765	U	0.0100	0.00765	mg/L		03/23/23 10:55	05/26/23 10:18	5
Cobalt	0.00299		0.00250	0.00131	mg/L		03/23/23 10:55	05/26/23 10:18	5
Molybdenum	0.00305	U	0.0250	0.00305	mg/L		03/23/23 10:55	05/26/23 10:18	5
Lead	0.00188	U	0.00500	0.00188	mg/L		03/23/23 10:55	05/26/23 10:18	5
Antimony	0.00484	U	0.0100	0.00484	mg/L		03/23/23 10:55	05/26/23 10:18	5
Thallium	0.00236	U	0.00500	0.00236	mg/L		03/23/23 10:55	05/26/23 10:18	5
Selenium	0.00370	U	0.0250	0.00370	mg/L		03/23/23 10:55	05/26/23 10:18	5
Lithium	2.08		0.0250	0.00645	mg/L		03/23/23 10:55	05/26/23 10:18	5

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		03/20/23 08:40	03/20/23 16:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	115		4.00	4.00	mg/L			02/27/23 12:43	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	115		4.00	4.00	mg/L			02/27/23 12:43	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/27/23 12:43	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/27/23 12:43	1
Total Dissolved Solids (SM 2540C)	10900		100	100	mg/L			02/27/23 12:00	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	2.78		0.727	0.771	1.00	0.719	pCi/L	03/06/23 09:54	03/14/23 11:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	75.7		30 - 110					03/06/23 09:54	03/14/23 11:54	1
Y Carrier	84.5		30 - 110					03/06/23 09:54	03/14/23 11:54	1

Client Sample Results

Client: GSI Environmental, Inc
Project/Site: Ash Pond

Job ID: 860-43774-1

Client Sample ID: PZ-02

Lab Sample ID: 860-43774-1

Date Collected: 02/21/23 10:25

Matrix: Water

Date Received: 02/22/23 16:03

Method: SM7500 Ra B - Radium-226

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra-226	0.410	U	0.900		1.00	0.550	pCi/L	03/21/23 13:38	04/03/23 09:33	1

Client Sample ID: PZ-03

Lab Sample ID: 860-43774-2

Date Collected: 02/21/23 08:50

Matrix: Water

Date Received: 02/22/23 16:03

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	5.09	F1	5.00	1.00	mg/L			03/02/23 00:54	10

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5470		50.0	20.0	mg/L			03/03/23 17:16	100
Sulfate	3940	F1	50.0	10.9	mg/L			03/03/23 17:16	100

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0821		0.00500	0.00141	mg/L		03/23/23 10:55	05/26/23 10:21	5
Boron	11.4	^+	0.800	0.601	mg/L		03/23/23 10:55	06/09/23 19:39	10
Barium	0.0210	J	0.0500	0.0157	mg/L		03/23/23 10:55	05/26/23 10:21	5
Beryllium	0.257		0.00500	0.00137	mg/L		03/23/23 10:55	05/26/23 10:21	5
Calcium	864		2.50	0.635	mg/L		03/23/23 10:55	05/26/23 10:21	5
Cadmium	0.529		0.00500	0.00109	mg/L		03/23/23 10:55	05/26/23 10:21	5
Chromium	0.00765	U	0.0100	0.00765	mg/L		03/23/23 10:55	05/26/23 10:21	5
Cobalt	1.55		0.00250	0.00131	mg/L		03/23/23 10:55	05/26/23 10:21	5
Molybdenum	0.00305	U	0.0250	0.00305	mg/L		03/23/23 10:55	05/26/23 10:21	5
Lead	0.00206	J	0.00500	0.00188	mg/L		03/23/23 10:55	05/26/23 10:21	5
Antimony	0.00484	U	0.0100	0.00484	mg/L		03/23/23 10:55	05/26/23 10:21	5
Thallium	0.00952		0.00500	0.00236	mg/L		03/23/23 10:55	05/26/23 10:21	5
Selenium	0.0444		0.0250	0.00370	mg/L		03/23/23 10:55	05/26/23 10:21	5
Lithium	2.36		0.0250	0.00645	mg/L		03/23/23 10:55	05/26/23 10:21	5

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.404	F1	0.200	0.130	ug/L		03/17/23 12:17	03/20/23 14:43	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			02/28/23 11:48	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/28/23 11:48	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/28/23 11:48	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/28/23 11:48	1
Total Dissolved Solids (SM 2540C)	14100		100	100	mg/L			02/27/23 12:00	1

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Client Sample Results

Client: GSI Environmental, Inc
Project/Site: Ash Pond

Job ID: 860-43774-1

Client Sample ID: PZ-03
Date Collected: 02/21/23 08:50
Date Received: 02/22/23 16:03

Lab Sample ID: 860-43774-2
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	4.67		0.866	0.967	1.00	0.743	pCi/L	03/06/23 09:54	03/14/23 11:54	1
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>					<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Ba Carrier	84.2		30 - 110					03/06/23 09:54	03/14/23 11:54	1
Y Carrier	83.0		30 - 110					03/06/23 09:54	03/14/23 11:54	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		0.280		1.00	0.180	pCi/L	03/21/23 13:55	03/27/23 09:56	1

Client Sample ID: AP-31
Date Collected: 02/21/23 08:30
Date Received: 02/22/23 16:03

Lab Sample ID: 860-43774-3
Matrix: Water

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.211	J	0.500	0.100	mg/L			03/02/23 01:31	1

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2040		5.00	2.00	mg/L			03/02/23 01:43	10

Method: EPA 300.0 - Anions, Ion Chromatography - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	3110		50.0	10.9	mg/L			03/03/23 17:53	100

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0123		0.00500	0.00141	mg/L		03/23/23 10:55	05/26/23 10:36	5
Boron	70.1	^+	8.00	6.01	mg/L		03/23/23 10:55	06/09/23 19:53	100
Barium	0.0157	U	0.0500	0.0157	mg/L		03/23/23 10:55	05/26/23 10:36	5
Beryllium	0.0136		0.00500	0.00137	mg/L		03/23/23 10:55	05/26/23 10:36	5
Calcium	655		2.50	0.635	mg/L		03/23/23 10:55	05/26/23 10:36	5
Cadmium	0.00496	J	0.00500	0.00109	mg/L		03/23/23 10:55	05/26/23 10:36	5
Chromium	0.00765	U	0.0100	0.00765	mg/L		03/23/23 10:55	05/26/23 10:36	5
Cobalt	0.271		0.00250	0.00131	mg/L		03/23/23 10:55	05/26/23 10:36	5
Molybdenum	0.00305	U	0.0250	0.00305	mg/L		03/23/23 10:55	05/26/23 10:36	5
Lead	0.00188	U	0.00500	0.00188	mg/L		03/23/23 10:55	05/26/23 10:36	5
Antimony	0.00484	U	0.0100	0.00484	mg/L		03/23/23 10:55	05/26/23 10:36	5
Thallium	0.00263	J	0.00500	0.00236	mg/L		03/23/23 10:55	05/26/23 10:36	5
Selenium	0.0257		0.0250	0.00370	mg/L		03/23/23 10:55	05/26/23 10:36	5
Lithium	0.789		0.0250	0.00645	mg/L		03/23/23 10:55	05/26/23 10:36	5

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.482		0.200	0.130	ug/L		03/17/23 12:17	03/20/23 14:47	1

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Client Sample Results

Client: GSI Environmental, Inc
Project/Site: Ash Pond

Job ID: 860-43774-1

Client Sample ID: AP-31
Date Collected: 02/21/23 08:30
Date Received: 02/22/23 16:03

Lab Sample ID: 860-43774-3
Matrix: Water

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			02/28/23 11:58	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/28/23 11:58	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/28/23 11:58	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/28/23 11:58	1
Total Dissolved Solids (SM 2540C)	8400		100	100	mg/L			02/27/23 12:00	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	1.39		0.526	0.541	1.00	0.656	pCi/L	03/06/23 09:54	03/14/23 11:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.8		30 - 110					03/06/23 09:54	03/14/23 11:56	1
Y Carrier	84.1		30 - 110					03/06/23 09:54	03/14/23 11:56	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	0.590		1.00	0.340	pCi/L	03/21/23 13:59	04/03/23 11:20	1

Client Sample ID: AP-32
Date Collected: 02/21/23 09:55
Date Received: 02/22/23 16:03

Lab Sample ID: 860-43774-4
Matrix: Water

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2620	B	5.00	2.00	mg/L			03/07/23 01:13	10
Fluoride	1.18	J	5.00	1.00	mg/L			03/07/23 01:13	10

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	3430	B	50.0	10.9	mg/L			03/07/23 01:24	100

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0564		0.00500	0.00141	mg/L		03/23/23 10:55	05/26/23 11:00	5
Boron	22.2	^+ ^2	0.800	0.601	mg/L		03/23/23 10:55	06/09/23 20:02	10
Barium	0.0177	J	0.0500	0.0157	mg/L		03/23/23 10:55	05/26/23 11:00	5
Beryllium	0.0559		0.00500	0.00137	mg/L		03/23/23 10:55	05/26/23 11:00	5
Calcium	707		2.50	0.635	mg/L		03/23/23 10:55	05/26/23 11:00	5
Cadmium	0.0810		0.00500	0.00109	mg/L		03/23/23 10:55	05/26/23 11:00	5
Chromium	0.00765	U	0.0100	0.00765	mg/L		03/23/23 10:55	05/26/23 11:00	5
Cobalt	0.600		0.00250	0.00131	mg/L		03/23/23 10:55	05/26/23 11:00	5
Molybdenum	0.00305	U	0.0250	0.00305	mg/L		03/23/23 10:55	05/26/23 11:00	5
Lead	0.00188	U	0.00500	0.00188	mg/L		03/23/23 10:55	05/26/23 11:00	5
Antimony	0.00484	U	0.0100	0.00484	mg/L		03/23/23 10:55	05/26/23 11:00	5
Thallium	0.00423	J	0.00500	0.00236	mg/L		03/23/23 10:55	05/26/23 11:00	5
Selenium	0.0180	J	0.0250	0.00370	mg/L		03/23/23 10:55	05/26/23 11:00	5

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Client Sample Results

Client: GSI Environmental, Inc
Project/Site: Ash Pond

Job ID: 860-43774-1

Client Sample ID: AP-32
Date Collected: 02/21/23 09:55
Date Received: 02/22/23 16:03

Lab Sample ID: 860-43774-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	1.55		0.0250	0.00645	mg/L		03/23/23 10:55	05/26/23 11:00	5

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.79		0.200	0.130	ug/L		03/17/23 12:17	03/20/23 14:48	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			02/28/23 12:04	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/28/23 12:04	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/28/23 12:04	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/28/23 12:04	1
Total Dissolved Solids (SM 2540C)	9500		100	100	mg/L			02/28/23 19:00	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	12.0		1.13	1.57	1.00	0.580	pCi/L	03/06/23 09:54	03/14/23 11:57	1
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>					<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Ba Carrier</i>	83.6		30 - 110					03/06/23 09:54	03/14/23 11:57	1
<i>Y Carrier</i>	81.9		30 - 110					03/06/23 09:54	03/14/23 11:57	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		1.02		1.00	0.410	pCi/L	03/21/23 13:59	04/03/23 11:20	1

Client Sample ID: AP-33
Date Collected: 02/21/23 10:30
Date Received: 02/22/23 16:03

Lab Sample ID: 860-43774-5
Matrix: Water

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4040	B	5.00	2.00	mg/L			03/07/23 02:00	10
Fluoride	5.68		5.00	1.00	mg/L			03/07/23 02:00	10

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	3440	B	50.0	10.9	mg/L			03/07/23 02:12	100

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0937		0.00500	0.00141	mg/L		03/23/23 10:55	05/26/23 11:03	5
Boron	62.0		2.00	1.50	mg/L		03/23/23 10:55	06/26/23 19:48	25
Barium	0.0191	J	0.0500	0.0157	mg/L		03/23/23 10:55	05/26/23 11:03	5
Beryllium	0.287		0.00500	0.00137	mg/L		03/23/23 10:55	05/26/23 11:03	5
Calcium	844		2.50	0.635	mg/L		03/23/23 10:55	05/26/23 11:03	5

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Client Sample Results

Client: GSI Environmental, Inc
Project/Site: Ash Pond

Job ID: 860-43774-1

Client Sample ID: AP-33
Date Collected: 02/21/23 10:30
Date Received: 02/22/23 16:03

Lab Sample ID: 860-43774-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.118		0.00500	0.00109	mg/L		03/23/23 10:55	05/26/23 11:03	5
Chromium	0.00880	J	0.0100	0.00765	mg/L		03/23/23 10:55	05/26/23 11:03	5
Cobalt	1.51		0.00250	0.00131	mg/L		03/23/23 10:55	05/26/23 11:03	5
Molybdenum	0.00305	U	0.0250	0.00305	mg/L		03/23/23 10:55	05/26/23 11:03	5
Lead	0.00188	U	0.00500	0.00188	mg/L		03/23/23 10:55	05/26/23 11:03	5
Antimony	0.00484	U	0.0100	0.00484	mg/L		03/23/23 10:55	05/26/23 11:03	5
Thallium	0.00564		0.00500	0.00236	mg/L		03/23/23 10:55	05/26/23 11:03	5
Selenium	0.0270		0.0250	0.00370	mg/L		03/23/23 10:55	05/26/23 11:03	5
Lithium	1.18		0.0250	0.00645	mg/L		03/23/23 10:55	05/26/23 11:03	5

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	3.84		0.200	0.130	ug/L		03/17/23 12:17	03/20/23 14:49	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			02/28/23 12:09	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/28/23 12:09	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/28/23 12:09	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/28/23 12:09	1
Total Dissolved Solids (SM 2540C)	11600		100	100	mg/L			02/27/23 12:00	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	7.96		1.03	1.27	1.00	0.666	pCi/L	03/06/23 09:54	03/14/23 11:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.2		30 - 110					03/06/23 09:54	03/14/23 11:57	1
Y Carrier	83.0		30 - 110					03/06/23 09:54	03/14/23 11:57	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	1.04		0.950		1.00	0.340	pCi/L	03/21/23 13:59	04/03/23 11:20	1

Client Sample ID: AP-34
Date Collected: 02/21/23 11:30
Date Received: 02/22/23 16:03

Lab Sample ID: 860-43774-6
Matrix: Water

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	1.98		0.500	0.100	mg/L			03/02/23 02:42	1

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2750		5.00	2.00	mg/L			03/02/23 02:54	10

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Client Sample Results

Client: GSI Environmental, Inc
Project/Site: Ash Pond

Job ID: 860-43774-1

Client Sample ID: AP-34
Date Collected: 02/21/23 11:30
Date Received: 02/22/23 16:03

Lab Sample ID: 860-43774-6
Matrix: Water

Method: EPA 300.0 - Anions, Ion Chromatography - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	3520		50.0	10.9	mg/L			03/04/23 00:29	100

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0611		0.00500	0.00141	mg/L		03/23/23 10:55	05/26/23 11:32	5
Boron	24.1		4.00	3.01	mg/L		03/23/23 10:55	06/26/23 19:51	50
Barium	0.0157	U	0.0500	0.0157	mg/L		03/23/23 10:55	05/26/23 11:32	5
Beryllium	0.270		0.00500	0.00137	mg/L		03/23/23 10:55	05/26/23 11:32	5
Calcium	706		2.50	0.635	mg/L		03/23/23 10:55	05/26/23 11:32	5
Cadmium	0.0232		0.00500	0.00109	mg/L		03/23/23 10:55	05/26/23 11:32	5
Chromium	0.00765	U	0.0100	0.00765	mg/L		03/23/23 10:55	05/26/23 11:32	5
Cobalt	1.21		0.00250	0.00131	mg/L		03/23/23 10:55	05/26/23 11:32	5
Molybdenum	0.00305	U	0.0250	0.00305	mg/L		03/23/23 10:55	05/26/23 11:32	5
Lead	0.00188	U	0.00500	0.00188	mg/L		03/23/23 10:55	05/26/23 11:32	5
Antimony	0.00484	U	0.0100	0.00484	mg/L		03/23/23 10:55	05/26/23 11:32	5
Thallium	0.00236	U	0.00500	0.00236	mg/L		03/23/23 10:55	05/26/23 11:32	5
Selenium	0.0159	J	0.0250	0.00370	mg/L		03/23/23 10:55	05/26/23 11:32	5
Lithium	1.30		0.0250	0.00645	mg/L		03/23/23 10:55	05/26/23 11:32	5

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	2.21		0.200	0.130	ug/L		03/17/23 12:17	03/20/23 14:50	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			02/28/23 12:15	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/28/23 12:15	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/28/23 12:15	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/28/23 12:15	1
Total Dissolved Solids (SM 2540C)	9420		100	100	mg/L			02/27/23 12:00	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	4.26		0.813	0.902	1.00	0.730	pCi/L	03/06/23 09:54	03/14/23 11:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.1		30 - 110					03/06/23 09:54	03/14/23 11:59	1
Y Carrier	83.0		30 - 110					03/06/23 09:54	03/14/23 11:59	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	0.460		0.980		1.00	0.360	pCi/L	03/21/23 13:59	04/03/23 11:20	1

Client Sample Results

Client: GSI Environmental, Inc
Project/Site: Ash Pond

Job ID: 860-43774-1

Client Sample ID: AP-35
Date Collected: 02/21/23 10:35
Date Received: 02/22/23 16:03

Lab Sample ID: 860-43774-7
Matrix: Water

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	1.11		0.500	0.100	mg/L			03/02/23 03:06	1

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2120		5.00	2.00	mg/L			03/02/23 03:18	10

Method: EPA 300.0 - Anions, Ion Chromatography - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	2810		50.0	10.9	mg/L			03/04/23 00:41	100

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0133		0.00500	0.00141	mg/L		03/23/23 10:55	05/26/23 11:35	5
Boron	45.2		4.00	3.01	mg/L		03/23/23 10:55	06/26/23 19:54	50
Barium	0.0182	J	0.0500	0.0157	mg/L		03/23/23 10:55	05/26/23 11:35	5
Beryllium	0.0789		0.00500	0.00137	mg/L		03/23/23 10:55	05/26/23 11:35	5
Calcium	704		2.50	0.635	mg/L		03/23/23 10:55	05/26/23 11:35	5
Cadmium	0.0225		0.00500	0.00109	mg/L		03/23/23 10:55	05/26/23 11:35	5
Chromium	0.00765	U	0.0100	0.00765	mg/L		03/23/23 10:55	05/26/23 11:35	5
Cobalt	0.162		0.00250	0.00131	mg/L		03/23/23 10:55	05/26/23 11:35	5
Molybdenum	0.00305	U	0.0250	0.00305	mg/L		03/23/23 10:55	05/26/23 11:35	5
Lead	0.00548		0.00500	0.00188	mg/L		03/23/23 10:55	05/26/23 11:35	5
Antimony	0.00484	U	0.0100	0.00484	mg/L		03/23/23 10:55	05/26/23 11:35	5
Thallium	0.00732		0.00500	0.00236	mg/L		03/23/23 10:55	05/26/23 11:35	5
Selenium	0.00968	J	0.0250	0.00370	mg/L		03/23/23 10:55	05/26/23 11:35	5
Lithium	1.04		0.0250	0.00645	mg/L		03/23/23 10:55	05/26/23 11:35	5

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.13		0.200	0.130	ug/L		03/17/23 12:17	03/20/23 14:54	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			02/28/23 12:20	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/28/23 12:20	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/28/23 12:20	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/28/23 12:20	1
Total Dissolved Solids (SM 2540C)	8010		100	100	mg/L			02/27/23 12:00	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	24.6		1.46	2.70	1.00	0.491	pCi/L	03/06/23 09:54	03/14/23 11:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.2		30 - 110					03/06/23 09:54	03/14/23 11:59	1
Y Carrier	81.9		30 - 110					03/06/23 09:54	03/14/23 11:59	1

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Client Sample Results

Client: GSI Environmental, Inc
Project/Site: Ash Pond

Job ID: 860-43774-1

Client Sample ID: AP-35
Date Collected: 02/21/23 10:35
Date Received: 02/22/23 16:03

Lab Sample ID: 860-43774-7
Matrix: Water

Method: SM7500 Ra B - Radium-226

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra-226	3.18		1.19		1.00	0.260	pCi/L	03/21/23 13:55	04/03/23 09:37	1

Client Sample ID: AP-36
Date Collected: 02/21/23 09:55
Date Received: 02/22/23 16:03

Lab Sample ID: 860-43774-8
Matrix: Water

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.324	J	0.500	0.100	mg/L			03/02/23 03:30	1

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1540		5.00	2.00	mg/L			03/02/23 03:42	10

Method: EPA 300.0 - Anions, Ion Chromatography - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	2910		50.0	10.9	mg/L			03/04/23 00:54	100

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00585		0.00500	0.00141	mg/L		03/23/23 10:55	05/26/23 11:53	5
Boron	2.23		0.160	0.120	mg/L		03/23/23 10:55	06/26/23 19:57	2
Barium	0.0190	J	0.0500	0.0157	mg/L		03/23/23 10:55	05/26/23 11:53	5
Beryllium	0.00992		0.00500	0.00137	mg/L		03/23/23 10:55	05/26/23 11:53	5
Calcium	656		2.50	0.635	mg/L		03/23/23 10:55	05/26/23 11:53	5
Cadmium	0.00109	U	0.00500	0.00109	mg/L		03/23/23 10:55	05/26/23 11:53	5
Chromium	0.00765	U	0.0100	0.00765	mg/L		03/23/23 10:55	05/26/23 11:53	5
Cobalt	0.0647		0.00250	0.00131	mg/L		03/23/23 10:55	05/26/23 11:53	5
Molybdenum	0.00305	U	0.0250	0.00305	mg/L		03/23/23 10:55	05/26/23 11:53	5
Lead	0.00188	U	0.00500	0.00188	mg/L		03/23/23 10:55	05/26/23 11:53	5
Antimony	0.00484	U	0.0100	0.00484	mg/L		03/23/23 10:55	05/26/23 11:53	5
Thallium	0.00236	U	0.00500	0.00236	mg/L		03/23/23 10:55	05/26/23 11:53	5
Selenium	0.00370	U	0.0250	0.00370	mg/L		03/23/23 10:55	05/26/23 11:53	5
Lithium	0.953		0.0250	0.00645	mg/L		03/23/23 10:55	05/26/23 11:53	5

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		03/17/23 12:17	03/20/23 14:55	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			02/28/23 12:41	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/28/23 12:41	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/28/23 12:41	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/28/23 12:41	1
Total Dissolved Solids (SM 2540C)	6620		40.0	40.0	mg/L			02/27/23 12:00	1

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Client Sample Results

Client: GSI Environmental, Inc
Project/Site: Ash Pond

Job ID: 860-43774-1

Client Sample ID: AP-36
Date Collected: 02/21/23 09:55
Date Received: 02/22/23 16:03

Lab Sample ID: 860-43774-8
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	5.03		0.754	0.885	1.00	0.619	pCi/L	03/06/23 09:54	03/14/23 11:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.3		30 - 110					03/06/23 09:54	03/14/23 11:59	1
Y Carrier	85.6		30 - 110					03/06/23 09:54	03/14/23 11:59	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	0.460		0.570		1.00	0.280	pCi/L	03/21/23 13:55	04/03/23 09:37	1

Client Sample ID: MW-03
Date Collected: 02/21/23 09:05
Date Received: 02/22/23 16:03

Lab Sample ID: 860-43774-9
Matrix: Water

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.331	J	0.500	0.100	mg/L			03/02/23 03:53	1

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1750		5.00	2.00	mg/L			03/02/23 04:05	10

Method: EPA 300.0 - Anions, Ion Chromatography - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	4410		50.0	10.9	mg/L			03/04/23 01:06	100

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0286		0.00500	0.00141	mg/L		03/23/23 10:55	05/26/23 11:56	5
Boron	61.3	^+ ^2	2.00	1.50	mg/L		03/23/23 10:55	06/09/23 21:03	25
Barium	0.0157	U	0.0500	0.0157	mg/L		03/23/23 10:55	05/26/23 11:56	5
Beryllium	0.0283		0.00500	0.00137	mg/L		03/23/23 10:55	05/26/23 11:56	5
Calcium	604		2.50	0.635	mg/L		03/23/23 10:55	05/26/23 11:56	5
Cadmium	0.0602		0.00500	0.00109	mg/L		03/23/23 10:55	05/26/23 11:56	5
Chromium	0.00765	U	0.0100	0.00765	mg/L		03/23/23 10:55	05/26/23 11:56	5
Cobalt	0.400		0.00250	0.00131	mg/L		03/23/23 10:55	05/26/23 11:56	5
Molybdenum	0.00305	U	0.0250	0.00305	mg/L		03/23/23 10:55	05/26/23 11:56	5
Lead	0.00188	U	0.00500	0.00188	mg/L		03/23/23 10:55	05/26/23 11:56	5
Antimony	0.00484	U	0.0100	0.00484	mg/L		03/23/23 10:55	05/26/23 11:56	5
Thallium	0.00236	U	0.00500	0.00236	mg/L		03/23/23 10:55	05/26/23 11:56	5
Selenium	0.0113	J	0.0250	0.00370	mg/L		03/23/23 10:55	05/26/23 11:56	5
Lithium	1.87		0.0250	0.00645	mg/L		03/23/23 10:55	05/26/23 11:56	5

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		03/17/23 12:17	03/20/23 14:56	1

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Client Sample Results

Client: GSI Environmental, Inc
Project/Site: Ash Pond

Job ID: 860-43774-1

Client Sample ID: MW-03
Date Collected: 02/21/23 09:05
Date Received: 02/22/23 16:03

Lab Sample ID: 860-43774-9
Matrix: Water

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			02/28/23 12:47	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/28/23 12:47	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/28/23 12:47	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/28/23 12:47	1
Total Dissolved Solids (SM 2540C)	8990		100	100	mg/L			02/27/23 12:00	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	5.08		0.749	0.883	1.00	0.653	pCi/L	03/06/23 09:54	03/14/23 11:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.9		30 - 110					03/06/23 09:54	03/14/23 11:59	1
Y Carrier	88.2		30 - 110					03/06/23 09:54	03/14/23 11:59	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	0.950		0.680		1.00	0.320	pCi/L	03/21/23 13:55	04/03/23 09:37	1

Client Sample ID: PZ-05

Lab Sample ID: 860-43774-10

Date Collected: 02/21/23 12:50

Matrix: Water

Date Received: 02/22/23 16:03

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	1.24		0.500	0.100	mg/L			03/02/23 04:17	1

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2280		5.00	2.00	mg/L			03/02/23 04:29	10
Sulfate	3260		50.0	10.9	mg/L			03/04/23 01:43	100

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0520		0.00500	0.00141	mg/L		03/23/23 10:55	05/26/23 12:14	5
Boron	28.9		4.00	3.01	mg/L		03/23/23 10:55	06/26/23 20:00	50
Barium	0.0157	U	0.0500	0.0157	mg/L		03/23/23 10:55	05/26/23 12:14	5
Beryllium	0.223		0.00500	0.00137	mg/L		03/23/23 10:55	05/26/23 12:14	5
Calcium	677		2.50	0.635	mg/L		03/23/23 10:55	05/26/23 12:14	5
Cadmium	0.0727		0.00500	0.00109	mg/L		03/23/23 10:55	05/26/23 12:14	5
Chromium	0.00765	U	0.0100	0.00765	mg/L		03/23/23 10:55	05/26/23 12:14	5
Cobalt	1.01		0.00250	0.00131	mg/L		03/23/23 10:55	05/26/23 12:14	5
Molybdenum	0.00305	U	0.0250	0.00305	mg/L		03/23/23 10:55	05/26/23 12:14	5
Lead	0.00188	U	0.00500	0.00188	mg/L		03/23/23 10:55	05/26/23 12:14	5
Antimony	0.00484	U	0.0100	0.00484	mg/L		03/23/23 10:55	05/26/23 12:14	5
Thallium	0.00244	J	0.00500	0.00236	mg/L		03/23/23 10:55	05/26/23 12:14	5
Selenium	0.0152	J	0.0250	0.00370	mg/L		03/23/23 10:55	05/26/23 12:14	5

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Client Sample Results

Client: GSI Environmental, Inc
Project/Site: Ash Pond

Job ID: 860-43774-1

Client Sample ID: PZ-05
Date Collected: 02/21/23 12:50
Date Received: 02/22/23 16:03

Lab Sample ID: 860-43774-10
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.966		0.0250	0.00645	mg/L		03/23/23 10:55	05/26/23 12:14	5

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.290		0.200	0.130	ug/L		03/17/23 12:17	03/20/23 14:57	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			02/28/23 12:52	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/28/23 12:52	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/28/23 12:52	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/28/23 12:52	1
Total Dissolved Solids (SM 2540C)	8280		100	100	mg/L			02/27/23 12:00	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	3.12		0.599	0.664	1.00	0.547	pCi/L	03/06/23 09:54	03/14/23 12:01	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.4		30 - 110					03/06/23 09:54	03/14/23 12:01	1
Y Carrier	84.9		30 - 110					03/06/23 09:54	03/14/23 12:01	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	0.620		0.890		1.00	0.480	pCi/L	03/21/23 13:38	04/03/23 09:33	1

Client Sample ID: PZ-06
Date Collected: 02/21/23 09:00
Date Received: 02/22/23 16:03

Lab Sample ID: 860-43774-11
Matrix: Water

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.100	J	0.500	0.100	mg/L			03/02/23 05:05	1

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1910		5.00	2.00	mg/L			03/02/23 05:17	10
Sulfate	3070		50.0	10.9	mg/L			03/04/23 01:56	100

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00141	U	0.00500	0.00141	mg/L		03/23/23 10:55	05/26/23 12:17	5
Boron	4.26	^+ ^2	0.400	0.301	mg/L		03/23/23 10:55	06/09/23 21:50	5
Barium	0.0223	J	0.0500	0.0157	mg/L		03/23/23 10:55	05/26/23 12:17	5
Beryllium	0.00137	U	0.00500	0.00137	mg/L		03/23/23 10:55	05/26/23 12:17	5
Calcium	707		2.50	0.635	mg/L		03/23/23 10:55	05/26/23 12:17	5

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Client Sample Results

Client: GSI Environmental, Inc
Project/Site: Ash Pond

Job ID: 860-43774-1

Client Sample ID: PZ-06
Date Collected: 02/21/23 09:00
Date Received: 02/22/23 16:03

Lab Sample ID: 860-43774-11
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.00109	U	0.00500	0.00109	mg/L		03/23/23 10:55	05/26/23 12:17	5
Chromium	0.00765	U	0.0100	0.00765	mg/L		03/23/23 10:55	05/26/23 12:17	5
Cobalt	0.00131	U	0.00250	0.00131	mg/L		03/23/23 10:55	05/26/23 12:17	5
Molybdenum	0.00305	U	0.0250	0.00305	mg/L		03/23/23 10:55	05/26/23 12:17	5
Lead	0.00188	U	0.00500	0.00188	mg/L		03/23/23 10:55	05/26/23 12:17	5
Antimony	0.00484	U	0.0100	0.00484	mg/L		03/23/23 10:55	05/26/23 12:17	5
Thallium	0.00236	U	0.00500	0.00236	mg/L		03/23/23 10:55	05/26/23 12:17	5
Selenium	0.00370	U	0.0250	0.00370	mg/L		03/23/23 10:55	05/26/23 12:17	5
Lithium	1.06		0.0250	0.00645	mg/L		03/23/23 10:55	05/26/23 12:17	5

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		03/17/23 12:17	03/20/23 14:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	84.1		4.00	4.00	mg/L			02/27/23 14:00	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	84.1		4.00	4.00	mg/L			02/27/23 14:00	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/27/23 14:00	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/27/23 14:00	1
Total Dissolved Solids (SM 2540C)	8440		100	100	mg/L			02/27/23 12:00	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	1.94		0.520	0.549	1.00	0.582	pCi/L	03/06/23 09:54	03/14/23 12:01	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.7		30 - 110					03/06/23 09:54	03/14/23 12:01	1
Y Carrier	81.1		30 - 110					03/06/23 09:54	03/14/23 12:01	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	0.370		0.320		1.00	0.290	pCi/L	03/21/23 13:38	03/28/23 09:46	1

Client Sample ID: EB-01
Date Collected: 02/21/23 09:25
Date Received: 02/22/23 16:03

Lab Sample ID: 860-43774-12
Matrix: Water

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.350	J	0.500	0.200	mg/L			03/02/23 05:29	1
Fluoride	0.100	U	0.500	0.100	mg/L			03/02/23 05:29	1
Sulfate	0.134	J	0.500	0.109	mg/L			03/04/23 02:08	1

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Client Sample Results

Client: GSI Environmental, Inc
Project/Site: Ash Pond

Job ID: 860-43774-1

Client Sample ID: EB-01
Date Collected: 02/21/23 09:25
Date Received: 02/22/23 16:03

Lab Sample ID: 860-43774-12
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00141	U	0.00500	0.00141	mg/L		03/23/23 10:55	05/26/23 12:20	5
Boron	0.0601	U ^+	0.0800	0.0601	mg/L		03/23/23 10:55	06/15/23 13:14	1
Barium	0.0157	U	0.0500	0.0157	mg/L		03/23/23 10:55	05/26/23 12:20	5
Beryllium	0.00137	U	0.00500	0.00137	mg/L		03/23/23 10:55	05/26/23 12:20	5
Calcium	0.635	U	2.50	0.635	mg/L		03/23/23 10:55	05/26/23 12:20	5
Cadmium	0.00109	U	0.00500	0.00109	mg/L		03/23/23 10:55	05/26/23 12:20	5
Chromium	0.00765	U	0.0100	0.00765	mg/L		03/23/23 10:55	05/26/23 12:20	5
Cobalt	0.00131	U	0.00250	0.00131	mg/L		03/23/23 10:55	05/26/23 12:20	5
Molybdenum	0.00305	U	0.0250	0.00305	mg/L		03/23/23 10:55	05/26/23 12:20	5
Lead	0.00188	U	0.00500	0.00188	mg/L		03/23/23 10:55	05/26/23 12:20	5
Antimony	0.00484	U	0.0100	0.00484	mg/L		03/23/23 10:55	05/26/23 12:20	5
Thallium	0.00236	U	0.00500	0.00236	mg/L		03/23/23 10:55	05/26/23 12:20	5
Selenium	0.00370	U	0.0250	0.00370	mg/L		03/23/23 10:55	05/26/23 12:20	5
Lithium	0.00645	U	0.0250	0.00645	mg/L		03/23/23 10:55	05/26/23 12:20	5

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		03/17/23 12:17	03/20/23 14:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	5.00	U	5.00	5.00	mg/L			02/27/23 12:00	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	-0.255	U	0.292	0.293	1.00	0.602	pCi/L	03/06/23 09:54	03/14/23 12:01	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.4		30 - 110					03/06/23 09:54	03/14/23 12:01	1
Y Carrier	89.7		30 - 110					03/06/23 09:54	03/14/23 12:01	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	0.370		1.00	0.430	pCi/L	03/21/23 13:59	03/27/23 09:14	1

Client Sample ID: DUP-02
Date Collected: 02/21/23 12:00
Date Received: 02/22/23 16:03

Lab Sample ID: 860-43774-13
Matrix: Water

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.775		0.500	0.100	mg/L			03/02/23 05:41	1

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1740		5.00	2.00	mg/L			03/02/23 05:53	10

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Client Sample Results

Client: GSI Environmental, Inc
Project/Site: Ash Pond

Job ID: 860-43774-1

Client Sample ID: DUP-02
Date Collected: 02/21/23 12:00
Date Received: 02/22/23 16:03

Lab Sample ID: 860-43774-13
Matrix: Water

Method: EPA 300.0 - Anions, Ion Chromatography - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	4380		50.0	10.9	mg/L			03/04/23 02:20	100

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0256		0.00500	0.00141	mg/L		03/23/23 10:55	05/26/23 13:05	5
Boron	14.2	^+ ^2	0.800	0.601	mg/L		03/23/23 10:55	06/09/23 21:55	10
Barium	0.0157	U	0.0500	0.0157	mg/L		03/23/23 10:55	05/26/23 13:05	5
Beryllium	0.0258		0.00500	0.00137	mg/L		03/23/23 10:55	05/26/23 13:05	5
Calcium	552		2.50	0.635	mg/L		03/23/23 10:55	05/26/23 13:05	5
Cadmium	0.0555		0.00500	0.00109	mg/L		03/23/23 10:55	05/26/23 13:05	5
Chromium	0.0116		0.0100	0.00765	mg/L		03/23/23 10:55	05/26/23 13:05	5
Cobalt	0.357		0.00250	0.00131	mg/L		03/23/23 10:55	05/26/23 13:05	5
Molybdenum	0.00305	U	0.0250	0.00305	mg/L		03/23/23 10:55	05/26/23 13:05	5
Lead	0.00188	U	0.00500	0.00188	mg/L		03/23/23 10:55	05/26/23 13:05	5
Antimony	0.00484	U	0.0100	0.00484	mg/L		03/23/23 10:55	05/26/23 13:05	5
Thallium	0.00236	U	0.00500	0.00236	mg/L		03/23/23 10:55	05/26/23 13:05	5
Selenium	0.00969	J	0.0250	0.00370	mg/L		03/23/23 10:55	05/26/23 13:05	5
Lithium	1.69		0.0250	0.00645	mg/L		03/23/23 10:55	05/26/23 13:05	5

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		03/17/23 12:17	03/20/23 15:00	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			02/28/23 12:57	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/28/23 12:57	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/28/23 12:57	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			02/28/23 12:57	1
Total Dissolved Solids (SM 2540C)	8990		100	100	mg/L			02/27/23 12:00	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	4.68		0.682	0.807	1.00	0.504	pCi/L	03/06/23 09:54	03/14/23 12:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.5		30 - 110					03/06/23 09:54	03/14/23 12:02	1
Y Carrier	85.6		30 - 110					03/06/23 09:54	03/14/23 12:02	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	0.540		0.700		1.00	0.350	pCi/L	03/21/23 13:59	04/03/23 11:20	1

Client Sample Results

Client: GSI Environmental, Inc
Project/Site: Ash Pond

Job ID: 860-43774-1

Client Sample ID: FB-02
Date Collected: 02/21/23 13:05
Date Received: 02/22/23 16:03

Lab Sample ID: 860-43774-14
Matrix: Water

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.354	J	0.500	0.200	mg/L			03/02/23 06:05	1
Fluoride	0.100	U	0.500	0.100	mg/L			03/02/23 06:05	1
Sulfate	0.147	J	0.500	0.109	mg/L			03/04/23 02:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00141	U	0.00500	0.00141	mg/L		03/23/23 10:55	05/26/23 13:24	5
Boron	0.0601	U ^+	0.0800	0.0601	mg/L		03/23/23 10:55	06/15/23 13:17	1
Barium	0.0157	U	0.0500	0.0157	mg/L		03/23/23 10:55	05/26/23 13:24	5
Beryllium	0.00137	U	0.00500	0.00137	mg/L		03/23/23 10:55	05/26/23 13:24	5
Calcium	0.635	U	2.50	0.635	mg/L		03/23/23 10:55	05/26/23 13:24	5
Cadmium	0.00109	U	0.00500	0.00109	mg/L		03/23/23 10:55	05/26/23 13:24	5
Chromium	0.00765	U	0.0100	0.00765	mg/L		03/23/23 10:55	05/26/23 13:24	5
Cobalt	0.00131	U	0.00250	0.00131	mg/L		03/23/23 10:55	05/26/23 13:24	5
Molybdenum	0.00305	U	0.0250	0.00305	mg/L		03/23/23 10:55	05/26/23 13:24	5
Lead	0.00188	U	0.00500	0.00188	mg/L		03/23/23 10:55	05/26/23 13:24	5
Antimony	0.00484	U	0.0100	0.00484	mg/L		03/23/23 10:55	05/26/23 13:24	5
Thallium	0.00236	U	0.00500	0.00236	mg/L		03/23/23 10:55	05/26/23 13:24	5
Selenium	0.00370	U	0.0250	0.00370	mg/L		03/23/23 10:55	05/26/23 13:24	5
Lithium	0.00645	U	0.0250	0.00645	mg/L		03/23/23 10:55	05/26/23 13:24	5

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		03/17/23 12:17	03/20/23 15:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	5.00	U	5.00	5.00	mg/L			02/27/23 12:00	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	0.249	U	0.343	0.344	1.00	0.575	pCi/L	03/06/23 09:54	03/14/23 12:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.6		30 - 110					03/06/23 09:54	03/14/23 12:02	1
Y Carrier	87.9		30 - 110					03/06/23 09:54	03/14/23 12:02	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	0.280		1.00	0.330	pCi/L	03/21/23 13:55	03/27/23 09:56	1

Tracer/Carrier Summary

Client: GSI Environmental, Inc
 Project/Site: Ash Pond

Job ID: 860-43774-1

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Yield (Acceptance Limits)	
		Ba (30-110)	Y (30-110)
860-43774-1	PZ-02	75.7	84.5
860-43774-2	PZ-03	84.2	83.0
860-43774-2 MS	PZ-03	97.2	83.0
860-43774-2 MSD	PZ-03	94.1	81.1
860-43774-3	AP-31	93.8	84.1
860-43774-4	AP-32	83.6	81.9
860-43774-5	AP-33	91.2	83.0
860-43774-6	AP-34	88.1	83.0
860-43774-7	AP-35	95.2	81.9
860-43774-8	AP-36	87.3	85.6
860-43774-9	MW-03	87.9	88.2
860-43774-10	PZ-05	88.4	84.9
860-43774-11	PZ-06	90.7	81.1
860-43774-12	EB-01	86.4	89.7
860-43774-13	DUP-02	93.5	85.6
860-43774-14	FB-02	87.6	87.9
LCS 160-602361/2-A	Lab Control Sample	90.7	84.9
MB 160-602361/1-A	Method Blank	88.1	82.2

Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier



QC Sample Results

Client: GSI Environmental, Inc
Project/Site: Ash Pond

Job ID: 860-43774-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-92315/3
Matrix: Water
Analysis Batch: 92315

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.200	U	0.500	0.200	mg/L			03/01/23 21:14	1
Fluoride	0.100	U	0.500	0.100	mg/L			03/01/23 21:14	1
Sulfate	0.109	U	0.500	0.109	mg/L			03/01/23 21:14	1

Lab Sample ID: LCS 860-92315/4
Matrix: Water
Analysis Batch: 92315

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	9.823		mg/L		98	90 - 110
Fluoride	10.0	10.52		mg/L		105	90 - 110
Sulfate	10.0	9.452		mg/L		95	90 - 110

Lab Sample ID: LCSD 860-92315/5
Matrix: Water
Analysis Batch: 92315

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	9.786		mg/L		98	90 - 110	0	20
Fluoride	10.0	10.52		mg/L		105	90 - 110	0	20
Sulfate	10.0	9.419		mg/L		94	90 - 110	0	20

Lab Sample ID: LLCS 860-92315/7
Matrix: Water
Analysis Batch: 92315

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	0.5931		mg/L		119	50 - 150
Fluoride	0.500	0.5030		mg/L		101	50 - 150
Sulfate	0.500	0.5898		mg/L		118	50 - 150

Lab Sample ID: 860-43774-2 MS
Matrix: Water
Analysis Batch: 92315

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	5.09	F1	25.0	112.7	F1	mg/L		430	90 - 110

Lab Sample ID: 860-43774-2 MSD
Matrix: Water
Analysis Batch: 92315

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	5.09	F1	25.0	112.8	F1	mg/L		431	90 - 110	0	20

QC Sample Results

Client: GSI Environmental, Inc
Project/Site: Ash Pond

Job ID: 860-43774-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 860-92611/3
Matrix: Water
Analysis Batch: 92611

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	0.200	U	0.500	0.200	mg/L			03/03/23 13:55	1
Fluoride	0.100	U	0.500	0.100	mg/L			03/03/23 13:55	1
Sulfate	0.109	U	0.500	0.109	mg/L			03/03/23 13:55	1

Lab Sample ID: MB 860-92611/40
Matrix: Water
Analysis Batch: 92611

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	0.200	U	0.500	0.200	mg/L			03/03/23 23:15	1
Fluoride	0.100	U	0.500	0.100	mg/L			03/03/23 23:15	1
Sulfate	0.109	U	0.500	0.109	mg/L			03/03/23 23:15	1

Lab Sample ID: LCS 860-92611/4
Matrix: Water
Analysis Batch: 92611

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	10.0	10.48		mg/L		105	90 - 110
Sulfate	10.0	10.17		mg/L		102	90 - 110

Lab Sample ID: LCS 860-92611/41
Matrix: Water
Analysis Batch: 92611

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	10.0	10.52		mg/L		105	90 - 110
Sulfate	10.0	10.19		mg/L		102	90 - 110

Lab Sample ID: LCSD 860-92611/42
Matrix: Water
Analysis Batch: 92611

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
Fluoride	10.0	10.57		mg/L		106	90 - 110	1	20
Sulfate	10.0	10.24		mg/L		102	90 - 110	0	20

Lab Sample ID: LCSD 860-92611/5
Matrix: Water
Analysis Batch: 92611

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
Fluoride	10.0	10.56		mg/L		106	90 - 110	1	20
Sulfate	10.0	10.20		mg/L		102	90 - 110	0	20

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QC Sample Results

Client: GSI Environmental, Inc
Project/Site: Ash Pond

Job ID: 860-43774-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LLCS 860-92611/7
Matrix: Water
Analysis Batch: 92611

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	0.5423		mg/L		108	50 - 150
Fluoride	0.500	0.4883	J	mg/L		98	50 - 150
Sulfate	0.500	0.5066		mg/L		101	50 - 150

Lab Sample ID: 860-43774-2 MS
Matrix: Water
Analysis Batch: 92611

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	5470		1000	6287	4	mg/L		82	90 - 110
Sulfate	3940	F1	1000	4836	F1	mg/L		89	90 - 110

Lab Sample ID: 860-43774-2 MSD
Matrix: Water
Analysis Batch: 92611

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	5470		1000	6263	4	mg/L		79	90 - 110	0	20
Sulfate	3940	F1	1000	4829	F1	mg/L		88	90 - 110	0	20

Lab Sample ID: MB 860-92843/3
Matrix: Water
Analysis Batch: 92843

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.2010	J	0.500	0.200	mg/L			03/06/23 23:49	1
Fluoride	0.100	U	0.500	0.100	mg/L			03/06/23 23:49	1
Sulfate	0.2619	J	0.500	0.109	mg/L			03/06/23 23:49	1

Lab Sample ID: LCS 860-92843/4
Matrix: Water
Analysis Batch: 92843

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	9.750		mg/L		97	90 - 110
Fluoride	10.0	10.17		mg/L		102	90 - 110
Sulfate	10.0	9.433		mg/L		94	90 - 110

Lab Sample ID: LCSD 860-92843/5
Matrix: Water
Analysis Batch: 92843

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	9.889		mg/L		99	90 - 110	1	20
Fluoride	10.0	10.28		mg/L		103	90 - 110	1	20
Sulfate	10.0	9.539		mg/L		95	90 - 110	1	20

QC Sample Results

Client: GSI Environmental, Inc
Project/Site: Ash Pond

Job ID: 860-43774-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LLCS 860-92843/7
Matrix: Water
Analysis Batch: 92843

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	0.5461		mg/L		109	50 - 150
Fluoride	0.500	0.4356	J	mg/L		87	50 - 150
Sulfate	0.500	0.5332		mg/L		107	50 - 150

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

Lab Sample ID: MB 180-430163/1-A
Matrix: Water
Analysis Batch: 436424

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 430163

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.000282	U	0.00100	0.000282	mg/L		03/23/23 10:55	05/26/23 10:12	1
Barium	0.00314	U	0.0100	0.00314	mg/L		03/23/23 10:55	05/26/23 10:12	1
Beryllium	0.000274	U	0.00100	0.000274	mg/L		03/23/23 10:55	05/26/23 10:12	1
Calcium	0.127	U	0.500	0.127	mg/L		03/23/23 10:55	05/26/23 10:12	1
Cadmium	0.000217	U	0.00100	0.000217	mg/L		03/23/23 10:55	05/26/23 10:12	1
Chromium	0.00153	U	0.00200	0.00153	mg/L		03/23/23 10:55	05/26/23 10:12	1
Cobalt	0.000261	U	0.000500	0.000261	mg/L		03/23/23 10:55	05/26/23 10:12	1
Molybdenum	0.000610	U	0.00500	0.000610	mg/L		03/23/23 10:55	05/26/23 10:12	1
Lead	0.000376	U	0.00100	0.000376	mg/L		03/23/23 10:55	05/26/23 10:12	1
Antimony	0.000967	U	0.00200	0.000967	mg/L		03/23/23 10:55	05/26/23 10:12	1
Thallium	0.000472	U	0.00100	0.000472	mg/L		03/23/23 10:55	05/26/23 10:12	1
Selenium	0.000739	U	0.00500	0.000739	mg/L		03/23/23 10:55	05/26/23 10:12	1
Lithium	0.00129	U	0.00500	0.00129	mg/L		03/23/23 10:55	05/26/23 10:12	1

Lab Sample ID: MB 180-430163/1-A
Matrix: Water
Analysis Batch: 437655

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 430163

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.0601	U ^+	0.0800	0.0601	mg/L		03/23/23 10:55	06/09/23 19:31	1

Lab Sample ID: LCS 180-430163/2-A
Matrix: Water
Analysis Batch: 436424

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 430163

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	1.00	0.9567		mg/L		96	80 - 120
Barium	1.00	0.9785		mg/L		98	80 - 120
Beryllium	0.500	0.4821		mg/L		96	80 - 120
Calcium	25.0	25.77		mg/L		103	80 - 120
Cadmium	0.500	0.4968		mg/L		99	80 - 120
Chromium	0.500	0.4879		mg/L		98	80 - 120
Cobalt	0.500	0.4774		mg/L		95	80 - 120
Molybdenum	0.500	0.5122		mg/L		102	80 - 120
Lead	0.500	0.4948		mg/L		99	80 - 120
Antimony	0.250	0.2646		mg/L		106	80 - 120
Thallium	1.00	0.9783		mg/L		98	80 - 120
Selenium	1.00	0.9741		mg/L		97	80 - 120

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QC Sample Results

Client: GSI Environmental, Inc
Project/Site: Ash Pond

Job ID: 860-43774-1

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

Lab Sample ID: LCS 180-430163/2-A
Matrix: Water
Analysis Batch: 436424

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 430163

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.500	0.4605		mg/L		92	80 - 120

Lab Sample ID: LCS 180-430163/2-A
Matrix: Water
Analysis Batch: 437655

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 430163

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.25	1.228	^+	mg/L		98	80 - 120

Lab Sample ID: 860-43774-2 MS
Matrix: Water
Analysis Batch: 436424

Client Sample ID: PZ-03
Prep Type: Total Recoverable
Prep Batch: 430163

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.0821		1.00	1.213		mg/L		113	75 - 125
Barium	0.0210	J	1.00	1.090		mg/L		107	75 - 125
Beryllium	0.257		0.500	0.7796		mg/L		105	75 - 125
Calcium	864		25.0	920.4	4	mg/L		227	75 - 125
Cadmium	0.529		0.500	1.064		mg/L		107	75 - 125
Chromium	0.00765	U	0.500	0.5227		mg/L		105	75 - 125
Cobalt	1.55		0.500	2.179		mg/L		125	75 - 125
Molybdenum	0.00305	U	0.500	0.6078		mg/L		122	75 - 125
Lead	0.00206	J	0.500	0.5357		mg/L		107	75 - 125
Antimony	0.00484	U	0.250	0.2926		mg/L		117	75 - 125
Thallium	0.00952		1.00	1.105		mg/L		110	75 - 125
Selenium	0.0444		1.00	1.063		mg/L		102	75 - 125
Lithium	2.36		0.500	3.034	4	mg/L		135	75 - 125

Lab Sample ID: 860-43774-2 MS
Matrix: Water
Analysis Batch: 437655

Client Sample ID: PZ-03
Prep Type: Total Recoverable
Prep Batch: 430163

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	11.4	^+	1.25	14.06	^+ 4	mg/L		211	75 - 125

Lab Sample ID: 860-43774-2 MSD
Matrix: Water
Analysis Batch: 436424

Client Sample ID: PZ-03
Prep Type: Total Recoverable
Prep Batch: 430163

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	0.0821		1.00	1.170		mg/L		109	75 - 125	4	20
Barium	0.0210	J	1.00	1.097		mg/L		108	75 - 125	1	20
Beryllium	0.257		0.500	0.7578		mg/L		100	75 - 125	3	20
Calcium	864		25.0	855.5	4	mg/L		-33	75 - 125	7	20
Cadmium	0.529		0.500	1.031		mg/L		100	75 - 125	3	20
Chromium	0.00765	U	0.500	0.5093		mg/L		102	75 - 125	3	20
Cobalt	1.55		0.500	2.063		mg/L		102	75 - 125	5	20
Molybdenum	0.00305	U	0.500	0.5925		mg/L		118	75 - 125	3	20
Lead	0.00206	J	0.500	0.5235		mg/L		104	75 - 125	2	20
Antimony	0.00484	U	0.250	0.2956		mg/L		118	75 - 125	1	20

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QC Sample Results

Client: GSI Environmental, Inc
Project/Site: Ash Pond

Job ID: 860-43774-1

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

Lab Sample ID: 860-43774-2 MSD
Matrix: Water
Analysis Batch: 436424

Client Sample ID: PZ-03
Prep Type: Total Recoverable
Prep Batch: 430163

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Thallium	0.00952		1.00	1.071		mg/L		106	75 - 125	3	20
Selenium	0.0444		1.00	1.031		mg/L		99	75 - 125	3	20
Lithium	2.36		0.500	2.879	4	mg/L		104	75 - 125	5	20

Lab Sample ID: 860-43774-2 MSD
Matrix: Water
Analysis Batch: 437655

Client Sample ID: PZ-03
Prep Type: Total Recoverable
Prep Batch: 430163

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	11.4	^+	1.25	13.15	^+ 4	mg/L		138	75 - 125	7	20

Lab Sample ID: MB 180-436716/1-A
Matrix: Water
Analysis Batch: 437655

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 436716

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.000282	U	0.00100	0.000282	mg/L		06/01/23 09:30	06/10/23 05:26	1
Barium	0.00314	U	0.0100	0.00314	mg/L		06/01/23 09:30	06/10/23 05:26	1
Beryllium	0.000274	U	0.00100	0.000274	mg/L		06/01/23 09:30	06/10/23 05:26	1
Calcium	0.127	U	0.500	0.127	mg/L		06/01/23 09:30	06/10/23 05:26	1
Cadmium	0.000217	U	0.00100	0.000217	mg/L		06/01/23 09:30	06/10/23 05:26	1
Chromium	0.00153	U	0.00200	0.00153	mg/L		06/01/23 09:30	06/10/23 05:26	1
Cobalt	0.000261	U	0.000500	0.000261	mg/L		06/01/23 09:30	06/10/23 05:26	1
Molybdenum	0.000610	U	0.00500	0.000610	mg/L		06/01/23 09:30	06/10/23 05:26	1
Lead	0.000376	U	0.00100	0.000376	mg/L		06/01/23 09:30	06/10/23 05:26	1
Antimony	0.000967	U	0.00200	0.000967	mg/L		06/01/23 09:30	06/10/23 05:26	1
Thallium	0.000472	U	0.00100	0.000472	mg/L		06/01/23 09:30	06/10/23 05:26	1
Selenium	0.000739	U	0.00500	0.000739	mg/L		06/01/23 09:30	06/10/23 05:26	1
Lithium	0.00129	U	0.00500	0.00129	mg/L		06/01/23 09:30	06/10/23 05:26	1

Method: EPA 7470A - Mercury (CVAA)

Lab Sample ID: MB 180-429585/1-A
Matrix: Water
Analysis Batch: 429822

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 429585

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.130	U	0.200	0.130	ug/L		03/17/23 12:17	03/20/23 14:41	1

Lab Sample ID: LCS 180-429585/2-A
Matrix: Water
Analysis Batch: 429822

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 429585

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	2.50	2.372		ug/L		95	80 - 120

QC Sample Results

Client: GSI Environmental, Inc
Project/Site: Ash Pond

Job ID: 860-43774-1

Method: EPA 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: 860-43774-2 MS
Matrix: Water
Analysis Batch: 429822

Client Sample ID: PZ-03
Prep Type: Total/NA
Prep Batch: 429585

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.404	F1	1.00	1.130	F1	ug/L		73	75 - 125

Lab Sample ID: 860-43774-2 MSD
Matrix: Water
Analysis Batch: 429822

Client Sample ID: PZ-03
Prep Type: Total/NA
Prep Batch: 429585

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.404	F1	1.00	1.382		ug/L		98	75 - 125	20	20

Lab Sample ID: MB 180-429611/1-A
Matrix: Water
Analysis Batch: 429822

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 429611

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.130	U	0.200	0.130	ug/L		03/20/23 08:40	03/20/23 15:44	1

Lab Sample ID: LCS 180-429611/2-A
Matrix: Water
Analysis Batch: 429822

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 429611

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	2.50	2.312		ug/L		92	80 - 120

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-91900/3
Matrix: Water
Analysis Batch: 91900

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			02/27/23 11:46	1
Bicarbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			02/27/23 11:46	1
Carbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			02/27/23 11:46	1
Hydroxide Alkalinity	4.00	U	4.00	4.00	mg/L			02/27/23 11:46	1

Lab Sample ID: LCS 860-91900/4
Matrix: Water
Analysis Batch: 91900

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	256.3		mg/L		103	85 - 115

Lab Sample ID: LCSD 860-91900/5
Matrix: Water
Analysis Batch: 91900

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	256.6		mg/L		103	85 - 115	0	20

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QC Sample Results

Client: GSI Environmental, Inc
Project/Site: Ash Pond

Job ID: 860-43774-1

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: MB 860-92079/3
Matrix: Water
Analysis Batch: 92079

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Total Alkalinity	4.00	U	4.00	4.00	mg/L			02/28/23 11:25	1
Bicarbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			02/28/23 11:25	1
Carbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			02/28/23 11:25	1
Hydroxide Alkalinity	4.00	U	4.00	4.00	mg/L			02/28/23 11:25	1

Lab Sample ID: LCS 860-92079/4
Matrix: Water
Analysis Batch: 92079

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits

Lab Sample ID: LCSD 860-92079/5
Matrix: Water
Analysis Batch: 92079

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

Lab Sample ID: 860-43774-2 DU
Matrix: Water
Analysis Batch: 92079

Client Sample ID: PZ-03
Prep Type: Total/NA

Analyte	Sample Sample		DU DU		Unit	D	RPD	RPD Limit
	Result	Qualifier	Result	Qualifier				
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 860-91847/1
Matrix: Water
Analysis Batch: 91847

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Total Dissolved Solids	5.00	U	5.00	5.00	mg/L			02/27/23 12:00	1

Lab Sample ID: LCS 860-91847/2
Matrix: Water
Analysis Batch: 91847

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits

QC Sample Results

Client: GSI Environmental, Inc
Project/Site: Ash Pond

Job ID: 860-43774-1

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

Lab Sample ID: LCSD 860-91847/3
Matrix: Water
Analysis Batch: 91847

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	871.0		mg/L		87	80 - 120	1	10

Lab Sample ID: LLCS 860-91847/4
Matrix: Water
Analysis Batch: 91847

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids	5.00	5.00	U	mg/L		80	50 - 150		

Lab Sample ID: 860-43774-13 DU
Matrix: Water
Analysis Batch: 91847

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	8990		9110		mg/L		1	10

Lab Sample ID: MB 860-92157/1
Matrix: Water
Analysis Batch: 92157

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			02/28/23 19:00	1

Lab Sample ID: LCS 860-92157/2
Matrix: Water
Analysis Batch: 92157

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids	1000	1011		mg/L		101	80 - 120		

Lab Sample ID: LCSD 860-92157/3
Matrix: Water
Analysis Batch: 92157

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	1015		mg/L		102	80 - 120	0	10

Lab Sample ID: LLCS 860-92157/4
Matrix: Water
Analysis Batch: 92157

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids	5.00	5.00	U	mg/L		60	50 - 150		

QC Sample Results

Client: GSI Environmental, Inc
Project/Site: Ash Pond

Job ID: 860-43774-1

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-602361/1-A
Matrix: Water
Analysis Batch: 603598

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 602361

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.2821	U	0.308	0.309	1.00	0.500	pCi/L	03/06/23 09:54	03/14/23 11:54	1
Carrier	MB MB		Limits		Prepared	Analyzed	Dil Fac			
	%Yield	Qualifier								
Ba Carrier	88.1		30 - 110		03/06/23 09:54	03/14/23 11:54	1			
Y Carrier	82.2		30 - 110		03/06/23 09:54	03/14/23 11:54	1			

Lab Sample ID: LCS 160-602361/2-A
Matrix: Water
Analysis Batch: 603598

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 602361

Analyte	Spike Added	LCS LCS		Total	RL	MDC	Unit	%Rec	%Rec Limits
		Result	Qual	Uncert. (2σ+/-)					
Radium-228	8.12	10.03		1.33	1.00	0.460	pCi/L	124	75 - 125
Carrier	LCS LCS		Limits		Prepared	Analyzed	Dil Fac		
	%Yield	Qualifier							
Ba Carrier	90.7		30 - 110						
Y Carrier	84.9		30 - 110						

Lab Sample ID: 860-43774-2 MS
Matrix: Water
Analysis Batch: 603598

Client Sample ID: PZ-03
Prep Type: Total/NA
Prep Batch: 602361

Analyte	Sample Sample		Spike	MS MS	Total	RL	MDC	Unit	%Rec	%Rec Limits
	Result	Qual	Added	Result	Qual					
Radium-228	4.67		10.8	15.90		1.00	0.590	pCi/L	104	60 - 140
Carrier	MS MS		Limits		Prepared	Analyzed	Dil Fac			
	%Yield	Qualifier								
Ba Carrier	97.2		30 - 110							
Y Carrier	83.0		30 - 110							

Lab Sample ID: 860-43774-2 MSD
Matrix: Water
Analysis Batch: 603598

Client Sample ID: PZ-03
Prep Type: Total/NA
Prep Batch: 602361

Analyte	Sample Sample		Spike	MSD MSD	Total	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
	Result	Qual	Added	Result	Qual							
Radium-228	4.67		10.7	15.22		1.00	0.736	pCi/L	99	60 - 140	0.17	1
Carrier	MSD MSD		Limits		Prepared	Analyzed	Dil Fac					
	%Yield	Qualifier										
Ba Carrier	94.1		30 - 110									
Y Carrier	81.1		30 - 110									

QC Sample Results

Client: GSI Environmental, Inc
Project/Site: Ash Pond

Job ID: 860-43774-1

Method: SM7500 Ra B - Radium-226

Lab Sample ID: MB 810-52408/1-A
Matrix: Water
Analysis Batch: 53334

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 52408

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared		Analyzed		Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)				13:38	09:46			
Ra-226	0.1800	U	0.400		1.00	0.500	pCi/L	03/21/23	13:38	03/28/23	09:46	1

Lab Sample ID: LCS 810-52408/2-A
Matrix: Water
Analysis Batch: 53334

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 52408

Analyte	Spike Added	LCS	LCS	Total	RL	MDC	Unit	%Rec	%Rec	
		Result	Qual	Uncert. (2σ+/-)					Limits	
Ra-226	5.03	5.040			1.00	0.480	pCi/L	100	90 - 110	

Lab Sample ID: MB 810-52414/1-A
Matrix: Water
Analysis Batch: 53554

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 52414

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared		Analyzed		Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)				13:55	09:56			
Ra-226	0.3700		0.300		1.00	0.280	pCi/L	03/21/23	13:55	03/27/23	09:56	1

Lab Sample ID: LCS 810-52414/2-A
Matrix: Water
Analysis Batch: 53554

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 52414

Analyte	Spike Added	LCS	LCS	Total	RL	MDC	Unit	%Rec	%Rec	
		Result	Qual	Uncert. (2σ+/-)					Limits	
Ra-226	5.03	4.560			1.00	0.410	pCi/L	91	90 - 110	

Lab Sample ID: 860-43774-2 MS
Matrix: Water
Analysis Batch: 53554

Client Sample ID: PZ-03
Prep Type: Total/NA
Prep Batch: 52414

Analyte	Sample	Sample	Spike Added	MS	MS	Total	RL	MDC	Unit	%Rec	%Rec	
	Result	Qual		Result	Qual	Uncert. (2σ+/-)					Limits	
Ra-226	0.680		5.58	6.380			1.00	0.150	pCi/L	114	80 - 120	

Lab Sample ID: 860-43774-2 MSD
Matrix: Water
Analysis Batch: 53554

Client Sample ID: PZ-03
Prep Type: Total/NA
Prep Batch: 52414

Analyte	Sample	Sample	Spike Added	MSD	MSD	Total	RL	MDC	Unit	%Rec	%Rec		RER	Limit
	Result	Qual		Result	Qual	Uncert. (2σ+/-)					Limits	0.49		
Ra-226	0.680		5.58	5.560			1.00	0.190	pCi/L	100	80 - 120	0.49		

Lab Sample ID: MB 810-52416/1-A
Matrix: Water
Analysis Batch: 53049

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 52416

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared		Analyzed		Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)				13:59	09:14			
Ra-226	0.2400	U	0.260		1.00	0.270	pCi/L	03/21/23	13:59	03/27/23	09:14	1

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QC Sample Results

Client: GSI Environmental, Inc
Project/Site: Ash Pond

Job ID: 860-43774-1

Method: SM7500 Ra B - Radium-226

Lab Sample ID: LCS 810-52416/2-A
Matrix: Water
Analysis Batch: 53049

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 52416

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Ra-226	5.03	5.480			1.00	0.300	pCi/L	109	90 - 110

- 1
- 2
- 3
- 4
- 5
- 6
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- 8
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- 10
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- 13
- 14
- 15

QC Association Summary

Client: GSI Environmental, Inc
Project/Site: Ash Pond

Job ID: 860-43774-1

HPLC/IC

Analysis Batch: 92315

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-43774-1	PZ-02	Total/NA	Water	300.0	
860-43774-2	PZ-03	Total/NA	Water	300.0	
860-43774-3	AP-31	Total/NA	Water	300.0	
860-43774-3 - DL	AP-31	Total/NA	Water	300.0	
860-43774-6	AP-34	Total/NA	Water	300.0	
860-43774-6 - DL	AP-34	Total/NA	Water	300.0	
860-43774-7	AP-35	Total/NA	Water	300.0	
860-43774-7 - DL	AP-35	Total/NA	Water	300.0	
860-43774-8	AP-36	Total/NA	Water	300.0	
860-43774-8 - DL	AP-36	Total/NA	Water	300.0	
860-43774-9	MW-03	Total/NA	Water	300.0	
860-43774-9 - DL	MW-03	Total/NA	Water	300.0	
860-43774-10	PZ-05	Total/NA	Water	300.0	
860-43774-10 - DL	PZ-05	Total/NA	Water	300.0	
860-43774-11	PZ-06	Total/NA	Water	300.0	
860-43774-11 - DL	PZ-06	Total/NA	Water	300.0	
860-43774-12	EB-01	Total/NA	Water	300.0	
860-43774-13	DUP-02	Total/NA	Water	300.0	
860-43774-13 - DL	DUP-02	Total/NA	Water	300.0	
860-43774-14	FB-02	Total/NA	Water	300.0	
MB 860-92315/3	Method Blank	Total/NA	Water	300.0	
LCS 860-92315/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-92315/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-92315/7	Lab Control Sample	Total/NA	Water	300.0	
860-43774-2 MS	PZ-03	Total/NA	Water	300.0	
860-43774-2 MSD	PZ-03	Total/NA	Water	300.0	

Analysis Batch: 92611

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-43774-1 - DL	PZ-02	Total/NA	Water	300.0	
860-43774-2 - DL	PZ-03	Total/NA	Water	300.0	
860-43774-3 - DL2	AP-31	Total/NA	Water	300.0	
860-43774-6 - DL2	AP-34	Total/NA	Water	300.0	
860-43774-7 - DL2	AP-35	Total/NA	Water	300.0	
860-43774-8 - DL2	AP-36	Total/NA	Water	300.0	
860-43774-9 - DL2	MW-03	Total/NA	Water	300.0	
860-43774-10 - DL	PZ-05	Total/NA	Water	300.0	
860-43774-11 - DL	PZ-06	Total/NA	Water	300.0	
860-43774-12	EB-01	Total/NA	Water	300.0	
860-43774-13 - DL2	DUP-02	Total/NA	Water	300.0	
860-43774-14	FB-02	Total/NA	Water	300.0	
MB 860-92611/3	Method Blank	Total/NA	Water	300.0	
MB 860-92611/40	Method Blank	Total/NA	Water	300.0	
LCS 860-92611/4	Lab Control Sample	Total/NA	Water	300.0	
LCS 860-92611/41	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-92611/42	Lab Control Sample Dup	Total/NA	Water	300.0	
LCSD 860-92611/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-92611/7	Lab Control Sample	Total/NA	Water	300.0	
860-43774-2 MS	PZ-03	Total/NA	Water	300.0	
860-43774-2 MSD	PZ-03	Total/NA	Water	300.0	

QC Association Summary

Client: GSI Environmental, Inc
Project/Site: Ash Pond

Job ID: 860-43774-1

HPLC/IC

Analysis Batch: 92843

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-43774-4	AP-32	Total/NA	Water	300.0	
860-43774-4 - DL	AP-32	Total/NA	Water	300.0	
860-43774-5	AP-33	Total/NA	Water	300.0	
860-43774-5 - DL	AP-33	Total/NA	Water	300.0	
MB 860-92843/3	Method Blank	Total/NA	Water	300.0	
LCS 860-92843/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-92843/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-92843/7	Lab Control Sample	Total/NA	Water	300.0	

Metals

Prep Batch: 429585

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-43774-2	PZ-03	Total/NA	Water	7470A	
860-43774-3	AP-31	Total/NA	Water	7470A	
860-43774-4	AP-32	Total/NA	Water	7470A	
860-43774-5	AP-33	Total/NA	Water	7470A	
860-43774-6	AP-34	Total/NA	Water	7470A	
860-43774-7	AP-35	Total/NA	Water	7470A	
860-43774-8	AP-36	Total/NA	Water	7470A	
860-43774-9	MW-03	Total/NA	Water	7470A	
860-43774-10	PZ-05	Total/NA	Water	7470A	
860-43774-11	PZ-06	Total/NA	Water	7470A	
860-43774-12	EB-01	Total/NA	Water	7470A	
860-43774-13	DUP-02	Total/NA	Water	7470A	
860-43774-14	FB-02	Total/NA	Water	7470A	
MB 180-429585/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-429585/2-A	Lab Control Sample	Total/NA	Water	7470A	
860-43774-2 MS	PZ-03	Total/NA	Water	7470A	
860-43774-2 MSD	PZ-03	Total/NA	Water	7470A	

Prep Batch: 429611

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-43774-1	PZ-02	Total/NA	Water	7470A	
MB 180-429611/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-429611/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 429822

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-43774-1	PZ-02	Total/NA	Water	EPA 7470A	429611
860-43774-2	PZ-03	Total/NA	Water	EPA 7470A	429585
860-43774-3	AP-31	Total/NA	Water	EPA 7470A	429585
860-43774-4	AP-32	Total/NA	Water	EPA 7470A	429585
860-43774-5	AP-33	Total/NA	Water	EPA 7470A	429585
860-43774-6	AP-34	Total/NA	Water	EPA 7470A	429585
860-43774-7	AP-35	Total/NA	Water	EPA 7470A	429585
860-43774-8	AP-36	Total/NA	Water	EPA 7470A	429585
860-43774-9	MW-03	Total/NA	Water	EPA 7470A	429585
860-43774-10	PZ-05	Total/NA	Water	EPA 7470A	429585
860-43774-11	PZ-06	Total/NA	Water	EPA 7470A	429585
860-43774-12	EB-01	Total/NA	Water	EPA 7470A	429585

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QC Association Summary

Client: GSI Environmental, Inc
Project/Site: Ash Pond

Job ID: 860-43774-1

Metals (Continued)

Analysis Batch: 429822 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-43774-13	DUP-02	Total/NA	Water	EPA 7470A	429585
860-43774-14	FB-02	Total/NA	Water	EPA 7470A	429585
MB 180-429585/1-A	Method Blank	Total/NA	Water	EPA 7470A	429585
MB 180-429611/1-A	Method Blank	Total/NA	Water	EPA 7470A	429611
LCS 180-429585/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	429585
LCS 180-429611/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	429611
860-43774-2 MS	PZ-03	Total/NA	Water	EPA 7470A	429585
860-43774-2 MSD	PZ-03	Total/NA	Water	EPA 7470A	429585

Prep Batch: 430163

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-43774-1	PZ-02	Total Recoverable	Water	3005A	
860-43774-2	PZ-03	Total Recoverable	Water	3005A	
860-43774-3	AP-31	Total Recoverable	Water	3005A	
860-43774-4	AP-32	Total Recoverable	Water	3005A	
860-43774-5	AP-33	Total Recoverable	Water	3005A	
860-43774-6	AP-34	Total Recoverable	Water	3005A	
860-43774-7	AP-35	Total Recoverable	Water	3005A	
860-43774-8	AP-36	Total Recoverable	Water	3005A	
860-43774-9	MW-03	Total Recoverable	Water	3005A	
860-43774-10	PZ-05	Total Recoverable	Water	3005A	
860-43774-11	PZ-06	Total Recoverable	Water	3005A	
860-43774-12	EB-01	Total Recoverable	Water	3005A	
860-43774-13	DUP-02	Total Recoverable	Water	3005A	
860-43774-14	FB-02	Total Recoverable	Water	3005A	
MB 180-430163/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-430163/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
860-43774-2 MS	PZ-03	Total Recoverable	Water	3005A	
860-43774-2 MSD	PZ-03	Total Recoverable	Water	3005A	

Analysis Batch: 436424

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-43774-1	PZ-02	Total Recoverable	Water	EPA 6020A	430163
860-43774-2	PZ-03	Total Recoverable	Water	EPA 6020A	430163
860-43774-3	AP-31	Total Recoverable	Water	EPA 6020A	430163
860-43774-4	AP-32	Total Recoverable	Water	EPA 6020A	430163
860-43774-5	AP-33	Total Recoverable	Water	EPA 6020A	430163
860-43774-6	AP-34	Total Recoverable	Water	EPA 6020A	430163
860-43774-7	AP-35	Total Recoverable	Water	EPA 6020A	430163
860-43774-8	AP-36	Total Recoverable	Water	EPA 6020A	430163
860-43774-9	MW-03	Total Recoverable	Water	EPA 6020A	430163
860-43774-10	PZ-05	Total Recoverable	Water	EPA 6020A	430163
860-43774-11	PZ-06	Total Recoverable	Water	EPA 6020A	430163
860-43774-12	EB-01	Total Recoverable	Water	EPA 6020A	430163
860-43774-13	DUP-02	Total Recoverable	Water	EPA 6020A	430163
860-43774-14	FB-02	Total Recoverable	Water	EPA 6020A	430163
MB 180-430163/1-A	Method Blank	Total Recoverable	Water	EPA 6020A	430163
LCS 180-430163/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020A	430163
860-43774-2 MS	PZ-03	Total Recoverable	Water	EPA 6020A	430163
860-43774-2 MSD	PZ-03	Total Recoverable	Water	EPA 6020A	430163

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QC Association Summary

Client: GSI Environmental, Inc
Project/Site: Ash Pond

Job ID: 860-43774-1

Metals

Prep Batch: 436716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 180-436716/1-A	Method Blank	Total Recoverable	Water	200.8	

Analysis Batch: 437655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-43774-1	PZ-02	Total Recoverable	Water	EPA 6020A	430163
860-43774-2	PZ-03	Total Recoverable	Water	EPA 6020A	430163
860-43774-3	AP-31	Total Recoverable	Water	EPA 6020A	430163
860-43774-4	AP-32	Total Recoverable	Water	EPA 6020A	430163
860-43774-9	MW-03	Total Recoverable	Water	EPA 6020A	430163
860-43774-11	PZ-06	Total Recoverable	Water	EPA 6020A	430163
860-43774-13	DUP-02	Total Recoverable	Water	EPA 6020A	430163
MB 180-430163/1-A	Method Blank	Total Recoverable	Water	EPA 6020A	430163
MB 180-436716/1-A	Method Blank	Total Recoverable	Water	EPA 6020A	436716
LCS 180-430163/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020A	430163
860-43774-2 MS	PZ-03	Total Recoverable	Water	EPA 6020A	430163
860-43774-2 MSD	PZ-03	Total Recoverable	Water	EPA 6020A	430163

Analysis Batch: 438170

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-43774-12	EB-01	Total Recoverable	Water	EPA 6020A	430163
860-43774-14	FB-02	Total Recoverable	Water	EPA 6020A	430163

Analysis Batch: 439014

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-43774-5	AP-33	Total Recoverable	Water	EPA 6020A	430163
860-43774-6	AP-34	Total Recoverable	Water	EPA 6020A	430163
860-43774-7	AP-35	Total Recoverable	Water	EPA 6020A	430163
860-43774-8	AP-36	Total Recoverable	Water	EPA 6020A	430163
860-43774-10	PZ-05	Total Recoverable	Water	EPA 6020A	430163

General Chemistry

Analysis Batch: 91847

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-43774-1	PZ-02	Total/NA	Water	SM 2540C	
860-43774-2	PZ-03	Total/NA	Water	SM 2540C	
860-43774-3	AP-31	Total/NA	Water	SM 2540C	
860-43774-5	AP-33	Total/NA	Water	SM 2540C	
860-43774-6	AP-34	Total/NA	Water	SM 2540C	
860-43774-7	AP-35	Total/NA	Water	SM 2540C	
860-43774-8	AP-36	Total/NA	Water	SM 2540C	
860-43774-9	MW-03	Total/NA	Water	SM 2540C	
860-43774-10	PZ-05	Total/NA	Water	SM 2540C	
860-43774-11	PZ-06	Total/NA	Water	SM 2540C	
860-43774-12	EB-01	Total/NA	Water	SM 2540C	
860-43774-13	DUP-02	Total/NA	Water	SM 2540C	
860-43774-14	FB-02	Total/NA	Water	SM 2540C	
MB 860-91847/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-91847/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-91847/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
LLCS 860-91847/4	Lab Control Sample	Total/NA	Water	SM 2540C	

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QC Association Summary

Client: GSI Environmental, Inc
Project/Site: Ash Pond

Job ID: 860-43774-1

General Chemistry (Continued)

Analysis Batch: 91847 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-43774-13 DU	DUP-02	Total/NA	Water	SM 2540C	

Analysis Batch: 91900

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-43774-1	PZ-02	Total/NA	Water	SM 2320B	
860-43774-11	PZ-06	Total/NA	Water	SM 2320B	
MB 860-91900/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-91900/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-91900/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Analysis Batch: 92079

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-43774-2	PZ-03	Total/NA	Water	SM 2320B	
860-43774-3	AP-31	Total/NA	Water	SM 2320B	
860-43774-4	AP-32	Total/NA	Water	SM 2320B	
860-43774-5	AP-33	Total/NA	Water	SM 2320B	
860-43774-6	AP-34	Total/NA	Water	SM 2320B	
860-43774-7	AP-35	Total/NA	Water	SM 2320B	
860-43774-8	AP-36	Total/NA	Water	SM 2320B	
860-43774-9	MW-03	Total/NA	Water	SM 2320B	
860-43774-10	PZ-05	Total/NA	Water	SM 2320B	
860-43774-13	DUP-02	Total/NA	Water	SM 2320B	
MB 860-92079/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-92079/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-92079/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
860-43774-2 DU	PZ-03	Total/NA	Water	SM 2320B	

Analysis Batch: 92157

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-43774-4	AP-32	Total/NA	Water	SM 2540C	
MB 860-92157/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-92157/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-92157/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
LLCS 860-92157/4	Lab Control Sample	Total/NA	Water	SM 2540C	

Rad

Prep Batch: 52408

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-43774-1	PZ-02	Total/NA	Water	RAD Prep	
860-43774-10	PZ-05	Total/NA	Water	RAD Prep	
860-43774-11	PZ-06	Total/NA	Water	RAD Prep	
MB 810-52408/1-A	Method Blank	Total/NA	Water	RAD Prep	
LCS 810-52408/2-A	Lab Control Sample	Total/NA	Water	RAD Prep	

Prep Batch: 52414

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-43774-2	PZ-03	Total/NA	Water	RAD Prep	
860-43774-7	AP-35	Total/NA	Water	RAD Prep	
860-43774-8	AP-36	Total/NA	Water	RAD Prep	
860-43774-9	MW-03	Total/NA	Water	RAD Prep	

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QC Association Summary

Client: GSI Environmental, Inc
Project/Site: Ash Pond

Job ID: 860-43774-1

Rad (Continued)

Prep Batch: 52414 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-43774-14	FB-02	Total/NA	Water	RAD Prep	
MB 810-52414/1-A	Method Blank	Total/NA	Water	RAD Prep	
LCS 810-52414/2-A	Lab Control Sample	Total/NA	Water	RAD Prep	
860-43774-2 MS	PZ-03	Total/NA	Water	RAD Prep	
860-43774-2 MSD	PZ-03	Total/NA	Water	RAD Prep	

Prep Batch: 52416

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-43774-3	AP-31	Total/NA	Water	RAD Prep	
860-43774-4	AP-32	Total/NA	Water	RAD Prep	
860-43774-5	AP-33	Total/NA	Water	RAD Prep	
860-43774-6	AP-34	Total/NA	Water	RAD Prep	
860-43774-12	EB-01	Total/NA	Water	RAD Prep	
860-43774-13	DUP-02	Total/NA	Water	RAD Prep	
MB 810-52416/1-A	Method Blank	Total/NA	Water	RAD Prep	
LCS 810-52416/2-A	Lab Control Sample	Total/NA	Water	RAD Prep	

Prep Batch: 602361

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-43774-1	PZ-02	Total/NA	Water	PrecSep_0	
860-43774-2	PZ-03	Total/NA	Water	PrecSep_0	
860-43774-3	AP-31	Total/NA	Water	PrecSep_0	
860-43774-4	AP-32	Total/NA	Water	PrecSep_0	
860-43774-5	AP-33	Total/NA	Water	PrecSep_0	
860-43774-6	AP-34	Total/NA	Water	PrecSep_0	
860-43774-7	AP-35	Total/NA	Water	PrecSep_0	
860-43774-8	AP-36	Total/NA	Water	PrecSep_0	
860-43774-9	MW-03	Total/NA	Water	PrecSep_0	
860-43774-10	PZ-05	Total/NA	Water	PrecSep_0	
860-43774-11	PZ-06	Total/NA	Water	PrecSep_0	
860-43774-12	EB-01	Total/NA	Water	PrecSep_0	
860-43774-13	DUP-02	Total/NA	Water	PrecSep_0	
860-43774-14	FB-02	Total/NA	Water	PrecSep_0	
MB 160-602361/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-602361/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
860-43774-2 MS	PZ-03	Total/NA	Water	PrecSep_0	
860-43774-2 MSD	PZ-03	Total/NA	Water	PrecSep_0	

Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: Ash Pond

Job ID: 860-43774-1

Client Sample ID: PZ-02
Date Collected: 02/21/23 10:25
Date Received: 02/22/23 16:03

Lab Sample ID: 860-43774-1
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	DL	100			92611	03/03/23 17:03	WP	EET HOU
Total/NA	Analysis	300.0		10			92315	03/02/23 00:42	A1S	EET HOU
Total Recoverable	Prep	3005A			25 mL	25 mL	430163	03/23/23 10:55	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020A		5			436424	05/26/23 10:18	RJR	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	430163	03/23/23 10:55	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020A		10			437655	06/09/23 19:36	KED	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	429611	03/20/23 08:40	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			429822	03/20/23 16:15	RJR	EET PIT
Total/NA	Analysis	SM 2320B		1			91900	02/27/23 12:43	TL	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	91847	02/27/23 12:00	HN	EET HOU
Total/NA	Prep	PrecSep_0			753.83 mL	1.0 g	602361	03/06/23 09:54	DJP	EET SL
Total/NA	Analysis	904.0		1			603598	03/14/23 11:54	FLC	EET SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	52408	03/21/23 13:38	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			53939	04/03/23 09:33	SM	EA SB

Completed: 04/03/23 10:03 ¹

Client Sample ID: PZ-03
Date Collected: 02/21/23 08:50
Date Received: 02/22/23 16:03

Lab Sample ID: 860-43774-2
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	DL	100			92611	03/03/23 17:16	WP	EET HOU
Total/NA	Analysis	300.0		10			92315	03/02/23 00:54	A1S	EET HOU
Total Recoverable	Prep	3005A			25 mL	25 mL	430163	03/23/23 10:55	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020A		5			436424	05/26/23 10:21	RJR	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	430163	03/23/23 10:55	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020A		10			437655	06/09/23 19:39	KED	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	429585	03/17/23 12:17	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			429822	03/20/23 14:43	RJR	EET PIT
Total/NA	Analysis	SM 2320B		1			92079	02/28/23 11:48	TL	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	91847	02/27/23 12:00	HN	EET HOU
Total/NA	Prep	PrecSep_0			744.25 mL	1.0 g	602361	03/06/23 09:54	DJP	EET SL
Total/NA	Analysis	904.0		1			603598	03/14/23 11:54	FLC	EET SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	52414	03/21/23 13:55	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			53554	03/27/23 09:56	SM	EA SB

Completed: 03/27/23 10:26 ¹

Client Sample ID: AP-31
Date Collected: 02/21/23 08:30
Date Received: 02/22/23 16:03

Lab Sample ID: 860-43774-3
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	DL2	100			92611	03/03/23 17:53	WP	EET HOU
Total/NA	Analysis	300.0		1			92315	03/02/23 01:31	A1S	EET HOU

Eurofins Houston

Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: Ash Pond

Job ID: 860-43774-1

Client Sample ID: AP-31
Date Collected: 02/21/23 08:30
Date Received: 02/22/23 16:03

Lab Sample ID: 860-43774-3
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	DL	10			92315	03/02/23 01:43	A1S	EET HOU
Total Recoverable	Prep	3005A			25 mL	25 mL	430163	03/23/23 10:55	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020A		5			436424	05/26/23 10:36	RJR	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	430163	03/23/23 10:55	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020A		100			437655	06/09/23 19:53	KED	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	429585	03/17/23 12:17	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			429822	03/20/23 14:47	RJR	EET PIT
Total/NA	Analysis	SM 2320B		1			92079	02/28/23 11:58	TL	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	91847	02/27/23 12:00	HN	EET HOU
Total/NA	Prep	PrecSep_0			757.37 mL	1.0 g	602361	03/06/23 09:54	DJP	EET SL
Total/NA	Analysis	904.0		1			603598	03/14/23 11:56	FLC	EET SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	52416	03/21/23 13:59	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			53954	04/03/23 11:20	SM	EA SB

Completed: 04/03/23 11:50 ¹

Client Sample ID: AP-32
Date Collected: 02/21/23 09:55
Date Received: 02/22/23 16:03

Lab Sample ID: 860-43774-4
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			92843	03/07/23 01:13	WP	EET HOU
Total/NA	Analysis	300.0	DL	100			92843	03/07/23 01:24	WP	EET HOU
Total Recoverable	Prep	3005A			25 mL	25 mL	430163	03/23/23 10:55	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020A		5			436424	05/26/23 11:00	RJR	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	430163	03/23/23 10:55	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020A		10			437655	06/09/23 20:02	KED	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	429585	03/17/23 12:17	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			429822	03/20/23 14:48	RJR	EET PIT
Total/NA	Analysis	SM 2320B		1			92079	02/28/23 12:04	TL	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	92157	02/28/23 19:00	HN	EET HOU
Total/NA	Prep	PrecSep_0			993.63 mL	1.0 g	602361	03/06/23 09:54	DJP	EET SL
Total/NA	Analysis	904.0		1			603598	03/14/23 11:57	FLC	EET SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	52416	03/21/23 13:59	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			53954	04/03/23 11:20	SM	EA SB

Completed: 04/03/23 11:50 ¹

Client Sample ID: AP-33
Date Collected: 02/21/23 10:30
Date Received: 02/22/23 16:03

Lab Sample ID: 860-43774-5
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		10			92843	03/07/23 02:00	WP	EET HOU
Total/NA	Analysis	300.0	DL	100			92843	03/07/23 02:12	WP	EET HOU

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Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: Ash Pond

Job ID: 860-43774-1

Client Sample ID: AP-33
Date Collected: 02/21/23 10:30
Date Received: 02/22/23 16:03

Lab Sample ID: 860-43774-5
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	430163	03/23/23 10:55	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020A		5			436424	05/26/23 11:03	RJR	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	430163	03/23/23 10:55	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020A		25			439014	06/26/23 19:48	KED	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	429585	03/17/23 12:17	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			429822	03/20/23 14:49	RJR	EET PIT
Total/NA	Analysis	SM 2320B		1			92079	02/28/23 12:09	TL	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	91847	02/27/23 12:00	HN	EET HOU
Total/NA	Prep	PrecSep_0			752.77 mL	1.0 g	602361	03/06/23 09:54	DJP	EET SL
Total/NA	Analysis	904.0		1			603598	03/14/23 11:57	FLC	EET SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	52416	03/21/23 13:59	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			53954	04/03/23 11:20	SM	EA SB
								Completed: 04/03/23 11:50 ¹		

Client Sample ID: AP-34
Date Collected: 02/21/23 11:30
Date Received: 02/22/23 16:03

Lab Sample ID: 860-43774-6
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	DL2	100			92611	03/04/23 00:29	WP	EET HOU
Total/NA	Analysis	300.0		1			92315	03/02/23 02:42	A1S	EET HOU
Total/NA	Analysis	300.0	DL	10			92315	03/02/23 02:54	A1S	EET HOU
Total Recoverable	Prep	3005A			25 mL	25 mL	430163	03/23/23 10:55	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020A		5			436424	05/26/23 11:32	RJR	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	430163	03/23/23 10:55	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020A		50			439014	06/26/23 19:51	KED	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	429585	03/17/23 12:17	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			429822	03/20/23 14:50	RJR	EET PIT
Total/NA	Analysis	SM 2320B		1			92079	02/28/23 12:15	TL	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	91847	02/27/23 12:00	HN	EET HOU
Total/NA	Prep	PrecSep_0			751.51 mL	1.0 g	602361	03/06/23 09:54	DJP	EET SL
Total/NA	Analysis	904.0		1			603601	03/14/23 11:59	FLC	EET SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	52416	03/21/23 13:59	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			53954	04/03/23 11:20	SM	EA SB
								Completed: 04/03/23 11:50 ¹		

Client Sample ID: AP-35
Date Collected: 02/21/23 10:35
Date Received: 02/22/23 16:03

Lab Sample ID: 860-43774-7
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	DL2	100			92611	03/04/23 00:41	WP	EET HOU
Total/NA	Analysis	300.0		1			92315	03/02/23 03:06	A1S	EET HOU
Total/NA	Analysis	300.0	DL	10			92315	03/02/23 03:18	A1S	EET HOU

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Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: Ash Pond

Job ID: 860-43774-1

Client Sample ID: AP-35
Date Collected: 02/21/23 10:35
Date Received: 02/22/23 16:03

Lab Sample ID: 860-43774-7
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	430163	03/23/23 10:55	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020A		5			436424	05/26/23 11:35	RJR	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	430163	03/23/23 10:55	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020A		50			439014	06/26/23 19:54	KED	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	429585	03/17/23 12:17	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			429822	03/20/23 14:54	RJR	EET PIT
Total/NA	Analysis	SM 2320B		1			92079	02/28/23 12:20	TL	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	91847	02/27/23 12:00	HN	EET HOU
Total/NA	Prep	PrecSep_0			1005.25 mL	1.0 g	602361	03/06/23 09:54	DJP	EET SL
Total/NA	Analysis	904.0		1			603601	03/14/23 11:59	FLC	EET SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	52414	03/21/23 13:55	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			53942	04/03/23 09:37	SM	EA SB
								Completed: 04/03/23 10:07 ¹		

Client Sample ID: AP-36
Date Collected: 02/21/23 09:55
Date Received: 02/22/23 16:03

Lab Sample ID: 860-43774-8
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	DL2	100			92611	03/04/23 00:54	WP	EET HOU
Total/NA	Analysis	300.0		1			92315	03/02/23 03:30	A1S	EET HOU
Total/NA	Analysis	300.0	DL	10			92315	03/02/23 03:42	A1S	EET HOU
Total Recoverable	Prep	3005A			25 mL	25 mL	430163	03/23/23 10:55	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020A		5			436424	05/26/23 11:53	RJR	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	430163	03/23/23 10:55	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020A		2			439014	06/26/23 19:57	KED	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	429585	03/17/23 12:17	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			429822	03/20/23 14:55	RJR	EET PIT
Total/NA	Analysis	SM 2320B		1			92079	02/28/23 12:41	TL	EET HOU
Total/NA	Analysis	SM 2540C		1	25 mL	200 mL	91847	02/27/23 12:00	HN	EET HOU
Total/NA	Prep	PrecSep_0			1002.43 mL	1.0 g	602361	03/06/23 09:54	DJP	EET SL
Total/NA	Analysis	904.0		1			603601	03/14/23 11:59	FLC	EET SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	52414	03/21/23 13:55	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			53942	04/03/23 09:37	SM	EA SB
								Completed: 04/03/23 10:07 ¹		

Client Sample ID: MW-03
Date Collected: 02/21/23 09:05
Date Received: 02/22/23 16:03

Lab Sample ID: 860-43774-9
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	DL2	100			92611	03/04/23 01:06	WP	EET HOU
Total/NA	Analysis	300.0		1			92315	03/02/23 03:53	A1S	EET HOU
Total/NA	Analysis	300.0	DL	10			92315	03/02/23 04:05	A1S	EET HOU

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Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: Ash Pond

Job ID: 860-43774-1

Client Sample ID: MW-03
Date Collected: 02/21/23 09:05
Date Received: 02/22/23 16:03

Lab Sample ID: 860-43774-9
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	430163	03/23/23 10:55	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020A		5			436424	05/26/23 11:56	RJR	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	430163	03/23/23 10:55	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020A		25			437655	06/09/23 21:03	KED	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	429585	03/17/23 12:17	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			429822	03/20/23 14:56	RJR	EET PIT
Total/NA	Analysis	SM 2320B		1			92079	02/28/23 12:47	TL	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	91847	02/27/23 12:00	HN	EET HOU
Total/NA	Prep	PrecSep_0			1002.95 mL	1.0 g	602361	03/06/23 09:54	DJP	EET SL
Total/NA	Analysis	904.0		1			603601	03/14/23 11:59	FLC	EET SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	52414	03/21/23 13:55	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			53942	04/03/23 09:37	SM	EA SB
								Completed:	04/03/23 10:07 ¹	

Client Sample ID: PZ-05
Date Collected: 02/21/23 12:50
Date Received: 02/22/23 16:03

Lab Sample ID: 860-43774-10
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	DL	100			92611	03/04/23 01:43	WP	EET HOU
Total/NA	Analysis	300.0		1			92315	03/02/23 04:17	A1S	EET HOU
Total/NA	Analysis	300.0	DL	10			92315	03/02/23 04:29	A1S	EET HOU
Total Recoverable	Prep	3005A			25 mL	25 mL	430163	03/23/23 10:55	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020A		5			436424	05/26/23 12:14	RJR	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	430163	03/23/23 10:55	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020A		50			439014	06/26/23 20:00	KED	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	429585	03/17/23 12:17	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			429822	03/20/23 14:57	RJR	EET PIT
Total/NA	Analysis	SM 2320B		1			92079	02/28/23 12:52	TL	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	91847	02/27/23 12:00	HN	EET HOU
Total/NA	Prep	PrecSep_0			996.57 mL	1.0 g	602361	03/06/23 09:54	DJP	EET SL
Total/NA	Analysis	904.0		1			603600	03/14/23 12:01	FLC	EET SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	52408	03/21/23 13:38	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			53939	04/03/23 09:33	SM	EA SB
								Completed:	04/03/23 10:03 ¹	

Client Sample ID: PZ-06
Date Collected: 02/21/23 09:00
Date Received: 02/22/23 16:03

Lab Sample ID: 860-43774-11
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	DL	100			92611	03/04/23 01:56	WP	EET HOU
Total/NA	Analysis	300.0		1			92315	03/02/23 05:05	A1S	EET HOU
Total/NA	Analysis	300.0	DL	10			92315	03/02/23 05:17	A1S	EET HOU

Eurofins Houston

Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: Ash Pond

Job ID: 860-43774-1

Client Sample ID: PZ-06
Date Collected: 02/21/23 09:00
Date Received: 02/22/23 16:03

Lab Sample ID: 860-43774-11
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	430163	03/23/23 10:55	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020A		5			436424	05/26/23 12:17	RJR	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	430163	03/23/23 10:55	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020A		5			437655	06/09/23 21:50	KED	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	429585	03/17/23 12:17	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			429822	03/20/23 14:58	RJR	EET PIT
Total/NA	Analysis	SM 2320B		1			91900	02/27/23 14:00	TL	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	91847	02/27/23 12:00	HN	EET HOU
Total/NA	Prep	PrecSep_0			1004.23 mL	1.0 g	602361	03/06/23 09:54	DJP	EET SL
Total/NA	Analysis	904.0		1			603600	03/14/23 12:01	FLC	EET SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	52408	03/21/23 13:38	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			53334	03/28/23 09:46	SM	EA SB
								Completed: 03/28/23 10:16 ¹		

Client Sample ID: EB-01
Date Collected: 02/21/23 09:25
Date Received: 02/22/23 16:03

Lab Sample ID: 860-43774-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			92611	03/04/23 02:08	WP	EET HOU
Total/NA	Analysis	300.0		1			92315	03/02/23 05:29	A1S	EET HOU
Total Recoverable	Prep	3005A			25 mL	25 mL	430163	03/23/23 10:55	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020A		5			436424	05/26/23 12:20	RJR	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	430163	03/23/23 10:55	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			438170	06/15/23 13:14	KED	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	429585	03/17/23 12:17	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			429822	03/20/23 14:59	RJR	EET PIT
Total/NA	Analysis	SM 2540C		1	200 mL	200 mL	91847	02/27/23 12:00	HN	EET HOU
Total/NA	Prep	PrecSep_0			994.22 mL	1.0 g	602361	03/06/23 09:54	DJP	EET SL
Total/NA	Analysis	904.0		1			603600	03/14/23 12:01	FLC	EET SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	52416	03/21/23 13:59	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			53049	03/27/23 09:14	SM	EA SB
								Completed: 03/27/23 09:44 ¹		

Client Sample ID: DUP-02
Date Collected: 02/21/23 12:00
Date Received: 02/22/23 16:03

Lab Sample ID: 860-43774-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0	DL2	100			92611	03/04/23 02:20	WP	EET HOU
Total/NA	Analysis	300.0		1			92315	03/02/23 05:41	A1S	EET HOU
Total/NA	Analysis	300.0	DL	10			92315	03/02/23 05:53	A1S	EET HOU
Total Recoverable	Prep	3005A			25 mL	25 mL	430163	03/23/23 10:55	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020A		5			436424	05/26/23 13:05	RJR	EET PIT

Eurofins Houston

Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: Ash Pond

Job ID: 860-43774-1

Client Sample ID: DUP-02
Date Collected: 02/21/23 12:00
Date Received: 02/22/23 16:03

Lab Sample ID: 860-43774-13
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	430163	03/23/23 10:55	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020A		10			437655	06/09/23 21:55	KED	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	429585	03/17/23 12:17	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			429822	03/20/23 15:00	RJR	EET PIT
Total/NA	Analysis	SM 2320B		1			92079	02/28/23 12:57	TL	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	91847	02/27/23 12:00	HN	EET HOU
Total/NA	Prep	PrecSep_0			995.31 mL	1.0 g	602361	03/06/23 09:54	DJP	EET SL
Total/NA	Analysis	904.0		1			603600	03/14/23 12:02	FLC	EET SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	52416	03/21/23 13:59	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			53954	04/03/23 11:20	SM	EA SB
								Completed:	04/03/23 11:50 ¹	

Client Sample ID: FB-02
Date Collected: 02/21/23 13:05
Date Received: 02/22/23 16:03

Lab Sample ID: 860-43774-14
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		1			92611	03/04/23 02:33	WP	EET HOU
Total/NA	Analysis	300.0		1			92315	03/02/23 06:05	A1S	EET HOU
Total Recoverable	Prep	3005A			25 mL	25 mL	430163	03/23/23 10:55	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020A		5			436424	05/26/23 13:24	RJR	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	430163	03/23/23 10:55	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			438170	06/15/23 13:17	KED	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	429585	03/17/23 12:17	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			429822	03/20/23 15:01	RJR	EET PIT
Total/NA	Analysis	SM 2540C		1	200 mL	200 mL	91847	02/27/23 12:00	HN	EET HOU
Total/NA	Prep	PrecSep_0			995.62 mL	1.0 g	602361	03/06/23 09:54	DJP	EET SL
Total/NA	Analysis	904.0		1			603600	03/14/23 12:02	FLC	EET SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	52414	03/21/23 13:55	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			53554	03/27/23 09:56	SM	EA SB
								Completed:	03/27/23 10:26 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: 860-43774-1

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	T104704215-23-50	03-13-23
<p>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.</p>			
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	07-31-24
Alabama	State	40700	06-30-23
Alaska	State	IN00035	06-30-23
Arizona	State	AZ0432	07-26-23
Arkansas (DW)	State	EPA IN00035	06-30-23
California	State	2920	06-30-23
Colorado	State	IN00035	02-29-24
Connecticut	State	PH-0132	03-31-22 *
Delaware (DW)	State	IN00035	06-30-23
Florida	NELAP	E87775	06-30-23
Georgia (DW)	State	929	06-30-23
Hawaii	State	IN035	06-30-23
Idaho (DW)	State	IN00035	12-31-23
IL Dept. of Public Health (Micro)	State	17767	06-30-23
Illinois	NELAP	200001	09-30-23
Indiana	State	C-71-01	12-31-25
Indiana (Micro)	State	M-76-07	12-31-25
Iowa	State	IA Lab #098	11-01-23
Kansas	NELAP	E-10233	10-31-23
Kentucky (DW)	State	KY90056	12-31-23
Louisiana (DW)	State	LA014	12-31-23
Maine	State	IN00035	05-01-23
Maryland	State	209	05-18-23
Massachusetts	State	M-IN035	06-30-23
MI - RadChem Recognition	State	9926	06-30-23
Michigan	State	9926	06-30-23
Minnesota	NELAP	1989807	12-31-23
Mississippi	State	IN00035	06-30-22 *
Missouri	State	880	09-30-24
Montana (DW)	State	CERT0026	01-02-24
Nebraska	State	NE-OS-05-04	06-30-23
Nevada	State	IN000352021-2	07-31-23
New Hampshire	NELAP	2124	11-05-23
New Jersey	NELAP	IN598	06-30-23
New Mexico	State	IN00035	06-30-23
New York	NELAP	11398	04-01-24
North Carolina (DW)	State	18700	07-31-23
North Dakota	State	R-035	06-30-23

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

Accreditation/Certification Summary

Client: GSI Environmental, Inc
Project/Site: Ash Pond

Job ID: 860-43774-1

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
Ohio	State	87775	06-30-23
Oklahoma	NELAP	D9508	08-31-23
Oregon	NELAP	4156	09-16-23
Pennsylvania	NELAP	68-00466	04-03-23
Puerto Rico	State	IN00035	04-01-24
Rhode Island	State	LAO00343	12-30-23
South Carolina	State	95005001	06-30-23
South Dakota (DW)	State	IN00035	06-30-23
Tennessee	State	TN02973	06-30-23
Texas	NELAP	T104704187-22-16	12-31-23
Texas	TCEQ Water Supply	TX207	06-30-23
USEPA Reg X SDWA	US Federal Programs	IN00035	08-24-24
USEPA UCMR 5	US Federal Programs	IN00035	12-31-25
Utah	NELAP	IN00035	07-31-23
Vermont	State	VT-8775	11-15-23
Virginia	NELAP	460275	03-14-24
Washington	State	C837	01-01-24
West Virginia (DW)	State	9927 C	12-31-23
Wisconsin	State	999766900	08-31-23
Wisconsin (Micro)	State	10121	12-31-22 *
Wyoming	State	8TMS-L	06-30-23

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	06-27-23
California	State	2891	04-30-24
Connecticut	State	PH-0688	09-30-24
Florida	NELAP	E871008	06-30-23
Georgia	State	PA 02-00416	04-30-24
Illinois	NELAP	004375	06-30-24
Kansas	NELAP	E-10350	01-31-24
Kentucky (UST)	State	162013	04-30-23 *
Kentucky (WW)	State	KY98043	12-31-23
Louisiana	NELAP	04041	06-30-22 *
Louisiana (All)	NELAP	04041	06-30-23
Maine	State	PA00164	03-06-24
Minnesota	NELAP	042-999-482	12-31-23
New Hampshire	NELAP	2030	04-04-24
New Jersey	NELAP	PA005	06-30-23
New York	NELAP	11182	04-01-24
North Carolina (WW/SW)	State	434	12-31-23
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	04-30-23 *
Texas	NELAP	T104704528	03-31-24
US Fish & Wildlife	US Federal Programs	058448	03-31-24

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

Eurofins Houston

Accreditation/Certification Summary

Client: GSI Environmental, Inc
Project/Site: Ash Pond

Job ID: 860-43774-1

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	06-21-24
Utah	NELAP	PA001462019-8	05-31-24
Virginia	NELAP	10043	09-14-23
West Virginia DEP	State	142	03-31-24
Wisconsin	State	998027800	08-31-23

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	07-31-23

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: 860-43774-1

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

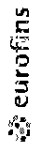
Client: GSI Environmental, Inc
Project/Site: Ash Pond

Job ID: 860-43774-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-43774-1	PZ-02	Water	02/21/23 10:25	02/22/23 16:03
860-43774-2	PZ-03	Water	02/21/23 08:50	02/22/23 16:03
860-43774-3	AP-31	Water	02/21/23 08:30	02/22/23 16:03
860-43774-4	AP-32	Water	02/21/23 09:55	02/22/23 16:03
860-43774-5	AP-33	Water	02/21/23 10:30	02/22/23 16:03
860-43774-6	AP-34	Water	02/21/23 11:30	02/22/23 16:03
860-43774-7	AP-35	Water	02/21/23 10:35	02/22/23 16:03
860-43774-8	AP-36	Water	02/21/23 09:55	02/22/23 16:03
860-43774-9	MW-03	Water	02/21/23 09:05	02/22/23 16:03
860-43774-10	PZ-05	Water	02/21/23 12:50	02/22/23 16:03
860-43774-11	PZ-06	Water	02/21/23 09:00	02/22/23 16:03
860-43774-12	EB-01	Water	02/21/23 09:25	02/22/23 16:03
860-43774-13	DUP-02	Water	02/21/23 12:00	02/22/23 16:03
860-43774-14	FB-02	Water	02/21/23 13:05	02/22/23 16:03

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Chain of Custody Record

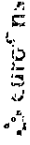


Client Information Client Contact: Mike Schofield Company: GSI Environmental, Inc Address: 9600 Great Hills Trail Suite 350E City: Austin State, Zip: TX, 78759 Phone: 512-346-4474(Tel) 512-346-4476(Fax) Email: mschofield@gsi-net.com Project Name: San Miguel Electrical Co-Op GW (Ash Ponds) Site:		Lab P/N: Kudchadkar, Sachin G E-Mail: Sachin.Kudchadkar@Eurofins.com Camer Tracking No(s): State of Origin: TX Page: 1 of 2 Job #:	
Due Date Requested: TAT Requested (days): Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No PO #: WO #: Project #: SOW#:		Analysis Requested 901 Re-Rad 226 - South Bend IN SMT500 Ra_B Rad 226 - South Bend IN 2540C_TDS T149 - Eurofins Pileburg 6020A - 7470 - B, Ca, Sb, As, Ba, Bi, Cd, Cr Co, Pb, Li, Mo, Se, 220B, Alkalinity Field Filled Sample (Y/N or No)	
Sample Identification Sample Date Sample Time Sample Type (C=Comp, G=grab) Matrix (Water, Swell, Onestep, Analy) Preservation Code: Presentation Code:		Special Instructions/Note: Total Number of Containers: Preservation Codes: A HCL B NaOH C Zn Acetate D Nitric Acid E NaHCO4 F MeOH G Anchlor H Ascorbic Acid I Ice J DI Water K EDTA L EDA Other: 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)	
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I II III IV Other (specify)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Special Instructions/QC Requirements: CCR Appendix III end IV	
Empty Kit Relinquished by: Relinquished by: Cabe Garza 88 Relinquished by: Relinquished by:		Method of Shipment: Cons - Direct Date/Time: 2-22-23 1603 Date/Time: 2-22-23 1603 Date/Time:	
Custody Seal Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Cooler Temperature(s) °C and Other Remarks:	



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

Chain of Custody Record



Client Information
 Client Contact: Mike Schofield
 Company: GSI Environmental, Inc
 Address: 9600 Great Hills Trail Suite 350E
 City: Austin
 State/Zip: TX, 78759
 Phone: 512-346-4474(Tel) 512-346-4476(Fax)
 Email: mlschofield@gsi-test.com
 Project Name: San Miguel Electrical Co-Op Gyl (Ash Ponds)
 Site: _____

Sampler: Brian Hillis + 4m (Team) Lab Pk: Kudchadkar Sachin G
 Phone: 713-653-3127 E-Mail: Sachin.Kudchadkar@Eurofins.com
 PWSID: _____
 Due Date Requested: _____
 TAT Requested (days): _____
 Compliance Project: Yes No
 PO #: _____
 WO #: _____
 Project #: 86001746
 SSON#: _____

Sample Identification

Sample ID	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Soil, Other)	Preservation Code	Field Filtered Sample (Y/N or No)	Analysis Requested	Special Instructions/Note
EB-01	2-21-23	925	G	Water		X	2320B, Alkalinity	(No Alkalinity requested)
DUP-02	↓	1200	↓	Water		↓	9014 Ra-Rad 228 Eurofins St Louis	(No Alkalinity requested)
FB-02	↓	1305	↓	Water		↓	300-Cl, F, SO4	(No Alkalinity requested)
				Water			2540C_TDS	
				Water			6020A - 470-B, Ca, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Ti, Hg - Eurofins Pittsburg	
				Water			SM7500 Ra, B Rad 226-South Bend IN	

Special Instructions/Note:
 (No Alkalinity requested)
 (No Alkalinity requested)

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

Special Instructions/QC Requirements: CCR Appendix III and IV

Relinquished by: Cabe Garcia BB Date/Time: 2-22-23 1603 Company: BB
 Relinquished by: _____ Date/Time: _____ Company: _____
 Relinquished by: _____ Date/Time: _____ Company: _____

Relinquished by: Sachin Kudchadkar Date/Time: 2/22/23 1603 Company: Eurofins
 Relinquished by: _____ Date/Time: _____ Company: _____

Custody Seal No. BB
 Yes No

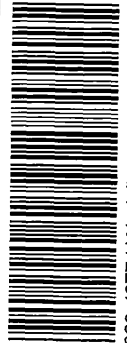


ORIGIN ID: SGRA (281) 240-4200
ADMINISTRATIVE OFFICES
XENCO HOUSTON
4145 GREENBRIAR DR

STAFFORD, TX 77477
UNITED STATES US

SHIP DATE: 24FEB23
ACTWGT: 10.00 LB
CAD: 110189707/NET4580

BILL SENDER



860-43774 Waybill

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

PITTSBURGH PA 15238

(412) 963-7058
INV: PO:

REF:

DEPT:

Barcode

Uncorrected temp 3.6 °C
Thermometer ID 19

CF 0.8 Initials NR

PT-WI-SR-001 effective 11/8/18

FedEx Express



FedEx Ship Manager - Print Your Label(s)

SATURDAY 12:00P
PRIORITY OVERNIGHT

2 of 2
MPS# 0263 7714 0559 0187
Mstr# 7714 0559 0599

0201

X0 AGCA

15238
PA-US PIT



2/24/23, 6:35 PM

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

STAFFORD, TX 77477
UNITED STATES US

SHIP DATE: 24 FEB 23
ACTWGT: 10.00 LB
CAD: 1101897077/INET4580

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:

Barcode
Uncorrected temp 4.9 °C
Thermometer ID 19
CF -0.8 Initials KR
PT-WI-SR-001 effective 11/8/18

FedEx Express



J23102301101ur

FedEx Ship Manager - Print Your Label(s)

1 of 2

TRK# 0201 7714 0559 0599

MASTER

SATURDAY 12:00P
PRIORITY OVERNIGHT

X0 AGCA

15238
PA-US PIT



2/24/23, 6:35 PM

Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler:	Lab PM:	Camera Tracking No(s):	COC No:					
Shipping/Receiving		Phone	Kudchadkar, Sachin G		860-22276.1					
Company:		E-Mail:	Sachin.Kudchadkar@et.eurofins.com	State of Origin:	Page					
TesAmerica Laboratories, Inc.		Accreditations Required (See note):	NELAP - Texas	Texas	Page 1 of 2					
Address:		Due Date Requested:		Job #	860-43774-1					
13715 Rider Trail North,		3/22/2023								
City		TAT Requested (days):								
Earth City										
State, Zip:										
MO, 63045										
Phone		PO #								
314-298-8566(Tel) 314-298-8757(Fax)		WO #								
Email										
Project Name		Project #								
Ash Pond		86001746								
Site		SSOW#								
Analysis Requested										
Preservation Codes:										
A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Anchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:										
M - Hexane N - None O - AsNaO2 P - Na2OAS Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4.5 Y - Trizma Z - other (specify)										
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Solid, Overstabil, BT=Tissue, AA=Al)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	904.0/PreSep_0 Standard Target List	Total Number of Containers	Special Instructions/Note:
PZ-02 (860-43774-1)		2/21/23	10:25 Central		Water	X	X	X	2	
PZ-03 (860-43774-2)		2/21/23	08:50 Central		Water	X	X	X	2	
PZ-03 (860-43774-2MS)		2/21/23	08:50 Central	MS	Water	X	X	X	2	
PZ-03 (860-43774-2MSD)		2/21/23	08:50 Central	MSD	Water	X	X	X	2	
AP-31 (860-43774-3)		2/21/23	08:30 Central		Water	X	X	X	2	
AP-32 (860-43774-4)		2/21/23	09:55 Central		Water	X	X	X	2	
AP-33 (860-43774-5)		2/21/23	10:30 Central		Water	X	X	X	2	
AP-34 (860-43774-6)		2/21/23	11:30 Central		Water	X	X	X	2	
AP-35 (860-43774-7)		2/21/23	10:35 Central		Water	X	X	X	2	
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analysis & 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/test/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										
Deliverable Requested: I, II, III, IV, Other (specify)										
Primary Deliverable Rank: 2										
Special Instructions/QC Requirements:										
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)										
Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For <input type="checkbox"/> Months										
Empty Kit Relinquished by:										
Relinquished by: <i>YARS</i>										
Relinquished by: <i>FED EX</i>										
Relinquished by: <i>FED EX</i>										
Custody Seals/Intact <input type="checkbox"/> Yes <input type="checkbox"/> No										
Custody Seal No:										
Cooler Temperature(s) °C and Other Remarks:										
Received by: <i>Suma Worthington</i> Date/Time: <i>FEB 27 2023 0555</i> Company: <i>ETA50</i>										
Received by: <i>Suma Worthington</i> Date/Time: <i>FEB 27 2023 0555</i> Company: <i>ETA50</i>										
Received by: <i>Suma Worthington</i> Date/Time: <i>FEB 27 2023 0555</i> Company: <i>ETA50</i>										
Method of Shipment:										
Date/Time: <i>2/24/23 1700 E</i> Company: <i>Company</i>										
Date/Time: <i>2/24/23 1700 E</i> Company: <i>Company</i>										
Date/Time: <i>2/24/23 1700 E</i> Company: <i>Company</i>										

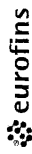


Chain of Custody Record



Client Information (Sub Contract Lab)			Lab PM: Kudchadkar, Sachin G			Camer Tracking No(s): 860-22276.2		
Client Contact: Shipping/Receiving			E-Mail: Sachin.Kudchadkar@et.eurofins.com			Page: Page 2 of 2		
Company: TestAmerica Laboratories, Inc.			Accreditations Required (See note): NELAP - Texas			Job #: 860-43774-1		
Address: 13715 Rider Trail North, Earth City, MO, 63045			Due Date Requested: 3/22/2023			Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2OAS Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify)		
Phone: 314-298-8566(Tel) 314-298-8757(Fax)			TAT Requested (days):			Analysis Requested:		
Email:			PO #:			90.4/0/PreSep, 0 Standard Target List		
Project Name: Ash Pond			WO #:			Perform MS/MSD (Yes or No)		
Site:			Project #: 86001746			Field Filtered Sample (Yes or No)		
			SSOW#:			Total Number of Containers		
Sample Identification - Client ID (Lab ID)								
Sample ID	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=Water, S=Solid, O=Soil, T=Tissue, A=Air)	Preservation Code	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Special Instructions/Note:
AP-36 (860-43774-8)	2/21/23	09:55 Central	Water	Water		X		
MW-03 (860-43774-9)	2/21/23	09:05 Central	Water	Water		X		
PZ-05 (860-43774-10)	2/21/23	12:50 Central	Water	Water		X		
PZ-06 (860-43774-11)	2/21/23	09:00 Central	Water	Water		X		
EB-01 (860-43774-12)	2/21/23	09:25 Central	Water	Water		X		
DUP-02 (860-43774-13)	2/21/23	12:00 Central	Water	Water		X		
FB-02 (860-43774-14)	2/21/23	13:05 Central	Water	Water		X		
<p>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/test/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.</p>								
Possible Hazard Identification								
Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify) _____ Primary Deliverable Rank: 2 Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months								
Special Instructions/QC Requirements:								
Empty Kit Relinquished by: _____ Date: _____ Method of Shipment: _____								
Relinquished by: _____ Date/Time: _____ Received by: _____ Date/Time: _____ Company: _____								
Relinquished by: _____ Date/Time: _____ Received by: <i>Suma Worthington</i> Date/Time: FEB 27 2023 08:55:12 Company: _____								
Custody Seals Intact: _____ Custody Seal No.: _____ Cooler Temperature(s) °C and Other Remarks: _____								

Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler	Lab PM	Carrier Tracking No(s)	COC No:
4145 Greenbriar Dr Stafford, TX 77477 Phone: 281-240-4200		Kudchadkar, Sachin G	E-Mail: Sachin.Kudchadkar@et.eurofins.com	860-22281.1	860-22281.1
Shipping/Receiving		Phone	E-Mail: Sachin.Kudchadkar@et.eurofins.com	State of Origin: Texas	Page 1 of 2
Eurofins Environment Testing Northeast		Accreditations Required (See note) NELAP - Texas		Job #: 860-43774-1	Page 1 of 2
Address: 301 Alpha Drive, RIDC Park, Pittsburgh State, Zip: PA, 15238 Phone: 412-963-7058(Tel) 412-963-2468(Fax) Email:		Due Date Requested: 3/17/2023 TAT Requested (days):		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 Other: M - Hexane N - None O - AshNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify)	
Project Name: Ash Pond Site:		Project #: 86001746 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=water/oil, BT=Trace Acid)
PZ-02 (860-43774-1)	2/21/23	10:25 Central	Water		
PZ-03 (860-43774-2)	2/21/23	08:50 Central	Water		
PZ-03 (860-43774-2MS)	2/21/23	08:50 Central	MS		
PZ-03 (860-43774-2MSD)	2/21/23	08:50 Central	MSD		
AP-31 (860-43774-3)	2/21/23	08:30 Central	Water		
AP-32 (860-43774-4)	2/21/23	08:55 Central	Water		
AP-33 (860-43774-5)	2/21/23	10:30 Central	Water		
AP-34 (860-43774-6)	2/21/23	11:30 Central	Water		
AP-35 (860-43774-7)	2/21/23	10:35 Central	Water		
<p>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/test/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</p>					
<p>Possible Hazard Identification Unconfirmed <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</p>					
<p>Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2 Special Instructions/QC Requirements:</p>					
<p>Empty Kit Relinquished by: _____ Date: _____ Time: _____ Method of Shipment:</p>					
Relinquished by: _____		Received by: _____		Date/Time: _____	
Relinquished by: _____		Received by: _____		Date/Time: 2/24/22 1800Z	
Relinquished by: _____		Received by: _____		Date/Time: _____	
Custody Seals Intact: _____		Custody Seal No.: _____		Cooler Temp: _____	
Yes <input type="checkbox"/> No <input type="checkbox"/>					



Eurofins Houston

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

Chain of Custody Record



Environment Testing

Client Information (Sub Contract Lab)

Client Contact:
Shipping/Receiving
Company: Eurofins Eaton Analytical

Address: 110 S Hill Street,
City: South Bend
State, Zip: IN, 46617
Phone: 574-233-4777(Tel) 574-233-8207(Fax)
Email: 574-233-4777(Tel) 574-233-8207(Fax)

Project Name: Ash Pond
Site: SSSOW#:

Lab ID: Kutchadkar, Sachin G
E-Mail: Sachin.Kutchadkar@et.eurofins.com

Carrier Tracking No(s):
State or Origin: Texas

COG No: 860-22273-1
Page: Page 1 of 2

Job #: 860-43774-1
Preservation Codes:
A - HOL
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 - EDTA
M - Hexane
N - None
O - AsNaO2
P - Na2OAS
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecyl/drate
U - Acetone
V - MCAA
W - PH 4-5
Y - Trizma
Z - other (specify)

Due Date Requested: 3/22/2023
TAT Requested (days):

PO #: W/O #:
Project #: 86001746
SSOW#:

Accreditations Required (See note):
NELAP - Texas

Analysis Requested

Field Filtered Sample (Yes or No)
Perform MS/MSD (Yes or No)

SM7500_Ra_B/Red_Prep Radium 226

Total Number of containers
Special Instructions/Note:

Sample ID	Sample Date	Sample Time	Sample Type (G=Comp, G=grab)	Matrix (M=Water, S=Soil, O=Organic, A=Air)	Preservation Code	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Analysis Requested	Total Number of containers	Special Instructions/Note
PZ-02 (860-43774-1)	2/21/23	10:25	Central	Water		X			1	
PZ-03 (860-43774-2)	2/21/23	08:50	Central	Water		X			1	
PZ-03 (860-43774-2MS)	2/21/23	08:50	Central	Water		X			1	
PZ-03 (860-43774-2MSD)	2/21/23	08:50	Central	Water	MSD	X			1	
AP-31 (860-43774-3)	2/21/23	08:30	Central	Water		X			1	
AP-32 (860-43774-4)	2/21/23	09:55	Central	Water		X			1	
AP-33 (860-43774-5)	2/21/23	10:30	Central	Water		X			1	
AP-34 (860-43774-6)	2/21/23	11:30	Central	Water		X			1	
AP-35 (860-43774-7)	2/21/23	10:35	Central	Water		X			1	red

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 (or analysis/estimation 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

Deliverable Requested: I, II, III, IV, Other (specify)

Primary Deliverable Rank: 2

Date:

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Special Instructions/QC Requirements:

Method of Shipment:

Return To Client Disposal By Lab Archive For

Months

Relinquished by: *YCPRS*

Date/Time: 2/24/23

Date/Time: 1700

Company: E

Company: E

Received by: *[Signature]*

Received by: *[Signature]*

Received by: *[Signature]*

Received by: *[Signature]*

Date/Time: 2/25/23

Date/Time: 0900

Company: E

Company: E

Relinquished by: *[Signature]*

Date/Time:

Date/Time:

Company:

Company:

Received by:

Received by:

Received by:

Received by:

Date/Time:

Date/Time:

Company:

Company:

Custody Seals Intact: Yes 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



Environment Testing

Client Information (Sub Contract Lab)

Client Contact: Shipping/Receiving
Company: Eurofins Eaton Analytical
Address: 110 S Hill Street,
City: South Bend
State, Zip: IN, 46617
Phone: 574-233-4777 (Tel) 574-233-8207 (Fax)
Email: Project #: 86001746
Site: Ash Pond
SSOW#: 86001746

Lab PIN: Kuchchadkar, Sachin G
E-Mail: Sachin.Kuchchadkar@et.eurofins.com
Accreditations Required (See note): NELAP - Texas

Carrier Tracking No(s):
State of Origin: Texas

COC No: 860-22273.2
Page: Page 2 of 2
Job #: 860-43774-1

Preservation Codes:
A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - NaOH
G - Anchoir
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsHAc2
P - Na2CO3
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecylhydrate
U - Acetone
V - MCAA
W - PH 4.5
Y - Trizma
Z - other (specify)

Due Date Requested: 3/22/2023
TAT Requested (days):

Analysis Requested

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:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=Water, S=Soil, O=Organic, BI=Inorganic, Anal)	Preservation Code	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:
AP-36 (860-43774-8)	2/21/23	09:55	Central	Water			X		1	
MM-03 (860-43774-9)	2/21/23	09:05	Central	Water			X		1	
PZ-05 (860-43774-10)	2/21/23	12:50	Central	Water			X		1	
PZ-06 (860-43774-11)	2/21/23	09:00	Central	Water			X		1	
EB-01 (860-43774-12)	2/21/23	09:25	Central	Water			X		1	acid ops
DUP-02 (860-43774-13)	2/21/23	12:00	Central	Water			X		1	acid ops
FB-02 (860-43774-14)	2/21/23	13:05	Central	Water			X		1	acid ops

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/testing/analysis, 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 Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification

Unconfirmed

Deliverable Requested: I, II, III, IV, Other (specify)

Primary Deliverable Rank: 2

Special Instructions/QC Requirements:

Method of Shipment:

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

Empty Kit Relinquished by: _____ Date: _____ Time: _____

Relinquished by: *YCPRS* Date/Time: *2/24/23 1700* Company: *EE* Received by: *[Signature]* Date/Time: *2/25/23 0800* Company: *EE*

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:

Login Sample Receipt Checklist

Client: GSI Environmental, Inc

Job Number: 860-43774-1

Login Number: 43774

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	

Login Sample Receipt Checklist

Client: GSI Environmental, Inc

Job Number: 860-43774-1

Login Number: 43774

List Number: 2

Creator: Wojcik, Mary

List Source: Eurofins Eaton Analytical South Bend

List Creation: 02/25/23 11:51 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.	False	Thermal preservation not required.
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: 860-43774-1

Login Number: 43774
List Number: 3
Creator: Kovitch, Christina M

List Source: Eurofins Pittsburgh
List Creation: 02/25/23 03:42 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	



Login Sample Receipt Checklist

Client: GSI Environmental, Inc

Job Number: 860-43774-1

Login Number: 43774
List Number: 4
Creator: Worthington, Sierra M

List Source: Eurofins St. Louis
List Creation: 02/28/23 07:50 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.	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?	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	



DATA USABILITY SUMMARY

February 2023 Sampling Event (Job ID: 860-43780-1)

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 21 February 2023**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 (EET PIT) laboratory and the radiological analyses were conducted by the Eurofins St. Louis (EET SL) and the Eurofins Eaton Analytical South Bend (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: T104704215-23-50, T104704528, T104704193 and T104704187-22-16 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 6020A – Metals (Inductively Coupled Plasma [ICP]/Mass Spectrometry[MS])
- Method 300.0 – Anions, Ion Chromatography
- 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 (RG-366/TRRP-13):

Analytes	MS/MSD		LCS/LCSD		Lab Dup
	% R	RPD	% R	RPD	RPD
Metals	75 – 125	20	80 – 120	–	–
Inorganic Anions	90 – 110	20	90 – 110	20	–
Alkalinity	–	–	85 – 115	20	20
Total Dissolved Solids (TDS)	–	–	80 – 120	10	10
Radium-228	60 – 140	1	75 – 125	1	–
Radium-226	80 – 120	–	90 – 110	–	–

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 the C-O-C are listed below.

- The sample identified as DUP-03 on the C-O-C is a field duplicate of sample EP-33.

- The sample identified as EW-04 was mislabeled in the lab report. This data corresponds to well MW-04, as seen on the COC.

Items related to sample preparation are listed below.

- All twelve samples by Method 6020A were diluted (5x-100x) due to the nature of the sample matrix. Elevated RLs are provided.
- Samples EP-32, EP-33, EP-34, EP-35, EP-36, EP-37, EP-38, EW-04, EB-02, DUP-03 and FB-03 by Method 6020A were diluted (5x-100x) to bring the concentration of target analytes within the calibration range. Elevated RLs are provided.

Finding: No qualifiers were added per these criteria.

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 method blank for analytical batches 436424 and 437655 contained Boron above the MDL. This target analyte concentration was less than the RL; therefore, re-extraction and/or reanalysis of samples was not performed by the laboratory. Affected samples were qualified with a “B” by the laboratory and were detected at concentrations that were greater than five times (5X) the method blank concentration. Therefore, no additional qualifiers were issued to affected results.

Field Blanks

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

- Chloride and Sulfate 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 and Sulfate that were greater than 5X the associated field blank concentration and did not require qualifiers.
- Chloride, Sulfate and Radium-228 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 Chloride, Sulfate and Radium-228 that were greater than 5X the associated field blank concentration, except for Radium-228 in EP-31, EP-33, EP-35, EP-37, EP-38, EW-04 and DUP-03. Those samples that contained Chloride, Sulfate and Radium-228 concentrations that were greater than 5X the method blank concentration did not require qualifiers.

Finding: “JH” qualifiers were added to Radium-228 concentrations of EP-31, EP-33, EP-35, EP-37, EP-38, EW-04 and DUP-03 because it was detected at a concentration that was less than 5X the blank concentration in each of those samples.

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 batches 860-92696, 860-437655 and 860-436424 analyzed using sample EP-31 were outside control limits for Sulfate (MS/MSD), Boron (MS/MSD), and Calcium (MS/MSD). Recoveries of Sulfate in the MS/MSD samples were both 144%, above the desired range of 90-110%. Recoveries of Boron in the MS/MSD samples were 58% and 135%, respectively, outside of the desired range of 75-125%. Recoveries of Calcium in the MS/MSD samples were -5% and 238%, respectively, outside of the desired range of 75-125%. Sample matrix interference is suspected because the associated laboratory control sample/laboratory control sample duplicate (LCS/LCSD) recovery was 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 matrix spike duplicate (MSD) for sample EP-31 (860-43780-1) exceeded the linear range for silicon. This was due to the spiking level onto the parent sample. No qualifiers were added as part of this evaluation.

Findings: 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, except for Radium-228, 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 3.

Finding: Field duplicate RPD for Radium-228 was outside specifications (RPD 61.6%). Therefore “J” qualifiers were added to the Radium-228 results for EP-33 and DUP-03.

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 2).

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/rq-366-trrp-13.pdf

TABLES

TABLE 1
Cross-Reference Field Sample and Laboratory Identifications

Sample Date	Lab	Lab Sample ID	Field Sample ID	Matrix
2/21/2023	EET HOU/EET PIT/EET SL/EA SB	860-43780-1	EP-31	Water
2/21/2023	EET HOU/EET PIT/EET SL/EA SB	860-43780-2	EP-32	Water
2/21/2023	EET HOU/EET PIT/EET SL/EA SB	860-43780-3	EP-33	Water
2/21/2023	EET HOU/EET PIT/EET SL/EA SB	860-43780-4	EP-34	Water
2/21/2023	EET HOU/EET PIT/EET SL/EA SB	860-43780-5	EP-35	Water
2/21/2023	EET HOU/EET PIT/EET SL/EA SB	860-43780-6	EP-36	Water
2/21/2023	EET HOU/EET PIT/EET SL/EA SB	860-43780-7	EP-37	Water
2/21/2023	EET HOU/EET PIT/EET SL/EA SB	860-43780-8	EP-38	Water
2/21/2023	EET HOU/EET PIT/EET SL/EA SB	860-43780-9	MW-04	Water
2/21/2023	EET HOU/EET PIT/EET SL/EA SB	860-43780-10	EB-02	Water
2/21/2023	EET HOU/EET PIT/EET SL/EA SB	860-43780-11	DUP-03	Water
2/21/2023	EET HOU/EET PIT/EET SL/EA SB	860-43780-12	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 Analytical South Bend, South Bend, Indiana

TABLE 2
Qualifiers Added During Data Usability Review

Sample ID	Analyte	Lab Result	Unit	DUS Qualifier or Bias Code	Reason for Qualification	Prep Batch Number	Report Number
EP-33	Radium-228	2.76	pCi/L	JH	FD RPD > 30%; < 5X FB concentration	603856	860-43780-1
DUP-03	Radium-228	1.46	pCi/L	JH	FD RPD > 30%; < 5X FB concentration	603856	860-43780-1
EP-31	Radium-228	1.50	pCi/L	JH	< 5X FB concentration	603856	860-43780-1
EP-35	Radium-228	1.97	pCi/L	JH	< 5X FB concentration	603856	860-43780-1
EP-37	Radium-228	3.61	pCi/L	JH	< 5X FB concentration	603856	860-43780-1
EP-38	Radium-228	1.21	pCi/L	JH	< 5X FB concentration	603856	860-43780-1
MW-04	Radium-228	2.14	pCi/L	JH	< 5X FB concentration	603856	860-43780-1

Notes:

1. pCi/L: pico Curies per liter
2. JH: Estimated value, biased high
3. >30%: Greater than thirty percent
4. 5X: five times
5. FB: Field Blank
6. FD: Field Duplicate

TABLE 3
Field Duplicate Detections

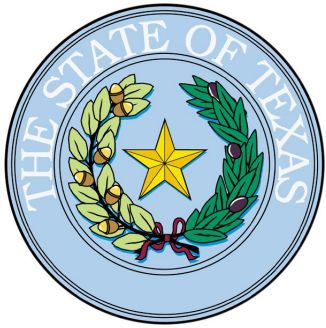
Analyte	MDL	Primary Sample Result (mg/L)	Field Duplicate Result (mg/L)	Relative Percent Difference
Chloride	20.0	2190	2220	1.4
Fluoride	10.0	10.0 U	10.0 U	0
Sulfate	10.9	3170	4230	28.6
Arsenic	0.00141	0.00141 U	0.00141 U	0
Boron	6.01	63.7 B	57.3 B	10.6
Barium	0.0157	0.0158 J	0.0157 U	0.6
Beryllium	0.00137	0.00137 U	0.00137 U	0
Calcium	0.635	521	467	10.9
Cadmium	0.00109	0.00109 U	0.00109 U	0
Chromium	0.00765	0.00765 U	0.00765 U	0
Cobalt	0.00131	0.00131 U	0.00131 U	0
Molybdenum	0.00305	0.0119 J	0.0108 J	9.7
Lead	0.00188	0.00188 U	0.00188 U	0
Antimony	0.00484	0.00484 U	0.00484 U	0
Thallium	0.00236	0.00236 U	0.00236 U	0
Selenium	0.00370	0.00370 U	0.00370 U	0
Lithium	0.00645	0.736	0.669	9.5
Mercury	0.130	0.130 U	0.130 U	0
Total Alkalinity	4.00	220	219	0.5
Bicarbonate Alkalinity as CaCO ₃	4.00	220	219	0.5
Total Dissolved Solids	100	8930	8510	4.8
Radium-228	0.540 pCi/L	2.76 pCi/L	1.46 pCi/L	61.6
Radium-226	0.540 pCi/L	0.950 pCi/L	0.880 pCi/L	7.7

Notes:

1. MDL: Method Detection Limit
2. mg/L: milligrams per liter; pCi/L: pico Curies per liter
3. $RPD = \frac{ABS(PR-FD)}{AVERAGE(PR+FD)} * 100$, where PR is the Primary Sample and FD is the Field Duplicate, where the MDL is substituted for results below detection.
4. ***Bold-italics*** = RPD greater than 30%.
5. U = analyte not detected at the stated limit; J = estimated result between the MDL and reporting limit; B= compound was found in the blank and sample
6. 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
4141-4147 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: T104704215-23-50

Effective Date: 3/14/2023

Expiration Date: 6/30/2023

A handwritten signature in black ink that reads "Erin E. Chamalor".

**Executive Director Texas Commission on
Environmental Quality**



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.

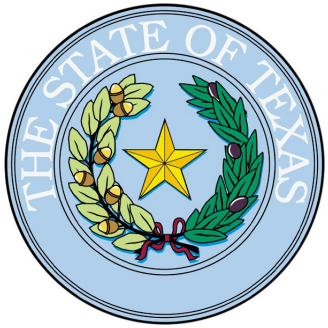
Certificate Number: T104704187-22-16

Effective Date: 1/1/2023

Expiration Date: 12/31/2023

A handwritten signature in black ink, appearing to read "T. G. Baker".

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.

Certificate Number: T104704528-23-12

Effective Date: 4/1/2023

Expiration Date: 3/31/2024

A handwritten signature in black ink that reads "Erin E. Chamallo".

**Executive Director Texas Commission on
Environmental Quality**



Texas Commission on Environmental Quality

NELAP-Recognized Laboratory Accreditation is hereby awarded to



Eurofins TestAmerica 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.

A handwritten signature in black ink, appearing to read "T. G. Baker".

Certificate Number: T104704193-22-21

Effective Date: 8/1/2022

Expiration Date: 7/31/2023

**Executive Director Texas Commission on
Environmental Quality**

Attachment B

Eurofins Houston – Stafford, Texas

Analytical Report

Job ID.: 860-43780-1

 **ANALYTICAL REPORT****PREPARED FOR**

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

Generated 6/26/2023 4:42:20 PM

JOB DESCRIPTION

Equilization Pond

JOB NUMBER

860-43780-1

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



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6/26/2023 4:42:20 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
Project/Site: Equilization Pond

Job ID: 860-43780-1

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.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

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

Rad

Qualifier	Qualifier Description
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
TEF	Toxicity Equivalent Factor (Dioxin)

Eurofins Houston

Definitions/Glossary

Client: GSI Environmental, Inc
Project/Site: Equilization Pond

Job ID: 860-43780-1

Glossary (Continued)

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

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Case Narrative

Client: GSI Environmental, Inc
Project/Site: Equilization Pond

Job ID: 860-43780-1

Job ID: 860-43780-1

Laboratory: Eurofins Houston

Narrative

Job Narrative 860-43780-1

Receipt

The samples were received on 2/22/2023 4:03 PM. 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 2.7°C, 3.3°C, 3.5°C and 3.7°C

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-92696 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample/laboratory control sample duplicate (LCS/LCSD) 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: The following samples were diluted due to the nature of the sample matrix: EP-31 (860-43780-1), EP-31 (860-43780-1[MS]), EP-31 (860-43780-1[MSD]), EP-32 (860-43780-2), EP-33 (860-43780-3), EP-34 (860-43780-4), EP-35 (860-43780-5), EP-36 (860-43780-6), EP-37 (860-43780-7), EP-38 (860-43780-8), EW-04 (860-43780-9), EB-02 (860-43780-10), DUP-03 (860-43780-11), FB-03 (860-43780-12), (860-43780-F-1-D PDS ^5) and (860-43780-F-1-D SD ^25). Elevated reporting limits (RLs) are provided.

Method 6020A: The matrix spike duplicate (MSD) for sample EP-31 (860-43780-1) exceeded the linear range for silicon. This was due to the spiking level onto the parent sample. Results are reported as is with this narrative.

Method 6020A: The following samples were diluted to bring the concentration of target analytes within the calibration range: EP-32 (860-43780-2), EP-33 (860-43780-3), EP-34 (860-43780-4), EP-35 (860-43780-5), EP-36 (860-43780-6), EP-37 (860-43780-7), EP-38 (860-43780-8), EW-04 (860-43780-9), EB-02 (860-43780-10), DUP-03 (860-43780-11) and FB-03 (860-43780-12). 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.

Gas Flow Proportional Counter

Method 904.0: Radium-228 batch 603856 Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. EP-31 (860-43780-1), EP-31 (860-43780-1[MS]), EP-31 (860-43780-1[MSD]), EP-32 (860-43780-2), EP-33 (860-43780-3), EP-34 (860-43780-4), EP-35 (860-43780-5), EP-36 (860-43780-6), EP-37 (860-43780-7), EP-38 (860-43780-8), EW-04 (860-43780-9), EB-02 (860-43780-10), DUP-03 (860-43780-11), FB-03 (860-43780-12), (LCS 160-603856/2-A), (LCSD 160-603856/22-A) and (MB 160-603856/1-A)

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: 860-43780-1

Client Sample ID: EP-31

Lab Sample ID: 860-43780-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	178		50.0	20.0	mg/L	100		300.0	Total/NA
Sulfate	3170	F1	50.0	10.9	mg/L	100		300.0	Total/NA
Arsenic	0.0193		0.00500	0.00141	mg/L	5		EPA 6020A	Total Recoverable
Boron	6.11	^+ B	0.400	0.301	mg/L	5		EPA 6020A	Total Recoverable
Beryllium	0.0656		0.00500	0.00137	mg/L	5		EPA 6020A	Total Recoverable
Calcium	498		2.50	0.635	mg/L	5		EPA 6020A	Total Recoverable
Cadmium	0.0140		0.00500	0.00109	mg/L	5		EPA 6020A	Total Recoverable
Cobalt	0.100		0.00250	0.00131	mg/L	5		EPA 6020A	Total Recoverable
Thallium	0.00280	J	0.00500	0.00236	mg/L	5		EPA 6020A	Total Recoverable
Selenium	0.00666	J	0.0250	0.00370	mg/L	5		EPA 6020A	Total Recoverable
Lithium	0.644		0.0250	0.00645	mg/L	5		EPA 6020A	Total Recoverable
Total Dissolved Solids	5210		40.0	40.0	mg/L	1		SM 2540C	Total/NA

Client Sample ID: EP-32

Lab Sample ID: 860-43780-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1720		50.0	20.0	mg/L	100		300.0	Total/NA
Sulfate	4140		50.0	10.9	mg/L	100		300.0	Total/NA
Boron	21.5	B	4.00	3.01	mg/L	50		EPA 6020A	Total Recoverable
Barium	0.0170	J	0.0500	0.0157	mg/L	5		EPA 6020A	Total Recoverable
Calcium	476		2.50	0.635	mg/L	5		EPA 6020A	Total Recoverable
Molybdenum	0.00883	J	0.0250	0.00305	mg/L	5		EPA 6020A	Total Recoverable
Lithium	1.15		0.0250	0.00645	mg/L	5		EPA 6020A	Total Recoverable
Total Alkalinity	179		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	179		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	9430		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: EP-33

Lab Sample ID: 860-43780-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	2190		50.0	20.0	mg/L	100		300.0	Total/NA
Sulfate	3170		50.0	10.9	mg/L	100		300.0	Total/NA
Boron	63.7	B	8.00	6.01	mg/L	100		EPA 6020A	Total Recoverable
Barium	0.0158	J	0.0500	0.0157	mg/L	5		EPA 6020A	Total Recoverable
Calcium	521		2.50	0.635	mg/L	5		EPA 6020A	Total Recoverable
Molybdenum	0.0119	J	0.0250	0.00305	mg/L	5		EPA 6020A	Total Recoverable
Lithium	0.736		0.0250	0.00645	mg/L	5		EPA 6020A	Total Recoverable
Total Alkalinity	220		4.00	4.00	mg/L	1		SM 2320B	Total/NA

This Detection Summary does not include radiochemical test results.

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Detection Summary

Client: GSI Environmental, Inc
Project/Site: Equilization Pond

Job ID: 860-43780-1

Client Sample ID: EP-33 (Continued)

Lab Sample ID: 860-43780-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bicarbonate Alkalinity as CaCO3	220		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-34

Lab Sample ID: 860-43780-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	3880		50.0	20.0	mg/L	100		300.0	Total/NA
Sulfate	3600		50.0	10.9	mg/L	100		300.0	Total/NA
Boron	55.8	B	4.00	3.01	mg/L	50		EPA 6020A	Total Recoverable
Barium	0.0222	J	0.0500	0.0157	mg/L	5		EPA 6020A	Total Recoverable
Calcium	588		2.50	0.635	mg/L	5		EPA 6020A	Total Recoverable
Molybdenum	0.0109	J	0.0250	0.00305	mg/L	5		EPA 6020A	Total Recoverable
Lithium	1.06		0.0250	0.00645	mg/L	5		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	11400		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: EP-35

Lab Sample ID: 860-43780-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	3580		50.0	20.0	mg/L	100		300.0	Total/NA
Sulfate	3470		50.0	10.9	mg/L	100		300.0	Total/NA
Boron	41.6	B	4.00	3.01	mg/L	50		EPA 6020A	Total Recoverable
Barium	0.0242	J	0.0500	0.0157	mg/L	5		EPA 6020A	Total Recoverable
Calcium	505		2.50	0.635	mg/L	5		EPA 6020A	Total Recoverable
Lithium	1.32		0.0250	0.00645	mg/L	5		EPA 6020A	Total Recoverable
Total Alkalinity	203		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	203		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	11000		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: EP-36

Lab Sample ID: 860-43780-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	3530		50.0	20.0	mg/L	100		300.0	Total/NA
Sulfate	2610		50.0	10.9	mg/L	100		300.0	Total/NA
Boron	28.6	B	4.00	3.01	mg/L	50		EPA 6020A	Total Recoverable
Barium	0.0274	J	0.0500	0.0157	mg/L	5		EPA 6020A	Total Recoverable
Calcium	544		2.50	0.635	mg/L	5		EPA 6020A	Total Recoverable
Lithium	1.18		0.0250	0.00645	mg/L	5		EPA 6020A	Total Recoverable
Total Alkalinity	203		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	203		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	9880		100	100	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

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Detection Summary

Client: GSI Environmental, Inc
Project/Site: Equilization Pond

Job ID: 860-43780-1

Client Sample ID: EP-37

Lab Sample ID: 860-43780-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	3190		50.0	20.0	mg/L	100		300.0	Total/NA
Sulfate	5480		50.0	10.9	mg/L	100		300.0	Total/NA
Boron	7.74	B	0.400	0.301	mg/L	5		EPA 6020A	Total Recoverable
Barium	0.0207	J	0.0500	0.0157	mg/L	5		EPA 6020A	Total Recoverable
Calcium	472		2.50	0.635	mg/L	5		EPA 6020A	Total Recoverable
Lithium	1.34		0.0250	0.00645	mg/L	5		EPA 6020A	Total Recoverable
Total Alkalinity	206		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	206		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	9360		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: EP-38

Lab Sample ID: 860-43780-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1140		50.0	20.0	mg/L	100		300.0	Total/NA
Sulfate	2350		50.0	10.9	mg/L	100		300.0	Total/NA
Boron	2.57	B	0.400	0.301	mg/L	5		EPA 6020A	Total Recoverable
Calcium	447		2.50	0.635	mg/L	5		EPA 6020A	Total Recoverable
Lithium	0.754		0.0250	0.00645	mg/L	5		EPA 6020A	Total Recoverable
Total Alkalinity	60.0		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	60.0		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	5110		40.0	40.0	mg/L	1		SM 2540C	Total/NA

Client Sample ID: EW-04

Lab Sample ID: 860-43780-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1620		50.0	20.0	mg/L	100		300.0	Total/NA
Sulfate	2330		50.0	10.9	mg/L	100		300.0	Total/NA
Boron	12.4	B	0.400	0.301	mg/L	5		EPA 6020A	Total Recoverable
Calcium	356		2.50	0.635	mg/L	5		EPA 6020A	Total Recoverable
Lithium	0.775		0.0250	0.00645	mg/L	5		EPA 6020A	Total Recoverable
Total Alkalinity	135		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	135		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	5940		40.0	40.0	mg/L	1		SM 2540C	Total/NA

Client Sample ID: EB-02

Lab Sample ID: 860-43780-10

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	Total/NA
Sulfate	0.146	J	0.500	0.109	mg/L	1		300.0	Total/NA

Client Sample ID: DUP-03

Lab Sample ID: 860-43780-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	2220		50.0	20.0	mg/L	100		300.0	Total/NA
Sulfate	4230		50.0	10.9	mg/L	100		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

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Detection Summary

Client: GSI Environmental, Inc
 Project/Site: Equilization Pond

Job ID: 860-43780-1

Client Sample ID: DUP-03 (Continued)

Lab Sample ID: 860-43780-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	57.3	B	2.00	1.50	mg/L	25		EPA 6020A	Total Recoverable
Calcium	467		2.50	0.635	mg/L	5		EPA 6020A	Total Recoverable
Molybdenum	0.0108	J	0.0250	0.00305	mg/L	5		EPA 6020A	Total Recoverable
Lithium	0.669		0.0250	0.00645	mg/L	5		EPA 6020A	Total Recoverable
Total Alkalinity	219		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	219		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	8510		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: FB-03

Lab Sample ID: 860-43780-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	0.206	J	0.500	0.200	mg/L	1		300.0	Total/NA
Sulfate	0.122	J	0.500	0.109	mg/L	1		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

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Client Sample Results

Client: GSI Environmental, Inc
Project/Site: Equilization Pond

Job ID: 860-43780-1

Client Sample ID: EP-31
Date Collected: 02/21/23 11:15
Date Received: 02/22/23 16:03

Lab Sample ID: 860-43780-1
Matrix: Water

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	178		50.0	20.0	mg/L			03/05/23 02:33	100
Fluoride	10.0	U	50.0	10.0	mg/L			03/05/23 02:33	100
Sulfate	3170	F1	50.0	10.9	mg/L			03/05/23 02:33	100

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0193		0.00500	0.00141	mg/L		03/23/23 10:55	05/26/23 15:31	5
Boron	6.11	^+ B	0.400	0.301	mg/L		03/23/23 10:55	06/10/23 00:16	5
Barium	0.0157	U	0.0500	0.0157	mg/L		03/23/23 10:55	05/26/23 15:31	5
Beryllium	0.0656		0.00500	0.00137	mg/L		03/23/23 10:55	05/26/23 15:31	5
Calcium	498		2.50	0.635	mg/L		03/23/23 10:55	05/26/23 15:31	5
Cadmium	0.0140		0.00500	0.00109	mg/L		03/23/23 10:55	05/26/23 15:31	5
Chromium	0.00765	U	0.0100	0.00765	mg/L		03/23/23 10:55	05/26/23 15:31	5
Cobalt	0.100		0.00250	0.00131	mg/L		03/23/23 10:55	05/26/23 15:31	5
Molybdenum	0.00305	U	0.0250	0.00305	mg/L		03/23/23 10:55	05/26/23 15:31	5
Lead	0.00188	U	0.00500	0.00188	mg/L		03/23/23 10:55	05/26/23 15:31	5
Antimony	0.00484	U	0.0100	0.00484	mg/L		03/23/23 10:55	05/26/23 15:31	5
Thallium	0.00280	J	0.00500	0.00236	mg/L		03/23/23 10:55	05/26/23 15:31	5
Selenium	0.00666	J	0.0250	0.00370	mg/L		03/23/23 10:55	05/26/23 15:31	5
Lithium	0.644		0.0250	0.00645	mg/L		03/23/23 10:55	05/26/23 15:31	5

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		03/17/23 12:19	03/20/23 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			03/04/23 13:36	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			03/04/23 13:36	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			03/04/23 13:36	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			03/04/23 13:36	1
Total Dissolved Solids (SM 2540C)	5210		40.0	40.0	mg/L			02/27/23 12:00	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	1.50		0.593	0.609	1.00	0.774	pCi/L	03/16/23 09:09	03/21/23 13:01	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.3		30 - 110					03/16/23 09:09	03/21/23 13:01	1
Y Carrier	81.5		30 - 110					03/16/23 09:09	03/21/23 13:01	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	0.260		0.250		1.00	0.240	pCi/L	03/21/23 13:59	04/03/23 11:20	1

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Client Sample Results

Client: GSI Environmental, Inc
Project/Site: Equilization Pond

Job ID: 860-43780-1

Client Sample ID: EP-32
Date Collected: 02/21/23 12:05
Date Received: 02/22/23 16:03

Lab Sample ID: 860-43780-2
Matrix: Water

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1720		50.0	20.0	mg/L			03/05/23 03:10	100
Fluoride	10.0	U	50.0	10.0	mg/L			03/05/23 03:10	100
Sulfate	4140		50.0	10.9	mg/L			03/05/23 03:10	100

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00141	U	0.00500	0.00141	mg/L		03/23/23 10:55	05/26/23 15:46	5
Boron	21.5	B	4.00	3.01	mg/L		03/23/23 10:55	06/15/23 13:38	50
Barium	0.0170	J	0.0500	0.0157	mg/L		03/23/23 10:55	05/26/23 15:46	5
Beryllium	0.00137	U	0.00500	0.00137	mg/L		03/23/23 10:55	05/26/23 15:46	5
Calcium	476		2.50	0.635	mg/L		03/23/23 10:55	05/26/23 15:46	5
Cadmium	0.00109	U	0.00500	0.00109	mg/L		03/23/23 10:55	05/26/23 15:46	5
Chromium	0.00765	U	0.0100	0.00765	mg/L		03/23/23 10:55	05/26/23 15:46	5
Cobalt	0.00131	U	0.00250	0.00131	mg/L		03/23/23 10:55	05/26/23 15:46	5
Molybdenum	0.00883	J	0.0250	0.00305	mg/L		03/23/23 10:55	05/26/23 15:46	5
Lead	0.00188	U	0.00500	0.00188	mg/L		03/23/23 10:55	05/26/23 15:46	5
Antimony	0.00484	U	0.0100	0.00484	mg/L		03/23/23 10:55	05/26/23 15:46	5
Thallium	0.00236	U	0.00500	0.00236	mg/L		03/23/23 10:55	05/26/23 15:46	5
Selenium	0.00370	U	0.0250	0.00370	mg/L		03/23/23 10:55	05/26/23 15:46	5
Lithium	1.15		0.0250	0.00645	mg/L		03/23/23 10:55	05/26/23 15:46	5

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		03/17/23 12:19	03/20/23 14:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	179		4.00	4.00	mg/L			03/03/23 12:02	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	179		4.00	4.00	mg/L			03/03/23 12:02	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			03/03/23 12:02	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			03/03/23 12:02	1
Total Dissolved Solids (SM 2540C)	9430		100	100	mg/L			02/27/23 12:00	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	6.14		0.746	0.936	1.00	0.425	pCi/L	03/16/23 09:09	03/21/23 13:01	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.5		30 - 110					03/16/23 09:09	03/21/23 13:01	1
Y Carrier	84.9		30 - 110					03/16/23 09:09	03/21/23 13:01	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	0.730		0.680		1.00	0.290	pCi/L	03/21/23 14:57	04/05/23 10:40	1

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Client Sample Results

Client: GSI Environmental, Inc
Project/Site: Equilization Pond

Job ID: 860-43780-1

Client Sample ID: EP-33
Date Collected: 02/21/23 11:45
Date Received: 02/22/23 16:03

Lab Sample ID: 860-43780-3
Matrix: Water

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2190		50.0	20.0	mg/L			03/05/23 03:23	100
Fluoride	10.0	U	50.0	10.0	mg/L			03/05/23 03:23	100
Sulfate	3170		50.0	10.9	mg/L			03/05/23 03:23	100

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00141	U	0.00500	0.00141	mg/L		03/23/23 10:55	05/26/23 16:04	5
Boron	63.7	B	8.00	6.01	mg/L		03/23/23 10:55	06/15/23 13:41	100
Barium	0.0158	J	0.0500	0.0157	mg/L		03/23/23 10:55	05/26/23 16:04	5
Beryllium	0.00137	U	0.00500	0.00137	mg/L		03/23/23 10:55	05/26/23 16:04	5
Calcium	521		2.50	0.635	mg/L		03/23/23 10:55	05/26/23 16:04	5
Cadmium	0.00109	U	0.00500	0.00109	mg/L		03/23/23 10:55	05/26/23 16:04	5
Chromium	0.00765	U	0.0100	0.00765	mg/L		03/23/23 10:55	05/26/23 16:04	5
Cobalt	0.00131	U	0.00250	0.00131	mg/L		03/23/23 10:55	05/26/23 16:04	5
Molybdenum	0.0119	J	0.0250	0.00305	mg/L		03/23/23 10:55	05/26/23 16:04	5
Lead	0.00188	U	0.00500	0.00188	mg/L		03/23/23 10:55	05/26/23 16:04	5
Antimony	0.00484	U	0.0100	0.00484	mg/L		03/23/23 10:55	05/26/23 16:04	5
Thallium	0.00236	U	0.00500	0.00236	mg/L		03/23/23 10:55	05/26/23 16:04	5
Selenium	0.00370	U	0.0250	0.00370	mg/L		03/23/23 10:55	05/26/23 16:04	5
Lithium	0.736		0.0250	0.00645	mg/L		03/23/23 10:55	05/26/23 16:04	5

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		03/17/23 12:19	03/20/23 14:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	220		4.00	4.00	mg/L			03/03/23 12:10	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	220		4.00	4.00	mg/L			03/03/23 12:10	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			03/03/23 12:10	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			03/03/23 12:10	1
Total Dissolved Solids (SM 2540C)	8930		100	100	mg/L			02/27/23 12:00	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	2.76		0.574	0.628	1.00	0.540	pCi/L	03/16/23 09:09	03/21/23 13:01	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.8		30 - 110					03/16/23 09:09	03/21/23 13:01	1
Y Carrier	81.5		30 - 110					03/16/23 09:09	03/21/23 13:01	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	0.950		0.650		1.00	0.540	pCi/L	03/21/23 13:50	03/28/23 08:09	1

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Client Sample Results

Client: GSI Environmental, Inc
Project/Site: Equilization Pond

Job ID: 860-43780-1

Client Sample ID: EP-34
Date Collected: 02/21/23 10:40
Date Received: 02/22/23 16:03

Lab Sample ID: 860-43780-4
Matrix: Water

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3880		50.0	20.0	mg/L			03/05/23 03:35	100
Fluoride	10.0	U	50.0	10.0	mg/L			03/05/23 03:35	100
Sulfate	3600		50.0	10.9	mg/L			03/05/23 03:35	100

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00141	U	0.00500	0.00141	mg/L		03/23/23 10:55	05/26/23 16:29	5
Boron	55.8	B	4.00	3.01	mg/L		03/23/23 10:55	06/15/23 13:47	50
Barium	0.0222	J	0.0500	0.0157	mg/L		03/23/23 10:55	05/26/23 16:29	5
Beryllium	0.00137	U	0.00500	0.00137	mg/L		03/23/23 10:55	05/26/23 16:29	5
Calcium	588		2.50	0.635	mg/L		03/23/23 10:55	05/26/23 16:29	5
Cadmium	0.00109	U	0.00500	0.00109	mg/L		03/23/23 10:55	05/26/23 16:29	5
Chromium	0.00765	U	0.0100	0.00765	mg/L		03/23/23 10:55	05/26/23 16:29	5
Cobalt	0.00131	U	0.00250	0.00131	mg/L		03/23/23 10:55	05/26/23 16:29	5
Molybdenum	0.0109	J	0.0250	0.00305	mg/L		03/23/23 10:55	05/26/23 16:29	5
Lead	0.00188	U	0.00500	0.00188	mg/L		03/23/23 10:55	05/26/23 16:29	5
Antimony	0.00484	U	0.0100	0.00484	mg/L		03/23/23 10:55	05/26/23 16:29	5
Thallium	0.00236	U	0.00500	0.00236	mg/L		03/23/23 10:55	05/26/23 16:29	5
Selenium	0.00370	U	0.0250	0.00370	mg/L		03/23/23 10:55	05/26/23 16:29	5
Lithium	1.06		0.0250	0.00645	mg/L		03/23/23 10:55	05/26/23 16:29	5

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		03/17/23 12:19	03/20/23 14:29	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			03/03/23 12:34	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	226		4.00	4.00	mg/L			03/03/23 12:34	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			03/03/23 12:34	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			03/03/23 12:34	1
Total Dissolved Solids (SM 2540C)	11400		100	100	mg/L			02/27/23 12:00	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	7.53		0.840	1.09	1.00	0.484	pCi/L	03/16/23 09:09	03/21/23 13:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.4		30 - 110					03/16/23 09:09	03/21/23 13:02	1
Y Carrier	83.7		30 - 110					03/16/23 09:09	03/21/23 13:02	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	1.76		0.840		1.00	0.340	pCi/L	03/21/23 14:57	04/05/23 10:40	1

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Client Sample Results

Client: GSI Environmental, Inc
Project/Site: Equilization Pond

Job ID: 860-43780-1

Client Sample ID: EP-35
Date Collected: 02/21/23 09:40
Date Received: 02/22/23 16:03

Lab Sample ID: 860-43780-5
Matrix: Water

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3580		50.0	20.0	mg/L			03/05/23 03:47	100
Fluoride	10.0	U	50.0	10.0	mg/L			03/05/23 03:47	100
Sulfate	3470		50.0	10.9	mg/L			03/05/23 03:47	100

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00141	U	0.00500	0.00141	mg/L		03/23/23 10:55	05/26/23 16:47	5
Boron	41.6	B	4.00	3.01	mg/L		03/23/23 10:55	06/15/23 13:53	50
Barium	0.0242	J	0.0500	0.0157	mg/L		03/23/23 10:55	05/26/23 16:47	5
Beryllium	0.00137	U	0.00500	0.00137	mg/L		03/23/23 10:55	05/26/23 16:47	5
Calcium	505		2.50	0.635	mg/L		03/23/23 10:55	05/26/23 16:47	5
Cadmium	0.00109	U	0.00500	0.00109	mg/L		03/23/23 10:55	05/26/23 16:47	5
Chromium	0.00765	U	0.0100	0.00765	mg/L		03/23/23 10:55	05/26/23 16:47	5
Cobalt	0.00131	U	0.00250	0.00131	mg/L		03/23/23 10:55	05/26/23 16:47	5
Molybdenum	0.00305	U	0.0250	0.00305	mg/L		03/23/23 10:55	05/26/23 16:47	5
Lead	0.00188	U	0.00500	0.00188	mg/L		03/23/23 10:55	05/26/23 16:47	5
Antimony	0.00484	U	0.0100	0.00484	mg/L		03/23/23 10:55	05/26/23 16:47	5
Thallium	0.00236	U	0.00500	0.00236	mg/L		03/23/23 10:55	05/26/23 16:47	5
Selenium	0.00370	U	0.0250	0.00370	mg/L		03/23/23 10:55	05/26/23 16:47	5
Lithium	1.32		0.0250	0.00645	mg/L		03/23/23 10:55	05/26/23 16:47	5

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		03/17/23 12:19	03/20/23 14:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	203		4.00	4.00	mg/L			03/03/23 12:42	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	203		4.00	4.00	mg/L			03/03/23 12:42	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			03/03/23 12:42	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			03/03/23 12:42	1
Total Dissolved Solids (SM 2540C)	11000		100	100	mg/L			02/27/23 12:00	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	1.97		0.717	0.739	1.00	0.889	pCi/L	03/16/23 09:09	03/21/23 13:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	53.1		30 - 110					03/16/23 09:09	03/21/23 13:02	1
Y Carrier	84.9		30 - 110					03/16/23 09:09	03/21/23 13:02	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	0.770		0.450		1.00	0.350	pCi/L	03/21/23 14:57	03/31/23 13:16	1

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Client Sample Results

Client: GSI Environmental, Inc
Project/Site: Equilization Pond

Job ID: 860-43780-1

Client Sample ID: EP-36
Date Collected: 02/21/23 08:45
Date Received: 02/22/23 16:03

Lab Sample ID: 860-43780-6
Matrix: Water

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3530		50.0	20.0	mg/L			03/05/23 04:24	100
Fluoride	10.0	U	50.0	10.0	mg/L			03/05/23 04:24	100
Sulfate	2610		50.0	10.9	mg/L			03/05/23 04:24	100

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00141	U	0.00500	0.00141	mg/L		03/23/23 10:55	05/26/23 17:05	5
Boron	28.6	B	4.00	3.01	mg/L		03/23/23 10:55	06/15/23 14:02	50
Barium	0.0274	J	0.0500	0.0157	mg/L		03/23/23 10:55	05/26/23 17:05	5
Beryllium	0.00137	U	0.00500	0.00137	mg/L		03/23/23 10:55	05/26/23 17:05	5
Calcium	544		2.50	0.635	mg/L		03/23/23 10:55	05/26/23 17:05	5
Cadmium	0.00109	U	0.00500	0.00109	mg/L		03/23/23 10:55	05/26/23 17:05	5
Chromium	0.00765	U	0.0100	0.00765	mg/L		03/23/23 10:55	05/26/23 17:05	5
Cobalt	0.00131	U	0.00250	0.00131	mg/L		03/23/23 10:55	05/26/23 17:05	5
Molybdenum	0.00305	U	0.0250	0.00305	mg/L		03/23/23 10:55	05/26/23 17:05	5
Lead	0.00188	U	0.00500	0.00188	mg/L		03/23/23 10:55	05/26/23 17:05	5
Antimony	0.00484	U	0.0100	0.00484	mg/L		03/23/23 10:55	05/26/23 17:05	5
Thallium	0.00236	U	0.00500	0.00236	mg/L		03/23/23 10:55	05/26/23 17:05	5
Selenium	0.00370	U	0.0250	0.00370	mg/L		03/23/23 10:55	05/26/23 17:05	5
Lithium	1.18		0.0250	0.00645	mg/L		03/23/23 10:55	05/26/23 17:05	5

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		03/17/23 12:19	03/20/23 14:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	203		4.00	4.00	mg/L			03/03/23 12:50	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	203		4.00	4.00	mg/L			03/03/23 12:50	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			03/03/23 12:50	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			03/03/23 12:50	1
Total Dissolved Solids (SM 2540C)	9880		100	100	mg/L			02/27/23 12:00	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	4.27		0.774	0.867	1.00	0.655	pCi/L	03/16/23 09:09	03/21/23 13:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	75.0		30 - 110					03/16/23 09:09	03/21/23 13:02	1
Y Carrier	81.1		30 - 110					03/16/23 09:09	03/21/23 13:02	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	0.370		0.720		1.00	0.320	pCi/L	03/21/23 14:57	04/05/23 10:40	1

Eurofins Houston

Client Sample Results

Client: GSI Environmental, Inc
Project/Site: Equilization Pond

Job ID: 860-43780-1

Client Sample ID: EP-37
Date Collected: 02/21/23 09:20
Date Received: 02/22/23 16:03

Lab Sample ID: 860-43780-7
Matrix: Water

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3190		50.0	20.0	mg/L			03/05/23 04:37	100
Fluoride	10.0	U	50.0	10.0	mg/L			03/05/23 04:37	100
Sulfate	5480		50.0	10.9	mg/L			03/05/23 04:37	100

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00141	U	0.00500	0.00141	mg/L		03/23/23 10:55	05/26/23 17:23	5
Boron	7.74	B	0.400	0.301	mg/L		03/23/23 10:55	06/15/23 14:07	5
Barium	0.0207	J	0.0500	0.0157	mg/L		03/23/23 10:55	05/26/23 17:23	5
Beryllium	0.00137	U	0.00500	0.00137	mg/L		03/23/23 10:55	05/26/23 17:23	5
Calcium	472		2.50	0.635	mg/L		03/23/23 10:55	05/26/23 17:23	5
Cadmium	0.00109	U	0.00500	0.00109	mg/L		03/23/23 10:55	05/26/23 17:23	5
Chromium	0.00765	U	0.0100	0.00765	mg/L		03/23/23 10:55	05/26/23 17:23	5
Cobalt	0.00131	U	0.00250	0.00131	mg/L		03/23/23 10:55	05/26/23 17:23	5
Molybdenum	0.00305	U	0.0250	0.00305	mg/L		03/23/23 10:55	05/26/23 17:23	5
Lead	0.00188	U	0.00500	0.00188	mg/L		03/23/23 10:55	05/26/23 17:23	5
Antimony	0.00484	U	0.0100	0.00484	mg/L		03/23/23 10:55	05/26/23 17:23	5
Thallium	0.00236	U	0.00500	0.00236	mg/L		03/23/23 10:55	05/26/23 17:23	5
Selenium	0.00370	U	0.0250	0.00370	mg/L		03/23/23 10:55	05/26/23 17:23	5
Lithium	1.34		0.0250	0.00645	mg/L		03/23/23 10:55	05/26/23 17:23	5

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		03/17/23 12:19	03/20/23 14:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	206		4.00	4.00	mg/L			03/03/23 12:58	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	206		4.00	4.00	mg/L			03/03/23 12:58	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			03/03/23 12:58	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			03/03/23 12:58	1
Total Dissolved Solids (SM 2540C)	9360		100	100	mg/L			02/27/23 12:00	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	3.61		0.681	0.757	1.00	0.645	pCi/L	03/16/23 09:09	03/21/23 13:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.8		30 - 110					03/16/23 09:09	03/21/23 13:02	1
Y Carrier	82.6		30 - 110					03/16/23 09:09	03/21/23 13:02	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	0.350	U	0.690		1.00	0.480	pCi/L	03/21/23 13:38	04/03/23 09:33	1

Eurofins Houston

Client Sample Results

Client: GSI Environmental, Inc
Project/Site: Equilization Pond

Job ID: 860-43780-1

Client Sample ID: EP-38
Date Collected: 02/21/23 11:10
Date Received: 02/22/23 16:03

Lab Sample ID: 860-43780-8
Matrix: Water

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1140		50.0	20.0	mg/L			03/05/23 04:49	100
Fluoride	10.0	U	50.0	10.0	mg/L			03/05/23 04:49	100
Sulfate	2350		50.0	10.9	mg/L			03/05/23 04:49	100

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00141	U	0.00500	0.00141	mg/L		03/23/23 10:55	05/26/23 17:26	5
Boron	2.57	B	0.400	0.301	mg/L		03/23/23 10:55	06/15/23 14:13	5
Barium	0.0157	U	0.0500	0.0157	mg/L		03/23/23 10:55	05/26/23 17:26	5
Beryllium	0.00137	U	0.00500	0.00137	mg/L		03/23/23 10:55	05/26/23 17:26	5
Calcium	447		2.50	0.635	mg/L		03/23/23 10:55	05/26/23 17:26	5
Cadmium	0.00109	U	0.00500	0.00109	mg/L		03/23/23 10:55	05/26/23 17:26	5
Chromium	0.00765	U	0.0100	0.00765	mg/L		03/23/23 10:55	05/26/23 17:26	5
Cobalt	0.00131	U	0.00250	0.00131	mg/L		03/23/23 10:55	05/26/23 17:26	5
Molybdenum	0.00305	U	0.0250	0.00305	mg/L		03/23/23 10:55	05/26/23 17:26	5
Lead	0.00188	U	0.00500	0.00188	mg/L		03/23/23 10:55	05/26/23 17:26	5
Antimony	0.00484	U	0.0100	0.00484	mg/L		03/23/23 10:55	05/26/23 17:26	5
Thallium	0.00236	U	0.00500	0.00236	mg/L		03/23/23 10:55	05/26/23 17:26	5
Selenium	0.00370	U	0.0250	0.00370	mg/L		03/23/23 10:55	05/26/23 17:26	5
Lithium	0.754		0.0250	0.00645	mg/L		03/23/23 10:55	05/26/23 17:26	5

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		03/17/23 12:19	03/20/23 14:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	60.0		4.00	4.00	mg/L			03/03/23 13:05	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	60.0		4.00	4.00	mg/L			03/03/23 13:05	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			03/03/23 13:05	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			03/03/23 13:05	1
Total Dissolved Solids (SM 2540C)	5110		40.0	40.0	mg/L			02/27/23 12:00	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	1.21		0.455	0.468	1.00	0.553	pCi/L	03/16/23 09:09	03/21/23 13:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.6		30 - 110					03/16/23 09:09	03/21/23 13:02	1
Y Carrier	83.4		30 - 110					03/16/23 09:09	03/21/23 13:02	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	0.690		0.450		1.00	0.370	pCi/L	03/21/23 14:51	03/30/23 10:02	1

Eurofins Houston

Client Sample Results

Client: GSI Environmental, Inc
Project/Site: Equilization Pond

Job ID: 860-43780-1

Client Sample ID: EW-04

Lab Sample ID: 860-43780-9

Date Collected: 02/21/23 10:05

Matrix: Water

Date Received: 02/22/23 16:03

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1620		50.0	20.0	mg/L			03/05/23 05:01	100
Fluoride	10.0	U	50.0	10.0	mg/L			03/05/23 05:01	100
Sulfate	2330		50.0	10.9	mg/L			03/05/23 05:01	100

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00141	U	0.00500	0.00141	mg/L		03/23/23 10:55	05/26/23 17:29	5
Boron	12.4	B	0.400	0.301	mg/L		03/23/23 10:55	06/15/23 14:19	5
Barium	0.0157	U	0.0500	0.0157	mg/L		03/23/23 10:55	05/26/23 17:29	5
Beryllium	0.00137	U	0.00500	0.00137	mg/L		03/23/23 10:55	05/26/23 17:29	5
Calcium	356		2.50	0.635	mg/L		03/23/23 10:55	05/26/23 17:29	5
Cadmium	0.00109	U	0.00500	0.00109	mg/L		03/23/23 10:55	05/26/23 17:29	5
Chromium	0.00765	U	0.0100	0.00765	mg/L		03/23/23 10:55	05/26/23 17:29	5
Cobalt	0.00131	U	0.00250	0.00131	mg/L		03/23/23 10:55	05/26/23 17:29	5
Molybdenum	0.00305	U	0.0250	0.00305	mg/L		03/23/23 10:55	05/26/23 17:29	5
Lead	0.00188	U	0.00500	0.00188	mg/L		03/23/23 10:55	05/26/23 17:29	5
Antimony	0.00484	U	0.0100	0.00484	mg/L		03/23/23 10:55	05/26/23 17:29	5
Thallium	0.00236	U	0.00500	0.00236	mg/L		03/23/23 10:55	05/26/23 17:29	5
Selenium	0.00370	U	0.0250	0.00370	mg/L		03/23/23 10:55	05/26/23 17:29	5
Lithium	0.775		0.0250	0.00645	mg/L		03/23/23 10:55	05/26/23 17:29	5

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		03/17/23 12:19	03/20/23 14:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	135		4.00	4.00	mg/L			03/03/23 13:19	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	135		4.00	4.00	mg/L			03/03/23 13:19	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			03/03/23 13:19	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			03/03/23 13:19	1
Total Dissolved Solids (SM 2540C)	5940		40.0	40.0	mg/L			02/27/23 12:00	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	2.14		0.584	0.616	1.00	0.697	pCi/L	03/16/23 09:09	03/21/23 13:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.1		30 - 110					03/16/23 09:09	03/21/23 13:02	1
Y Carrier	81.9		30 - 110					03/16/23 09:09	03/21/23 13:02	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	0.700		0.780		1.00	0.450	pCi/L	03/21/23 14:51	04/03/23 10:15	1

Eurofins Houston

Client Sample Results

Client: GSI Environmental, Inc
Project/Site: Equilization Pond

Job ID: 860-43780-1

Client Sample ID: EB-02
Date Collected: 02/21/23 10:25
Date Received: 02/22/23 16:03

Lab Sample ID: 860-43780-10
Matrix: Water

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.317	J	0.500	0.200	mg/L			03/05/23 05:14	1
Fluoride	0.100	U	0.500	0.100	mg/L			03/05/23 05:14	1
Sulfate	0.146	J	0.500	0.109	mg/L			03/05/23 05:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00141	U	0.00500	0.00141	mg/L		03/23/23 10:55	05/26/23 17:48	5
Boron	0.301	U	0.400	0.301	mg/L		03/23/23 10:55	06/15/23 14:22	5
Barium	0.0157	U	0.0500	0.0157	mg/L		03/23/23 10:55	05/26/23 17:48	5
Beryllium	0.00137	U	0.00500	0.00137	mg/L		03/23/23 10:55	05/26/23 17:48	5
Calcium	0.635	U	2.50	0.635	mg/L		03/23/23 10:55	05/26/23 17:48	5
Cadmium	0.00109	U	0.00500	0.00109	mg/L		03/23/23 10:55	05/26/23 17:48	5
Chromium	0.00765	U	0.0100	0.00765	mg/L		03/23/23 10:55	05/26/23 17:48	5
Cobalt	0.00131	U	0.00250	0.00131	mg/L		03/23/23 10:55	05/26/23 17:48	5
Molybdenum	0.00305	U	0.0250	0.00305	mg/L		03/23/23 10:55	05/26/23 17:48	5
Lead	0.00188	U	0.00500	0.00188	mg/L		03/23/23 10:55	05/26/23 17:48	5
Antimony	0.00484	U	0.0100	0.00484	mg/L		03/23/23 10:55	05/26/23 17:48	5
Thallium	0.00236	U	0.00500	0.00236	mg/L		03/23/23 10:55	05/26/23 17:48	5
Selenium	0.00370	U	0.0250	0.00370	mg/L		03/23/23 10:55	05/26/23 17:48	5
Lithium	0.00645	U	0.0250	0.00645	mg/L		03/23/23 10:55	05/26/23 17:48	5

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		03/17/23 12:19	03/20/23 14:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	5.00	U	5.00	5.00	mg/L			02/27/23 12:00	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	0.839		0.453	0.459	1.00	0.649	pCi/L	03/16/23 09:09	03/21/23 13:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.2		30 - 110					03/16/23 09:09	03/21/23 13:04	1
Y Carrier	78.5		30 - 110					03/16/23 09:09	03/21/23 13:04	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	0.280	U	0.380		1.00	0.420	pCi/L	03/21/23 14:57	03/31/23 13:16	1

Client Sample Results

Client: GSI Environmental, Inc
Project/Site: Equilization Pond

Job ID: 860-43780-1

Client Sample ID: DUP-03

Lab Sample ID: 860-43780-11

Date Collected: 02/21/23 11:00

Matrix: Water

Date Received: 02/22/23 16:03

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2220		50.0	20.0	mg/L			03/05/23 05:26	100
Fluoride	10.0	U	50.0	10.0	mg/L			03/05/23 05:26	100
Sulfate	4230		50.0	10.9	mg/L			03/05/23 05:26	100

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00141	U	0.00500	0.00141	mg/L		03/23/23 10:55	05/26/23 17:51	5
Boron	57.3	B	2.00	1.50	mg/L		03/23/23 10:55	06/15/23 14:25	25
Barium	0.0157	U	0.0500	0.0157	mg/L		03/23/23 10:55	05/26/23 17:51	5
Beryllium	0.00137	U	0.00500	0.00137	mg/L		03/23/23 10:55	05/26/23 17:51	5
Calcium	467		2.50	0.635	mg/L		03/23/23 10:55	05/26/23 17:51	5
Cadmium	0.00109	U	0.00500	0.00109	mg/L		03/23/23 10:55	05/26/23 17:51	5
Chromium	0.00765	U	0.0100	0.00765	mg/L		03/23/23 10:55	05/26/23 17:51	5
Cobalt	0.00131	U	0.00250	0.00131	mg/L		03/23/23 10:55	05/26/23 17:51	5
Molybdenum	0.0108	J	0.0250	0.00305	mg/L		03/23/23 10:55	05/26/23 17:51	5
Lead	0.00188	U	0.00500	0.00188	mg/L		03/23/23 10:55	05/26/23 17:51	5
Antimony	0.00484	U	0.0100	0.00484	mg/L		03/23/23 10:55	05/26/23 17:51	5
Thallium	0.00236	U	0.00500	0.00236	mg/L		03/23/23 10:55	05/26/23 17:51	5
Selenium	0.00370	U	0.0250	0.00370	mg/L		03/23/23 10:55	05/26/23 17:51	5
Lithium	0.669		0.0250	0.00645	mg/L		03/23/23 10:55	05/26/23 17:51	5

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		03/17/23 12:19	03/20/23 14:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	219		4.00	4.00	mg/L			03/03/23 13:27	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	219		4.00	4.00	mg/L			03/03/23 13:27	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			03/03/23 13:27	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			03/03/23 13:27	1
Total Dissolved Solids (SM 2540C)	8510		100	100	mg/L			02/27/23 12:00	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	1.46		0.436	0.457	1.00	0.496	pCi/L	03/16/23 09:09	03/21/23 13:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.6		30 - 110					03/16/23 09:09	03/21/23 13:04	1
Y Carrier	84.9		30 - 110					03/16/23 09:09	03/21/23 13:04	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	0.880		0.450		1.00	0.320	pCi/L	03/21/23 14:57	03/31/23 13:16	1

Eurofins Houston

Client Sample Results

Client: GSI Environmental, Inc
Project/Site: Equilization Pond

Job ID: 860-43780-1

Client Sample ID: FB-03
Date Collected: 02/21/23 09:05
Date Received: 02/22/23 16:03

Lab Sample ID: 860-43780-12
Matrix: Water

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.206	J	0.500	0.200	mg/L			03/05/23 05:39	1
Fluoride	0.100	U	0.500	0.100	mg/L			03/05/23 05:39	1
Sulfate	0.122	J	0.500	0.109	mg/L			03/05/23 05:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00141	U	0.00500	0.00141	mg/L		03/23/23 10:55	05/26/23 18:09	5
Boron	0.301	U	0.400	0.301	mg/L		03/23/23 10:55	06/15/23 14:34	5
Barium	0.0157	U	0.0500	0.0157	mg/L		03/23/23 10:55	05/26/23 18:09	5
Beryllium	0.00137	U	0.00500	0.00137	mg/L		03/23/23 10:55	05/26/23 18:09	5
Calcium	0.635	U	2.50	0.635	mg/L		03/23/23 10:55	05/26/23 18:09	5
Cadmium	0.00109	U	0.00500	0.00109	mg/L		03/23/23 10:55	05/26/23 18:09	5
Chromium	0.00765	U	0.0100	0.00765	mg/L		03/23/23 10:55	05/26/23 18:09	5
Cobalt	0.00131	U	0.00250	0.00131	mg/L		03/23/23 10:55	05/26/23 18:09	5
Molybdenum	0.00305	U	0.0250	0.00305	mg/L		03/23/23 10:55	05/26/23 18:09	5
Lead	0.00188	U	0.00500	0.00188	mg/L		03/23/23 10:55	05/26/23 18:09	5
Antimony	0.00484	U	0.0100	0.00484	mg/L		03/23/23 10:55	05/26/23 18:09	5
Thallium	0.00236	U	0.00500	0.00236	mg/L		03/23/23 10:55	05/26/23 18:09	5
Selenium	0.00370	U	0.0250	0.00370	mg/L		03/23/23 10:55	05/26/23 18:09	5
Lithium	0.00645	U	0.0250	0.00645	mg/L		03/23/23 10:55	05/26/23 18:09	5

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		03/17/23 12:19	03/20/23 14:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	5.00	U	5.00	5.00	mg/L			02/27/23 12:00	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	0.138	U	0.287	0.287	1.00	0.502	pCi/L	03/16/23 09:09	03/21/23 13:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.2		30 - 110					03/16/23 09:09	03/21/23 13:04	1
Y Carrier	84.5		30 - 110					03/16/23 09:09	03/21/23 13:04	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	0.430	U	0.540		1.00	0.590	pCi/L	03/21/23 14:51	03/30/23 10:02	1

Tracer/Carrier Summary

Client: GSI Environmental, Inc
Project/Site: Equilization Pond

Job ID: 860-43780-1

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

Percent Yield (Acceptance Limits)

Lab Sample ID	Client Sample ID	Ba	Y
		(30-110)	(30-110)
860-43780-1	EP-31	92.3	81.5
860-43780-1 MS	EP-31	94.8	83.7
860-43780-1 MSD	EP-31	89.9	81.9
860-43780-2	EP-32	92.5	84.9
860-43780-3	EP-33	92.8	81.5
860-43780-4	EP-34	96.4	83.7
860-43780-5	EP-35	53.1	84.9
860-43780-6	EP-36	75.0	81.1
860-43780-7	EP-37	85.8	82.6
860-43780-8	EP-38	78.6	83.4
860-43780-9	EW-04	88.1	81.9
860-43780-10	EB-02	83.2	78.5
860-43780-11	DUP-03	94.6	84.9
860-43780-12	FB-03	90.2	84.5
LCS 160-603856/2-A	Lab Control Sample	87.1	81.9
LCSD 160-603856/22-A	Lab Control Sample Dup	81.7	85.2
MB 160-603856/1-A	Method Blank	90.5	82.6

Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier

QC Sample Results

Client: GSI Environmental, Inc
Project/Site: Equilization Pond

Job ID: 860-43780-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-92696/3
Matrix: Water
Analysis Batch: 92696

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	0.200	U	0.500	0.200	mg/L			03/04/23 18:18	1
Fluoride	0.100	U	0.500	0.100	mg/L			03/04/23 18:18	1
Sulfate	0.109	U	0.500	0.109	mg/L			03/04/23 18:18	1

Lab Sample ID: MB 860-92696/40
Matrix: Water
Analysis Batch: 92696

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	0.200	U	0.500	0.200	mg/L			03/05/23 01:56	1
Fluoride	0.100	U	0.500	0.100	mg/L			03/05/23 01:56	1
Sulfate	0.109	U	0.500	0.109	mg/L			03/05/23 01:56	1

Lab Sample ID: LCS 860-92696/41
Matrix: Water
Analysis Batch: 92696

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	10.0	10.38		mg/L		104	90 - 110
Sulfate	10.0	10.45		mg/L		104	90 - 110

Lab Sample ID: LCSD 860-92696/42
Matrix: Water
Analysis Batch: 92696

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
Fluoride	10.0	10.47		mg/L		105	90 - 110	1	20
Sulfate	10.0	10.54		mg/L		105	90 - 110	1	20

Lab Sample ID: LLCS 860-92696/7
Matrix: Water
Analysis Batch: 92696

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.500	0.4885	J	mg/L		98	50 - 150
Sulfate	0.500	0.5299		mg/L		106	50 - 150

Lab Sample ID: 860-43780-1 MS
Matrix: Water
Analysis Batch: 92696

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
Fluoride	10.0	U	1000	999.3		mg/L		100	90 - 110
Sulfate	3170	F1	1000	4607	F1	mg/L		144	90 - 110

QC Sample Results

Client: GSI Environmental, Inc
Project/Site: Equilization Pond

Job ID: 860-43780-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 860-43780-1 MSD
Matrix: Water
Analysis Batch: 92696

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	178		1000	1248		mg/L		107	90 - 110	0	20
Fluoride	10.0	U	1000	1006		mg/L		101	90 - 110	1	20
Sulfate	3170	F1	1000	4611	F1	mg/L		144	90 - 110	0	20

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

Lab Sample ID: MB 180-430162/1-A
Matrix: Water
Analysis Batch: 436424

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 430162

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.000282	U	0.00100	0.000282	mg/L		03/23/23 10:55	05/26/23 14:43	1
Barium	0.00314	U	0.0100	0.00314	mg/L		03/23/23 10:55	05/26/23 14:43	1
Beryllium	0.000274	U	0.00100	0.000274	mg/L		03/23/23 10:55	05/26/23 14:43	1
Calcium	0.127	U	0.500	0.127	mg/L		03/23/23 10:55	05/26/23 14:43	1
Cadmium	0.000217	U	0.00100	0.000217	mg/L		03/23/23 10:55	05/26/23 14:43	1
Chromium	0.00153	U	0.00200	0.00153	mg/L		03/23/23 10:55	05/26/23 14:43	1
Cobalt	0.000261	U	0.000500	0.000261	mg/L		03/23/23 10:55	05/26/23 14:43	1
Molybdenum	0.000610	U	0.00500	0.000610	mg/L		03/23/23 10:55	05/26/23 14:43	1
Lead	0.000376	U	0.00100	0.000376	mg/L		03/23/23 10:55	05/26/23 14:43	1
Antimony	0.000967	U	0.00200	0.000967	mg/L		03/23/23 10:55	05/26/23 14:43	1
Thallium	0.000472	U	0.00100	0.000472	mg/L		03/23/23 10:55	05/26/23 14:43	1
Selenium	0.000739	U	0.00500	0.000739	mg/L		03/23/23 10:55	05/26/23 14:43	1
Lithium	0.00129	U	0.00500	0.00129	mg/L		03/23/23 10:55	05/26/23 14:43	1

Lab Sample ID: MB 180-430162/1-A
Matrix: Water
Analysis Batch: 437655

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 430162

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.000282	U	0.00100	0.000282	mg/L		03/23/23 10:55	06/09/23 22:54	1
Barium	0.00314	U	0.0100	0.00314	mg/L		03/23/23 10:55	06/09/23 22:54	1
Beryllium	0.000274	U	0.00100	0.000274	mg/L		03/23/23 10:55	06/09/23 22:54	1
Calcium	0.127	U	0.500	0.127	mg/L		03/23/23 10:55	06/09/23 22:54	1
Cadmium	0.000217	U	0.00100	0.000217	mg/L		03/23/23 10:55	06/09/23 22:54	1
Chromium	0.00153	U	0.00200	0.00153	mg/L		03/23/23 10:55	06/09/23 22:54	1
Cobalt	0.000261	U	0.000500	0.000261	mg/L		03/23/23 10:55	06/09/23 22:54	1
Molybdenum	0.000610	U	0.00500	0.000610	mg/L		03/23/23 10:55	06/09/23 22:54	1
Lead	0.000376	U	0.00100	0.000376	mg/L		03/23/23 10:55	06/09/23 22:54	1
Antimony	0.000967	U	0.00200	0.000967	mg/L		03/23/23 10:55	06/09/23 22:54	1
Thallium	0.000472	U	0.00100	0.000472	mg/L		03/23/23 10:55	06/09/23 22:54	1
Selenium	0.000739	U	0.00500	0.000739	mg/L		03/23/23 10:55	06/09/23 22:54	1
Lithium	0.00129	U	0.00500	0.00129	mg/L		03/23/23 10:55	06/09/23 22:54	1

QC Sample Results

Client: GSI Environmental, Inc
Project/Site: Equilization Pond

Job ID: 860-43780-1

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

Lab Sample ID: LCS 180-430162/2-A
Matrix: Water
Analysis Batch: 436424

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 430162

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	1.00	0.9621		mg/L		96	80 - 120
Barium	1.00	1.051		mg/L		105	80 - 120
Beryllium	0.500	0.5469		mg/L		109	80 - 120
Calcium	25.0	27.81		mg/L		111	80 - 120
Cadmium	0.500	0.5388		mg/L		108	80 - 120
Chromium	0.500	0.5355		mg/L		107	80 - 120
Cobalt	0.500	0.4825		mg/L		97	80 - 120
Molybdenum	0.500	0.5349		mg/L		107	80 - 120
Lead	0.500	0.5312		mg/L		106	80 - 120
Antimony	0.250	0.2837		mg/L		113	80 - 120
Thallium	1.00	1.040		mg/L		104	80 - 120
Selenium	1.00	1.088		mg/L		109	80 - 120
Lithium	0.500	0.4889		mg/L		98	80 - 120

Lab Sample ID: LCS 180-430162/2-A
Matrix: Water
Analysis Batch: 437655

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 430162

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	1.00	1.097		mg/L		110	80 - 120
Barium	1.00	1.143		mg/L		114	80 - 120
Beryllium	0.500	0.5500		mg/L		110	80 - 120
Cadmium	0.500	0.5637		mg/L		113	80 - 120
Chromium	0.500	0.5764		mg/L		115	80 - 120
Cobalt	0.500	0.5160		mg/L		103	80 - 120
Molybdenum	0.500	0.5636		mg/L		113	80 - 120
Lead	0.500	0.5678		mg/L		114	80 - 120
Antimony	0.250	0.2999		mg/L		120	80 - 120
Thallium	1.00	1.098		mg/L		110	80 - 120
Selenium	1.00	1.103		mg/L		110	80 - 120
Lithium	0.500	0.5725		mg/L		114	80 - 120

Lab Sample ID: 860-43780-1 MS
Matrix: Water
Analysis Batch: 436424

Client Sample ID: EP-31
Prep Type: Total Recoverable
Prep Batch: 430162

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.0193		1.00	0.9643		mg/L		95	75 - 125
Barium	0.0157	U	1.00	0.8861		mg/L		89	75 - 125
Beryllium	0.0656		0.500	0.5324		mg/L		93	75 - 125
Calcium	498		25.0	497.1	4	mg/L		-5	75 - 125
Cadmium	0.0140		0.500	0.4934		mg/L		96	75 - 125
Chromium	0.00765	U	0.500	0.4804		mg/L		96	75 - 125
Cobalt	0.100		0.500	0.5635		mg/L		93	75 - 125
Molybdenum	0.00305	U	0.500	0.5117		mg/L		102	75 - 125
Lead	0.00188	U	0.500	0.4800		mg/L		96	75 - 125
Antimony	0.00484	U	0.250	0.2593		mg/L		104	75 - 125
Thallium	0.00280	J	1.00	0.9438		mg/L		94	75 - 125
Selenium	0.00666	J	1.00	0.9722		mg/L		97	75 - 125

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QC Sample Results

Client: GSI Environmental, Inc
Project/Site: Equilization Pond

Job ID: 860-43780-1

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

Lab Sample ID: 860-43780-1 MS
Matrix: Water
Analysis Batch: 436424

Client Sample ID: EP-31
Prep Type: Total Recoverable
Prep Batch: 430162

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.644		0.500	1.057		mg/L		83	75 - 125

Lab Sample ID: 860-43780-1 MS
Matrix: Water
Analysis Batch: 437655

Client Sample ID: EP-31
Prep Type: Total Recoverable
Prep Batch: 430162

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	6.11	^+ B	1.25	6.840	^+ 4	mg/L		58	75 - 125

Lab Sample ID: 860-43780-1 MSD
Matrix: Water
Analysis Batch: 436424

Client Sample ID: EP-31
Prep Type: Total Recoverable
Prep Batch: 430162

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	0.0193		1.00	1.068		mg/L		105	75 - 125	10	20
Barium	0.0157	U	1.00	1.026		mg/L		103	75 - 125	15	20
Beryllium	0.0656		0.500	0.6075		mg/L		108	75 - 125	13	20
Calcium	498		25.0	557.7	4	mg/L		238	75 - 125	11	20
Cadmium	0.0140		0.500	0.5607		mg/L		109	75 - 125	13	20
Chromium	0.00765	U	0.500	0.5320		mg/L		106	75 - 125	10	20
Cobalt	0.100		0.500	0.6302		mg/L		106	75 - 125	11	20
Molybdenum	0.00305	U	0.500	0.5868		mg/L		117	75 - 125	14	20
Lead	0.00188	U	0.500	0.5362		mg/L		107	75 - 125	11	20
Antimony	0.00484	U	0.250	0.2920		mg/L		117	75 - 125	12	20
Thallium	0.00280	J	1.00	1.105		mg/L		110	75 - 125	16	20
Selenium	0.00666	J	1.00	1.103		mg/L		110	75 - 125	13	20
Lithium	0.644		0.500	1.202		mg/L		112	75 - 125	13	20

Lab Sample ID: 860-43780-1 MSD
Matrix: Water
Analysis Batch: 437655

Client Sample ID: EP-31
Prep Type: Total Recoverable
Prep Batch: 430162

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	6.11	^+ B	1.25	7.805	^+ 4	mg/L		135	75 - 125	13	20

Method: EPA 7470A - Mercury (CVAA)

Lab Sample ID: MB 180-429587/1-A
Matrix: Water
Analysis Batch: 429822

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 429587

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.130	U	0.200	0.130	ug/L		03/17/23 12:19	03/20/23 14:14	1

Lab Sample ID: LCS 180-429587/2-A
Matrix: Water
Analysis Batch: 429822

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 429587

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	2.50	2.519		ug/L		101	80 - 120

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QC Sample Results

Client: GSI Environmental, Inc
Project/Site: Equilization Pond

Job ID: 860-43780-1

Method: EPA 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: 860-43780-1 MS
Matrix: Water
Analysis Batch: 429822

Client Sample ID: EP-31
Prep Type: Total/NA
Prep Batch: 429587

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.130	U	1.00	0.9600		ug/L		96	75 - 125

Lab Sample ID: 860-43780-1 MSD
Matrix: Water
Analysis Batch: 429822

Client Sample ID: EP-31
Prep Type: Total/NA
Prep Batch: 429587

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	0.9310		ug/L		93	75 - 125	3	20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-92628/3
Matrix: Water
Analysis Batch: 92628

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			03/03/23 10:58	1
Bicarbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			03/03/23 10:58	1
Carbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			03/03/23 10:58	1
Hydroxide Alkalinity	4.00	U	4.00	4.00	mg/L			03/03/23 10:58	1

Lab Sample ID: LCS 860-92628/4
Matrix: Water
Analysis Batch: 92628

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	241.3		mg/L		97	85 - 115

Lab Sample ID: LCSD 860-92628/5
Matrix: Water
Analysis Batch: 92628

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	238.2		mg/L		95	85 - 115	1	20

Lab Sample ID: 860-43780-8 DU
Matrix: Water
Analysis Batch: 92628

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	60.0		63.33		mg/L		5	20
Bicarbonate Alkalinity as CaCO3	60.0		63.33		mg/L		5	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

QC Sample Results

Client: GSI Environmental, Inc
Project/Site: Equilization Pond

Job ID: 860-43780-1

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: MB 860-92774/3
Matrix: Water
Analysis Batch: 92774

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			03/04/23 11:09	1
Bicarbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			03/04/23 11:09	1
Carbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			03/04/23 11:09	1
Hydroxide Alkalinity	4.00	U	4.00	4.00	mg/L			03/04/23 11:09	1

Lab Sample ID: LCS 860-92774/4
Matrix: Water
Analysis Batch: 92774

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	233.9		mg/L		94	85 - 115

Lab Sample ID: LCSD 860-92774/5
Matrix: Water
Analysis Batch: 92774

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	238.6		mg/L		95	85 - 115	2	20

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

Lab Sample ID: MB 860-91848/1
Matrix: Water
Analysis Batch: 91848

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			02/27/23 12:00	1

Lab Sample ID: LCS 860-91848/2
Matrix: Water
Analysis Batch: 91848

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	848.0		mg/L		85	80 - 120

Lab Sample ID: LCSD 860-91848/3
Matrix: Water
Analysis Batch: 91848

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	823.0		mg/L		82	80 - 120	3	10

Lab Sample ID: LLCS 860-91848/4
Matrix: Water
Analysis Batch: 91848

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		80	50 - 150

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QC Sample Results

Client: GSI Environmental, Inc
Project/Site: Equilization Pond

Job ID: 860-43780-1

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

Lab Sample ID: 860-43780-1 DU
Matrix: Water
Analysis Batch: 91848

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	5210		5360		mg/L		3	10

Lab Sample ID: 860-43780-11 DU
Matrix: Water
Analysis Batch: 91848

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	8510		8570		mg/L		0.7	10

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-603856/1-A
Matrix: Water
Analysis Batch: 604475

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 603856

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.1855	U	0.311	0.312	1.00	0.533	pCi/L	03/16/23 09:09	03/21/23 13:00	1
Carrier	%Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.5		30 - 110					03/16/23 09:09	03/21/23 13:00	1
Y Carrier	82.6		30 - 110					03/16/23 09:09	03/21/23 13:00	1

Lab Sample ID: LCS 160-603856/2-A
Matrix: Water
Analysis Batch: 604475

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 603856

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-228	8.10	9.136		1.29	1.00	0.649	pCi/L	113	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	87.1		30 - 110						
Y Carrier	81.9		30 - 110						

Lab Sample ID: LCSD 160-603856/22-A
Matrix: Water
Analysis Batch: 604463

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 603856

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-228	8.10	8.309		1.22	1.00	0.588	pCi/L	103	75 - 125	0.33	1
Carrier	LCSD %Yield	LCSD Qualifier	Limits								
Ba Carrier	81.7		30 - 110								
Y Carrier	85.2		30 - 110								

QC Sample Results

Client: GSI Environmental, Inc
Project/Site: Equilization Pond

Job ID: 860-43780-1

Method: 904.0 - Radium-228 (GFPC) (Continued)

Lab Sample ID: 860-43780-1 MS
Matrix: Water
Analysis Batch: 604475

Client Sample ID: EP-31
Prep Type: Total/NA
Prep Batch: 603856

Analyte	Sample	Sample	Spike	MS	MS	Total	RL	MDC	Unit	%Rec	%Rec	Limits
	Result	Qual		Result	Qual							
Radium-228	1.50		10.9	15.17		1.93	1.00	0.612	pCi/L	125	60 - 140	
<i>MS MS</i>												
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>									
<i>Ba Carrier</i>	94.8		30 - 110									
<i>Y Carrier</i>	83.7		30 - 110									

Lab Sample ID: 860-43780-1 MSD
Matrix: Water
Analysis Batch: 604475

Client Sample ID: EP-31
Prep Type: Total/NA
Prep Batch: 603856

Analyte	Sample	Sample	Spike	MSD	MSD	Total	RL	MDC	Unit	%Rec	%Rec	Limits	RER	Limit
	Result	Qual		Result	Qual									
Radium-228	1.50		10.8	12.97		1.76	1.00	0.669	pCi/L	106	60 - 140	0.59	1	
<i>MSD MSD</i>														
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>											
<i>Ba Carrier</i>	89.9		30 - 110											
<i>Y Carrier</i>	81.9		30 - 110											

Method: SM7500 Ra B - Radium-226

Lab Sample ID: MB 810-52408/1-A
Matrix: Water
Analysis Batch: 53334

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 52408

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier								
Ra-226	0.1800	U	0.400		1.00	0.500	pCi/L	03/21/23 13:38	03/28/23 09:46	1

Lab Sample ID: LCS 810-52408/2-A
Matrix: Water
Analysis Batch: 53334

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 52408

Analyte	Spike	LCS	LCS	Total	RL	MDC	Unit	%Rec	%Rec	Limits
Ra-226	5.03	5.040			1.00	0.480	pCi/L	100	90 - 110	

Lab Sample ID: MB 810-52411/1-A
Matrix: Water
Analysis Batch: 53242

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 52411

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier								
Ra-226	0.1800	U	0.390		1.00	0.480	pCi/L	03/21/23 13:50	03/28/23 08:09	1

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QC Sample Results

Client: GSI Environmental, Inc
Project/Site: Equilization Pond

Job ID: 860-43780-1

Method: SM7500 Ra B - Radium-226 (Continued)

Lab Sample ID: LCS 810-52411/2-A
Matrix: Water
Analysis Batch: 53242

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 52411

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Ra-226	5.03	5.010			1.00	0.400	pCi/L	100	90 - 110

Lab Sample ID: MB 810-52416/1-A
Matrix: Water
Analysis Batch: 53049

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 52416

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra-226	0.2400	U	0.260		1.00	0.270	pCi/L	03/21/23 13:59	03/27/23 09:14	1

Lab Sample ID: LCS 810-52416/2-A
Matrix: Water
Analysis Batch: 53049

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 52416

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Ra-226	5.03	5.480			1.00	0.300	pCi/L	109	90 - 110

Lab Sample ID: 860-43780-1 MS
Matrix: Water
Analysis Batch: 53956

Client Sample ID: EP-31
Prep Type: Total/NA
Prep Batch: 52416

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Ra-226	0.260		5.59	4.690			1.00	0.180	pCi/L	84	80 - 120

Lab Sample ID: 860-43780-1 MSD
Matrix: Water
Analysis Batch: 53956

Client Sample ID: EP-31
Prep Type: Total/NA
Prep Batch: 52416

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	0.260		5.59	4.970			1.00	0.150	pCi/L	89	80 - 120	0.20	

Lab Sample ID: MB 810-52433/1-A
Matrix: Water
Analysis Batch: 53684

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 52433

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra-226	0.3000	U	0.420		1.00	0.470	pCi/L	03/21/23 14:51	03/30/23 10:02	1

Lab Sample ID: LCS 810-52433/2-A
Matrix: Water
Analysis Batch: 53684

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 52433

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Ra-226	5.03	5.410			1.00	0.480	pCi/L	108	90 - 110

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QC Sample Results

Client: GSI Environmental, Inc
Project/Site: Equilization Pond

Job ID: 860-43780-1

Method: SM7500 Ra B - Radium-226

Lab Sample ID: MB 810-52434/1-A
Matrix: Water
Analysis Batch: 53734

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 52434

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Ra-226	0.6000		0.460		1.00	0.420	pCi/L	03/21/23 14:57	03/31/23 13:16	1

Lab Sample ID: LCS 810-52434/2-A
Matrix: Water
Analysis Batch: 53734

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 52434

Analyte	Spike Added	LCS	LCS	Total	RL	MDC	Unit	%Rec	%Rec
		Result	Qual	Uncert. (2σ+/-)					Limits
Ra-226	5.03	4.880			1.00	0.290	pCi/L	97	90 - 110

QC Association Summary

Client: GSI Environmental, Inc
Project/Site: Equilization Pond

Job ID: 860-43780-1

HPLC/IC

Analysis Batch: 92696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-43780-1	EP-31	Total/NA	Water	300.0	
860-43780-2	EP-32	Total/NA	Water	300.0	
860-43780-3	EP-33	Total/NA	Water	300.0	
860-43780-4	EP-34	Total/NA	Water	300.0	
860-43780-5	EP-35	Total/NA	Water	300.0	
860-43780-6	EP-36	Total/NA	Water	300.0	
860-43780-7	EP-37	Total/NA	Water	300.0	
860-43780-8	EP-38	Total/NA	Water	300.0	
860-43780-9	EW-04	Total/NA	Water	300.0	
860-43780-10	EB-02	Total/NA	Water	300.0	
860-43780-11	DUP-03	Total/NA	Water	300.0	
860-43780-12	FB-03	Total/NA	Water	300.0	
MB 860-92696/3	Method Blank	Total/NA	Water	300.0	
MB 860-92696/40	Method Blank	Total/NA	Water	300.0	
LCS 860-92696/41	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-92696/42	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-92696/7	Lab Control Sample	Total/NA	Water	300.0	
860-43780-1 MS	EP-31	Total/NA	Water	300.0	
860-43780-1 MSD	EP-31	Total/NA	Water	300.0	

Metals

Prep Batch: 429587

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-43780-1	EP-31	Total/NA	Water	7470A	
860-43780-2	EP-32	Total/NA	Water	7470A	
860-43780-3	EP-33	Total/NA	Water	7470A	
860-43780-4	EP-34	Total/NA	Water	7470A	
860-43780-5	EP-35	Total/NA	Water	7470A	
860-43780-6	EP-36	Total/NA	Water	7470A	
860-43780-7	EP-37	Total/NA	Water	7470A	
860-43780-8	EP-38	Total/NA	Water	7470A	
860-43780-9	EW-04	Total/NA	Water	7470A	
860-43780-10	EB-02	Total/NA	Water	7470A	
860-43780-11	DUP-03	Total/NA	Water	7470A	
860-43780-12	FB-03	Total/NA	Water	7470A	
MB 180-429587/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-429587/2-A	Lab Control Sample	Total/NA	Water	7470A	
860-43780-1 MS	EP-31	Total/NA	Water	7470A	
860-43780-1 MSD	EP-31	Total/NA	Water	7470A	

Analysis Batch: 429822

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-43780-1	EP-31	Total/NA	Water	EPA 7470A	429587
860-43780-2	EP-32	Total/NA	Water	EPA 7470A	429587
860-43780-3	EP-33	Total/NA	Water	EPA 7470A	429587
860-43780-4	EP-34	Total/NA	Water	EPA 7470A	429587
860-43780-5	EP-35	Total/NA	Water	EPA 7470A	429587
860-43780-6	EP-36	Total/NA	Water	EPA 7470A	429587
860-43780-7	EP-37	Total/NA	Water	EPA 7470A	429587
860-43780-8	EP-38	Total/NA	Water	EPA 7470A	429587

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QC Association Summary

Client: GSI Environmental, Inc
Project/Site: Equilization Pond

Job ID: 860-43780-1

Metals (Continued)

Analysis Batch: 429822 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-43780-9	EW-04	Total/NA	Water	EPA 7470A	429587
860-43780-10	EB-02	Total/NA	Water	EPA 7470A	429587
860-43780-11	DUP-03	Total/NA	Water	EPA 7470A	429587
860-43780-12	FB-03	Total/NA	Water	EPA 7470A	429587
MB 180-429587/1-A	Method Blank	Total/NA	Water	EPA 7470A	429587
LCS 180-429587/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	429587
860-43780-1 MS	EP-31	Total/NA	Water	EPA 7470A	429587
860-43780-1 MSD	EP-31	Total/NA	Water	EPA 7470A	429587

Prep Batch: 430162

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-43780-1	EP-31	Total Recoverable	Water	3005A	
860-43780-2	EP-32	Total Recoverable	Water	3005A	
860-43780-3	EP-33	Total Recoverable	Water	3005A	
860-43780-4	EP-34	Total Recoverable	Water	3005A	
860-43780-5	EP-35	Total Recoverable	Water	3005A	
860-43780-6	EP-36	Total Recoverable	Water	3005A	
860-43780-7	EP-37	Total Recoverable	Water	3005A	
860-43780-8	EP-38	Total Recoverable	Water	3005A	
860-43780-9	EW-04	Total Recoverable	Water	3005A	
860-43780-10	EB-02	Total Recoverable	Water	3005A	
860-43780-11	DUP-03	Total Recoverable	Water	3005A	
860-43780-12	FB-03	Total Recoverable	Water	3005A	
MB 180-430162/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-430162/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
860-43780-1 MS	EP-31	Total Recoverable	Water	3005A	
860-43780-1 MSD	EP-31	Total Recoverable	Water	3005A	

Analysis Batch: 436424

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-43780-1	EP-31	Total Recoverable	Water	EPA 6020A	430162
860-43780-2	EP-32	Total Recoverable	Water	EPA 6020A	430162
860-43780-3	EP-33	Total Recoverable	Water	EPA 6020A	430162
860-43780-4	EP-34	Total Recoverable	Water	EPA 6020A	430162
860-43780-5	EP-35	Total Recoverable	Water	EPA 6020A	430162
860-43780-6	EP-36	Total Recoverable	Water	EPA 6020A	430162
860-43780-7	EP-37	Total Recoverable	Water	EPA 6020A	430162
860-43780-8	EP-38	Total Recoverable	Water	EPA 6020A	430162
860-43780-9	EW-04	Total Recoverable	Water	EPA 6020A	430162
860-43780-10	EB-02	Total Recoverable	Water	EPA 6020A	430162
860-43780-11	DUP-03	Total Recoverable	Water	EPA 6020A	430162
860-43780-12	FB-03	Total Recoverable	Water	EPA 6020A	430162
MB 180-430162/1-A	Method Blank	Total Recoverable	Water	EPA 6020A	430162
LCS 180-430162/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020A	430162
860-43780-1 MS	EP-31	Total Recoverable	Water	EPA 6020A	430162
860-43780-1 MSD	EP-31	Total Recoverable	Water	EPA 6020A	430162

Analysis Batch: 437655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-43780-1	EP-31	Total Recoverable	Water	EPA 6020A	430162
MB 180-430162/1-A	Method Blank	Total Recoverable	Water	EPA 6020A	430162

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QC Association Summary

Client: GSI Environmental, Inc
Project/Site: Equilization Pond

Job ID: 860-43780-1

Metals (Continued)

Analysis Batch: 437655 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 180-430162/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020A	430162
860-43780-1 MS	EP-31	Total Recoverable	Water	EPA 6020A	430162
860-43780-1 MSD	EP-31	Total Recoverable	Water	EPA 6020A	430162

Analysis Batch: 438170

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-43780-2	EP-32	Total Recoverable	Water	EPA 6020A	430162
860-43780-3	EP-33	Total Recoverable	Water	EPA 6020A	430162
860-43780-4	EP-34	Total Recoverable	Water	EPA 6020A	430162
860-43780-5	EP-35	Total Recoverable	Water	EPA 6020A	430162
860-43780-6	EP-36	Total Recoverable	Water	EPA 6020A	430162
860-43780-7	EP-37	Total Recoverable	Water	EPA 6020A	430162
860-43780-8	EP-38	Total Recoverable	Water	EPA 6020A	430162
860-43780-9	EW-04	Total Recoverable	Water	EPA 6020A	430162
860-43780-10	EB-02	Total Recoverable	Water	EPA 6020A	430162
860-43780-11	DUP-03	Total Recoverable	Water	EPA 6020A	430162
860-43780-12	FB-03	Total Recoverable	Water	EPA 6020A	430162

General Chemistry

Analysis Batch: 91848

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-43780-1	EP-31	Total/NA	Water	SM 2540C	
860-43780-2	EP-32	Total/NA	Water	SM 2540C	
860-43780-3	EP-33	Total/NA	Water	SM 2540C	
860-43780-4	EP-34	Total/NA	Water	SM 2540C	
860-43780-5	EP-35	Total/NA	Water	SM 2540C	
860-43780-6	EP-36	Total/NA	Water	SM 2540C	
860-43780-7	EP-37	Total/NA	Water	SM 2540C	
860-43780-8	EP-38	Total/NA	Water	SM 2540C	
860-43780-9	EW-04	Total/NA	Water	SM 2540C	
860-43780-10	EB-02	Total/NA	Water	SM 2540C	
860-43780-11	DUP-03	Total/NA	Water	SM 2540C	
860-43780-12	FB-03	Total/NA	Water	SM 2540C	
MB 860-91848/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-91848/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-91848/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
LLCS 860-91848/4	Lab Control Sample	Total/NA	Water	SM 2540C	
860-43780-1 DU	EP-31	Total/NA	Water	SM 2540C	
860-43780-11 DU	DUP-03	Total/NA	Water	SM 2540C	

Analysis Batch: 92628

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-43780-2	EP-32	Total/NA	Water	SM 2320B	
860-43780-3	EP-33	Total/NA	Water	SM 2320B	
860-43780-4	EP-34	Total/NA	Water	SM 2320B	
860-43780-5	EP-35	Total/NA	Water	SM 2320B	
860-43780-6	EP-36	Total/NA	Water	SM 2320B	
860-43780-7	EP-37	Total/NA	Water	SM 2320B	
860-43780-8	EP-38	Total/NA	Water	SM 2320B	
860-43780-9	EW-04	Total/NA	Water	SM 2320B	

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QC Association Summary

Client: GSI Environmental, Inc
Project/Site: Equilization Pond

Job ID: 860-43780-1

General Chemistry (Continued)

Analysis Batch: 92628 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-43780-11	DUP-03	Total/NA	Water	SM 2320B	
MB 860-92628/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-92628/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-92628/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
860-43780-8 DU	EP-38	Total/NA	Water	SM 2320B	

Analysis Batch: 92774

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-43780-1	EP-31	Total/NA	Water	SM 2320B	
MB 860-92774/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-92774/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-92774/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Rad

Prep Batch: 52408

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-43780-7	EP-37	Total/NA	Water	RAD Prep	
MB 810-52408/1-A	Method Blank	Total/NA	Water	RAD Prep	
LCS 810-52408/2-A	Lab Control Sample	Total/NA	Water	RAD Prep	

Prep Batch: 52411

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-43780-3	EP-33	Total/NA	Water	RAD Prep	
MB 810-52411/1-A	Method Blank	Total/NA	Water	RAD Prep	
LCS 810-52411/2-A	Lab Control Sample	Total/NA	Water	RAD Prep	

Prep Batch: 52416

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-43780-1	EP-31	Total/NA	Water	RAD Prep	
MB 810-52416/1-A	Method Blank	Total/NA	Water	RAD Prep	
LCS 810-52416/2-A	Lab Control Sample	Total/NA	Water	RAD Prep	
860-43780-1 MS	EP-31	Total/NA	Water	RAD Prep	
860-43780-1 MSD	EP-31	Total/NA	Water	RAD Prep	

Prep Batch: 52433

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-43780-8	EP-38	Total/NA	Water	RAD Prep	
860-43780-9	EW-04	Total/NA	Water	RAD Prep	
860-43780-12	FB-03	Total/NA	Water	RAD Prep	
MB 810-52433/1-A	Method Blank	Total/NA	Water	RAD Prep	
LCS 810-52433/2-A	Lab Control Sample	Total/NA	Water	RAD Prep	

Prep Batch: 52434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-43780-2	EP-32	Total/NA	Water	RAD Prep	
860-43780-4	EP-34	Total/NA	Water	RAD Prep	
860-43780-5	EP-35	Total/NA	Water	RAD Prep	
860-43780-6	EP-36	Total/NA	Water	RAD Prep	
860-43780-10	EB-02	Total/NA	Water	RAD Prep	
860-43780-11	DUP-03	Total/NA	Water	RAD Prep	

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QC Association Summary

Client: GSI Environmental, Inc
Project/Site: Equilization Pond

Job ID: 860-43780-1

Rad (Continued)

Prep Batch: 52434 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 810-52434/1-A	Method Blank	Total/NA	Water	RAD Prep	
LCS 810-52434/2-A	Lab Control Sample	Total/NA	Water	RAD Prep	

Prep Batch: 603856

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-43780-1	EP-31	Total/NA	Water	PrecSep_0	
860-43780-2	EP-32	Total/NA	Water	PrecSep_0	
860-43780-3	EP-33	Total/NA	Water	PrecSep_0	
860-43780-4	EP-34	Total/NA	Water	PrecSep_0	
860-43780-5	EP-35	Total/NA	Water	PrecSep_0	
860-43780-6	EP-36	Total/NA	Water	PrecSep_0	
860-43780-7	EP-37	Total/NA	Water	PrecSep_0	
860-43780-8	EP-38	Total/NA	Water	PrecSep_0	
860-43780-9	EW-04	Total/NA	Water	PrecSep_0	
860-43780-10	EB-02	Total/NA	Water	PrecSep_0	
860-43780-11	DUP-03	Total/NA	Water	PrecSep_0	
860-43780-12	FB-03	Total/NA	Water	PrecSep_0	
MB 160-603856/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-603856/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-603856/22-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	
860-43780-1 MS	EP-31	Total/NA	Water	PrecSep_0	
860-43780-1 MSD	EP-31	Total/NA	Water	PrecSep_0	

Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: Equilization Pond

Job ID: 860-43780-1

Client Sample ID: EP-31
Date Collected: 02/21/23 11:15
Date Received: 02/22/23 16:03

Lab Sample ID: 860-43780-1
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		100			92696	03/05/23 02:33	WP	EET HOU
Total Recoverable	Prep	3005A			25 mL	25 mL	430162	03/23/23 10:55	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020A		5			436424	05/26/23 15:31	RJR	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	430162	03/23/23 10:55	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020A		5			437655	06/10/23 00:16	KED	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	429587	03/17/23 12:19	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			429822	03/20/23 14:20	RJR	EET PIT
Total/NA	Analysis	SM 2320B		1			92774	03/04/23 13:36	TL	EET HOU
Total/NA	Analysis	SM 2540C		1	25 mL	200 mL	91848	02/27/23 12:00	HN	EET HOU
Total/NA	Prep	PrecSep_0			745.30 mL	1.0 g	603856	03/16/23 09:09	DJP	EET SL
Total/NA	Analysis	904.0		1			604475	03/21/23 13:01	FLC	EET SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	52416	03/21/23 13:59	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			53956	04/03/23 11:20	SM	EA SB

Completed: 04/03/23 11:50 ¹

Client Sample ID: EP-32
Date Collected: 02/21/23 12:05
Date Received: 02/22/23 16:03

Lab Sample ID: 860-43780-2
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		100			92696	03/05/23 03:10	WP	EET HOU
Total Recoverable	Prep	3005A			25 mL	25 mL	430162	03/23/23 10:55	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020A		5			436424	05/26/23 15:46	RJR	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	430162	03/23/23 10:55	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020A		50			438170	06/15/23 13:38	KED	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	429587	03/17/23 12:19	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			429822	03/20/23 14:27	RJR	EET PIT
Total/NA	Analysis	SM 2320B		1			92628	03/03/23 12:02	TL	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	91848	02/27/23 12:00	HN	EET HOU
Total/NA	Prep	PrecSep_0			1007.26 mL	1.0 g	603856	03/16/23 09:09	DJP	EET SL
Total/NA	Analysis	904.0		1			604475	03/21/23 13:01	FLC	EET SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	52434	03/21/23 14:57	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			54296	04/05/23 10:40	SM	EA SB

Completed: 04/05/23 11:10 ¹

Client Sample ID: EP-33
Date Collected: 02/21/23 11:45
Date Received: 02/22/23 16:03

Lab Sample ID: 860-43780-3
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		100			92696	03/05/23 03:23	WP	EET HOU
Total Recoverable	Prep	3005A			25 mL	25 mL	430162	03/23/23 10:55	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020A		5			436424	05/26/23 16:04	RJR	EET PIT

Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: Equilization Pond

Job ID: 860-43780-1

Client Sample ID: EP-33

Lab Sample ID: 860-43780-3

Date Collected: 02/21/23 11:45

Matrix: Water

Date Received: 02/22/23 16:03

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	430162	03/23/23 10:55	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020A		100			438170	06/15/23 13:41	KED	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	429587	03/17/23 12:19	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			429822	03/20/23 14:28	RJR	EET PIT
Total/NA	Analysis	SM 2320B		1			92628	03/03/23 12:10	TL	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	91848	02/27/23 12:00	HN	EET HOU
Total/NA	Prep	PrecSep_0			993.79 mL	1.0 g	603856	03/16/23 09:09	DJP	EET SL
Total/NA	Analysis	904.0		1			604475	03/21/23 13:01	FLC	EET SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	52411	03/21/23 13:50	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			53242	03/28/23 08:09	SM	EA SB
								Completed:	03/28/23 08:39 ¹	

Client Sample ID: EP-34

Lab Sample ID: 860-43780-4

Date Collected: 02/21/23 10:40

Matrix: Water

Date Received: 02/22/23 16:03

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			92696	03/05/23 03:35	WP	EET HOU
Total Recoverable	Prep	3005A			25 mL	25 mL	430162	03/23/23 10:55	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020A		5			436424	05/26/23 16:29	RJR	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	430162	03/23/23 10:55	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020A		50			438170	06/15/23 13:47	KED	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	429587	03/17/23 12:19	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			429822	03/20/23 14:29	RJR	EET PIT
Total/NA	Analysis	SM 2320B		1			92628	03/03/23 12:34	TL	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	91848	02/27/23 12:00	HN	EET HOU
Total/NA	Prep	PrecSep_0			994.70 mL	1.0 g	603856	03/16/23 09:09	DJP	EET SL
Total/NA	Analysis	904.0		1			604475	03/21/23 13:02	FLC	EET SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	52434	03/21/23 14:57	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			54296	04/05/23 10:40	SM	EA SB
								Completed:	04/05/23 11:10 ¹	

Client Sample ID: EP-35

Lab Sample ID: 860-43780-5

Date Collected: 02/21/23 09:40

Matrix: Water

Date Received: 02/22/23 16:03

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			92696	03/05/23 03:47	WP	EET HOU
Total Recoverable	Prep	3005A			25 mL	25 mL	430162	03/23/23 10:55	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020A		5			436424	05/26/23 16:47	RJR	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	430162	03/23/23 10:55	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020A		50			438170	06/15/23 13:53	KED	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	429587	03/17/23 12:19	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			429822	03/20/23 14:30	RJR	EET PIT

Eurofins Houston

Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: Equilization Pond

Job ID: 860-43780-1

Client Sample ID: EP-35
Date Collected: 02/21/23 09:40
Date Received: 02/22/23 16:03

Lab Sample ID: 860-43780-5
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	SM 2320B		1			92628	03/03/23 12:42	TL	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	91848	02/27/23 12:00	HN	EET HOU
Total/NA	Prep	PrecSep_0			1000.44 mL	1.0 g	603856	03/16/23 09:09	DJP	EET SL
Total/NA	Analysis	904.0		1			604475	03/21/23 13:02	FLC	EET SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	52434	03/21/23 14:57	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			53734	03/31/23 13:16	SM	EA SB
								Completed:	03/31/23 13:46 ¹	

Client Sample ID: EP-36
Date Collected: 02/21/23 08:45
Date Received: 02/22/23 16:03

Lab Sample ID: 860-43780-6
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		100			92696	03/05/23 04:24	WP	EET HOU
Total Recoverable	Prep	3005A			25 mL	25 mL	430162	03/23/23 10:55	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020A		5			436424	05/26/23 17:05	RJR	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	430162	03/23/23 10:55	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020A		50			438170	06/15/23 14:02	KED	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	429587	03/17/23 12:19	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			429822	03/20/23 14:31	RJR	EET PIT
Total/NA	Analysis	SM 2320B		1			92628	03/03/23 12:50	TL	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	91848	02/27/23 12:00	HN	EET HOU
Total/NA	Prep	PrecSep_0			995.96 mL	1.0 g	603856	03/16/23 09:09	DJP	EET SL
Total/NA	Analysis	904.0		1			604475	03/21/23 13:02	FLC	EET SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	52434	03/21/23 14:57	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			54296	04/05/23 10:40	SM	EA SB
								Completed:	04/05/23 11:10 ¹	

Client Sample ID: EP-37
Date Collected: 02/21/23 09:20
Date Received: 02/22/23 16:03

Lab Sample ID: 860-43780-7
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		100			92696	03/05/23 04:37	WP	EET HOU
Total Recoverable	Prep	3005A			25 mL	25 mL	430162	03/23/23 10:55	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020A		5			436424	05/26/23 17:23	RJR	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	430162	03/23/23 10:55	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020A		5			438170	06/15/23 14:07	KED	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	429587	03/17/23 12:19	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			429822	03/20/23 14:32	RJR	EET PIT
Total/NA	Analysis	SM 2320B		1			92628	03/03/23 12:58	TL	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	91848	02/27/23 12:00	HN	EET HOU
Total/NA	Prep	PrecSep_0			1009.83 mL	1.0 g	603856	03/16/23 09:09	DJP	EET SL
Total/NA	Analysis	904.0		1			604475	03/21/23 13:02	FLC	EET SL

Eurofins Houston

Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: Equilization Pond

Job ID: 860-43780-1

Client Sample ID: EP-37
Date Collected: 02/21/23 09:20
Date Received: 02/22/23 16:03

Lab Sample ID: 860-43780-7
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	RAD Prep			1.0 mL	1.0 mL	52408	03/21/23 13:38	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			53939	04/03/23 09:33	SM	EA SB
Completed: 04/03/23 10:03 ¹										

Client Sample ID: EP-38
Date Collected: 02/21/23 11:10
Date Received: 02/22/23 16:03

Lab Sample ID: 860-43780-8
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		100			92696	03/05/23 04:49	WP	EET HOU
Total Recoverable	Prep	3005A			25 mL	25 mL	430162	03/23/23 10:55	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020A		5			436424	05/26/23 17:26	RJR	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	430162	03/23/23 10:55	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020A		5			438170	06/15/23 14:13	KED	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	429587	03/17/23 12:19	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			429822	03/20/23 14:33	RJR	EET PIT
Total/NA	Analysis	SM 2320B		1			92628	03/03/23 13:05	TL	EET HOU
Total/NA	Analysis	SM 2540C		1	25 mL	200 mL	91848	02/27/23 12:00	HN	EET HOU
Total/NA	Prep	PrecSep_0			992.49 mL	1.0 g	603856	03/16/23 09:09	DJP	EET SL
Total/NA	Analysis	904.0		1			604475	03/21/23 13:02	FLC	EET SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	52433	03/21/23 14:51	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			53684	03/30/23 10:02	SM	EA SB
Completed: 03/30/23 10:32 ¹										

Client Sample ID: EW-04
Date Collected: 02/21/23 10:05
Date Received: 02/22/23 16:03

Lab Sample ID: 860-43780-9
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		100			92696	03/05/23 05:01	WP	EET HOU
Total Recoverable	Prep	3005A			25 mL	25 mL	430162	03/23/23 10:55	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020A		5			436424	05/26/23 17:29	RJR	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	430162	03/23/23 10:55	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020A		5			438170	06/15/23 14:19	KED	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	429587	03/17/23 12:19	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			429822	03/20/23 14:34	RJR	EET PIT
Total/NA	Analysis	SM 2320B		1			92628	03/03/23 13:19	TL	EET HOU
Total/NA	Analysis	SM 2540C		1	25 mL	200 mL	91848	02/27/23 12:00	HN	EET HOU
Total/NA	Prep	PrecSep_0			1003.24 mL	1.0 g	603856	03/16/23 09:09	DJP	EET SL
Total/NA	Analysis	904.0		1			604475	03/21/23 13:02	FLC	EET SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	52433	03/21/23 14:51	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			53943	04/03/23 10:15	SM	EA SB
Completed: 04/03/23 10:45 ¹										

Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: Equilization Pond

Job ID: 860-43780-1

Client Sample ID: EB-02
Date Collected: 02/21/23 10:25
Date Received: 02/22/23 16:03

Lab Sample ID: 860-43780-10
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		1			92696	03/05/23 05:14	WP	EET HOU
Total Recoverable	Prep	3005A			25 mL	25 mL	430162	03/23/23 10:55	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020A		5			436424	05/26/23 17:48	RJR	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	430162	03/23/23 10:55	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020A		5			438170	06/15/23 14:22	KED	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	429587	03/17/23 12:19	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			429822	03/20/23 14:35	RJR	EET PIT
Total/NA	Analysis	SM 2540C		1	200 mL	200 mL	91848	02/27/23 12:00	HN	EET HOU
Total/NA	Prep	PrecSep_0			1009.12 mL	1.0 g	603856	03/16/23 09:09	DJP	EET SL
Total/NA	Analysis	904.0		1			604463	03/21/23 13:04	FLC	EET SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	52434	03/21/23 14:57	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			53734	03/31/23 13:16	SM	EA SB
								Completed:	03/31/23 13:46 ¹	

Client Sample ID: DUP-03
Date Collected: 02/21/23 11:00
Date Received: 02/22/23 16:03

Lab Sample ID: 860-43780-11
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		100			92696	03/05/23 05:26	WP	EET HOU
Total Recoverable	Prep	3005A			25 mL	25 mL	430162	03/23/23 10:55	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020A		5			436424	05/26/23 17:51	RJR	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	430162	03/23/23 10:55	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020A		25			438170	06/15/23 14:25	KED	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	429587	03/17/23 12:19	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			429822	03/20/23 14:36	RJR	EET PIT
Total/NA	Analysis	SM 2320B		1			92628	03/03/23 13:27	TL	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	91848	02/27/23 12:00	HN	EET HOU
Total/NA	Prep	PrecSep_0			991.77 mL	1.0 g	603856	03/16/23 09:09	DJP	EET SL
Total/NA	Analysis	904.0		1			604463	03/21/23 13:04	FLC	EET SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	52434	03/21/23 14:57	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			53734	03/31/23 13:16	SM	EA SB
								Completed:	03/31/23 13:46 ¹	

Client Sample ID: FB-03
Date Collected: 02/21/23 09:05
Date Received: 02/22/23 16:03

Lab Sample ID: 860-43780-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			92696	03/05/23 05:39	WP	EET HOU
Total Recoverable	Prep	3005A			25 mL	25 mL	430162	03/23/23 10:55	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020A		5			436424	05/26/23 18:09	RJR	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	430162	03/23/23 10:55	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020A		5			438170	06/15/23 14:34	KED	EET PIT

Eurofins Houston

Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: Equilization Pond

Job ID: 860-43780-1

Client Sample ID: FB-03
Date Collected: 02/21/23 09:05
Date Received: 02/22/23 16:03

Lab Sample ID: 860-43780-12
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	7470A			25 mL	25 mL	429587	03/17/23 12:19	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			429822	03/20/23 14:40	RJR	EET PIT
Total/NA	Analysis	SM 2540C		1	200 mL	200 mL	91848	02/27/23 12:00	HN	EET HOU
Total/NA	Prep	PrecSep_0			997.22 mL	1.0 g	603856	03/16/23 09:09	DJP	EET SL
Total/NA	Analysis	904.0		1			604463	03/21/23 13:04	FLC	EET SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	52433	03/21/23 14:51	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			53684	03/30/23 10:02	SM	EA SB
								Completed: 03/30/23 10:32 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: Equilization Pond

Job ID: 860-43780-1

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	T104704215-23-50	03-13-23
<p>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.</p>			
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	07-31-24
Alabama	State	40700	06-30-23
Alaska	State	IN00035	06-30-23
Arizona	State	AZ0432	07-26-23
Arkansas (DW)	State	EPA IN00035	06-30-23
California	State	2920	06-30-23
Colorado	State	IN00035	02-29-24
Connecticut	State	PH-0132	03-31-22 *
Delaware (DW)	State	IN00035	06-30-23
Florida	NELAP	E87775	06-30-23
Georgia (DW)	State	929	06-30-23
Hawaii	State	IN035	06-30-23
Idaho (DW)	State	IN00035	12-31-23
IL Dept. of Public Health (Micro)	State	17767	06-30-23
Illinois	NELAP	200001	09-30-23
Indiana	State	C-71-01	12-31-25
Indiana (Micro)	State	M-76-07	12-31-25
Iowa	State	IA Lab #098	11-01-23
Kansas	NELAP	E-10233	10-31-23
Kentucky (DW)	State	KY90056	12-31-23
Louisiana (DW)	State	LA014	12-31-23
Maine	State	IN00035	05-01-23
Maryland	State	209	05-18-23
Massachusetts	State	M-IN035	06-30-23
MI - RadChem Recognition	State	9926	06-30-23
Michigan	State	9926	06-30-23
Minnesota	NELAP	1989807	12-31-23
Mississippi	State	IN00035	06-30-22 *
Missouri	State	880	09-30-24
Montana (DW)	State	CERT0026	01-02-24
Nebraska	State	NE-OS-05-04	06-30-23
Nevada	State	IN000352021-2	07-31-23
New Hampshire	NELAP	2124	11-05-23
New Jersey	NELAP	IN598	06-30-23
New Mexico	State	IN00035	06-30-23
New York	NELAP	11398	04-01-24
North Carolina (DW)	State	18700	07-31-23
North Dakota	State	R-035	06-30-23

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

Accreditation/Certification Summary

Client: GSI Environmental, Inc
Project/Site: Equilization Pond

Job ID: 860-43780-1

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
Ohio	State	87775	06-30-23
Oklahoma	NELAP	D9508	08-31-23
Oregon	NELAP	4156	09-16-23
Pennsylvania	NELAP	68-00466	04-30-24
Puerto Rico	State	IN00035	04-01-24
Rhode Island	State	LAO00343	12-30-23
South Carolina	State	95005001	06-30-23
South Dakota (DW)	State	IN00035	06-30-23
Tennessee	State	TN02973	06-30-23
Texas	NELAP	T104704187-22-16	12-31-23
Texas	TCEQ Water Supply	TX207	06-30-23
USEPA Reg X SDWA	US Federal Programs	IN00035	08-24-24
USEPA UCMR 5	US Federal Programs	IN00035	12-31-25
Utah	NELAP	IN00035	07-31-23
Vermont	State	VT-8775	11-15-23
Virginia	NELAP	460275	03-14-24
Washington	State	C837	01-01-24
West Virginia (DW)	State	9927 C	12-31-23
Wisconsin	State	999766900	08-31-23
Wisconsin (Micro)	State	10121	12-31-22 *
Wyoming	State	8TMS-L	06-30-23

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	06-25-23
California	State	2891	04-30-24
Connecticut	State	PH-0688	06-25-23
Florida	NELAP	E871008	06-25-23
Georgia	State	PA 02-00416	06-25-23
Illinois	NELAP	004375	06-30-24
Kansas	NELAP	E-10350	06-25-23
Kentucky (UST)	State	162013	04-30-23 *
Kentucky (WW)	State	KY98043	06-25-23
Louisiana	NELAP	04041	06-30-22 *
Louisiana (All)	NELAP	04041	06-25-23
Maine	State	PA00164	03-06-24
Minnesota	NELAP	042-999-482	06-25-23
New Hampshire	NELAP	2030	06-25-23
New Jersey	NELAP	PA005	06-25-23
New York	NELAP	11182	06-25-23
North Carolina (WW/SW)	State	434	12-31-23
North Dakota	State	R-227	04-30-24
Oregon	NELAP	PA-2151	02-06-24
Pennsylvania	NELAP	02-00416	06-25-23
Rhode Island	State	LAO00362	12-31-22 *
South Carolina	State	89014	04-30-23 *
Texas	NELAP	T104704528	06-25-23
US Fish & Wildlife	US Federal Programs	058448	03-31-24

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

Eurofins Houston

Accreditation/Certification Summary

Client: GSI Environmental, Inc
Project/Site: Equilization Pond

Job ID: 860-43780-1

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	06-21-24
Utah	NELAP	PA001462019-8	05-31-24
Virginia	NELAP	10043	06-25-23
West Virginia DEP	State	142	06-25-23
Wisconsin	State	998027800	08-31-23

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	07-31-23

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: Equilization Pond

Job ID: 860-43780-1

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: 860-43780-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-43780-1	EP-31	Water	02/21/23 11:15	02/22/23 16:03
860-43780-2	EP-32	Water	02/21/23 12:05	02/22/23 16:03
860-43780-3	EP-33	Water	02/21/23 11:45	02/22/23 16:03
860-43780-4	EP-34	Water	02/21/23 10:40	02/22/23 16:03
860-43780-5	EP-35	Water	02/21/23 09:40	02/22/23 16:03
860-43780-6	EP-36	Water	02/21/23 08:45	02/22/23 16:03
860-43780-7	EP-37	Water	02/21/23 09:20	02/22/23 16:03
860-43780-8	EP-38	Water	02/21/23 11:10	02/22/23 16:03
860-43780-9	EW-04	Water	02/21/23 10:05	02/22/23 16:03
860-43780-10	EB-02	Water	02/21/23 10:25	02/22/23 16:03
860-43780-11	DUP-03	Water	02/21/23 11:00	02/22/23 16:03
860-43780-12	FB-03	Water	02/21/23 09:05	02/22/23 16:03

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Chain of Custody Record

Client Information		Sampler: Erin Hallam + HM Team		Lab #/M: Kudchadkar, Sachin G		Carrier Tracking No(s):		COC No: 660-3614-1220.1	
Client Contact: Mike Schofield		Phone: 713-653-3127		E-Mail: Sachin.Kudchadkar@Eurofins.com		State of Origin: TX		Page: 1 of 2	
Company: GSI Environmental, Inc		PWSID:		Analysis Requested		Job #:		Preservation Codes:	
Address: 9600 Great Hills Trail Suite 350E		Due Date Requested:		Field Filtered Sample (Yes or No)		Total Number of Containers		Special Instructions/Note:	
City: Austin		TAT Requested (days):		Matrix (Water, Sewage, Spill, Overhaul, Other)		Special Instructions/Note:		M Hexane	
State, Zip: TX, 78759		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No		Sample Type (C-Comp, G-Grab)		Special Instructions/Note:		N None	
Phone: 512-346-4474 (Tel) 512-346-4476 (Fax)		PO #:		Sample Time		Special Instructions/Note:		O AsNaO2	
Email: mischofield@gst-net.com		WO #:		Sample Date		Special Instructions/Note:		P Na2O4S	
Project Name: San Miguel Electrical Co-Op GW (Equalization Pond)		Project #: 86001746		Sample Date		Special Instructions/Note:		Q Na2SO3	
Site: 860-43780 Chain of Custody		SSOW#: 86001746		Sample Date		Special Instructions/Note:		R Na2S2O3	
Sample Identification		Preservation Code		Sample Date		Special Instructions/Note:		S H2SO4	
EP-31		G		2-21-23		Special Instructions/Note:		T TSP Dodecahydrate	
EP-32		G		1205		Special Instructions/Note:		U Acetone	
EP-33		G		1145		Special Instructions/Note:		V MCAA	
EP-34		G		1010		Special Instructions/Note:		W pH 4-5	
EP-35		G		940		Special Instructions/Note:		Z other (specify)	
EP-36		G		845		Special Instructions/Note:		Other	
EP-37		G		920		Special Instructions/Note:		Other	
EP-38		G		1110		Special Instructions/Note:		Other	
MW-04		G		1005		Special Instructions/Note:		Other	
EB-02		G		1025		Special Instructions/Note:		Other	
DUP-03		G		1100		Special Instructions/Note:		Other	
Possible Hazard Identification		Preservation Code		Sample Date		Special Instructions/Note:		Other	
<input type="checkbox"/> Non-Hazard		G		2-21-23		Special Instructions/Note:		Other	
<input type="checkbox"/> Flammable		G		1205		Special Instructions/Note:		Other	
<input type="checkbox"/> Skin Irritant		G		1145		Special Instructions/Note:		Other	
<input type="checkbox"/> Poison B		G		1010		Special Instructions/Note:		Other	
<input type="checkbox"/> Unknown		G		940		Special Instructions/Note:		Other	
<input type="checkbox"/> Radiological		G		845		Special Instructions/Note:		Other	
Deliverable Requested: I II III IV Other (specify)		G		920		Special Instructions/Note:		Other	
Empty Kit Relinquished by:		G		1110		Special Instructions/Note:		Other	
Relinquished by: Crake Garcia		G		1005		Special Instructions/Note:		Other	
Relinquished by: Crake Garcia		G		1025		Special Instructions/Note:		Other	
Relinquished by:		G		1100		Special Instructions/Note:		Other	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		G		2-22-23		Special Instructions/Note:		Other	
Custody Seal No:		G		1603		Special Instructions/Note:		Other	



Chain of Custody Record

Client Information Client Contact: Mike Schofield Company: GSI Environmental, Inc Address: 9600 Great Hills Trail Suite 350E City: Austin State, Zip: TX, 78759 Phone: 512-346-4474(Tel) 512-346-4476(Fax) Email: mitschofield@gst-net.com Project Name: Sean Miguel Electrical Co-Op GW (Equalization Pond) Site:		Lab P.M.: Kuchackkar, Sachin I G E-Mail: Sachin.Kuchackkar@Eurofinset.com Carrier Tracking No(s): State of Origin: TX Page: 2 of 2 Job #:		COC No: 360-3614-1220.1 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 Other M Hexane N None O AsNaO2 P Na2OAS Q Na2SO3 R Na2S2O3 S H2SO4 T TSP Dodecahydrate U Acetone V MCAA W pH 4-5 Z other (specify)	
Due Date Requested: TAT Requested (days): Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No PO #: WO #: Project #: SSONW#:		Analysis Requested 901.1 Fe-Rad 228 Eurofins St Louis SM7500 Ra, B Rad 226-South Bend M 300-Cl, F, SO4 2640C_TDS 17Hg-Eurofins Pittsburg 6020A-7470-B, Ca, Sb, As, Ba, Bi, Cd, Cr, Co, Pb, Li, Mo, Se 2320B, Alkalinity Field Filtered Sample (Yes or No)			
Sample Identification FB-03 Sample Date: 2-21-23 Sample Time: 905 Sample Type (C=Comp, G=grab): G Matrix (W=water, S=solid, O=other): Water Preservation Code:		Total Number of containers: <input checked="" type="checkbox"/> Special Instructions/Note: (No Alkalinity requested)			
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV Other (specify)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Special Instructions/QC Requirements: CCB Appendix III and IV			
Empty Kit Relinquished by: Date/Time: 2-22-23 1603 Relinquished by: Gabi Garas 858 Company:		Method of Shipment: Car Dropoff Date/Time: 2-22-23 1603 Received by: Sachin Kuchackkar Date/Time: Received by: Date/Time: Received by: Date/Time:			
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No.		Cooler Temperature(s) °C and Other Remarks:			



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

STAFFORD, TX 77477
UNITED STATES US

SHIP DATE: 24FEB23
ACTWGT: 10.00 LB
CAD: 110189707/NET4580

BILL SENDER



860-43780 Waybill

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

581J1BB62/FE2D

PITTSBURGH PA 15238

(412) 963-7058
INV:
PO:

REF:

DEPT:

Barcode area with handwritten notes:
Uncorrected temp 3.6 °C
Thermometer ID 19
CF 0.8 Initials NR
PT-WI-SR-001 effective 11/8/18

FedEx Express



FedEx Ship Manager - Print Your Label(s)

SATURDAY 12:00P
PRIORITY OVERNIGHT

2 of 2
MPS# 0263 7714 0559 0187
Mstr# 7714 0559 0599

0201

X0 AGCA

15238
PA-US PIT



2/24/23, 6:35 PM

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

STAFFORD, TX 77477
UNITED STATES US

SHIP DATE: 24 FEB 23
ACTWGT: 10.00 LB
CAD: 110189707/INET4580

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



Uncorrected temp
Thermometer ID

4.9 °C
19

CF -0.8

Initials

KR

PT-WI-SR-001 effective 11/8/18

FedEx Express



FedEx Ship Manager - Print Your Label(s)

1 of 2

TRK#

0201

7714 0559 0599

MASTER

SATURDAY 12:00P

PRIORITY OVERNIGHT

X0 AGCA

15238

PA-US

PIT



2/24/23, 6:35 PM

Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler:	Lab PM:	Carrier Tracking No(s):	COC No:
Client Contact:		Phone:	Kudchadkar, Sachin G	860-22276.1	860-22276.1
Shipping/Receiving:		E-Mail:	Sachin.Kudchadkar@et.eurofinsus.com	Page 1 of 2	
Company:		Accreditations Required (See note):	NELAP - Texas	Job #:	860-43780-1
Address:		Due Date Requested:		Preservation Codes:	M - Hexane N - None O - AsNaO2 P - Na2SO4 Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify)
13715 Rider Trail North,		TAT Requested (days):		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 Other:	
City:		PO #:		Analysis Requested	
Earth City		WO #:		Total Number of Containers	
State, Zip:		Project #:		904.0/PreSep_0 Standard Target List	
MO, 63045		86001746		Perform MS/MSD (Yes or No)	
Phone:		SSOW#:		Field Filtered Sample (Yes or No)	
314-298-8566(Tel) 314-298-8757(Fax)				Matrix (Water, Solid, Organic/Inorganic)	
Email:				Sample Type (C=Comp, G=grab)	
Project Name:				Sample Time	
Equilization Pond				Sample Date	
Site:				Sample Identification - Client ID (Lab ID)	
				EP-31 (860-43780-1)	
				EP-31 (860-43780-1MS)	
				EP-31 (860-43780-1MSD)	
				EP-32 (860-43780-2)	
				EP-33 (860-43780-3)	
				EP-34 (860-43780-4)	
				EP-35 (860-43780-5)	
				EP-36 (860-43780-6)	
				EP-37 (860-43780-7)	
<p>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/test/main 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.</p>					
Possible Hazard Identification					
Unconfirmed					
Deliverable Requested: I, II, III, IV, Other (specify)					
Primary Deliverable Rank: 2					
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)					
Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months					
Special Instructions/QC Requirements:					
Method of Shipment:					
Received by: _____ Date/Time: _____ Company: _____					
Received by: <i>Suma Worthington</i> Date/Time: <i>FEB 27 2023 08:55</i> Company: <i>ETPR</i>					
Received by: _____ Date/Time: _____ Company: _____					
Cooler Temperature(s) °C and Other Remarks					
Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					
Custody Seal No.:					



Eurofins Houston

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

Chain of Custody Record



Environment Testing

Client Information (Sub Contract Lab)		Sampler:	Lab PM:	Carrier Tracking No(s):	COC No:
Client Contact: Shipping/Receiving Company:		Phone:	Kudchadkar, Sachin G	State of Origin: Texas	860-22276.2
TestAmerica Laboratories, Inc.		E-Mail: Sachin.Kudchadkar@et.eurofins.com		Page 2 of 2	
Address: 13715 Rider Trail North,		Accreditations Required (See note): NELAP - Texas		Job #:	860-43780-1
City:	Earth City	Due Date Requested:	Analysis Requested		
State, Zip:	MO, 63045	TAT Requested (days):			
Phone:	314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:		WO #:			
Project Name:	Equilization Pond	Project #:			
Site:		SSOW#:			

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Solid, Other)	Preservation Code:	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:
EP-38 (860-43780-8)	2/21/23	11:10 Central	Water	Water	X	X			2	
EW-04 (860-43780-9)	2/21/23	10:05 Central	Water	Water	X	X			2	
EB-02 (860-43780-10)	2/21/23	10:25 Central	Water	Water	X	X			2	
DUP-03 (860-43780-11)	2/21/23	11:00 Central	Water	Water	X	X			2	
FB-03 (860-43780-12)	2/21/23	09:05 Central	Water	Water	X	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
 Deliverable Requested: I, II, III, IV, Other (specify) _____ Primary Deliverable Rank: 2

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

Empty Kit Relinquished by: _____

Relinquished by:	Date/Time:	Method of Shipment:
<i>[Signature]</i>	2/24/23 17:00	FED EX
Relinquished by:	Date/Time:	Company:
		Company
Relinquished by:	Date/Time:	Company:
		Company

Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021



South Bend, IN
110 S Hill Street
South Bend, IN 46617
Phone: 574-233-4777 Fax: 574-233-8207

Chain of Custody Record



Environment Testing

Client Information (Sub Contract Lab)		Sampler:	Lab PM:	Carrier Tracking No(s):		COC No:
Client Contact: Shipping/Receiving		Phone:	Kudchadkar, Sachin G	State of Origin: Texas		810-16454.1
Company: TestAmerica Laboratories, Inc.		E-Mail: Sachin.Kudchadkar@et.eurofins.com		Page: Page 1 of 1		Job #: 860-43780-1
Address: 13715 Rider Trail North, Earth City State, Zip: MO, 63045 Phone: 314-298-8566(Tel) 314-298-8757(Fax) Email:		Accreditations Required (See note): NELAP - Texas		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 Other:		
Due Date Requested: 3/22/2023 TAT Requested (days):		Analysis Requested				
PO #:		Field Filtered Sample (Yes or No)		904/0/PreSep_0 Standard Target List		Total Number of Containers
WO #:		Perform MS/MSD (Yes or No)		X		
Project #: 86001746 SSOW#:		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=on-site, A=Air)	Special Instructions/Note:
Site: Equilization Pond		2/21/23	10:25 Central	Water	1	
Sample Identification - Client ID (Lab ID)		EB-02 (860-43780-10)				
<p>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/test/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.</p>						
<p>Possible Hazard Identification <input type="checkbox"/> Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify) _____ Primary Deliverable Rank: 2 Date: _____ Time: _____ Method of Shipment: _____</p>						
<p>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab Special Instructions/QC Requirements: _____ Date/Time: _____ Company: _____ Date/Time: _____ Company: _____ Date/Time: _____ Company: _____</p>						
<p>Empty Kit Relinquished by: _____ Date/Time: _____ Company: _____ Relinquished by: _____ Date/Time: _____ Company: _____ Relinquished by: <i>KDW</i> <i>FEDEx</i> <i>2-27-23</i> <i>1300</i> Date/Time: _____ Company: _____ Custody Seals Intact: _____ Custody Seal No.: _____ Cooler Temperature(s) °C and Other Remarks: _____</p>						



Ver: 06/08/2021

Chain of Custody Record



Client Information (Sub Contract Lab)
 Shipping/Receiving
 Company: Eurofins Environment Testing Northeast
 Address: 301 Alpha Drive, RIDC Park, Pittsburgh, PA, 15238
 Phone: 412-963-7058 (Tel) 412-963-2468 (Fax)
 Email: Equilization Pond Site
 Project Name: Equilization Pond
 SOW#: 86001746
 Lab PM: Kuchhadkar, Sachin G
 State of Origin: Texas
 Carrier Tracking No(s): 860-22281-1
 Page: Page 1 of 2
 Job #: 860-43780-1

Analysis Requested
 Accreditations Required (See note): NELAP - Texas
 Preservation Codes:
 M - Hexane
 N - None
 O - As/NaO2
 P - Na2O4S
 Q - Na2SO3
 R - Na2SO4
 S - H2SO4
 T - TSP Dodecahydrate
 U - Acetone
 V - MCAA
 W - pH 4-5
 X - Trizma
 Y - EDTA
 Z - other (specify)
 Other:

Sample ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=water/soil, B=trace acid)	Preservation Code	Field Filled Sample (Yes or No)	Part # (MS/MSD) (Yes or No)	6020A/3005A (MD) Custom List	7470A/7470A Prep	Total Number of Containers	Special Instructions/Note:
EP-31 (860-43780-1)	2/21/23	11:15 Central	Water	Water		X	X	X		1	Please analyze at the lowest possible dilution
EP-31 (860-43780-1MS)	2/21/23	11:15 Central	MS	Water		X	X	X		1	Please analyze at the lowest possible dilution
EP-31 (860-43780-1MSD)	2/21/23	11:15 Central	MSD	Water		X	X	X		1	Please analyze at the lowest possible dilution
EP-32 (860-43780-2)	2/21/23	12:05 Central	Water	Water		X	X	X		1	Please analyze at the lowest possible dilution
EP-33 (860-43780-3)	2/21/23	11:45 Central	Water	Water		X	X	X		1	Please analyze at the lowest possible dilution
EP-34 (860-43780-4)	2/21/23	10:40 Central	Water	Water		X	X	X		1	Please analyze at the lowest possible dilution
EP-35 (860-43780-5)	2/21/23	09:40 Central	Water	Water		X	X	X		1	Please analyze at the lowest possible dilution
EP-36 (860-43780-6)	2/21/23	08:45 Central	Water	Water		X	X	X		1	Please analyze at the lowest possible dilution
EP-37 (860-43780-7)	2/21/23	09:20 Central	Water	Water		X	X	X		1	Please analyze at the lowest possible dilution

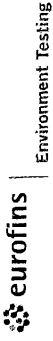
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/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
 Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2
 Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: _____ Date/Time: 2/24/23 1800
 Relinquished by: _____ Date/Time: _____
 Relinquished by: _____ Date/Time: _____
 Custody Seals Intact: Yes No
 Custody Seal No.: _____
 Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months
 Special Instructions/QC Requirements:
 Received by: _____ Date/Time: 2/25/23 9:00
 Received by: _____ Date/Time: _____
 Received by: _____ Date/Time: _____
 Cooler Temp: _____
 Company: _____
 Company: _____
 Company: _____
 Ver: 06/08/2021



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

Chain of Custody Record



Client Information (Sub Contract Lab)		Lab Pkt: Kutchadkar, Sachin G	Carrier Tracking No(s)	COC No. 860-22281.2							
Client Contact: Shipping/Receiving		E-Mail: Sachin.Kutchadkar@et.eurofins.com	State of Origin: Texas	Page: Page 2 of 2							
Company: Eurofins Environment Testing Northeast		Accreditations Required (See note): NELAP - Texas	Job #: 860-43780-1	Preservation Codes: 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:							
Address: 301 Alpha Drive, RIDC Park, Pittsborough, NC 27626		Due Date Requested: 3/17/2023	Analysis Requested								
City: Pittsborough		TAT Requested (days):	Total Number of Containers:								
State, Zip: PA, 15238		PO #:	6020A/3005A (MOD) Custom List								
Phone: 412-963-7058(Tel) 412-963-2468(Fax)		WO #:	7470A/470A_Prep								
Email:		Project #: 86001746	Perform MS/MSD (Yes or No)								
Equilization Pond Site:		SSOW#:	Field Filtered Sample (Yes or No)								
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Solid, Sewage, Oil, etc.)	Preservation Code	6020A/3005A (MOD) Custom List	7470A/470A_Prep	Perform MS/MSD (Yes or No)	Field Filtered Sample (Yes or No)	Total Number of Containers	Special Instructions/Note:
EP-38 (860-43780-8)	2/21/23	11:10 Central	Water	Water		X	X	X	X	1	Please analyze at the lowest possible dilution
EW-04 (860-43780-9)	2/21/23	10:05 Central	Water	Water		X	X	X	X	1	Please analyze at the lowest possible dilution
EB-02 (860-43780-10)	2/21/23	10:25 Central	Water	Water		X	X	X	X	1	Please analyze at the lowest possible dilution
DUP-03 (860-43780-11)	2/21/23	11:00 Central	Water	Water		X	X	X	X	1	Please analyze at the lowest possible dilution
FB-03 (860-43780-12)	2/21/23	09:05 Central	Water	Water		X	X	X	X	1	Please analyze at the lowest possible dilution
<p>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</p>											
<p>Possible Hazard Identification Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify) _____</p>											
<p>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months</p>											
<p>Special Instructions/QC Requirements:</p>											
<p>Primary Deliverable Rank: 2</p>											
<p>Empty Kit Relinquished by: _____ Date: _____</p>											
<p>Relinquished by: _____ Date/Time: 2/24/23 1800 Company: _____</p>											
<p>Relinquished by: _____ Date/Time: _____ Company: _____</p>											
<p>Relinquished by: _____ Date/Time: _____ Company: _____</p>											
<p>Custody Seal No: _____ Δ Yes / No</p>											
<p>Cooler Temperature(s) °C and Other Remarks:</p>											



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

Chain of Custody Record



eurofins

Environment Testing

Client Information (Sub Contract Lab)		Sampler:	Kudchadkar, Sachin G		Carrier Tracking No(s):		COC No: 860-22273-1																				
Client Contact: Shipping/Receiving		Phone:	Sachin.Kudchadkar@eu.eurofins.com		State of Origin: Texas		Page: Page 1 of 2																				
Company: Eurofins Eaton Analytical		Accreditations Required (See note): NELAP - Texas				Job #: 860-43780-1	Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NH4SO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDTA M - Hexane N - None O - AslNaO2 P - Na2OAs Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify) Other:																				
Address: 110 S Hill Street, City: South Bend State, Zip: IN, 46617 Phone: 574-233-4777(Tel) 574-233-8207(Fax) Email:		Due Date Requested: 3/22/2023 TAT Requested (days):	Analysis Requested				Total Number of containers	Special Instructions/Note:																			
Project Name: Equilization Pond Site:		Project #: 86001746 SSOW#:																									
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Seawater, Urine, etc.)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)																				
EP-31 (860-43780-1)	2/21/23	11:15	Central	Water	Water	X	SM7500_Ra_B/Rad_Prep Radium 226	X																			
EP-31 (860-43780-1MS)	2/21/23	11:15	Central	MS	Water	X		X																			
EP-31 (860-43780-1MSD)	2/21/23	11:15	Central	MSD	Water	X		X																			
EP-32 (860-43780-2)	2/21/23	12:05	Central	Water	Water	X		X																			
EP-33 (860-43780-3)	2/21/23	11:45	Central	Water	Water	X		X																			
EP-34 (860-43780-4)	2/21/23	10:40	Central	Water	Water	X		X																			
EP-35 (860-43780-5)	2/21/23	09:40	Central	Water	Water	X		X																			
EP-36 (860-43780-6)	2/21/23	08:45	Central	Water	Water	X		X																			
EP-37 (860-43780-7)	2/21/23	09:20	Central	Water	Water	X		X																			
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/testing/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																											
Deliverable Requested: I, II, III, IV, Other (specify)		Primary Deliverable Rank: 2																		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)							
Empty Kit Relinquished by:		Date:																		Return To Client		Disposal By Lab		Archive For		Months	
Relinquished by:		Date/Time:																									
Relinquished by:		Date/Time:																									
Relinquished by:		Date/Time:																									
Custody Seal Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:																		Cooler Temperature(s) °C and Other Remarks:							

Login Sample Receipt Checklist

Client: GSI Environmental, Inc

Job Number: 860-43780-1

Login Number: 43780

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	

Login Sample Receipt Checklist

Client: GSI Environmental, Inc

Job Number: 860-43780-1

Login Number: 43780

List Number: 2

Creator: Wojcik, Mary

List Source: Eurofins Eaton Analytical South Bend

List Creation: 02/25/23 11:48 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.	False	Thermal preservation not required.
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: 860-43780-1

Login Number: 43780
List Number: 3
Creator: Kovitch, Christina M

List Source: Eurofins Pittsburgh
List Creation: 02/25/23 03:48 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	



Login Sample Receipt Checklist

Client: GSI Environmental, Inc

Job Number: 860-43780-1

Login Number: 43780

List Number: 4

Creator: Worthington, Sierra M

List Source: Eurofins St. Louis

List Creation: 02/28/23 07:50 AM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq 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?	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 <math><6\text{mm}</math> (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

May 2023 Sampling Event (Job ID: 860-48556-1)

OVERVIEW

GSI Environmental Inc. (GSI) reviewed one data package from Eurofins Houston located in Stafford, Texas (EET HOU) for the analysis of **four groundwater samples collected at the Ash Pile on 5 May 2023** 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: T104704215-23-50) for the matrices, analytes, and methods of analysis requested on the chain-of-custody documentation. A copy of EET HOU NELAP certificate 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

Four (4) 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 and based on the laboratory's standard operating procedure:

Analytes	LCS/LCSD	
	% 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-03 and SP-32 by Method 6020A were diluted (20x and 50x) to bring the concentration of target analytes within the calibration range. Elevated RLs are provided.
- Samples SP-32, SP-34 and SP-02 by Method 300.0 were diluted (10x) to bring the concentration of target analytes within the calibration range. Elevated RLs are provided.

Finding: No qualifiers were added per these criteria.

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

For Method 300.0, the instrument blank for analytical batch 860-103277 contained Chloride greater than the method detection limit (MDL) and were not reanalyzed because associated sample results were greater than 10X the value found in the instrument blank/CCB. Therefore, the sample results are distinguishable from the instrument noise and no instrument repair was necessary.

The Method Blanks results did not exceed the MDLs for any analytes and are within the project-defined QC acceptance criteria.

Finding: No qualifiers were added per this evaluation.

Field Blanks

Not applicable.

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 matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 860-105185 and analytical batch 860-105785 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.
- The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-103277 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample/laboratory control sample duplicate (LCS/LCSD) recovery was within acceptance limits.
- Due to the high concentration of Sulfate, the matrix spike / matrix spike duplicate (MS/MSD) for analytical batch 860-103277 could not be evaluated for accuracy and precision. The associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) met acceptance criteria.

However, no MS/MSD samples were collected from San Miguel Electric Cooperative; therefore, these issues are not applicable.

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 (see Table 2).

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

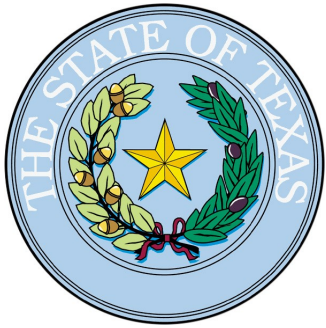
Sample Date	Lab	Lab Sample ID	Field Sample ID	Matrix
05/05/2023	EET HOU	860-48556-1	SP-02	Water
05/05/2023	EET HOU	860-48556-2	SP-03	Water
05/05/2023	EET HOU	860-48556-3	SP-32	Water
05/05/2023	EET HOU	860-48556-4	SP-34	Water

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
4141-4147 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: T104704215-23-50
Effective Date: 3/14/2023
Expiration Date: 6/30/2023

A handwritten signature in black ink that reads "Erin E. Chamalor".

**Executive Director Texas Commission on
Environmental Quality**

Attachment B

Eurofins Houston – Stafford, Texas

Analytical Report

Job ID.: 860-48556-1

ANALYTICAL REPORT

PREPARED FOR

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

Generated 6/6/2023 6:28:19 PM Revision 1

JOB DESCRIPTION

San Miguel Electrical Co-Op 2H23 GW

JOB NUMBER

860-48556-1

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
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Revision 1

Authorized for release by
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Definitions/Glossary

Client: GSI Environmental, Inc
Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-48556-1

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.
α	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

Case Narrative

Client: GSI Environmental, Inc
Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-48556-1

Job ID: 860-48556-1

Laboratory: Eurofins Houston

Narrative

Job Narrative

**Job Narrative
860-48556-1**

Comments

No additional comments.

Revision

The report being provided is a revision of the original report sent on 6/2/2023. The report (revision 1) is being revised due to: reanalyzing sample 860-48556-1 for sulfate per client request..

Receipt

The samples were received on 5/6/2023 10:02 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 was 1.8° C.

Metals

Methods 6020A, 6020B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 860-105185 and analytical batch 860-105785 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Methods 6020A, 6020B: The following samples were diluted to bring the concentration of target analytes within the calibration range: SP-03 (860-48556-2) and SP-32 (860-48556-3). Elevated reporting limits (RLs) are provided.

Methods 6020A, 6020B: The following sample was diluted to bring the concentration of target analytes within the calibration range: SP-03 (860-48556-2). 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.

General Chemistry

Method 300.0: The instrument blank/CCB for analytical batch 860-103277 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 qualified and reported.

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-103277 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample/laboratory control sample duplicate (LCS/LCSD) recovery was within acceptance limits.

Method 300.0: Due to the high concentration of Sulfate, the matrix spike / matrix spike duplicate (MS/MSD) for analytical batch 860-103277 could not be evaluated for accuracy and precision. The associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) met acceptance criteria.

Method 300.0: The following samples were diluted to bring the concentration of target analytes within the calibration range: SP-32 (860-48556-3) and SP-34 (860-48556-4). Elevated reporting limits (RLs) are provided.

Method 300.0: The following sample was diluted to bring the concentration of target analytes within the calibration range: SP-02 (860-48556-1). 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.

Detection Summary

Client: GSI Environmental, Inc
Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-48556-1

Client Sample ID: SP-02

Lab Sample ID: 860-48556-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	2.72		0.500	0.100	mg/L	1		300.0	Total/NA
Sulfate - DL	2160		5.00	2.00	mg/L	10		300.0	Total/NA

Client Sample ID: SP-03

Lab Sample ID: 860-48556-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	6.02		0.200	0.0801	mg/L	20		6020A	Total/NA
Calcium	813		5.00	1.50	mg/L	50		6020A	Total/NA

Client Sample ID: SP-32

Lab Sample ID: 860-48556-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	1.17		0.500	0.100	mg/L	1		300.0	Total/NA
Chloride - DL	820		5.00	2.50	mg/L	10		300.0	Total/NA
Calcium	465		5.00	1.50	mg/L	50		6020A	Total/NA

Client Sample ID: SP-34

Lab Sample ID: 860-48556-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate - DL	2740		5.00	2.00	mg/L	10		300.0	Total/NA
Total Dissolved Solids	8960		100	100	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Houston

Client Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-48556-1

Client Sample ID: SP-02
 Date Collected: 05/05/23 12:05
 Date Received: 05/06/23 10:02

Lab Sample ID: 860-48556-1
 Matrix: Water

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	2.72		0.500	0.100	mg/L			05/16/23 06:02	1

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	2160		5.00	2.00	mg/L			05/16/23 06:16	10

Client Sample ID: SP-03
 Date Collected: 05/05/23 09:10
 Date Received: 05/06/23 10:02

Lab Sample ID: 860-48556-2
 Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	6.02		0.200	0.0801	mg/L		05/27/23 12:00	06/01/23 23:05	20
Calcium	813		5.00	1.50	mg/L		05/27/23 12:00	05/31/23 16:10	50

Client Sample ID: SP-32
 Date Collected: 05/05/23 11:30
 Date Received: 05/06/23 10:02

Lab Sample ID: 860-48556-3
 Matrix: Water

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	1.17		0.500	0.100	mg/L			05/16/23 06:56	1

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	820		5.00	2.50	mg/L			05/16/23 07:09	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	465		5.00	1.50	mg/L		05/27/23 12:00	05/31/23 16:06	50

Client Sample ID: SP-34
 Date Collected: 05/05/23 12:35
 Date Received: 05/06/23 10:02

Lab Sample ID: 860-48556-4
 Matrix: Water

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	2740		5.00	2.00	mg/L			05/16/23 07:36	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	8960		100	100	mg/L			05/11/23 14:37	1

QC Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-48556-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-103277/3
Matrix: Water
Analysis Batch: 103277

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	0.250	U	0.500	0.250	mg/L			05/15/23 16:05	1
Fluoride	0.100	U	0.500	0.100	mg/L			05/15/23 16:05	1
Sulfate	0.200	U	0.500	0.200	mg/L			05/15/23 16:05	1

Lab Sample ID: MB 860-103277/38
Matrix: Water
Analysis Batch: 103277

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	0.250	U	0.500	0.250	mg/L			05/16/23 01:35	1
Fluoride	0.100	U	0.500	0.100	mg/L			05/16/23 01:35	1
Sulfate	0.200	U	0.500	0.200	mg/L			05/16/23 01:35	1

Lab Sample ID: LCS 860-103277/39
Matrix: Water
Analysis Batch: 103277

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	10.0	10.51		mg/L		105	90 - 110
Sulfate	10.0	9.270		mg/L		93	90 - 110

Lab Sample ID: LCSD 860-103277/40
Matrix: Water
Analysis Batch: 103277

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
Fluoride	10.0	10.53		mg/L		105	90 - 110	0	20
Sulfate	10.0	9.262		mg/L		93	90 - 110	0	20

Lab Sample ID: LLCS 860-103277/7
Matrix: Water
Analysis Batch: 103277

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.500	0.5143		mg/L		103	50 - 150
Sulfate	0.500	0.3065	J	mg/L		61	50 - 150

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 860-105185/1-A
Matrix: Water
Analysis Batch: 105785

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 105185

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Calcium	0.0301	U	0.100	0.0301	mg/L		05/27/23 12:00	05/31/23 15:36	1

Eurofins Houston

QC Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-48556-1

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

Lab Sample ID: MB 860-105185/1-A
Matrix: Water
Analysis Batch: 106004

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 105185

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.00401	U	0.0100	0.00401	mg/L		05/27/23 12:00	06/01/23 22:51	1

Lab Sample ID: LCS 860-105185/2-A
Matrix: Water
Analysis Batch: 105785

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 105185

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	2.50	2.445		mg/L		98	80 - 120

Lab Sample ID: LCS 860-105185/2-A
Matrix: Water
Analysis Batch: 106004

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 105185

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	0.100	0.09213		mg/L		92	80 - 120

Lab Sample ID: LCSD 860-105185/3-A
Matrix: Water
Analysis Batch: 105785

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 105185

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	2.50	2.465		mg/L		99	80 - 120	1	20

Lab Sample ID: LCSD 860-105185/3-A
Matrix: Water
Analysis Batch: 106004

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 105185

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	0.100	0.09403		mg/L		94	80 - 120	2	20

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

Lab Sample ID: MB 860-102812/1
Matrix: Water
Analysis Batch: 102812

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			05/11/23 14:37	1

Lab Sample ID: LCS 860-102812/2
Matrix: Water
Analysis Batch: 102812

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

QC Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-48556-1

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

Lab Sample ID: LCSD 860-102812/3
Matrix: Water
Analysis Batch: 102812

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	1001		mg/L		100	80 - 120	0	10

Lab Sample ID: LLCS 860-102812/4
Matrix: Water
Analysis Batch: 102812

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids	5.00	5.500		mg/L		110	50 - 150		

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QC Association Summary

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-48556-1

HPLC/IC

Analysis Batch: 103277

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-48556-1	SP-02	Total/NA	Water	300.0	
860-48556-1 - DL	SP-02	Total/NA	Water	300.0	
860-48556-3	SP-32	Total/NA	Water	300.0	
860-48556-3 - DL	SP-32	Total/NA	Water	300.0	
860-48556-4 - DL	SP-34	Total/NA	Water	300.0	
MB 860-103277/3	Method Blank	Total/NA	Water	300.0	
MB 860-103277/38	Method Blank	Total/NA	Water	300.0	
LCS 860-103277/39	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-103277/40	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-103277/7	Lab Control Sample	Total/NA	Water	300.0	

Metals

Prep Batch: 105185

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-48556-2	SP-03	Total/NA	Water	3010A	
860-48556-3	SP-32	Total/NA	Water	3010A	
MB 860-105185/1-A	Method Blank	Total/NA	Water	3010A	
LCS 860-105185/2-A	Lab Control Sample	Total/NA	Water	3010A	
LCSD 860-105185/3-A	Lab Control Sample Dup	Total/NA	Water	3010A	

Analysis Batch: 105785

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-48556-2	SP-03	Total/NA	Water	6020A	105185
860-48556-3	SP-32	Total/NA	Water	6020A	105185
MB 860-105185/1-A	Method Blank	Total/NA	Water	6020A	105185
LCS 860-105185/2-A	Lab Control Sample	Total/NA	Water	6020A	105185
LCSD 860-105185/3-A	Lab Control Sample Dup	Total/NA	Water	6020A	105185

Analysis Batch: 106004

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-48556-2	SP-03	Total/NA	Water	6020A	105185
MB 860-105185/1-A	Method Blank	Total/NA	Water	6020A	105185
LCS 860-105185/2-A	Lab Control Sample	Total/NA	Water	6020A	105185
LCSD 860-105185/3-A	Lab Control Sample Dup	Total/NA	Water	6020A	105185

General Chemistry

Analysis Batch: 102812

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-48556-4	SP-34	Total/NA	Water	SM 2540C	
MB 860-102812/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-102812/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-102812/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
LLCS 860-102812/4	Lab Control Sample	Total/NA	Water	SM 2540C	

Lab Chronicle

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-48556-1

Client Sample ID: SP-02

Lab Sample ID: 860-48556-1

Date Collected: 05/05/23 12:05

Matrix: Water

Date Received: 05/06/23 10:02

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	0 mL	1.0 mL	103277	05/16/23 06:02	WP	EET HOU
Total/NA	Analysis	300.0	DL	10			103277	05/16/23 06:16	WP	EET HOU

Client Sample ID: SP-03

Lab Sample ID: 860-48556-2

Date Collected: 05/05/23 09:10

Matrix: Water

Date Received: 05/06/23 10:02

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	105185	05/27/23 12:00	MD	EET HOU
Total/NA	Analysis	6020A		50			105785	05/31/23 16:10	DP	EET HOU
Total/NA	Prep	3010A			50 mL	50 mL	105185	05/27/23 12:00	MD	EET HOU
Total/NA	Analysis	6020A		20			106004	06/01/23 23:05	DP	EET HOU

Client Sample ID: SP-32

Lab Sample ID: 860-48556-3

Date Collected: 05/05/23 11:30

Matrix: Water

Date Received: 05/06/23 10:02

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			103277	05/16/23 06:56	WP	EET HOU
Total/NA	Analysis	300.0	DL	10			103277	05/16/23 07:09	WP	EET HOU
Total/NA	Prep	3010A			50 mL	50 mL	105185	05/27/23 12:00	MD	EET HOU
Total/NA	Analysis	6020A		50			105785	05/31/23 16:06	DP	EET HOU

Client Sample ID: SP-34

Lab Sample ID: 860-48556-4

Date Collected: 05/05/23 12:35

Matrix: Water

Date Received: 05/06/23 10:02

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			103277	05/16/23 07:36	WP	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	102812	05/11/23 14:37	DR	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
Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-48556-1

Laboratory: Eurofins Houston

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215-23-50	06-30-23

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Method Summary

Client: GSI Environmental, Inc
Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-48556-1

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
Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-48556-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-48556-1	SP-02	Water	05/05/23 12:05	05/06/23 10:02
860-48556-2	SP-03	Water	05/05/23 09:10	05/06/23 10:02
860-48556-3	SP-32	Water	05/05/23 11:30	05/06/23 10:02
860-48556-4	SP-34	Water	05/05/23 12:35	05/06/23 10:02

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4145 Greenbriar Dr
Stafford TX 77477
Phone (281) 240-4200

Chain of Custody Record

IRofins | Environment Testing
America



860-48556 Chain of Custody

Job #:
 of 1

Client Information

Client Contact: Brian Hillm
Mike Schofield
Company: GSI Environmental, Inc

Lab P/N: Kuchadkar Sachin G
Phone: 713-653-3127 (cell)
E-Mail: Sachin.Kuchadkar@Eurofins.net

Address: 9600 Great Hills Trail Suite 350E
City: Austin
State, Zip: TX, 78759

Due Date Requested:
TAT Requested (days):

Analysis Requested

Phone: 512-346-4474(Tel), 512-346-4476(Fax)
Email: mschofield@gsi-net.com

PO #:
WO #:
Project #:
86001746
SSOW#:

300 Chloride
300 Fluoride
300 Sulfate
6020A 7470 Calcium
6020A 7470 Boron
2540C_TDS

Project Name: San Miguel Electrical Co-Op GW (Ash Pile Resample)

Field Filtered Sample (Yes or No)
Retention Method: Pass/Ret

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 AsH2O2
P Na2O4S
Q Na2SO4
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=Comb, G=grab)	Matrix (Metal, Swill, Overwall, Other)	Preservation Code	Field Filtered Sample (Yes or No)	Total Number of containers	Special Instructions/Note
SP-02	5-5-23	1205	G	Water		X	1	
SP-03		910	G	Water		X	1	
SP-32		1130	G	Water		X	2	
SP-34		1235	G	Water		X	2	

Temp. C/F -0.2 IR ID: HOU-344
Corrected Temp. 1.8

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

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological
Deliverable Requested: I, II, III, IV Other (specify)

Login Sample Receipt Checklist

Client: GSI Environmental, Inc

Job Number: 860-48556-1

Login Number: 48556
List Number: 1
Creator: Torres, Sandra

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	1.8
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	



2023 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

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

Appendix B.2 Data Usability Summaries – September 2023

DATA USABILITY SUMMARY

September 2023 Sampling Event (Job ID: 860-56717-1)

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 6 September 2023**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: T104704215-23-53 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 Five samples plus one field duplicate and one field blank.

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:

Analytes	MS/MSD		LCS/LCSD		Lab Dup	Field Precision
	% R	RPD	% 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%

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, with exceptions noted below. Items related to the C-O-C are also listed below.

- Samples SP-01 and SP-32 by Method 2540C were reanalyzed outside of analytical holding time because TDS and Conductivity were out of ratio.
- 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, 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-34, SP-02, SP-03, and 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.
- Samples SP-34 (including MS/MSD), SP-01, SP-02, SP-03, SP-32, DUP-01 and FB-01 by Method 6020A were diluted due to the nature of the sample matrix. Elevated RLs are provided.

Finding: “JL” flags were added to TDS concentrations of samples SP-01 and SP-32 because they were analyzed outside of method-specified holding times.

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 860-121584 contained Fluoride 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 300.0, the instrument blank for analytical batch 860-121877 contained Chloride and Fluoride 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 6020A, the method blank for preparation batch 180-446331 and analytical batch 180-447807 contained Sodium above the MDL/ Associated samples were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank. No qualifiers were added as part of this data review.

Field Blanks

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

- Chloride, Boron, Calcium, Sodium, Potassium, 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 Chloride, Boron, Calcium, Sodium, Potassium, Alkalinity 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 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 121584 and preparation batch 446331 analyzed using sample SP-34 were outside control limits for Chloride (MS/MSD), Sulfate (MS/MSD), Calcium (MS/MSD), Magnesium (MS), Boron (MS/MSD). Recoveries of Chloride in the MS/MSD samples were 46%, below the desired range of 90-110%. Recoveries of Sulfate in the MS/MSD samples were 72% and 80%, respectively, below the desired range of 90-110%. Recoveries of Calcium in the MS/MSD samples were 522% and 470%, respectively, above the desired range of 75-125%. Recoveries of Magnesium in the MS sample was 146%, above the desired range of 75-125%. Recoveries of Boron in the MS/MSD samples were 208% and 191%, 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.

Findings: 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. A comparison of the field sample and the duplicate sample are shown in Table 3.

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 2).

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
09/06/2023	EET HOU/EET PIT	860-56717-1	SP-34	Water
09/06/2023	EET HOU/EET PIT	860-56717-2	SP-01	Water
09/06/2023	EET HOU/EET PIT	860-56717-3	SP-02	Water
09/06/2023	EET HOU/EET PIT	860-56717-4	SP-03	Water
09/06/2023	EET HOU/EET PIT	860-56717-5	SP-32	Water
09/06/2023	EET HOU/EET PIT	860-56717-6	DUP-01	Water
09/06/2023	EET HOU/EET PIT	860-56717-7	FB-01	Water

Notes:

1. EET HOU: Eurofins Houston, Stafford, Texas; EET PIT: Eurofins Pittsburgh, Pittsburgh, Pennsylvania

TABLE 2
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	TDS	14600	mg/L	JL	Outside holding time	122050	860-56717-1
SP-32	TDS	9150	mg/L	JL	Outside holding time	122050	860-56717-1

Notes:

1. mg/L: milligrams per liter.
2. JL: estimated value, biased low.
3. TDS: total dissolved solids.

TABLE 3
Field Duplicate Detections

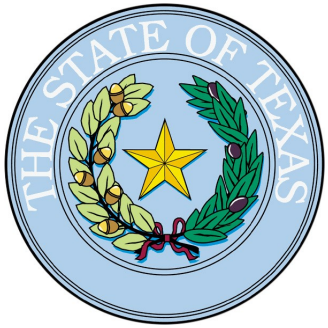
Analyte	MDL (mg/L)	Primary Sample Result (mg/L)	Field Duplicate Result (mg/L)	Relative Percent Difference (RPD)
Chloride	2.50	2520	2610	3.5
Fluoride	1.00	1.00 U	1.00 U	0.0
Sulfate	2.00	1800	1860	3.3
Boron	0.601	11.9	11.7	1.7
Calcium	0.635	944	855	9.9
Sodium	0.920	1900 B	1900 B	0.0
Potassium	0.156	42.3	42.0	0.7
Magnesium	0.0498	36.7	35.2	4.2
Total Alkalinity	4.00	49.9	50.8	1.8
Bicarbonate Alkalinity as CaCO ₃	4.00	49.9	50.8	1.8
Total Dissolved Solids	100	8930	9090	1.8

Notes:

1. MDL: Method Detection Limit
2. mg/L: milligrams per liter
3. $RPD = \frac{ABS(PR-FD)}{AVERAGE(PR+FD)*100}$, 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; B = compound was found in the blank and sample
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

A handwritten signature in black ink that reads "Erin E. Chamallo".

**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.

Certificate Number: T104704528-23-12

Effective Date: 4/1/2023

Expiration Date: 3/31/2024

A handwritten signature in black ink that reads "Erin E. Chamallo".

**Executive Director Texas Commission on
Environmental Quality**

Attachment B

Eurofins Houston – Stafford, Texas

Analytical Report

Job ID.: 860-56717-1



ANALYTICAL REPORT

PREPARED FOR

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

Generated 11/7/2023 8:55:01 AM

JOB DESCRIPTION

San Miguel Electrical Co-Op 2H23 GW

JOB NUMBER

860-56717-1

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
11/7/2023 8:55:01 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
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56717-1

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.
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.
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.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
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.
α	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

Case Narrative

Client: GSI Environmental, Inc
Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56717-1

Job ID: 860-56717-1

Laboratory: Eurofins Houston

Narrative

Job Narrative 860-56717-1

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 9/7/2023 12:34 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.4°C

HPLC/IC

Method 300_ORGFM_28D: The following samples were diluted to bring the concentration of target analytes within the calibration range: SP-34 (860-56717-1), SP-01 (860-56717-2), SP-02 (860-56717-3), SP-03 (860-56717-4), SP-32 (860-56717-5) and DUP-01 (860-56717-6). Elevated reporting limits (RLs) are provided.

Method 300_ORGFM_28D: The instrument blank/CCB for analytical batch 860-121584 contained Fluoride 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 qualified and reported.

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-121584 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 / laboratory control sample duplicate (LCS/LCSD) recovery is within acceptance limits.

Method 300_ORGFM_28D: The following sample was diluted to bring the concentration of target analytes within the calibration range: SP-01 (860-56717-2). Elevated reporting limits (RLs) are provided.

Method 300_ORGFM_28D: The instrument blank/CCB for analytical batch 860-121877 contained Fluoride 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 instrument blank/CCB for analytical batch 860-121877 contained Chloride and Fluoride 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.

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 calcium to within the calibration range: SP-02 (860-56717-3), SP-03 (860-56717-4) and DUP-01 (860-56717-6). Elevated reporting limits (RLs) are provided.

Method 6020A: The post digestion spike % recovery for Magnesium associated with batch 180-447712 was outside of control limits. The associated sample is: (860-56717-C-1-A PDS ^5).

Method 6020A: The method blank for preparation batch 180-446331 and analytical batch 180-447807 contained Sodium above the

Case Narrative

Client: GSI Environmental, Inc
Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56717-1

Job ID: 860-56717-1 (Continued)

Laboratory: Eurofins Houston (Continued)

method detection limit (MDL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

Method 6020A: The following samples were diluted to bring the concentration of target analytes within the calibration range: SP-34 (860-56717-1), SP-02 (860-56717-3), SP-03 (860-56717-4) and DUP-01 (860-56717-6). Elevated reporting limits (RLs) are provided.

Method 6020A: The following samples were diluted due to the nature of the sample matrix: SP-34 (860-56717-1), SP-34 (860-56717-1[MS]), SP-34 (860-56717-1[MSD]), SP-01 (860-56717-2), SP-02 (860-56717-3), SP-03 (860-56717-4), SP-32 (860-56717-5), DUP-01 (860-56717-6), FB-01 (860-56717-7) and (860-56717-C-1-A SD ^50). 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 2540C_Calcd: Reanalysis of the following samples were performed outside of the analytical holding time due to Total Dissolved Solids and Conductivity is out of ratio: SP-01 (860-56717-2) and SP-32 (860-56717-5).

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: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56717-1

Client Sample ID: SP-34

Lab Sample ID: 860-56717-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	3190		5.00	2.50	mg/L	10		300.0	Total/NA
Fluoride	5.74		5.00	1.00	mg/L	10		300.0	Total/NA
Sulfate	3130		5.00	2.00	mg/L	10		300.0	Total/NA
Boron	9.81		0.800	0.601	mg/L	10		EPA 6020A	Total Recoverable
Calcium	794		2.50	0.635	mg/L	5		EPA 6020A	Total Recoverable
Sodium	1780	B ^2	2.50	0.920	mg/L	5		EPA 6020A	Total Recoverable
Potassium	34.0		0.500	0.156	mg/L	1		EPA 6020A	Total Recoverable
Magnesium	101		0.500	0.0498	mg/L	1		EPA 6020A	Total Recoverable
Total Dissolved Solids	9880		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SP-01

Lab Sample ID: 860-56717-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	2730		5.00	2.50	mg/L	10		300.0	Total/NA
Fluoride	16.5		5.00	1.00	mg/L	10		300.0	Total/NA
Sulfate - DL	5170		50.0	20.0	mg/L	100		300.0	Total/NA
Boron	7.99		0.800	0.601	mg/L	10		EPA 6020A	Total Recoverable
Calcium	569		0.500	0.127	mg/L	1		EPA 6020A	Total Recoverable
Sodium	2700	B	2.50	0.920	mg/L	5		EPA 6020A	Total Recoverable
Potassium	16.3		0.500	0.156	mg/L	1		EPA 6020A	Total Recoverable
Magnesium	252		0.500	0.0498	mg/L	1		EPA 6020A	Total Recoverable
Total Dissolved Solids	14600	H	100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SP-02

Lab Sample ID: 860-56717-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	2520		5.00	2.50	mg/L	10		300.0	Total/NA
Sulfate	1800		5.00	2.00	mg/L	10		300.0	Total/NA
Boron	11.9		0.800	0.601	mg/L	10		EPA 6020A	Total Recoverable
Calcium	944		2.50	0.635	mg/L	5		EPA 6020A	Total Recoverable
Sodium	1900	B	2.50	0.920	mg/L	5		EPA 6020A	Total Recoverable
Potassium	42.3		0.500	0.156	mg/L	1		EPA 6020A	Total Recoverable
Magnesium	36.7		0.500	0.0498	mg/L	1		EPA 6020A	Total Recoverable
Total Alkalinity	49.9		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	49.9		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: SP-03

Lab Sample ID: 860-56717-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	4020		5.00	2.50	mg/L	10		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Houston

Detection Summary

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56717-1

Client Sample ID: SP-03 (Continued)

Lab Sample ID: 860-56717-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	2360		5.00	2.00	mg/L	10		300.0	Total/NA
Boron	7.31		0.800	0.601	mg/L	10		EPA 6020A	Total Recoverable
Calcium	1000		2.50	0.635	mg/L	5		EPA 6020A	Total Recoverable
Sodium	2950		5.00	1.84	mg/L	10		EPA 6020A	Total Recoverable
Potassium	60.0		0.500	0.156	mg/L	1		EPA 6020A	Total Recoverable
Magnesium	106		0.500	0.0498	mg/L	1		EPA 6020A	Total Recoverable
Total Dissolved Solids	12400		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SP-32

Lab Sample ID: 860-56717-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	3.57		0.500	0.100	mg/L	1		300.0	Total/NA
Chloride - DL	1220		5.00	2.50	mg/L	10		300.0	Total/NA
Sulfate - DL	4170		5.00	2.00	mg/L	10		300.0	Total/NA
Boron	13.0		0.800	0.601	mg/L	10		EPA 6020A	Total Recoverable
Calcium	574		0.500	0.127	mg/L	1		EPA 6020A	Total Recoverable
Sodium	1900	B	2.50	0.920	mg/L	5		EPA 6020A	Total Recoverable
Potassium	20.9		0.500	0.156	mg/L	1		EPA 6020A	Total Recoverable
Magnesium	123		0.500	0.0498	mg/L	1		EPA 6020A	Total Recoverable
Total Dissolved Solids	9150	H	100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: DUP-01

Lab Sample ID: 860-56717-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	2610		5.00	2.50	mg/L	10		300.0	Total/NA
Sulfate	1860		5.00	2.00	mg/L	10		300.0	Total/NA
Boron	11.7		0.800	0.601	mg/L	10		EPA 6020A	Total Recoverable
Calcium	855		2.50	0.635	mg/L	5		EPA 6020A	Total Recoverable
Sodium	1900	B	2.50	0.920	mg/L	5		EPA 6020A	Total Recoverable
Potassium	42.0		2.50	0.780	mg/L	5		EPA 6020A	Total Recoverable
Magnesium	35.2		0.500	0.0498	mg/L	1		EPA 6020A	Total Recoverable
Total Alkalinity	50.8		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	50.8		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	9090		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: FB-01

Lab Sample ID: 860-56717-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1.77		0.500	0.250	mg/L	1		300.0	Total/NA
Boron	0.704	J	0.800	0.601	mg/L	10		EPA 6020A	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Houston

Detection Summary

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56717-1

Client Sample ID: FB-01 (Continued)

Lab Sample ID: 860-56717-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	0.300	J	0.500	0.127	mg/L	1		EPA 6020A	Total Recoverable
Sodium	4.24	B	0.500	0.184	mg/L	1		EPA 6020A	Total Recoverable
Potassium	0.264	J	0.500	0.156	mg/L	1		EPA 6020A	Total Recoverable
Total Alkalinity	6.06		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	6.06		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.

Eurofins Houston



Client Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56717-1

Client Sample ID: SP-34
 Date Collected: 09/06/23 11:20
 Date Received: 09/07/23 12:34

Lab Sample ID: 860-56717-1
 Matrix: Water

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3190		5.00	2.50	mg/L			09/15/23 03:51	10
Fluoride	5.74		5.00	1.00	mg/L			09/15/23 03:51	10
Sulfate	3130		5.00	2.00	mg/L			09/15/23 03:51	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	9.81		0.800	0.601	mg/L		09/13/23 08:25	11/02/23 16:29	10
Calcium	794		2.50	0.635	mg/L		09/13/23 08:25	09/23/23 20:08	5
Sodium	1780	B ^2	2.50	0.920	mg/L		09/13/23 08:25	09/23/23 20:08	5
Potassium	34.0		0.500	0.156	mg/L		09/13/23 08:25	09/23/23 20:11	1
Magnesium	101		0.500	0.0498	mg/L		09/13/23 08:25	09/26/23 21:19	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			09/13/23 21:57	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			09/13/23 21:57	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			09/13/23 21:57	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			09/13/23 21:57	1
Total Dissolved Solids (SM 2540C)	9880		100	100	mg/L			09/12/23 10:37	1

Client Sample ID: SP-01
 Date Collected: 09/06/23 09:05
 Date Received: 09/07/23 12:34

Lab Sample ID: 860-56717-2
 Matrix: Water

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2730		5.00	2.50	mg/L			09/15/23 04:17	10
Fluoride	16.5		5.00	1.00	mg/L			09/15/23 04:17	10

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	5170		50.0	20.0	mg/L			09/16/23 03:40	100

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	7.99		0.800	0.601	mg/L		09/13/23 08:25	11/02/23 16:41	10
Calcium	569		0.500	0.127	mg/L		09/13/23 08:25	09/23/23 20:47	1
Sodium	2700	B	2.50	0.920	mg/L		09/13/23 08:25	09/27/23 21:17	5
Potassium	16.3		0.500	0.156	mg/L		09/13/23 08:25	09/23/23 20:47	1
Magnesium	252		0.500	0.0498	mg/L		09/13/23 08:25	09/26/23 21:51	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			09/13/23 22:03	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			09/13/23 22:03	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			09/13/23 22:03	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			09/13/23 22:03	1
Total Dissolved Solids (SM 2540C)	14600	H	100	100	mg/L			09/18/23 09:32	1

Eurofins Houston

Client Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56717-1

Client Sample ID: SP-02
 Date Collected: 09/06/23 10:50
 Date Received: 09/07/23 12:34

Lab Sample ID: 860-56717-3
 Matrix: Water

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2520		5.00	2.50	mg/L			09/15/23 04:25	10
Fluoride	1.00	U	5.00	1.00	mg/L			09/15/23 04:25	10
Sulfate	1800		5.00	2.00	mg/L			09/15/23 04:25	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	11.9		0.800	0.601	mg/L		09/13/23 08:25	11/02/23 16:44	10
Calcium	944		2.50	0.635	mg/L		09/13/23 08:25	09/23/23 20:50	5
Sodium	1900	B	2.50	0.920	mg/L		09/13/23 08:25	09/23/23 20:50	5
Potassium	42.3		0.500	0.156	mg/L		09/13/23 08:25	09/23/23 20:53	1
Magnesium	36.7		0.500	0.0498	mg/L		09/13/23 08:25	09/26/23 21:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	49.9		4.00	4.00	mg/L			09/13/23 22:09	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	49.9		4.00	4.00	mg/L			09/13/23 22:09	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			09/13/23 22:09	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			09/13/23 22:09	1
Total Dissolved Solids (SM 2540C)	8930		100	100	mg/L			09/12/23 10:37	1

Client Sample ID: SP-03
 Date Collected: 09/06/23 10:15
 Date Received: 09/07/23 12:34

Lab Sample ID: 860-56717-4
 Matrix: Water

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4020		5.00	2.50	mg/L			09/15/23 04:34	10
Fluoride	1.00	U	5.00	1.00	mg/L			09/15/23 04:34	10
Sulfate	2360		5.00	2.00	mg/L			09/15/23 04:34	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	7.31		0.800	0.601	mg/L		09/13/23 08:25	11/02/23 16:47	10
Calcium	1000		2.50	0.635	mg/L		09/13/23 08:25	09/23/23 20:56	5
Sodium	2950		5.00	1.84	mg/L		09/13/23 08:25	11/02/23 16:47	10
Potassium	60.0		0.500	0.156	mg/L		09/13/23 08:25	09/23/23 21:00	1
Magnesium	106		0.500	0.0498	mg/L		09/13/23 08:25	09/26/23 22:03	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			09/13/23 22:15	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			09/13/23 22:15	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			09/13/23 22:15	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			09/13/23 22:15	1
Total Dissolved Solids (SM 2540C)	12400		100	100	mg/L			09/12/23 10:37	1

Client Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56717-1

Client Sample ID: SP-32

Lab Sample ID: 860-56717-5

Date Collected: 09/06/23 09:45

Matrix: Water

Date Received: 09/07/23 12:34

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	3.57		0.500	0.100	mg/L			09/15/23 02:44	1

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1220		5.00	2.50	mg/L			09/15/23 02:52	10
Sulfate	4170		5.00	2.00	mg/L			09/15/23 02:52	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	13.0		0.800	0.601	mg/L		09/13/23 08:25	11/02/23 16:53	10
Calcium	574		0.500	0.127	mg/L		09/13/23 08:25	09/23/23 21:03	1
Sodium	1900	B	2.50	0.920	mg/L		09/13/23 08:25	09/27/23 21:38	5
Potassium	20.9		0.500	0.156	mg/L		09/13/23 08:25	09/23/23 21:03	1
Magnesium	123		0.500	0.0498	mg/L		09/13/23 08:25	09/26/23 22:06	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			09/13/23 22:25	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			09/13/23 22:25	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			09/13/23 22:25	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			09/13/23 22:25	1
Total Dissolved Solids (SM 2540C)	9150	H	100	100	mg/L			09/18/23 09:32	1

Client Sample ID: DUP-01

Lab Sample ID: 860-56717-6

Date Collected: 09/06/23 10:00

Matrix: Water

Date Received: 09/07/23 12:34

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2610		5.00	2.50	mg/L			09/15/23 04:59	10
Fluoride	1.00	U	5.00	1.00	mg/L			09/15/23 04:59	10
Sulfate	1860		5.00	2.00	mg/L			09/15/23 04:59	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	11.7		0.800	0.601	mg/L		09/13/23 08:25	11/02/23 16:56	10
Calcium	855		2.50	0.635	mg/L		09/13/23 08:25	09/23/23 21:13	5
Sodium	1900	B	2.50	0.920	mg/L		09/13/23 08:25	09/27/23 21:44	5
Potassium	42.0		2.50	0.780	mg/L		09/13/23 08:25	09/23/23 21:13	5
Magnesium	35.2		0.500	0.0498	mg/L		09/13/23 08:25	09/26/23 22:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	50.8		4.00	4.00	mg/L			09/13/23 22:32	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	50.8		4.00	4.00	mg/L			09/13/23 22:32	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			09/13/23 22:32	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			09/13/23 22:32	1
Total Dissolved Solids (SM 2540C)	9090		100	100	mg/L			09/12/23 10:37	1

Eurofins Houston

Client Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56717-1

Client Sample ID: FB-01

Lab Sample ID: 860-56717-7

Date Collected: 09/06/23 10:25

Matrix: Water

Date Received: 09/07/23 12:34

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.77		0.500	0.250	mg/L			09/15/23 02:10	1
Fluoride	0.100	U	0.500	0.100	mg/L			09/15/23 02:10	1
Sulfate	0.200	U	0.500	0.200	mg/L			09/15/23 02:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.704	J	0.800	0.601	mg/L		09/13/23 08:25	11/02/23 16:59	10
Calcium	0.300	J	0.500	0.127	mg/L		09/13/23 08:25	09/23/23 21:19	1
Sodium	4.24	B	0.500	0.184	mg/L		09/13/23 08:25	09/27/23 21:51	1
Potassium	0.264	J	0.500	0.156	mg/L		09/13/23 08:25	09/23/23 21:19	1
Magnesium	0.0498	U	0.500	0.0498	mg/L		09/13/23 08:25	09/26/23 22:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	6.06		4.00	4.00	mg/L			09/13/23 22:39	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	6.06		4.00	4.00	mg/L			09/13/23 22:39	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			09/13/23 22:39	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			09/13/23 22:39	1
Total Dissolved Solids (SM 2540C)	17.5		5.00	5.00	mg/L			09/12/23 10:37	1

QC Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56717-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-121584/3
Matrix: Water
Analysis Batch: 121584

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	0.250	U	0.500	0.250	mg/L			09/14/23 09:49	1
Fluoride	0.100	U	0.500	0.100	mg/L			09/14/23 09:49	1
Sulfate	0.200	U	0.500	0.200	mg/L			09/14/23 09:49	1

Lab Sample ID: MB 860-121584/49
Matrix: Water
Analysis Batch: 121584

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	0.250	U	0.500	0.250	mg/L			09/15/23 01:45	1
Fluoride	0.100	U	0.500	0.100	mg/L			09/15/23 01:45	1
Sulfate	0.200	U	0.500	0.200	mg/L			09/15/23 01:45	1

Lab Sample ID: LCS 860-121584/50
Matrix: Water
Analysis Batch: 121584

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	10.0	10.13		mg/L		101	90 - 110
Sulfate	10.0	9.765		mg/L		98	90 - 110

Lab Sample ID: LCSD 860-121584/51
Matrix: Water
Analysis Batch: 121584

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	9.772		mg/L		98	90 - 110	0	20
Fluoride	10.0	10.13		mg/L		101	90 - 110	0	20
Sulfate	10.0	9.755		mg/L		98	90 - 110	0	20

Lab Sample ID: LLCS 860-121584/7
Matrix: Water
Analysis Batch: 121584

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.500	0.4926	J	mg/L		99	50 - 150
Sulfate	0.500	0.2818	J	mg/L		56	50 - 150

Lab Sample ID: 860-56717-1 MS
Matrix: Water
Analysis Batch: 121584

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
Fluoride	5.74		100	106.2		mg/L		100	90 - 110
Sulfate	3130		100	3205	4	mg/L		72	90 - 110

QC Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56717-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 860-56717-1 MSD
Matrix: Water
Analysis Batch: 121584

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
Chloride	3190		100	3238	4	mg/L		46	90 - 110	0	15
Fluoride	5.74		100	106.6		mg/L		101	90 - 110	0	15
Sulfate	3130		100	3213	4	mg/L		80	90 - 110	0	15

Lab Sample ID: 860-56717-7 MS
Matrix: Water
Analysis Batch: 121584

Client Sample ID: FB-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	1.77		10.0	11.20		mg/L		94	90 - 110
Fluoride	0.100	U	10.0	9.993		mg/L		100	90 - 110
Sulfate	0.200	U	10.0	9.788		mg/L		98	90 - 110

Lab Sample ID: 860-56717-7 MSD
Matrix: Water
Analysis Batch: 121584

Client Sample ID: FB-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1.77		10.0	11.21		mg/L		94	90 - 110	0	15
Fluoride	0.100	U	10.0	10.02		mg/L		100	90 - 110	0	15
Sulfate	0.200	U	10.0	9.799		mg/L		98	90 - 110	0	15

Lab Sample ID: MB 860-121877/13
Matrix: Water
Analysis Batch: 121877

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			09/15/23 16:51	1
Fluoride	0.100	U	0.500	0.100	mg/L			09/15/23 16:51	1
Sulfate	0.200	U	0.500	0.200	mg/L			09/15/23 16:51	1

Lab Sample ID: MB 860-121877/74
Matrix: Water
Analysis Batch: 121877

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			09/16/23 01:34	1
Fluoride	0.100	U	0.500	0.100	mg/L			09/16/23 01:34	1
Sulfate	0.200	U	0.500	0.200	mg/L			09/16/23 01:34	1

Lab Sample ID: LCS 860-121877/14
Matrix: Water
Analysis Batch: 121877

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	10.01		mg/L		100	90 - 110
Fluoride	10.0	10.37		mg/L		104	90 - 110
Sulfate	10.0	10.16		mg/L		102	90 - 110

QC Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56717-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 860-121877/75
Matrix: Water
Analysis Batch: 121877

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	9.718		mg/L		97	90 - 110
Fluoride	10.0	10.11		mg/L		101	90 - 110
Sulfate	10.0	9.851		mg/L		99	90 - 110

Lab Sample ID: LCSD 860-121877/15
Matrix: Water
Analysis Batch: 121877

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	10.03		mg/L		100	90 - 110	0	20
Fluoride	10.0	10.42		mg/L		104	90 - 110	0	20
Sulfate	10.0	10.16		mg/L		102	90 - 110	0	20

Lab Sample ID: LCSD 860-121877/76
Matrix: Water
Analysis Batch: 121877

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	9.718		mg/L		97	90 - 110	0	20
Fluoride	10.0	10.13		mg/L		101	90 - 110	0	20
Sulfate	10.0	9.850		mg/L		99	90 - 110	0	20

Lab Sample ID: LLCS 860-121877/17
Matrix: Water
Analysis Batch: 121877

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	0.5521		mg/L		110	50 - 150
Fluoride	0.500	0.5160		mg/L		103	50 - 150
Sulfate	0.500	0.5118		mg/L		102	50 - 150

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

Lab Sample ID: MB 180-446331/1-A
Matrix: Water
Analysis Batch: 447467

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 446331

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	0.127	U	0.500	0.127	mg/L		09/13/23 08:25	09/23/23 20:01	1
Sodium	0.5438		0.500	0.184	mg/L		09/13/23 08:25	09/23/23 20:01	1
Potassium	0.156	U	0.500	0.156	mg/L		09/13/23 08:25	09/23/23 20:01	1
Magnesium	0.0498	U	0.500	0.0498	mg/L		09/13/23 08:25	09/23/23 20:01	1

Lab Sample ID: MB 180-446331/1-A
Matrix: Water
Analysis Batch: 447712

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 446331

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	0.0498	U	0.500	0.0498	mg/L		09/13/23 08:25	09/26/23 21:10	1

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QC Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56717-1

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

Lab Sample ID: MB 180-446331/1-A
Matrix: Water
Analysis Batch: 447807

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 446331

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	0.2756	J	0.500	0.184	mg/L		09/13/23 08:25	09/27/23 20:46	1

Lab Sample ID: MB 180-446331/1-A
Matrix: Water
Analysis Batch: 450930

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 446331

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.0601	U	0.0800	0.0601	mg/L		09/13/23 08:25	11/02/23 16:23	1

Lab Sample ID: LCS 180-446331/2-A
Matrix: Water
Analysis Batch: 447467

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 446331

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	25.0	27.49		mg/L		110	80 - 120
Sodium	25.0	26.25		mg/L		105	80 - 120
Potassium	25.0	26.15		mg/L		105	80 - 120
Magnesium	25.0	24.97		mg/L		100	80 - 120

Lab Sample ID: LCS 180-446331/2-A
Matrix: Water
Analysis Batch: 447712

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 446331

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Magnesium	25.0	27.28		mg/L		109	80 - 120

Lab Sample ID: LCS 180-446331/2-A
Matrix: Water
Analysis Batch: 447807

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 446331

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sodium	25.0	26.38		mg/L		106	80 - 120

Lab Sample ID: LCS 180-446331/2-A ^5
Matrix: Water
Analysis Batch: 450930

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 446331

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.25	1.101		mg/L		88	80 - 120

Lab Sample ID: 860-56717-1 MS
Matrix: Water
Analysis Batch: 447467

Client Sample ID: SP-34
Prep Type: Total Recoverable
Prep Batch: 446331

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	794		25.0	924.1	4	mg/L		522	75 - 125

QC Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56717-1

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

Lab Sample ID: 860-56717-1 MS
Matrix: Water
Analysis Batch: 447467

Client Sample ID: SP-34
Prep Type: Total Recoverable
Prep Batch: 446331

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Potassium	34.0		25.0	57.90		mg/L		96	75 - 125

Lab Sample ID: 860-56717-1 MS
Matrix: Water
Analysis Batch: 447712

Client Sample ID: SP-34
Prep Type: Total Recoverable
Prep Batch: 446331

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Magnesium	101		25.0	137.8	4	mg/L		146	75 - 125

Lab Sample ID: 860-56717-1 MS
Matrix: Water
Analysis Batch: 447807

Client Sample ID: SP-34
Prep Type: Total Recoverable
Prep Batch: 446331

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sodium			25.0	1805		mg/L			

Lab Sample ID: 860-56717-1 MS
Matrix: Water
Analysis Batch: 450930

Client Sample ID: SP-34
Prep Type: Total Recoverable
Prep Batch: 446331

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	9.81		1.25	12.41	4	mg/L		208	75 - 125

Lab Sample ID: 860-56717-1 MSD
Matrix: Water
Analysis Batch: 447467

Client Sample ID: SP-34
Prep Type: Total Recoverable
Prep Batch: 446331

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	794		25.0	911.0	4	mg/L		470	75 - 125	1	20

Lab Sample ID: 860-56717-1 MSD
Matrix: Water
Analysis Batch: 447467

Client Sample ID: SP-34
Prep Type: Total Recoverable
Prep Batch: 446331

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Potassium	57.38		25.0	57.84		mg/L		2	75 - 125	0	20

Lab Sample ID: 860-56717-1 MSD
Matrix: Water
Analysis Batch: 447712

Client Sample ID: SP-34
Prep Type: Total Recoverable
Prep Batch: 446331

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Magnesium	101		25.0	129.9	4	mg/L		114	75 - 125	6	20

Lab Sample ID: 860-56717-1 MSD
Matrix: Water
Analysis Batch: 447807

Client Sample ID: SP-34
Prep Type: Total Recoverable
Prep Batch: 446331

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sodium			25.0	2002		mg/L					

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QC Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56717-1

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

Lab Sample ID: 860-56717-1 MSD
 Matrix: Water
 Analysis Batch: 450930

Client Sample ID: SP-34
 Prep Type: Total Recoverable
 Prep Batch: 446331

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	9.81		1.25	12.20	4	mg/L		191	75 - 125	2	20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-121626/20
 Matrix: Water
 Analysis Batch: 121626

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			09/13/23 20:18	1
Bicarbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			09/13/23 20:18	1
Carbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			09/13/23 20:18	1
Hydroxide Alkalinity	4.00	U	4.00	4.00	mg/L			09/13/23 20:18	1

Lab Sample ID: LCS 860-121626/21
 Matrix: Water
 Analysis Batch: 121626

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	245.2		mg/L		98	85 - 115

Lab Sample ID: LCSD 860-121626/22
 Matrix: Water
 Analysis Batch: 121626

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	250.0		mg/L		100	85 - 115	2	20

Lab Sample ID: 860-56717-4 DU
 Matrix: Water
 Analysis Batch: 121626

Client Sample ID: SP-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 860-121163/1
 Matrix: Water
 Analysis Batch: 121163

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			09/12/23 10:37	1

QC Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56717-1

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

Lab Sample ID: LCS 860-121163/2
Matrix: Water
Analysis Batch: 121163

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 860-121163/3
Matrix: Water
Analysis Batch: 121163

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	1104		mg/L		110	80 - 120	10	10

Lab Sample ID: LLCS 860-121163/4
Matrix: Water
Analysis Batch: 121163

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		60	50 - 150

Lab Sample ID: MB 860-122050/1
Matrix: Water
Analysis Batch: 122050

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			09/18/23 09:32	1

Lab Sample ID: LCS 860-122050/2
Matrix: Water
Analysis Batch: 122050

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	998.0		mg/L		100	80 - 120

Lab Sample ID: LCSD 860-122050/3
Matrix: Water
Analysis Batch: 122050

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	1002		mg/L		100	80 - 120	0	10

Lab Sample ID: LLCS 860-122050/4
Matrix: Water
Analysis Batch: 122050

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	5.000		mg/L		100	50 - 150

QC Association Summary

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56717-1

HPLC/IC

Analysis Batch: 121584

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56717-1	SP-34	Total/NA	Water	300.0	
860-56717-2	SP-01	Total/NA	Water	300.0	
860-56717-3	SP-02	Total/NA	Water	300.0	
860-56717-4	SP-03	Total/NA	Water	300.0	
860-56717-5	SP-32	Total/NA	Water	300.0	
860-56717-5 - DL	SP-32	Total/NA	Water	300.0	
860-56717-6	DUP-01	Total/NA	Water	300.0	
860-56717-7	FB-01	Total/NA	Water	300.0	
MB 860-121584/3	Method Blank	Total/NA	Water	300.0	
MB 860-121584/49	Method Blank	Total/NA	Water	300.0	
LCS 860-121584/50	Lab Control Sample	Total/NA	Water	300.0	
LCS 860-121584/51	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-121584/7	Lab Control Sample	Total/NA	Water	300.0	
860-56717-1 MS	SP-34	Total/NA	Water	300.0	
860-56717-1 MSD	SP-34	Total/NA	Water	300.0	
860-56717-7 MS	FB-01	Total/NA	Water	300.0	
860-56717-7 MSD	FB-01	Total/NA	Water	300.0	

Analysis Batch: 121877

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56717-2 - DL	SP-01	Total/NA	Water	300.0	
MB 860-121877/13	Method Blank	Total/NA	Water	300.0	
MB 860-121877/74	Method Blank	Total/NA	Water	300.0	
LCS 860-121877/14	Lab Control Sample	Total/NA	Water	300.0	
LCS 860-121877/75	Lab Control Sample	Total/NA	Water	300.0	
LCS 860-121877/15	Lab Control Sample Dup	Total/NA	Water	300.0	
LCS 860-121877/76	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-121877/17	Lab Control Sample	Total/NA	Water	300.0	

Metals

Prep Batch: 446331

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56717-1	SP-34	Total Recoverable	Water	3005A	
860-56717-2	SP-01	Total Recoverable	Water	3005A	
860-56717-3	SP-02	Total Recoverable	Water	3005A	
860-56717-4	SP-03	Total Recoverable	Water	3005A	
860-56717-5	SP-32	Total Recoverable	Water	3005A	
860-56717-6	DUP-01	Total Recoverable	Water	3005A	
860-56717-7	FB-01	Total Recoverable	Water	3005A	
MB 180-446331/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-446331/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCS 180-446331/2-A ^5	Lab Control Sample	Total Recoverable	Water	3005A	
860-56717-1 MS	SP-34	Total Recoverable	Water	3005A	
860-56717-1 MSD	SP-34	Total Recoverable	Water	3005A	

Analysis Batch: 447467

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56717-1	SP-34	Total Recoverable	Water	EPA 6020A	446331
860-56717-1	SP-34	Total Recoverable	Water	EPA 6020A	446331
860-56717-2	SP-01	Total Recoverable	Water	EPA 6020A	446331

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QC Association Summary

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56717-1

Metals (Continued)

Analysis Batch: 447467 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56717-3	SP-02	Total Recoverable	Water	EPA 6020A	446331
860-56717-3	SP-02	Total Recoverable	Water	EPA 6020A	446331
860-56717-4	SP-03	Total Recoverable	Water	EPA 6020A	446331
860-56717-4	SP-03	Total Recoverable	Water	EPA 6020A	446331
860-56717-5	SP-32	Total Recoverable	Water	EPA 6020A	446331
860-56717-6	DUP-01	Total Recoverable	Water	EPA 6020A	446331
860-56717-7	FB-01	Total Recoverable	Water	EPA 6020A	446331
MB 180-446331/1-A	Method Blank	Total Recoverable	Water	EPA 6020A	446331
LCS 180-446331/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020A	446331
860-56717-1 MS	SP-34	Total Recoverable	Water	EPA 6020A	446331
860-56717-1 MS	SP-34	Total Recoverable	Water	EPA 6020A	446331
860-56717-1 MSD	SP-34	Total Recoverable	Water	EPA 6020A	446331
860-56717-1 MSD	SP-34	Total Recoverable	Water	EPA 6020A	446331

Analysis Batch: 447712

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56717-1	SP-34	Total Recoverable	Water	EPA 6020A	446331
860-56717-2	SP-01	Total Recoverable	Water	EPA 6020A	446331
860-56717-3	SP-02	Total Recoverable	Water	EPA 6020A	446331
860-56717-4	SP-03	Total Recoverable	Water	EPA 6020A	446331
860-56717-5	SP-32	Total Recoverable	Water	EPA 6020A	446331
860-56717-6	DUP-01	Total Recoverable	Water	EPA 6020A	446331
860-56717-7	FB-01	Total Recoverable	Water	EPA 6020A	446331
MB 180-446331/1-A	Method Blank	Total Recoverable	Water	EPA 6020A	446331
LCS 180-446331/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020A	446331
860-56717-1 MS	SP-34	Total Recoverable	Water	EPA 6020A	446331
860-56717-1 MSD	SP-34	Total Recoverable	Water	EPA 6020A	446331

Analysis Batch: 447807

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56717-2	SP-01	Total Recoverable	Water	EPA 6020A	446331
860-56717-5	SP-32	Total Recoverable	Water	EPA 6020A	446331
860-56717-6	DUP-01	Total Recoverable	Water	EPA 6020A	446331
860-56717-7	FB-01	Total Recoverable	Water	EPA 6020A	446331
MB 180-446331/1-A	Method Blank	Total Recoverable	Water	EPA 6020A	446331
LCS 180-446331/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020A	446331
860-56717-1 MS	SP-34	Total Recoverable	Water	EPA 6020A	446331
860-56717-1 MSD	SP-34	Total Recoverable	Water	EPA 6020A	446331

Analysis Batch: 450930

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56717-1	SP-34	Total Recoverable	Water	EPA 6020A	446331
860-56717-2	SP-01	Total Recoverable	Water	EPA 6020A	446331
860-56717-3	SP-02	Total Recoverable	Water	EPA 6020A	446331
860-56717-4	SP-03	Total Recoverable	Water	EPA 6020A	446331
860-56717-5	SP-32	Total Recoverable	Water	EPA 6020A	446331
860-56717-6	DUP-01	Total Recoverable	Water	EPA 6020A	446331
860-56717-7	FB-01	Total Recoverable	Water	EPA 6020A	446331
MB 180-446331/1-A	Method Blank	Total Recoverable	Water	EPA 6020A	446331
LCS 180-446331/2-A ^5	Lab Control Sample	Total Recoverable	Water	EPA 6020A	446331
860-56717-1 MS	SP-34	Total Recoverable	Water	EPA 6020A	446331

Eurofins Houston

QC Association Summary

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56717-1

Metals (Continued)

Analysis Batch: 450930 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56717-1 MSD	SP-34	Total Recoverable	Water	EPA 6020A	446331

General Chemistry

Analysis Batch: 121163

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56717-1	SP-34	Total/NA	Water	SM 2540C	
860-56717-2	SP-01	Total/NA	Water	SM 2540C	
860-56717-3	SP-02	Total/NA	Water	SM 2540C	
860-56717-4	SP-03	Total/NA	Water	SM 2540C	
860-56717-5	SP-32	Total/NA	Water	SM 2540C	
860-56717-6	DUP-01	Total/NA	Water	SM 2540C	
860-56717-7	FB-01	Total/NA	Water	SM 2540C	
MB 860-121163/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-121163/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-121163/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
LLCS 860-121163/4	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 121626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56717-1	SP-34	Total/NA	Water	SM 2320B	
860-56717-2	SP-01	Total/NA	Water	SM 2320B	
860-56717-3	SP-02	Total/NA	Water	SM 2320B	
860-56717-4	SP-03	Total/NA	Water	SM 2320B	
860-56717-5	SP-32	Total/NA	Water	SM 2320B	
860-56717-6	DUP-01	Total/NA	Water	SM 2320B	
860-56717-7	FB-01	Total/NA	Water	SM 2320B	
MB 860-121626/20	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-121626/21	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-121626/22	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
860-56717-4 DU	SP-03	Total/NA	Water	SM 2320B	

Analysis Batch: 122050

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56717-2	SP-01	Total/NA	Water	SM 2540C	
860-56717-5	SP-32	Total/NA	Water	SM 2540C	
MB 860-122050/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-122050/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-122050/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
LLCS 860-122050/4	Lab Control Sample	Total/NA	Water	SM 2540C	

Lab Chronicle

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56717-1

Client Sample ID: SP-34
Date Collected: 09/06/23 11:20
Date Received: 09/07/23 12:34

Lab Sample ID: 860-56717-1
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			121584	09/15/23 03:51	WP	EET HOU
Total Recoverable	Prep	3005A			25 mL	25 mL	446331	09/13/23 08:25	S1Z	EET PIT
Total Recoverable	Analysis	EPA 6020A		5			447467	09/23/23 20:08	RJR	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	446331	09/13/23 08:25	S1Z	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			447467	09/23/23 20:11	RJR	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	446331	09/13/23 08:25	S1Z	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			447712	09/26/23 21:19	MRG	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	446331	09/13/23 08:25	S1Z	EET PIT
Total Recoverable	Analysis	EPA 6020A		10			450930	11/02/23 16:29	RJR	EET PIT
Total/NA	Analysis	SM 2320B		1			121626	09/13/23 21:57	YG	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	121163	09/12/23 10:37	SA	EET HOU

Client Sample ID: SP-01
Date Collected: 09/06/23 09:05
Date Received: 09/07/23 12:34

Lab Sample ID: 860-56717-2
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			121584	09/15/23 04:17	WP	EET HOU
Total/NA	Analysis	300.0	DL	100			121877	09/16/23 03:40	RBNS	EET HOU
Total Recoverable	Prep	3005A			25 mL	25 mL	446331	09/13/23 08:25	S1Z	EET PIT
Total Recoverable	Analysis	EPA 6020A		5			447807	09/27/23 21:17	MRG	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	446331	09/13/23 08:25	S1Z	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			447467	09/23/23 20:47	RJR	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	446331	09/13/23 08:25	S1Z	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			447712	09/26/23 21:51	MRG	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	446331	09/13/23 08:25	S1Z	EET PIT
Total Recoverable	Analysis	EPA 6020A		10			450930	11/02/23 16:41	RJR	EET PIT
Total/NA	Analysis	SM 2320B		1			121626	09/13/23 22:03	YG	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	121163	09/12/23 10:37	SA	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	122050	09/18/23 09:32	SA	EET HOU

Client Sample ID: SP-02
Date Collected: 09/06/23 10:50
Date Received: 09/07/23 12:34

Lab Sample ID: 860-56717-3
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			121584	09/15/23 04:25	WP	EET HOU
Total Recoverable	Prep	3005A			25 mL	25 mL	446331	09/13/23 08:25	S1Z	EET PIT
Total Recoverable	Analysis	EPA 6020A		5			447467	09/23/23 20:50	RJR	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	446331	09/13/23 08:25	S1Z	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			447467	09/23/23 20:53	RJR	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	446331	09/13/23 08:25	S1Z	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			447712	09/26/23 21:57	MRG	EET PIT

Lab Chronicle

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56717-1

Client Sample ID: SP-02

Lab Sample ID: 860-56717-3

Date Collected: 09/06/23 10:50

Matrix: Water

Date Received: 09/07/23 12:34

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	446331	09/13/23 08:25	S1Z	EET PIT
Total Recoverable	Analysis	EPA 6020A		10			450930	11/02/23 16:44	RJR	EET PIT
Total/NA	Analysis	SM 2320B		1			121626	09/13/23 22:09	YG	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	121163	09/12/23 10:37	SA	EET HOU

Client Sample ID: SP-03

Lab Sample ID: 860-56717-4

Date Collected: 09/06/23 10:15

Matrix: Water

Date Received: 09/07/23 12:34

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			121584	09/15/23 04:34	WP	EET HOU
Total Recoverable	Prep	3005A			25 mL	25 mL	446331	09/13/23 08:25	S1Z	EET PIT
Total Recoverable	Analysis	EPA 6020A		5			447467	09/23/23 20:56	RJR	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	446331	09/13/23 08:25	S1Z	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			447467	09/23/23 21:00	RJR	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	446331	09/13/23 08:25	S1Z	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			447712	09/26/23 22:03	MRG	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	446331	09/13/23 08:25	S1Z	EET PIT
Total Recoverable	Analysis	EPA 6020A		10			450930	11/02/23 16:47	RJR	EET PIT
Total/NA	Analysis	SM 2320B		1			121626	09/13/23 22:15	YG	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	121163	09/12/23 10:37	SA	EET HOU

Client Sample ID: SP-32

Lab Sample ID: 860-56717-5

Date Collected: 09/06/23 09:45

Matrix: Water

Date Received: 09/07/23 12:34

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			121584	09/15/23 02:44	WP	EET HOU
Total/NA	Analysis	300.0	DL	10			121584	09/15/23 02:52	WP	EET HOU
Total Recoverable	Prep	3005A			25 mL	25 mL	446331	09/13/23 08:25	S1Z	EET PIT
Total Recoverable	Analysis	EPA 6020A		5			447807	09/27/23 21:38	MRG	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	446331	09/13/23 08:25	S1Z	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			447467	09/23/23 21:03	RJR	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	446331	09/13/23 08:25	S1Z	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			447712	09/26/23 22:06	MRG	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	446331	09/13/23 08:25	S1Z	EET PIT
Total Recoverable	Analysis	EPA 6020A		10			450930	11/02/23 16:53	RJR	EET PIT
Total/NA	Analysis	SM 2320B		1			121626	09/13/23 22:25	YG	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	121163	09/12/23 10:37	SA	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	122050	09/18/23 09:32	SA	EET HOU

Lab Chronicle

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56717-1

Client Sample ID: DUP-01

Lab Sample ID: 860-56717-6

Date Collected: 09/06/23 10:00

Matrix: Water

Date Received: 09/07/23 12:34

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			121584	09/15/23 04:59	WP	EET HOU
Total Recoverable	Prep	3005A			25 mL	25 mL	446331	09/13/23 08:25	S1Z	EET PIT
Total Recoverable	Analysis	EPA 6020A		5			447807	09/27/23 21:44	MRG	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	446331	09/13/23 08:25	S1Z	EET PIT
Total Recoverable	Analysis	EPA 6020A		5			447467	09/23/23 21:13	RJR	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	446331	09/13/23 08:25	S1Z	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			447712	09/26/23 22:18	MRG	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	446331	09/13/23 08:25	S1Z	EET PIT
Total Recoverable	Analysis	EPA 6020A		10			450930	11/02/23 16:56	RJR	EET PIT
Total/NA	Analysis	SM 2320B		1			121626	09/13/23 22:32	YG	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	121163	09/12/23 10:37	SA	EET HOU

Client Sample ID: FB-01

Lab Sample ID: 860-56717-7

Date Collected: 09/06/23 10:25

Matrix: Water

Date Received: 09/07/23 12:34

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			121584	09/15/23 02:10	WP	EET HOU
Total Recoverable	Prep	3005A			25 mL	25 mL	446331	09/13/23 08:25	S1Z	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			447807	09/27/23 21:51	MRG	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	446331	09/13/23 08:25	S1Z	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			447467	09/23/23 21:19	RJR	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	446331	09/13/23 08:25	S1Z	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			447712	09/26/23 22:21	MRG	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	446331	09/13/23 08:25	S1Z	EET PIT
Total Recoverable	Analysis	EPA 6020A		10			450930	11/02/23 16:59	RJR	EET PIT
Total/NA	Analysis	SM 2320B		1			121626	09/13/23 22:39	YG	EET HOU
Total/NA	Analysis	SM 2540C		1	200 mL	200 mL	121163	09/12/23 10:37	SA	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
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56717-1

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	T104704215-23-53	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
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	01-31-24
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	12-31-23
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	12-31-23
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	04-30-23 *
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	01-31-24
Wisconsin	State	998027800	08-31-24

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

Method Summary

Client: GSI Environmental, Inc
Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56717-1

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
Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56717-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-56717-1	SP-34	Water	09/06/23 11:20	09/07/23 12:34
860-56717-2	SP-01	Water	09/06/23 09:05	09/07/23 12:34
860-56717-3	SP-02	Water	09/06/23 10:50	09/07/23 12:34
860-56717-4	SP-03	Water	09/06/23 10:15	09/07/23 12:34
860-56717-5	SP-32	Water	09/06/23 09:45	09/07/23 12:34
860-56717-6	DUP-01	Water	09/06/23 10:00	09/07/23 12:34
860-56717-7	FB-01	Water	09/06/23 10:25	09/07/23 12:34

- 1
- 2
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- 14

Chain of Custody Record



Environment Testing

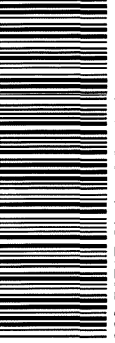
Client Information Client Contact: Mike Schofield Company: GSI Environmental, Inc Address: 9600 Great Hills Trail Suite 350E City: Austin State, Zip: TX, 78759 Phone: 512-346-4474(Tel) 512-346-4478(Fax) Email: mlschofield@gsi-net.com Project Name: San Miguel Electrical Co-Op 2H ₂ /GW (Ash Pile) Site:		Sampler: Kudchadkar Sachin G Lab PM: Sachin.Kudchadkar@et.eurofins.com E-Mail:		Carrier Tracking No(s): State of Origin: TX		COC No: 860-21513-1220.1 Page: Page 1 of 1 Job #:	
Due Date Requested: TAT Requested (days): Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No PO #: Purchase Order Requested WO #:		PWSID: Field Filtered Sample (Yes or No)		Analysis Requested 2320B, 300 ORGFM, 28D 2540C, Caled Local Method 6020A (MOD) Copy Analytes + Na, Mg, K		Preservation Codes: A HCL B NaOH C Zn Acetate D Nitric Acid E NaHSO4 F MeOH G Anchor H Ascorbic Acid I Ice J DI Water K EDTA L EDA Other:	
Sample Identification SP-34 SP-01 SP-02 SP-03 SP-32 SP-34 MS SP-34 MSD DUP-01 FB-01		Sample Date 9-6-23 		Sample Time 1120 905 1050 1015 945 1120 1120 1000 1025		Matrix (Water, Soil, Divalent) Water Water Water Water Water Water Water Water Water	
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant Deliverable Requested I II III IV Other (specify)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For Months		Special Instructions/Note: Total Number of containers:		Special Instructions/Note: 860-56717 Chain of Custody	
Empty Kit Relinquished by Relinquished by: [Signature] Relinquished by: [Signature] Relinquished by: [Signature]		Date: 9/7/23 1006 Date/Time: 9/7/23 1006 Date/Time: 9/7/23 1006 Date/Time: 9/7/23 1006		Company: HMI Company: HMI Company: HMI Company: HMI		Method of Shipment: Cons Dropoff	
Custody Seals Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Custody Seal No.		Cooler Temperature(s) °C and Other Remarks:		Ver: 06/08/2021	



Eurofins Houston
 4143 Greenbriar Dr
 Stafford, TX 77477
 Phone: 281-240-4200

Chain of Custody Record

S | Environment Testing



Client Information (Sub Contract Lab)		Lab P/M Kudchadkar, Sachin G
Company Contact: Eurofins Environment Testing Northeast, 301 Alpha Drive, RIDC Park, Pittsburgh State, Zip PA, 15238 Phone 412-963-7058(Tel) 412-963-2466(Fax) Email		E-Mail Sachin.Kudchadkar@et.eurofins. NE LAP - Texas
Shipping/Receiving Due Date Requested: 9/15/2023 TAT Requested (days):		86001746 SSOW#
Project Name San Miguel Electrical Co-Op 2H23 GW Site:		
Analysis Requested		
Preservation Codes: 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 X - Trizma Y - EDTA Z - other (specify) Other:		
Special Instructions/Note:		
Total Number of Containers		
Perform MS/MSD (Yes or No) 6020A/3005A (MOD) Copy Analytes		
Field Filtered Sample (Yes or No)		
Preservation Codes:		
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time
SP-34 (860-56717-1)	9/6/23	11:20 Central
SP-34 (860-56717-1MS)	9/6/23	11:20 Central
SP-34 (860-56717-1MSD)	9/6/23	11:20 Central
SP-01 (860-56717-2)	9/6/23	09:05 Central
SP-02 (860-56717-3)	9/6/23	10:50 Central
SP-03 (860-56717-4)	9/6/23	10:15 Central
SP-32 (860-56717-5)	9/6/23	09:45 Central
DUP-01 (860-56717-6)	9/6/23	10:00 Central
FB-01 (860-56717-7)	9/6/23	10:25 Central
Note. Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC being the ownership of method, analyze & 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/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		
<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Special Instructions/QC Requirements:		
Empty Kit Relinquished by: _____ Date: _____ Time: _____ Relinquished by: <i>SC</i> Date: <i>9-7-23</i> Time: <i>14:40</i> Relinquished by: _____ Date/Time: _____ Relinquished by: _____ Date/Time: _____		
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: 860-56717-1

Login Number: 56717

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	



Login Sample Receipt Checklist

Client: GSI Environmental, Inc

Job Number: 860-56717-1

Login Number: 56717
List Number: 2
Creator: Watson, Debbie

List Source: Eurofins Pittsburgh
List Creation: 09/08/23 06:45 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq 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 <math><6\text{mm}</math> (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

September 2023 Sampling Event (Job ID: 860-56724-1)

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 6 September 2023¹** 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: T104704215-23-53, T104704528, T104704193, and T104704187-22-16, 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:

Analytes	MS/MSD		LCS/LCSD		Lab Dup	Field Precision
	% 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	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 300.0 were diluted to bring the concentration of target analytes within the calibration range. Elevated RLs are provided.
- Samples PZ-02, PZ-03, AP-31, AP-32, AP-33, AP-34, AP-35, AP-36, MW-03, PZ-05, PZ-06, EB-01, DUP-02 and FB-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 calibrations:

- For Method 6020A, the continuing calibration verification (CCV) associated with batch 180-45193 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:

- For Method 300.0, the instrument blank for analytical batch 860-121877 contained Chloride, Fluoride and Sulfate 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 300.0, the instrument blank for analytical batch 860-122111 contained Chloride and Fluoride 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:

- Chloride, Sulfate, Sodium 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 Chloride, Boron, Calcium, Sodium, Potassium, Alkalinity and TDS that were greater than 5X the associated field blank concentration and did not require qualifiers.
- Chloride, Sulfate, Sodium 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 Chloride, Boron, Calcium, Sodium, Potassium, Alkalinity 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 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:

- Due to the high concentration of Chloride, the MS/MSD for analytical batch 860-121877 could not be evaluated for accuracy and precision. The associated LCS/LCSD met acceptance criteria.
- The recoveries for analytical batch 121877 analyzed using sample PZ-03 were outside control limits for Sulfate (MS/MSD). Recoveries of Sulfate in the MS/MSD samples were 55% and 59%, respectively, 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. 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 122619 analyzed using sample PZ-03 were outside control limits for Chloride (MS/MSD). Recoveries of Chloride in the MS/MSD samples were 84%, 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. 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 451123 analyzed using sample PZ-03 were outside control limits for Calcium (MS/MSD) and Antimony (MS/MSD). Recoveries of Calcium in the MS/MSD samples were 357% and 658%, respectively, above the desired range of 75-125%. Recoveries of Antimony in the MS/MSD samples were 128% and 136%, 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.

- The recoveries for analytical batch 451545 analyzed using sample PZ-03 were outside control limits for Sulfate (MS/MSD). Recoveries of Sulfate in the MS/MSD samples were 67% and 40%, 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.
- The recoveries for analytical batch 451393 analyzed using sample PZ-03 were outside control limits for Magnesium (MSD), Sodium (MSD), and Lithium (MSD). Recoveries of Magnesium, Sodium, and Lithium in the MSD samples were 149%, 495%, and 141%, 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 for Calcium and the unspiked parent sample was non-detect for Antimony. As a result, no additional qualifiers were added as part of this evaluation.
- The recoveries for analytical batch 74882 analyzed using sample PZ-03 were outside control limits for Ra-226 (MS/MSD). Recoveries of Ra-226 in the MS/MSD samples were 38% and 60%, 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: 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/rq/rq-366-trrp-13.pdf

TABLES

TABLE 1
Cross-Reference Field Sample and Laboratory Identifications

Sample Date	Lab	Lab Sample ID	Field Sample ID	Matrix
09/06/2023	EET HOU/EET PIT/EET SL/EA SB	860-56724-1	PZ-02	Water
09/06/2023	EET HOU/EET PIT/EET SL/EA SB	860-56724-2	PZ-03	Water
09/06/2023	EET HOU/EET PIT/EET SL/EA SB	860-56724-3	AP-31	Water
09/06/2023	EET HOU/EET PIT/EET SL/EA SB	860-56724-4	AP-32	Water
09/06/2023	EET HOU/EET PIT/EET SL/EA SB	860-56724-5	AP-33	Water
09/06/2023	EET HOU/EET PIT/EET SL/EA SB	860-56724-6	AP-34	Water
09/06/2023	EET HOU/EET PIT/EET SL/EA SB	860-56724-7	AP-35	Water
09/06/2023	EET HOU/EET PIT/EET SL/EA SB	860-56724-8	AP-36	Water
09/06/2023	EET HOU/EET PIT/EET SL/EA SB	860-56724-9	MW-03	Water
09/06/2023	EET HOU/EET PIT/EET SL/EA SB	860-56724-10	PZ-05	Water
09/06/2023	EET HOU/EET PIT/EET SL/EA SB	860-56724-11	PZ-06	Water
09/06/2023	EET HOU/EET PIT/EET SL/EA SB	860-56724-12	EB-01	Water
09/06/2023	EET HOU/EET PIT/EET SL/EA SB	860-56724-13	DUP-02	Water
09/06/2023	EET HOU/EET PIT/EET SL/EA SB	860-56724-14	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

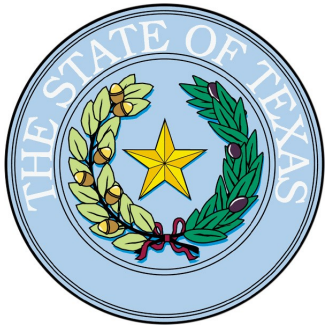
Analyte	MDL (mg/L)	Primary Sample Result (mg/L)	Field Duplicate Result (mg/L)	Relative Percent Difference (RPD)
Fluoride	.100	0.797	1.32	49.4
Chloride	2.50	1560	1520	2.6
Sulfate	2.00	3530	3560	0.8
Arsenic	0.0141	0.0324 J	0.0323 J	0.3
Boron	3.01	14.6	14.4	1.4
Barium	0.157	0.157 U	0.157 U ⁵⁺	0
Beryllium	0.0137	0.0291 J	0.0294 J	1.0
Calcium	6.35	601	578	3.9
Cadmium	0.0109	0.0537	0.0657 ⁵⁺	20.1
Chromium	0.0765	0.0765 U	0.0765 U	0
Cobalt	0.0131	0.388	0.410	5.5
Magnesium	2.49	111	105	5.6
Molybdenum	0.0305	0.0305 U	0.0305 U	0
Sodium	9.20	2440	2330	4.6
Lead	0.0188	0.0188 U	0.0188 U	0
Antimony	0.00967	0.00967 U	0.00967 U	0
Thallium	0.0236	0.0236 U	0.0236 U	0
Selenium	0.0370	0.0370 U	0.0370 U	0
Potassium	1.56	32.8	33.7	2.7
Lithium	0.0645	1.94	1.83	5.8
Mercury	0.130	0.130 U	0.130 U	0
Total Alkalinity	4.00	4.00 U	4.00 U	0
Bicarbonate Alkalinity as CaCO ₃	4.00	4.00 U	4.00 U	0
Total Dissolved Solids	100	9090	9400	3.4
Radium-228	1.00	4.14	5.00	18.8
Ra-226	1.00	1.04	0.970	7.0

Notes:

1. MDL: Method Detection Limit
2. mg/L: milligrams per liter
3. $RPD = \frac{ABS(PR-FD)}{AVERAGE(PR+FD)} * 100$, 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

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

A handwritten signature in black ink that reads "Erin E. Chamallo".

**Executive Director Texas Commission on
Environmental Quality**



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.

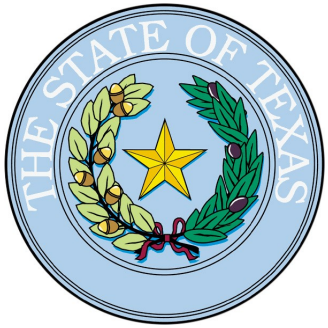
Certificate Number: T104704187-22-16

Effective Date: 1/1/2023

Expiration Date: 12/31/2023

A handwritten signature in black ink, appearing to read "T. G. Baker".

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.

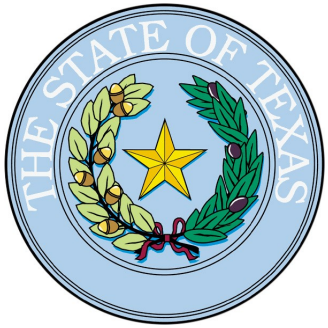
Certificate Number: T104704528-23-12

Effective Date: 4/1/2023

Expiration Date: 3/31/2024

A handwritten signature in black ink that reads "Erin E. Chamallo".

**Executive Director Texas Commission on
Environmental Quality**



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.

Certificate Number: T104704193-23-22

Effective Date: 8/1/2023

Expiration Date: 7/31/2024

A handwritten signature in black ink that reads "Erin E. Chamalor".

**Executive Director Texas Commission on
Environmental Quality**

Attachment B

Eurofins Houston – Stafford, Texas

Analytical Report

Job ID.: 860-56724-1



ANALYTICAL REPORT

PREPARED FOR

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

Generated 11/15/2023 11:23:32 AM

JOB DESCRIPTION

San Miguel Electrical Co-Op 2H23 GW

JOB NUMBER

860-56724-1

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
11/15/2023 11:23:32 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
Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56724-1

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.
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.
^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.
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.
α	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)

Eurofins Houston

Definitions/Glossary

Client: GSI Environmental, Inc
Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56724-1

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

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Case Narrative

Client: GSI Environmental, Inc
Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56724-1

Job ID: 860-56724-1

Laboratory: Eurofins Houston

Narrative

Job Narrative 860-56724-1

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 9/7/2023 10:06 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 0.3°C, 2.2°C, 3.0°C and 3.5°C

HPLC/IC

Method 300_ORGFM_28D: The following samples were diluted to bring the concentration of target analytes within the calibration range: PZ-02 (860-56724-1), AP-31 (860-56724-3), AP-32 (860-56724-4), AP-33 (860-56724-5), AP-34 (860-56724-6), AP-35 (860-56724-7), AP-36 (860-56724-8), MW-03 (860-56724-9), PZ-05 (860-56724-10), PZ-06 (860-56724-11) and DUP-02 (860-56724-13). Elevated reporting limits (RLs) are provided.

Method 300_ORGFM_28D: The instrument blank/CCB for analytical batch 860-121877 contained Chloride, Fluoride and Sulfate 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 instrument blank/CCB for analytical batch 860-121877 contained Chloride and Fluoride 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: Due to the high concentration of Chloride, the matrix spike / matrix spike duplicate (MS/MSD) for analytical batch 860-121877 could not be evaluated for accuracy and precision. The associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) met acceptance criteria.

Method 300_ORGFM_28D: The instrument blank/CCB for analytical batch 860-122111 contained Chloride greater than the method detection limit (MDL), and were not re-analyzed 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: PZ-02 (860-56724-1) and PZ-03 (860-56724-2). Elevated reporting limits (RLs) are provided.

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-122619 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 / laboratory control sample duplicate (LCS/LCSD) recovery is 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: The following samples were diluted to bring the concentration of target analytes within the calibration range: PZ-02 (860-56724-1), PZ-03 (860-56724-2), PZ-03 (860-56724-2[MS]), PZ-03 (860-56724-2[MSD]), AP-31 (860-56724-3), AP-32 (860-56724-4),

Case Narrative

Client: GSI Environmental, Inc
Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56724-1

Job ID: 860-56724-1 (Continued)

Laboratory: Eurofins Houston (Continued)

AP-33 (860-56724-5), AP-34 (860-56724-6), AP-35 (860-56724-7), AP-36 (860-56724-8), MW-03 (860-56724-9), PZ-05 (860-56724-10), PZ-06 (860-56724-11), EB-01 (860-56724-12), DUP-02 (860-56724-13), FB-02 (860-56724-14), (MB 180-446961/1-A), (860-56724-F-2-D PDS ^10) and (860-56724-F-2-D SD ^50). Elevated reporting limits (RLs) are provided.

Method 6020A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 180-446961 and analytical batch 180-451266 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: The post digestion spike % recovery for Cadmium, Chromium, Cobalt, Magnesium, Selenium and Potassium associated with batch 180-451266 was outside of control limits. The associated sample is: (860-56724-F-2-D PDS ^10).

Method 6020A: The following samples were diluted to bring the concentration of target analytes within the calibration range: PZ-02 (860-56724-1), PZ-03 (860-56724-2), PZ-03 (860-56724-2[MS]), PZ-03 (860-56724-2[MSD]), AP-31 (860-56724-3), AP-32 (860-56724-4), AP-33 (860-56724-5), AP-34 (860-56724-6), AP-35 (860-56724-7), AP-36 (860-56724-8), MW-03 (860-56724-9), PZ-05 (860-56724-10), PZ-06 (860-56724-11), EB-01 (860-56724-12), DUP-02 (860-56724-13), (LCS 180-446961/2-A), (860-56724-F-2-D PDS ^20) and (860-56724-F-2-D SD ^100). Elevated reporting limits (RLs) are provided.

Method 6020A: The continuing calibration verification (CCV) associated with batch 180-451393 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.

Method 6020A: The following samples were diluted to bring the concentration of boron to within the instrument's calibration range as well as due to the matrix affect of the samples on the instrument: PZ-02 (860-56724-1), PZ-03 (860-56724-2), PZ-03 (860-56724-2[MS]), PZ-03 (860-56724-2[MSD]), AP-31 (860-56724-3), AP-32 (860-56724-4), AP-33 (860-56724-5), AP-34 (860-56724-6), AP-35 (860-56724-7), AP-36 (860-56724-8), MW-03 (860-56724-9), PZ-05 (860-56724-10), PZ-06 (860-56724-11), EB-01 (860-56724-12), DUP-02 (860-56724-13), FB-02 (860-56724-14) and (LCS 180-446961/2-A ^5). Elevated reporting limits (RLs) are provided.

Method 6020A: The linear range check standard failed for multiple elements. Data was evaluated against the concentration of the CCV.

PZ-02 (860-56724-1), PZ-03 (860-56724-2), PZ-03 (860-56724-2[MS]), PZ-03 (860-56724-2[MSD]), AP-31 (860-56724-3), AP-32 (860-56724-4), AP-33 (860-56724-5), AP-34 (860-56724-6), AP-35 (860-56724-7), AP-36 (860-56724-8), MW-03 (860-56724-9), PZ-05 (860-56724-10), PZ-06 (860-56724-11), EB-01 (860-56724-12), DUP-02 (860-56724-13), FB-02 (860-56724-14), (LCS 180-446961/2-A), (MB 180-446961/1-A), (860-56724-F-2-D PDS ^20) and (860-56724-F-2-D SD ^100)

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 628018

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

PZ-02 (860-56724-1), PZ-03 (860-56724-2), PZ-03 (860-56724-2[MS]), PZ-03 (860-56724-2[MSD]), AP-31 (860-56724-3), AP-32 (860-56724-4), AP-33 (860-56724-5), AP-34 (860-56724-6), AP-35 (860-56724-7), AP-36 (860-56724-8), MW-03 (860-56724-9), PZ-05 (860-56724-10), PZ-06 (860-56724-11), EB-01 (860-56724-12), DUP-02 (860-56724-13), FB-02 (860-56724-14), (LCS 160-628018/2-A) and (MB 160-628018/1-A)

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

Rad

Method SM7500_Ra_B: Second LCS analyzed due to not enough sample volume to perform an MS and MSD for this batch. Both LCS's

Case Narrative

Client: GSI Environmental, Inc
Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56724-1

Job ID: 860-56724-1 (Continued)

Laboratory: Eurofins Houston (Continued)

passed at 91 and 90 with limits of 90-110 and RPD was 0.49 with RPD limits of <20.0. Sample results are unaffected and QC passes.

Method SM7500_Ra_B: 860-56724-2 Low biased MS and MSD (37.8 and 60.0, limits are 80-120) and MS/MSD relative percent difference was greater than control limits at 24.7 with limits of <20.0, which was confirmed by re-analysis. Sample result has questionable precision due to 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: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56724-1

Client Sample ID: PZ-02

Lab Sample ID: 860-56724-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	4070		5.00	2.00	mg/L	10		300.0	Total/NA
Chloride - DL	4680		10.0	5.00	mg/L	20		300.0	Total/NA
Boron	6.57		4.00	3.01	mg/L	50		EPA 6020A	Total Recoverable
Calcium	843		5.00	1.27	mg/L	10		EPA 6020A	Total Recoverable
Cobalt	0.00455	J	0.00500	0.00261	mg/L	10		EPA 6020A	Total Recoverable
Magnesium	118		5.00	0.498	mg/L	10		EPA 6020A	Total Recoverable
Sodium	2370		5.00	1.84	mg/L	10		EPA 6020A	Total Recoverable
Potassium	44.0		5.00	1.56	mg/L	10		EPA 6020A	Total Recoverable
Lithium	1.74		0.0500	0.0129	mg/L	10		EPA 6020A	Total Recoverable
Total Alkalinity	104		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	104		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	11000		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: PZ-03

Lab Sample ID: 860-56724-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	5.53		5.00	1.00	mg/L	10		300.0	Total/NA
Sulfate	3690		5.00	2.00	mg/L	10		300.0	Total/NA
Chloride - DL	5030		50.0	25.0	mg/L	100		300.0	Total/NA
Arsenic	0.0885		0.0200	0.00564	mg/L	20		EPA 6020A	Total Recoverable
Boron	9.86		4.00	3.01	mg/L	50		EPA 6020A	Total Recoverable
Beryllium	0.244		0.0200	0.00548	mg/L	20		EPA 6020A	Total Recoverable
Calcium	921		5.00	1.27	mg/L	10		EPA 6020A	Total Recoverable
Cadmium	0.495	^5+	0.0200	0.00434	mg/L	20		EPA 6020A	Total Recoverable
Cobalt	1.41		0.0100	0.00522	mg/L	20		EPA 6020A	Total Recoverable
Magnesium	254		10.0	0.996	mg/L	20		EPA 6020A	Total Recoverable
Sodium	3280		10.0	3.68	mg/L	20		EPA 6020A	Total Recoverable
Selenium	0.0438	J	0.100	0.0148	mg/L	20		EPA 6020A	Total Recoverable
Potassium	27.0		10.0	3.12	mg/L	20		EPA 6020A	Total Recoverable
Lithium	2.21		0.100	0.0258	mg/L	20		EPA 6020A	Total Recoverable
Mercury	0.538		0.200	0.130	ug/L	1		EPA 7470A	Total/NA
Total Dissolved Solids	14800		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: AP-31

Lab Sample ID: 860-56724-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride - DL	1750		5.00	2.50	mg/L	10		300.0	Total/NA
Sulfate - DL	2420		5.00	2.00	mg/L	10		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Houston

Detection Summary

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56724-1

Client Sample ID: AP-31 (Continued)

Lab Sample ID: 860-56724-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Boron	68.7		40.0	30.1	mg/L	500			EPA 6020A	Total Recoverable
Calcium	714		250	63.5	mg/L	500			EPA 6020A	Total Recoverable
Cobalt	0.277		0.250	0.131	mg/L	500			EPA 6020A	Total Recoverable
Magnesium	82.0	J	250	24.9	mg/L	500			EPA 6020A	Total Recoverable
Sodium	1980		250	92.0	mg/L	500			EPA 6020A	Total Recoverable
Lithium	0.987		0.500	0.129	mg/L	100			EPA 6020A	Total Recoverable
Mercury	0.432		0.200	0.130	ug/L			1	EPA 7470A	Total/NA
Total Dissolved Solids	8280		100	100	mg/L			1	SM 2540C	Total/NA

Client Sample ID: AP-32

Lab Sample ID: 860-56724-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Chloride	2270		5.00	2.50	mg/L	10			300.0	Total/NA
Fluoride	1.38	J	5.00	1.00	mg/L	10			300.0	Total/NA
Sulfate	2900		5.00	2.00	mg/L	10			300.0	Total/NA
Arsenic	0.0825	J	0.100	0.0282	mg/L	100			EPA 6020A	Total Recoverable
Boron	25.2		8.00	6.01	mg/L	100			EPA 6020A	Total Recoverable
Beryllium	0.0570	J	0.100	0.0274	mg/L	100			EPA 6020A	Total Recoverable
Calcium	703		5.00	1.27	mg/L	10			EPA 6020A	Total Recoverable
Cadmium	0.0758	J ^5+	0.100	0.0217	mg/L	100			EPA 6020A	Total Recoverable
Cobalt	0.627		0.0500	0.0261	mg/L	100			EPA 6020A	Total Recoverable
Magnesium	100		50.0	4.98	mg/L	100			EPA 6020A	Total Recoverable
Sodium	2600		50.0	18.4	mg/L	100			EPA 6020A	Total Recoverable
Potassium	40.6		5.00	1.56	mg/L	10			EPA 6020A	Total Recoverable
Lithium	1.75		0.500	0.129	mg/L	100			EPA 6020A	Total Recoverable
Mercury	1.51		0.200	0.130	ug/L			1	EPA 7470A	Total/NA
Total Dissolved Solids	9880		100	100	mg/L			1	SM 2540C	Total/NA

Client Sample ID: AP-33

Lab Sample ID: 860-56724-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Chloride	3430		5.00	2.50	mg/L	10			300.0	Total/NA
Fluoride	5.09		5.00	1.00	mg/L	10			300.0	Total/NA
Sulfate	2980		5.00	2.00	mg/L	10			300.0	Total/NA
Arsenic	0.100		0.0500	0.0141	mg/L	50			EPA 6020A	Total Recoverable
Boron	59.8		20.0	15.0	mg/L	250			EPA 6020A	Total Recoverable
Beryllium	0.291		0.0500	0.0137	mg/L	50			EPA 6020A	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Houston

Detection Summary

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56724-1

Client Sample ID: AP-33 (Continued)

Lab Sample ID: 860-56724-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Calcium	681		5.00	1.27	mg/L	10			EPA 6020A	Total Recoverable
Cadmium	0.110	^5+	0.0500	0.0109	mg/L	50			EPA 6020A	Total Recoverable
Cobalt	1.38		0.0250	0.0131	mg/L	50			EPA 6020A	Total Recoverable
Magnesium	204		25.0	2.49	mg/L	50			EPA 6020A	Total Recoverable
Sodium	2850		25.0	9.20	mg/L	50			EPA 6020A	Total Recoverable
Potassium	23.6		5.00	1.56	mg/L	10			EPA 6020A	Total Recoverable
Lithium	1.21		0.250	0.0645	mg/L	50			EPA 6020A	Total Recoverable
Mercury	3.95		0.200	0.130	ug/L	1			EPA 7470A	Total/NA
Total Dissolved Solids	11900		100	100	mg/L	1			SM 2540C	Total/NA

Client Sample ID: AP-34

Lab Sample ID: 860-56724-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Chloride	2510		5.00	2.50	mg/L	10			300.0	Total/NA
Fluoride	6.80		5.00	1.00	mg/L	10			300.0	Total/NA
Sulfate	3000		5.00	2.00	mg/L	10			300.0	Total/NA
Arsenic	0.0773		0.0100	0.00282	mg/L	10			EPA 6020A	Total Recoverable
Boron	23.0		8.00	6.01	mg/L	100			EPA 6020A	Total Recoverable
Beryllium	0.289		0.0100	0.00274	mg/L	10			EPA 6020A	Total Recoverable
Calcium	703		5.00	1.27	mg/L	10			EPA 6020A	Total Recoverable
Cadmium	0.0220	^5+	0.0100	0.00217	mg/L	10			EPA 6020A	Total Recoverable
Cobalt	1.23		0.00500	0.00261	mg/L	10			EPA 6020A	Total Recoverable
Magnesium	152		5.00	0.498	mg/L	10			EPA 6020A	Total Recoverable
Sodium	1880		5.00	1.84	mg/L	10			EPA 6020A	Total Recoverable
Selenium	0.0178	J	0.0500	0.00739	mg/L	10			EPA 6020A	Total Recoverable
Potassium	16.5		5.00	1.56	mg/L	10			EPA 6020A	Total Recoverable
Lithium	1.43		0.0500	0.0129	mg/L	10			EPA 6020A	Total Recoverable
Mercury	3.38		0.200	0.130	ug/L	1			EPA 7470A	Total/NA
Total Dissolved Solids	10100		100	100	mg/L	1			SM 2540C	Total/NA

Client Sample ID: AP-35

Lab Sample ID: 860-56724-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Chloride	2190		5.00	2.50	mg/L	10			300.0	Total/NA
Fluoride	11.6		5.00	1.00	mg/L	10			300.0	Total/NA
Sulfate	3190		5.00	2.00	mg/L	10			300.0	Total/NA
Arsenic	0.0224		0.0100	0.00282	mg/L	10			EPA 6020A	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Houston

Detection Summary

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56724-1

Client Sample ID: AP-35 (Continued)

Lab Sample ID: 860-56724-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	5.61		4.00	3.01	mg/L	50		EPA 6020A	Total
Beryllium	0.309		0.0100	0.00274	mg/L	10		EPA 6020A	Total Recoverable
Calcium	549		5.00	1.27	mg/L	10		EPA 6020A	Total Recoverable
Cobalt	0.0388		0.00500	0.00261	mg/L	10		EPA 6020A	Total Recoverable
Magnesium	149		5.00	0.498	mg/L	10		EPA 6020A	Total Recoverable
Sodium	1530		5.00	1.84	mg/L	10		EPA 6020A	Total Recoverable
Selenium	0.0128	J	0.0500	0.00739	mg/L	10		EPA 6020A	Total Recoverable
Potassium	47.1		5.00	1.56	mg/L	10		EPA 6020A	Total Recoverable
Lithium	1.63		0.0500	0.0129	mg/L	10		EPA 6020A	Total Recoverable
Mercury	2.96		0.200	0.130	ug/L	1		EPA 7470A	Total/NA
Total Dissolved Solids	9300		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: AP-36

Lab Sample ID: 860-56724-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	0.634		0.500	0.100	mg/L	1		300.0	Total/NA
Chloride - DL	1400		5.00	2.50	mg/L	10		300.0	Total/NA
Sulfate - DL	2570		5.00	2.00	mg/L	10		300.0	Total/NA
Arsenic	0.00367	J	0.0100	0.00282	mg/L	10		EPA 6020A	Total Recoverable
Boron	2.16		0.800	0.601	mg/L	10		EPA 6020A	Total Recoverable
Beryllium	0.00749	J	0.0100	0.00274	mg/L	10		EPA 6020A	Total Recoverable
Calcium	577		5.00	1.27	mg/L	10		EPA 6020A	Total Recoverable
Cobalt	0.0529		0.00500	0.00261	mg/L	10		EPA 6020A	Total Recoverable
Magnesium	94.0		5.00	0.498	mg/L	10		EPA 6020A	Total Recoverable
Sodium	1270		5.00	1.84	mg/L	10		EPA 6020A	Total Recoverable
Potassium	37.5		5.00	1.56	mg/L	10		EPA 6020A	Total Recoverable
Lithium	0.882		0.0500	0.0129	mg/L	10		EPA 6020A	Total Recoverable
Total Dissolved Solids	6780		40.0	40.0	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-03

Lab Sample ID: 860-56724-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	0.797		0.500	0.100	mg/L	1		300.0	Total/NA
Chloride - DL	1560		5.00	2.50	mg/L	10		300.0	Total/NA
Sulfate - DL	3530		5.00	2.00	mg/L	10		300.0	Total/NA
Arsenic	0.0324	J	0.0500	0.0141	mg/L	50		EPA 6020A	Total Recoverable
Boron	14.6		4.00	3.01	mg/L	50		EPA 6020A	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Houston

Detection Summary

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56724-1

Client Sample ID: MW-03 (Continued)

Lab Sample ID: 860-56724-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	0.0291	J	0.0500	0.0137	mg/L	50		EPA 6020A	Total Recoverable
Calcium	601		25.0	6.35	mg/L	50		EPA 6020A	Total Recoverable
Cadmium	0.0537	^5+	0.0500	0.0109	mg/L	50		EPA 6020A	Total Recoverable
Cobalt	0.388		0.0250	0.0131	mg/L	50		EPA 6020A	Total Recoverable
Magnesium	111		25.0	2.49	mg/L	50		EPA 6020A	Total Recoverable
Sodium	2440		25.0	9.20	mg/L	50		EPA 6020A	Total Recoverable
Potassium	32.8		5.00	1.56	mg/L	10		EPA 6020A	Total Recoverable
Lithium	1.94		0.250	0.0645	mg/L	50		EPA 6020A	Total Recoverable
Total Dissolved Solids	9090		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: PZ-05

Lab Sample ID: 860-56724-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	3.84		0.500	0.100	mg/L	1		300.0	Total/NA
Chloride - DL	1820		5.00	2.50	mg/L	10		300.0	Total/NA
Sulfate - DL	2540		5.00	2.00	mg/L	10		300.0	Total/NA
Potassium	20.1		5.00	1.56	mg/L	10		EPA 6020A	Total Recoverable
Mercury	0.199	J	0.200	0.130	ug/L	1		EPA 7470A	Total/NA
Total Dissolved Solids	8750		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: PZ-06

Lab Sample ID: 860-56724-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride - DL	1710		5.00	2.50	mg/L	10		300.0	Total/NA
Sulfate - DL	2410		5.00	2.00	mg/L	10		300.0	Total/NA
Calcium	740		5.00	1.27	mg/L	10		EPA 6020A	Total Recoverable
Magnesium	121		25.0	2.49	mg/L	50		EPA 6020A	Total Recoverable
Sodium	1860		25.0	9.20	mg/L	50		EPA 6020A	Total Recoverable
Potassium	46.9		5.00	1.56	mg/L	10		EPA 6020A	Total Recoverable
Lithium	1.19		0.250	0.0645	mg/L	50		EPA 6020A	Total Recoverable
Total Alkalinity	89.3		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	89.3		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	8100		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: EB-01

Lab Sample ID: 860-56724-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1.56		0.500	0.250	mg/L	1		300.0	Total/NA
Sulfate	0.209	J	0.500	0.200	mg/L	1		300.0	Total/NA
Sodium	2.49	J	5.00	1.84	mg/L	10		EPA 6020A	Total Recoverable
Total Dissolved Solids	90.5		5.00	5.00	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: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56724-1

Client Sample ID: DUP-02

Lab Sample ID: 860-56724-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Fluoride	1.32		0.500	0.100	mg/L	1			300.0	Total/NA
Chloride - DL	1520		5.00	2.50	mg/L	10			300.0	Total/NA
Sulfate - DL	3560		5.00	2.00	mg/L	10			300.0	Total/NA
Arsenic	0.0323	J	0.0500	0.0141	mg/L	50			EPA 6020A	Total Recoverable
Boron	14.4		4.00	3.01	mg/L	50			EPA 6020A	Total Recoverable
Beryllium	0.0294	J	0.0500	0.0137	mg/L	50			EPA 6020A	Total Recoverable
Calcium	578		25.0	6.35	mg/L	50			EPA 6020A	Total Recoverable
Cadmium	0.0657	^5+	0.0500	0.0109	mg/L	50			EPA 6020A	Total Recoverable
Cobalt	0.410		0.0250	0.0131	mg/L	50			EPA 6020A	Total Recoverable
Magnesium	105		25.0	2.49	mg/L	50			EPA 6020A	Total Recoverable
Sodium	2330		25.0	9.20	mg/L	50			EPA 6020A	Total Recoverable
Potassium	33.7		5.00	1.56	mg/L	10			EPA 6020A	Total Recoverable
Lithium	1.83		0.250	0.0645	mg/L	50			EPA 6020A	Total Recoverable
Total Dissolved Solids	9400		100	100	mg/L	1			SM 2540C	Total/NA

Client Sample ID: FB-02

Lab Sample ID: 860-56724-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Chloride	1.54		0.500	0.250	mg/L	1			300.0	Total/NA
Sulfate	0.361	J	0.500	0.200	mg/L	1			300.0	Total/NA
Sodium	2.83	J	5.00	1.84	mg/L	10			EPA 6020A	Total Recoverable
Total Alkalinity	20.7		4.00	4.00	mg/L	1			SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	20.7		4.00	4.00	mg/L	1			SM 2320B	Total/NA
Total Dissolved Solids	26.5		5.00	5.00	mg/L	1			SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Houston

Client Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56724-1

Client Sample ID: PZ-02

Lab Sample ID: 860-56724-1

Date Collected: 09/06/23 10:55

Matrix: Water

Date Received: 09/07/23 10:06

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	1.00	U	5.00	1.00	mg/L			09/16/23 15:20	10
Sulfate	4070		5.00	2.00	mg/L			09/16/23 15:20	10

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4680		10.0	5.00	mg/L			09/18/23 14:43	20

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		09/20/23 07:04	11/08/23 17:11	10
Boron	6.57		4.00	3.01	mg/L		09/20/23 07:04	11/09/23 14:27	50
Barium	0.0314	U ^5+	0.100	0.0314	mg/L		09/20/23 07:04	11/08/23 17:11	10
Beryllium	0.00274	U	0.0100	0.00274	mg/L		09/20/23 07:04	11/08/23 17:11	10
Calcium	843		5.00	1.27	mg/L		09/20/23 07:04	11/06/23 11:38	10
Cadmium	0.00217	U ^5+	0.0100	0.00217	mg/L		09/20/23 07:04	11/08/23 17:11	10
Chromium	0.0153	U	0.0200	0.0153	mg/L		09/20/23 07:04	11/08/23 17:11	10
Cobalt	0.00455	J	0.00500	0.00261	mg/L		09/20/23 07:04	11/08/23 17:11	10
Magnesium	118		5.00	0.498	mg/L		09/20/23 07:04	11/08/23 17:11	10
Molybdenum	0.00610	U	0.0500	0.00610	mg/L		09/20/23 07:04	11/08/23 17:11	10
Sodium	2370		5.00	1.84	mg/L		09/20/23 07:04	11/08/23 17:11	10
Lead	0.00376	U	0.0100	0.00376	mg/L		09/20/23 07:04	11/08/23 17:11	10
Antimony	0.00967	U	0.0200	0.00967	mg/L		09/20/23 07:04	11/06/23 11:38	10
Thallium	0.00472	U	0.0100	0.00472	mg/L		09/20/23 07:04	11/08/23 17:11	10
Selenium	0.00739	U	0.0500	0.00739	mg/L		09/20/23 07:04	11/08/23 17:11	10
Potassium	44.0		5.00	1.56	mg/L		09/20/23 07:04	11/08/23 17:11	10
Lithium	1.74		0.0500	0.0129	mg/L		09/20/23 07:04	11/08/23 17:11	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		09/13/23 09:07	09/14/23 08:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	104		4.00	4.00	mg/L			09/14/23 00:31	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	104		4.00	4.00	mg/L			09/14/23 00:31	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			09/14/23 00:31	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			09/14/23 00:31	1
Total Dissolved Solids (SM 2540C)	11000		100	100	mg/L			09/12/23 10:56	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	2.02		0.585	0.613	1.00	0.636	pCi/L	09/14/23 10:08	10/02/23 12:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.0		30 - 110					09/14/23 10:08	10/02/23 12:36	1
Y Carrier	82.6		30 - 110					09/14/23 10:08	10/02/23 12:36	1

Client Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56724-1

Client Sample ID: PZ-02

Lab Sample ID: 860-56724-1

Date Collected: 09/06/23 10:55

Matrix: Water

Date Received: 09/07/23 10:06

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		1.10		1.00	0.320	pCi/L	09/11/23 10:56	09/22/23 08:24	1

Client Sample ID: PZ-03

Lab Sample ID: 860-56724-2

Date Collected: 09/06/23 09:00

Matrix: Water

Date Received: 09/07/23 10:06

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	5.53		5.00	1.00	mg/L			09/16/23 11:15	10
Sulfate	3690		5.00	2.00	mg/L			09/16/23 11:15	10

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5030		50.0	25.0	mg/L			09/18/23 14:35	100

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0885		0.0200	0.00564	mg/L		09/20/23 07:04	11/08/23 17:14	20
Boron	9.86		4.00	3.01	mg/L		09/20/23 07:04	11/09/23 14:30	50
Barium	0.0628	U ^5+	0.200	0.0628	mg/L		09/20/23 07:04	11/08/23 17:14	20
Beryllium	0.244		0.0200	0.00548	mg/L		09/20/23 07:04	11/08/23 17:14	20
Calcium	921		5.00	1.27	mg/L		09/20/23 07:04	11/06/23 11:41	10
Cadmium	0.495	^5+	0.0200	0.00434	mg/L		09/20/23 07:04	11/08/23 17:14	20
Chromium	0.0306	U	0.0400	0.0306	mg/L		09/20/23 07:04	11/08/23 17:14	20
Cobalt	1.41		0.0100	0.00522	mg/L		09/20/23 07:04	11/08/23 17:14	20
Magnesium	254		10.0	0.996	mg/L		09/20/23 07:04	11/08/23 17:14	20
Molybdenum	0.0122	U	0.100	0.0122	mg/L		09/20/23 07:04	11/08/23 17:14	20
Sodium	3280		10.0	3.68	mg/L		09/20/23 07:04	11/08/23 17:14	20
Lead	0.00752	U	0.0200	0.00752	mg/L		09/20/23 07:04	11/08/23 17:14	20
Antimony	0.00967	U F1	0.0200	0.00967	mg/L		09/20/23 07:04	11/06/23 11:41	10
Thallium	0.00944	U	0.0200	0.00944	mg/L		09/20/23 07:04	11/08/23 17:14	20
Selenium	0.0438	J	0.100	0.0148	mg/L		09/20/23 07:04	11/08/23 17:14	20
Potassium	27.0		10.0	3.12	mg/L		09/20/23 07:04	11/08/23 17:14	20
Lithium	2.21		0.100	0.0258	mg/L		09/20/23 07:04	11/08/23 17:14	20

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.538		0.200	0.130	ug/L		09/13/23 09:07	09/14/23 08:43	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			09/14/23 00:36	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			09/14/23 00:36	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			09/14/23 00:36	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			09/14/23 00:36	1
Total Dissolved Solids (SM 2540C)	14800		100	100	mg/L			09/12/23 10:56	1

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Client Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56724-1

Client Sample ID: PZ-03

Lab Sample ID: 860-56724-2

Date Collected: 09/06/23 09:00

Matrix: Water

Date Received: 09/07/23 10:06

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	4.31		0.863	0.950	1.00	0.832	pCi/L	09/14/23 10:08	10/02/23 12:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.6		30 - 110					09/14/23 10:08	10/02/23 12:51	1
Y Carrier	82.6		30 - 110					09/14/23 10:08	10/02/23 12:51	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	2.35		0.570		1.00	0.250	pCi/L	09/11/23 10:50	09/26/23 12:59	1

Client Sample ID: AP-31

Lab Sample ID: 860-56724-3

Date Collected: 09/06/23 08:45

Matrix: Water

Date Received: 09/07/23 10:06

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.100	U	0.500	0.100	mg/L			09/16/23 10:41	1

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1750		5.00	2.50	mg/L			09/16/23 10:50	10
Sulfate	2420		5.00	2.00	mg/L			09/16/23 10:50	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.141	U	0.500	0.141	mg/L		09/20/23 07:04	11/08/23 17:32	500
Boron	68.7		40.0	30.1	mg/L		09/20/23 07:04	11/09/23 14:39	500
Barium	1.57	U ^5+	5.00	1.57	mg/L		09/20/23 07:04	11/08/23 17:32	500
Beryllium	0.0274	U	0.100	0.0274	mg/L		09/20/23 07:04	11/08/23 17:29	100
Calcium	714		250	63.5	mg/L		09/20/23 07:04	11/08/23 17:32	500
Cadmium	0.109	U ^5+	0.500	0.109	mg/L		09/20/23 07:04	11/08/23 17:32	500
Chromium	0.765	U	1.00	0.765	mg/L		09/20/23 07:04	11/08/23 17:32	500
Cobalt	0.277		0.250	0.131	mg/L		09/20/23 07:04	11/08/23 17:32	500
Magnesium	82.0	J	250	24.9	mg/L		09/20/23 07:04	11/08/23 17:32	500
Molybdenum	0.305	U	2.50	0.305	mg/L		09/20/23 07:04	11/08/23 17:32	500
Sodium	1980		250	92.0	mg/L		09/20/23 07:04	11/08/23 17:32	500
Lead	0.188	U	0.500	0.188	mg/L		09/20/23 07:04	11/08/23 17:32	500
Antimony	0.00967	U	0.0200	0.00967	mg/L		09/20/23 07:04	11/06/23 11:55	10
Thallium	0.236	U	0.500	0.236	mg/L		09/20/23 07:04	11/08/23 17:32	500
Selenium	0.370	U	2.50	0.370	mg/L		09/20/23 07:04	11/08/23 17:32	500
Potassium	78.0	U	250	78.0	mg/L		09/20/23 07:04	11/08/23 17:32	500
Lithium	0.987		0.500	0.129	mg/L		09/20/23 07:04	11/08/23 17:29	100

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.432		0.200	0.130	ug/L		09/13/23 09:07	09/14/23 08:46	1

Client Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56724-1

Client Sample ID: AP-31

Lab Sample ID: 860-56724-3

Date Collected: 09/06/23 08:45

Matrix: Water

Date Received: 09/07/23 10:06

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			09/14/23 00:42	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			09/14/23 00:42	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			09/14/23 00:42	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			09/14/23 00:42	1
Total Dissolved Solids (SM 2540C)	8280		100	100	mg/L			09/12/23 10:56	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	1.91		0.490	0.520	1.00	0.511	pCi/L	09/14/23 10:08	10/02/23 12:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.8		30 - 110					09/14/23 10:08	10/02/23 12:53	1
Y Carrier	84.1		30 - 110					09/14/23 10:08	10/02/23 12:53	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	0.570		0.990		1.00	0.400	pCi/L	09/11/23 10:56	09/22/23 08:24	1

Client Sample ID: AP-32

Lab Sample ID: 860-56724-4

Date Collected: 09/06/23 10:10

Matrix: Water

Date Received: 09/07/23 10:06

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2270		5.00	2.50	mg/L			09/16/23 15:28	10
Fluoride	1.38	J	5.00	1.00	mg/L			09/16/23 15:28	10
Sulfate	2900		5.00	2.00	mg/L			09/16/23 15:28	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0825	J	0.100	0.0282	mg/L		09/20/23 07:04	11/08/23 17:35	100
Boron	25.2		8.00	6.01	mg/L		09/20/23 07:04	11/09/23 14:42	100
Barium	0.314	U ^5+	1.00	0.314	mg/L		09/20/23 07:04	11/08/23 17:35	100
Beryllium	0.0570	J	0.100	0.0274	mg/L		09/20/23 07:04	11/08/23 17:35	100
Calcium	703		5.00	1.27	mg/L		09/20/23 07:04	11/06/23 12:26	10
Cadmium	0.0758	J ^5+	0.100	0.0217	mg/L		09/20/23 07:04	11/08/23 17:35	100
Chromium	0.153	U	0.200	0.153	mg/L		09/20/23 07:04	11/08/23 17:35	100
Cobalt	0.627		0.0500	0.0261	mg/L		09/20/23 07:04	11/08/23 17:35	100
Magnesium	100		50.0	4.98	mg/L		09/20/23 07:04	11/08/23 17:35	100
Molybdenum	0.0610	U	0.500	0.0610	mg/L		09/20/23 07:04	11/08/23 17:35	100
Sodium	2600		50.0	18.4	mg/L		09/20/23 07:04	11/08/23 17:35	100
Lead	0.0376	U	0.100	0.0376	mg/L		09/20/23 07:04	11/08/23 17:35	100
Antimony	0.00967	U	0.0200	0.00967	mg/L		09/20/23 07:04	11/06/23 12:26	10
Thallium	0.0472	U	0.100	0.0472	mg/L		09/20/23 07:04	11/08/23 17:35	100
Selenium	0.0739	U	0.500	0.0739	mg/L		09/20/23 07:04	11/08/23 17:35	100

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Client Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56724-1

Client Sample ID: AP-32

Lab Sample ID: 860-56724-4

Date Collected: 09/06/23 10:10

Matrix: Water

Date Received: 09/07/23 10:06

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	40.6		5.00	1.56	mg/L		09/20/23 07:04	11/06/23 12:26	10
Lithium	1.75		0.500	0.129	mg/L		09/20/23 07:04	11/08/23 17:35	100

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.51		0.200	0.130	ug/L		09/13/23 09:07	09/14/23 08:47	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			09/14/23 00:47	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			09/14/23 00:47	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			09/14/23 00:47	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			09/14/23 00:47	1
Total Dissolved Solids (SM 2540C)	9880		100	100	mg/L			09/12/23 10:56	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	9.59		1.00	1.34	1.00	0.670	pCi/L	09/14/23 10:08	10/02/23 12:53	1
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>					<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Ba Carrier	100		30 - 110					09/14/23 10:08	10/02/23 12:53	1
Y Carrier	79.3		30 - 110					09/14/23 10:08	10/02/23 12:53	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	2.37		1.65		1.00	0.400	pCi/L	09/11/23 10:56	09/22/23 08:24	1

Client Sample ID: AP-33

Lab Sample ID: 860-56724-5

Date Collected: 09/06/23 08:55

Matrix: Water

Date Received: 09/07/23 10:06

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3430		5.00	2.50	mg/L			09/16/23 15:36	10
Fluoride	5.09		5.00	1.00	mg/L			09/16/23 15:36	10
Sulfate	2980		5.00	2.00	mg/L			09/16/23 15:36	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.100		0.0500	0.0141	mg/L		09/20/23 07:04	11/08/23 17:38	50
Boron	59.8		20.0	15.0	mg/L		09/20/23 07:04	11/09/23 14:45	250
Barium	0.157	U ^5+	0.500	0.157	mg/L		09/20/23 07:04	11/08/23 17:38	50
Beryllium	0.291		0.0500	0.0137	mg/L		09/20/23 07:04	11/08/23 17:38	50
Calcium	681		5.00	1.27	mg/L		09/20/23 07:04	11/06/23 12:28	10
Cadmium	0.110	^5+	0.0500	0.0109	mg/L		09/20/23 07:04	11/08/23 17:38	50
Chromium	0.0765	U	0.100	0.0765	mg/L		09/20/23 07:04	11/08/23 17:38	50

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Client Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56724-1

Client Sample ID: AP-33

Lab Sample ID: 860-56724-5

Date Collected: 09/06/23 08:55

Matrix: Water

Date Received: 09/07/23 10:06

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	1.38		0.0250	0.0131	mg/L		09/20/23 07:04	11/08/23 17:38	50
Magnesium	204		25.0	2.49	mg/L		09/20/23 07:04	11/08/23 17:38	50
Molybdenum	0.0305	U	0.250	0.0305	mg/L		09/20/23 07:04	11/08/23 17:38	50
Sodium	2850		25.0	9.20	mg/L		09/20/23 07:04	11/08/23 17:38	50
Lead	0.0188	U	0.0500	0.0188	mg/L		09/20/23 07:04	11/08/23 17:38	50
Antimony	0.00967	U	0.0200	0.00967	mg/L		09/20/23 07:04	11/06/23 12:28	10
Thallium	0.0236	U	0.0500	0.0236	mg/L		09/20/23 07:04	11/08/23 17:38	50
Selenium	0.0370	U	0.250	0.0370	mg/L		09/20/23 07:04	11/08/23 17:38	50
Potassium	23.6		5.00	1.56	mg/L		09/20/23 07:04	11/06/23 12:28	10
Lithium	1.21		0.250	0.0645	mg/L		09/20/23 07:04	11/08/23 17:38	50

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	3.95		0.200	0.130	ug/L		09/13/23 09:07	09/14/23 08:48	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			09/14/23 00:52	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			09/14/23 00:52	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			09/14/23 00:52	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			09/14/23 00:52	1
Total Dissolved Solids (SM 2540C)	11900		100	100	mg/L			09/12/23 10:56	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	6.17		0.821	0.998	1.00	0.668	pCi/L	09/14/23 10:08	10/02/23 12:53	1
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>					<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Ba Carrier</i>	97.5		30 - 110					09/14/23 10:08	10/02/23 12:53	1
<i>Y Carrier</i>	85.2		30 - 110					09/14/23 10:08	10/02/23 12:53	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	0.500		1.77		1.00	0.460	pCi/L	09/11/23 10:56	09/22/23 08:24	1

Client Sample ID: AP-34

Lab Sample ID: 860-56724-6

Date Collected: 09/06/23 10:55

Matrix: Water

Date Received: 09/07/23 10:06

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2510		5.00	2.50	mg/L			09/16/23 15:45	10
Fluoride	6.80		5.00	1.00	mg/L			09/16/23 15:45	10
Sulfate	3000		5.00	2.00	mg/L			09/16/23 15:45	10

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Client Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56724-1

Client Sample ID: AP-34

Lab Sample ID: 860-56724-6

Date Collected: 09/06/23 10:55

Matrix: Water

Date Received: 09/07/23 10:06

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0773		0.0100	0.00282	mg/L		09/20/23 07:04	11/08/23 17:41	10
Boron	23.0		8.00	6.01	mg/L		09/20/23 07:04	11/09/23 14:48	100
Barium	0.0314	U ^5+	0.100	0.0314	mg/L		09/20/23 07:04	11/08/23 17:41	10
Beryllium	0.289		0.0100	0.00274	mg/L		09/20/23 07:04	11/08/23 17:41	10
Calcium	703		5.00	1.27	mg/L		09/20/23 07:04	11/06/23 12:42	10
Cadmium	0.0220	^5+	0.0100	0.00217	mg/L		09/20/23 07:04	11/08/23 17:41	10
Chromium	0.0153	U	0.0200	0.0153	mg/L		09/20/23 07:04	11/08/23 17:41	10
Cobalt	1.23		0.00500	0.00261	mg/L		09/20/23 07:04	11/08/23 17:41	10
Magnesium	152		5.00	0.498	mg/L		09/20/23 07:04	11/08/23 17:41	10
Molybdenum	0.00610	U	0.0500	0.00610	mg/L		09/20/23 07:04	11/08/23 17:41	10
Sodium	1880		5.00	1.84	mg/L		09/20/23 07:04	11/08/23 17:41	10
Lead	0.00376	U	0.0100	0.00376	mg/L		09/20/23 07:04	11/08/23 17:41	10
Antimony	0.00967	U	0.0200	0.00967	mg/L		09/20/23 07:04	11/06/23 12:42	10
Thallium	0.00472	U	0.0100	0.00472	mg/L		09/20/23 07:04	11/08/23 17:41	10
Selenium	0.0178	J	0.0500	0.00739	mg/L		09/20/23 07:04	11/08/23 17:41	10
Potassium	16.5		5.00	1.56	mg/L		09/20/23 07:04	11/06/23 12:42	10
Lithium	1.43		0.0500	0.0129	mg/L		09/20/23 07:04	11/08/23 17:41	10

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	3.38		0.200	0.130	ug/L		09/13/23 09:07	09/14/23 08:49	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			09/14/23 01:14	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			09/14/23 01:14	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			09/14/23 01:14	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			09/14/23 01:14	1
Total Dissolved Solids (SM 2540C)	10100		100	100	mg/L			09/12/23 10:56	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	3.50		0.624	0.702	1.00	0.514	pCi/L	09/14/23 10:08	10/02/23 12:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.0		30 - 110					09/14/23 10:08	10/02/23 12:53	1
Y Carrier	83.7		30 - 110					09/14/23 10:08	10/02/23 12:53	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	0.280	U	1.29		1.00	0.360	pCi/L	09/11/23 10:56	09/22/23 08:24	1

Client Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56724-1

Client Sample ID: AP-35

Lab Sample ID: 860-56724-7

Date Collected: 09/06/23 10:45

Matrix: Water

Date Received: 09/07/23 10:06

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2190		5.00	2.50	mg/L			09/16/23 15:53	10
Fluoride	11.6		5.00	1.00	mg/L			09/16/23 15:53	10
Sulfate	3190		5.00	2.00	mg/L			09/16/23 15:53	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0224		0.0100	0.00282	mg/L		09/20/23 07:04	11/08/23 17:44	10
Boron	5.61		4.00	3.01	mg/L		09/20/23 07:04	11/09/23 14:51	50
Barium	0.0314	U ^5+	0.100	0.0314	mg/L		09/20/23 07:04	11/08/23 17:44	10
Beryllium	0.309		0.0100	0.00274	mg/L		09/20/23 07:04	11/08/23 17:44	10
Calcium	549		5.00	1.27	mg/L		09/20/23 07:04	11/08/23 17:44	10
Cadmium	0.00217	U ^5+	0.0100	0.00217	mg/L		09/20/23 07:04	11/08/23 17:44	10
Chromium	0.0153	U	0.0200	0.0153	mg/L		09/20/23 07:04	11/08/23 17:44	10
Cobalt	0.0388		0.00500	0.00261	mg/L		09/20/23 07:04	11/08/23 17:44	10
Magnesium	149		5.00	0.498	mg/L		09/20/23 07:04	11/08/23 17:44	10
Molybdenum	0.00610	U	0.0500	0.00610	mg/L		09/20/23 07:04	11/08/23 17:44	10
Sodium	1530		5.00	1.84	mg/L		09/20/23 07:04	11/08/23 17:44	10
Lead	0.00376	U	0.0100	0.00376	mg/L		09/20/23 07:04	11/08/23 17:44	10
Antimony	0.00967	U	0.0200	0.00967	mg/L		09/20/23 07:04	11/06/23 12:45	10
Thallium	0.00472	U	0.0100	0.00472	mg/L		09/20/23 07:04	11/08/23 17:44	10
Selenium	0.0128	J	0.0500	0.00739	mg/L		09/20/23 07:04	11/08/23 17:44	10
Potassium	47.1		5.00	1.56	mg/L		09/20/23 07:04	11/06/23 12:45	10
Lithium	1.63		0.0500	0.0129	mg/L		09/20/23 07:04	11/08/23 17:44	10

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	2.96		0.200	0.130	ug/L		09/13/23 09:07	09/14/23 08:54	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			09/14/23 01:19	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			09/14/23 01:19	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			09/14/23 01:19	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			09/14/23 01:19	1
Total Dissolved Solids (SM 2540C)	9300		100	100	mg/L			09/12/23 10:56	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	18.3		1.30	2.12	1.00	0.523	pCi/L	09/14/23 10:08	10/02/23 12:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.3		30 - 110					09/14/23 10:08	10/02/23 12:53	1
Y Carrier	83.7		30 - 110					09/14/23 10:08	10/02/23 12:53	1

Client Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56724-1

Client Sample ID: AP-35

Lab Sample ID: 860-56724-7

Date Collected: 09/06/23 10:45

Matrix: Water

Date Received: 09/07/23 10:06

Method: SM7500 Ra B - Radium-226

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra-226	3.22		2.43		1.00	0.410	pCi/L	09/11/23 10:56	09/22/23 09:59	1

Client Sample ID: AP-36

Lab Sample ID: 860-56724-8

Date Collected: 09/06/23 10:05

Matrix: Water

Date Received: 09/07/23 10:06

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.634		0.500	0.100	mg/L			09/16/23 13:38	1

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1400		5.00	2.50	mg/L			09/16/23 13:47	10
Sulfate	2570		5.00	2.00	mg/L			09/16/23 13:47	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00367	J	0.0100	0.00282	mg/L		09/20/23 07:04	11/08/23 18:15	10
Boron	2.16		0.800	0.601	mg/L		09/20/23 07:04	11/09/23 14:55	10
Barium	0.0314	U ^5+	0.100	0.0314	mg/L		09/20/23 07:04	11/08/23 18:15	10
Beryllium	0.00749	J	0.0100	0.00274	mg/L		09/20/23 07:04	11/08/23 18:15	10
Calcium	577		5.00	1.27	mg/L		09/20/23 07:04	11/08/23 18:15	10
Cadmium	0.00217	U ^5+	0.0100	0.00217	mg/L		09/20/23 07:04	11/08/23 18:15	10
Chromium	0.0153	U	0.0200	0.0153	mg/L		09/20/23 07:04	11/08/23 18:15	10
Cobalt	0.0529		0.00500	0.00261	mg/L		09/20/23 07:04	11/08/23 18:15	10
Magnesium	94.0		5.00	0.498	mg/L		09/20/23 07:04	11/08/23 18:15	10
Molybdenum	0.00610	U	0.0500	0.00610	mg/L		09/20/23 07:04	11/08/23 18:15	10
Sodium	1270		5.00	1.84	mg/L		09/20/23 07:04	11/08/23 18:15	10
Lead	0.00376	U	0.0100	0.00376	mg/L		09/20/23 07:04	11/08/23 18:15	10
Antimony	0.00967	U	0.0200	0.00967	mg/L		09/20/23 07:04	11/06/23 12:48	10
Thallium	0.00472	U	0.0100	0.00472	mg/L		09/20/23 07:04	11/08/23 18:15	10
Selenium	0.00739	U	0.0500	0.00739	mg/L		09/20/23 07:04	11/08/23 18:15	10
Potassium	37.5		5.00	1.56	mg/L		09/20/23 07:04	11/06/23 12:48	10
Lithium	0.882		0.0500	0.0129	mg/L		09/20/23 07:04	11/08/23 18:15	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		09/13/23 09:07	09/14/23 08:55	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			09/14/23 01:25	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			09/14/23 01:25	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			09/14/23 01:25	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			09/14/23 01:25	1
Total Dissolved Solids (SM 2540C)	6780		40.0	40.0	mg/L			09/12/23 10:56	1

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Client Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56724-1

Client Sample ID: AP-36

Lab Sample ID: 860-56724-8

Date Collected: 09/06/23 10:05

Matrix: Water

Date Received: 09/07/23 10:06

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	3.26		0.589	0.661	1.00	0.503	pCi/L	09/14/23 10:08	10/02/23 12:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		30 - 110					09/14/23 10:08	10/02/23 12:53	1
Y Carrier	84.9		30 - 110					09/14/23 10:08	10/02/23 12:53	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		1.50		1.00	0.380	pCi/L	09/11/23 10:56	09/22/23 09:59	1

Client Sample ID: MW-03

Lab Sample ID: 860-56724-9

Date Collected: 09/06/23 09:25

Matrix: Water

Date Received: 09/07/23 10:06

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.797		0.500	0.100	mg/L			09/16/23 13:55	1

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1560		5.00	2.50	mg/L			09/16/23 14:04	10
Sulfate	3530		5.00	2.00	mg/L			09/16/23 14:04	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0324	J	0.0500	0.0141	mg/L		09/20/23 07:04	11/08/23 18:18	50
Boron	14.6		4.00	3.01	mg/L		09/20/23 07:04	11/09/23 14:58	50
Barium	0.157	U ^5+	0.500	0.157	mg/L		09/20/23 07:04	11/08/23 18:18	50
Beryllium	0.0291	J	0.0500	0.0137	mg/L		09/20/23 07:04	11/08/23 18:18	50
Calcium	601		25.0	6.35	mg/L		09/20/23 07:04	11/08/23 18:18	50
Cadmium	0.0537	^5+	0.0500	0.0109	mg/L		09/20/23 07:04	11/08/23 18:18	50
Chromium	0.0765	U	0.100	0.0765	mg/L		09/20/23 07:04	11/08/23 18:18	50
Cobalt	0.388		0.0250	0.0131	mg/L		09/20/23 07:04	11/08/23 18:18	50
Magnesium	111		25.0	2.49	mg/L		09/20/23 07:04	11/08/23 18:18	50
Molybdenum	0.0305	U	0.250	0.0305	mg/L		09/20/23 07:04	11/08/23 18:18	50
Sodium	2440		25.0	9.20	mg/L		09/20/23 07:04	11/08/23 18:18	50
Lead	0.0188	U	0.0500	0.0188	mg/L		09/20/23 07:04	11/08/23 18:18	50
Antimony	0.00967	U	0.0200	0.00967	mg/L		09/20/23 07:04	11/06/23 12:51	10
Thallium	0.0236	U	0.0500	0.0236	mg/L		09/20/23 07:04	11/08/23 18:18	50
Selenium	0.0370	U	0.250	0.0370	mg/L		09/20/23 07:04	11/08/23 18:18	50
Potassium	32.8		5.00	1.56	mg/L		09/20/23 07:04	11/06/23 12:51	10
Lithium	1.94		0.250	0.0645	mg/L		09/20/23 07:04	11/08/23 18:18	50

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		09/13/23 09:05	09/14/23 09:37	1

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Client Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56724-1

Client Sample ID: MW-03

Lab Sample ID: 860-56724-9

Date Collected: 09/06/23 09:25

Matrix: Water

Date Received: 09/07/23 10:06

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			09/13/23 23:22	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			09/13/23 23:22	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			09/13/23 23:22	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			09/13/23 23:22	1
Total Dissolved Solids (SM 2540C)	9090		100	100	mg/L			09/12/23 10:56	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	4.14		0.695	0.793	1.00	0.553	pCi/L	09/14/23 10:08	10/02/23 12:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.8		30 - 110					09/14/23 10:08	10/02/23 12:55	1
Y Carrier	86.0		30 - 110					09/14/23 10:08	10/02/23 12:55	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	1.04		2.17		1.00	0.600	pCi/L	09/11/23 10:56	09/22/23 09:59	1

Client Sample ID: PZ-05

Lab Sample ID: 860-56724-10

Date Collected: 09/06/23 09:55

Matrix: Water

Date Received: 09/07/23 10:06

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	3.84		0.500	0.100	mg/L			09/16/23 12:14	1

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1820		5.00	2.50	mg/L			09/16/23 12:23	10
Sulfate	2540		5.00	2.00	mg/L			09/16/23 12:23	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0282	U	0.100	0.0282	mg/L		09/20/23 07:04	11/08/23 18:21	100
Boron	6.01	U ^^	8.00	6.01	mg/L		09/20/23 07:04	11/08/23 18:21	100
Barium	0.314	U ^5+	1.00	0.314	mg/L		09/20/23 07:04	11/08/23 18:21	100
Beryllium	0.0274	U	0.100	0.0274	mg/L		09/20/23 07:04	11/08/23 18:21	100
Calcium	12.7	U	50.0	12.7	mg/L		09/20/23 07:04	11/08/23 18:21	100
Cadmium	0.0217	U ^5+	0.100	0.0217	mg/L		09/20/23 07:04	11/08/23 18:21	100
Chromium	0.153	U	0.200	0.153	mg/L		09/20/23 07:04	11/08/23 18:21	100
Cobalt	0.0261	U	0.0500	0.0261	mg/L		09/20/23 07:04	11/08/23 18:21	100
Magnesium	4.98	U	50.0	4.98	mg/L		09/20/23 07:04	11/08/23 18:21	100
Molybdenum	0.0610	U	0.500	0.0610	mg/L		09/20/23 07:04	11/08/23 18:21	100
Sodium	18.4	U	50.0	18.4	mg/L		09/20/23 07:04	11/08/23 18:21	100
Lead	0.0376	U	0.100	0.0376	mg/L		09/20/23 07:04	11/08/23 18:21	100
Antimony	0.00967	U	0.0200	0.00967	mg/L		09/20/23 07:04	11/06/23 12:54	10

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Client Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56724-1

Client Sample ID: PZ-05

Lab Sample ID: 860-56724-10

Date Collected: 09/06/23 09:55

Matrix: Water

Date Received: 09/07/23 10:06

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.0472	U	0.100	0.0472	mg/L		09/20/23 07:04	11/08/23 18:21	100
Selenium	0.0739	U	0.500	0.0739	mg/L		09/20/23 07:04	11/08/23 18:21	100
Potassium	20.1		5.00	1.56	mg/L		09/20/23 07:04	11/06/23 12:54	10
Lithium	0.129	U	0.500	0.129	mg/L		09/20/23 07:04	11/08/23 18:21	100

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.199	J	0.200	0.130	ug/L		09/13/23 09:05	09/14/23 09:38	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			09/14/23 01:30	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			09/14/23 01:30	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			09/14/23 01:30	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			09/14/23 01:30	1
Total Dissolved Solids (SM 2540C)	8750		100	100	mg/L			09/12/23 10:56	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	3.42		0.629	0.703	1.00	0.562	pCi/L	09/14/23 10:08	10/02/23 12:55	1
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>					<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Ba Carrier</i>	93.3		30 - 110					09/14/23 10:08	10/02/23 12:55	1
<i>Y Carrier</i>	86.4		30 - 110					09/14/23 10:08	10/02/23 12:55	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	1.38		1.14		1.00	0.390	pCi/L	09/11/23 10:56	09/22/23 09:59	1

Client Sample ID: PZ-06

Lab Sample ID: 860-56724-11

Date Collected: 09/06/23 09:20

Matrix: Water

Date Received: 09/07/23 10:06

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.100	U	0.500	0.100	mg/L			09/16/23 12:48	1

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1710		5.00	2.50	mg/L			09/16/23 12:56	10
Sulfate	2410		5.00	2.00	mg/L			09/16/23 12:56	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0141	U	0.0500	0.0141	mg/L		09/20/23 07:04	11/08/23 18:24	50
Boron	3.01	U	4.00	3.01	mg/L		09/20/23 07:04	11/09/23 15:19	50

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Client Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56724-1

Client Sample ID: PZ-06

Lab Sample ID: 860-56724-11

Date Collected: 09/06/23 09:20

Matrix: Water

Date Received: 09/07/23 10:06

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.157	U ^5+	0.500	0.157	mg/L		09/20/23 07:04	11/08/23 18:24	50
Beryllium	0.0137	U	0.0500	0.0137	mg/L		09/20/23 07:04	11/08/23 18:24	50
Calcium	740		5.00	1.27	mg/L		09/20/23 07:04	11/06/23 12:56	10
Cadmium	0.0109	U ^5+	0.0500	0.0109	mg/L		09/20/23 07:04	11/08/23 18:24	50
Chromium	0.0765	U	0.100	0.0765	mg/L		09/20/23 07:04	11/08/23 18:24	50
Cobalt	0.0131	U	0.0250	0.0131	mg/L		09/20/23 07:04	11/08/23 18:24	50
Magnesium	121		25.0	2.49	mg/L		09/20/23 07:04	11/08/23 18:24	50
Molybdenum	0.0305	U	0.250	0.0305	mg/L		09/20/23 07:04	11/08/23 18:24	50
Sodium	1860		25.0	9.20	mg/L		09/20/23 07:04	11/08/23 18:24	50
Lead	0.0188	U	0.0500	0.0188	mg/L		09/20/23 07:04	11/08/23 18:24	50
Antimony	0.00967	U	0.0200	0.00967	mg/L		09/20/23 07:04	11/06/23 12:56	10
Thallium	0.0236	U	0.0500	0.0236	mg/L		09/20/23 07:04	11/08/23 18:24	50
Selenium	0.0370	U	0.250	0.0370	mg/L		09/20/23 07:04	11/08/23 18:24	50
Potassium	46.9		5.00	1.56	mg/L		09/20/23 07:04	11/06/23 12:56	10
Lithium	1.19		0.250	0.0645	mg/L		09/20/23 07:04	11/08/23 18:24	50

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		09/13/23 09:05	09/14/23 09:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	89.3		4.00	4.00	mg/L			09/14/23 01:37	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	89.3		4.00	4.00	mg/L			09/14/23 01:37	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			09/14/23 01:37	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			09/14/23 01:37	1
Total Dissolved Solids (SM 2540C)	8100		100	100	mg/L			09/12/23 10:56	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	2.58		0.531	0.581	1.00	0.467	pCi/L	09/14/23 10:08	10/02/23 12:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.5		30 - 110					09/14/23 10:08	10/02/23 12:55	1
Y Carrier	84.1		30 - 110					09/14/23 10:08	10/02/23 12:55	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	0.230	U	1.42		1.00	0.550	pCi/L	09/12/23 09:26	09/25/23 10:16	1

Client Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56724-1

Client Sample ID: EB-01

Lab Sample ID: 860-56724-12

Date Collected: 09/06/23 09:40

Matrix: Water

Date Received: 09/07/23 10:06

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.56		0.500	0.250	mg/L			09/16/23 08:27	1
Fluoride	0.100	U	0.500	0.100	mg/L			09/16/23 08:27	1
Sulfate	0.209	J	0.500	0.200	mg/L			09/16/23 08:27	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		09/20/23 07:04	11/08/23 18:27	10
Boron	0.601	U ^+	0.800	0.601	mg/L		09/20/23 07:04	11/08/23 18:27	10
Barium	0.0314	U ^5+	0.100	0.0314	mg/L		09/20/23 07:04	11/08/23 18:27	10
Beryllium	0.00274	U	0.0100	0.00274	mg/L		09/20/23 07:04	11/08/23 18:27	10
Calcium	1.27	U	5.00	1.27	mg/L		09/20/23 07:04	11/08/23 18:27	10
Cadmium	0.00217	U ^5+	0.0100	0.00217	mg/L		09/20/23 07:04	11/08/23 18:27	10
Chromium	0.0153	U	0.0200	0.0153	mg/L		09/20/23 07:04	11/08/23 18:27	10
Cobalt	0.00261	U	0.00500	0.00261	mg/L		09/20/23 07:04	11/08/23 18:27	10
Magnesium	0.498	U	5.00	0.498	mg/L		09/20/23 07:04	11/08/23 18:27	10
Molybdenum	0.00610	U	0.0500	0.00610	mg/L		09/20/23 07:04	11/08/23 18:27	10
Sodium	2.49	J	5.00	1.84	mg/L		09/20/23 07:04	11/08/23 18:27	10
Lead	0.00376	U	0.0100	0.00376	mg/L		09/20/23 07:04	11/08/23 18:27	10
Antimony	0.00967	U	0.0200	0.00967	mg/L		09/20/23 07:04	11/06/23 12:59	10
Thallium	0.00472	U	0.0100	0.00472	mg/L		09/20/23 07:04	11/08/23 18:27	10
Selenium	0.00739	U	0.0500	0.00739	mg/L		09/20/23 07:04	11/08/23 18:27	10
Potassium	1.56	U	5.00	1.56	mg/L		09/20/23 07:04	11/06/23 12:59	10
Lithium	0.0129	U	0.0500	0.0129	mg/L		09/20/23 07:04	11/08/23 18:27	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		09/13/23 09:05	09/14/23 09:40	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			09/14/23 01:50	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			09/14/23 01:50	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			09/14/23 01:50	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			09/14/23 01:50	1
Total Dissolved Solids (SM 2540C)	90.5		5.00	5.00	mg/L			09/12/23 10:56	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Radium-228	0.461	U	0.353	0.356	1.00	0.540	pCi/L	09/14/23 10:08	10/02/23 12:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.5		30 - 110					09/14/23 10:08	10/02/23 12:55	1
Y Carrier	80.4		30 - 110					09/14/23 10:08	10/02/23 12:55	1

Client Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56724-1

Client Sample ID: EB-01

Lab Sample ID: 860-56724-12

Date Collected: 09/06/23 09:40

Matrix: Water

Date Received: 09/07/23 10:06

Method: SM7500 Ra B - Radium-226

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra-226	0.470	U	0.680		1.00	0.750	pCi/L	09/12/23 09:26	09/20/23 08:23	1

Client Sample ID: DUP-02

Lab Sample ID: 860-56724-13

Date Collected: 09/06/23 08:00

Matrix: Water

Date Received: 09/07/23 10:06

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	1.32		0.500	0.100	mg/L			09/16/23 13:05	1

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1520		5.00	2.50	mg/L			09/16/23 13:13	10
Sulfate	3560		5.00	2.00	mg/L			09/16/23 13:13	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0323	J	0.0500	0.0141	mg/L		09/20/23 07:04	11/08/23 18:30	50
Boron	14.4		4.00	3.01	mg/L		09/20/23 07:04	11/09/23 15:25	50
Barium	0.157	U ^5+	0.500	0.157	mg/L		09/20/23 07:04	11/08/23 18:30	50
Beryllium	0.0294	J	0.0500	0.0137	mg/L		09/20/23 07:04	11/08/23 18:30	50
Calcium	578		25.0	6.35	mg/L		09/20/23 07:04	11/08/23 18:30	50
Cadmium	0.0657	^5+	0.0500	0.0109	mg/L		09/20/23 07:04	11/08/23 18:30	50
Chromium	0.0765	U	0.100	0.0765	mg/L		09/20/23 07:04	11/08/23 18:30	50
Cobalt	0.410		0.0250	0.0131	mg/L		09/20/23 07:04	11/08/23 18:30	50
Magnesium	105		25.0	2.49	mg/L		09/20/23 07:04	11/08/23 18:30	50
Molybdenum	0.0305	U	0.250	0.0305	mg/L		09/20/23 07:04	11/08/23 18:30	50
Sodium	2330		25.0	9.20	mg/L		09/20/23 07:04	11/08/23 18:30	50
Lead	0.0188	U	0.0500	0.0188	mg/L		09/20/23 07:04	11/08/23 18:30	50
Antimony	0.00967	U	0.0200	0.00967	mg/L		09/20/23 07:04	11/06/23 13:02	10
Thallium	0.0236	U	0.0500	0.0236	mg/L		09/20/23 07:04	11/08/23 18:30	50
Selenium	0.0370	U	0.250	0.0370	mg/L		09/20/23 07:04	11/08/23 18:30	50
Potassium	33.7		5.00	1.56	mg/L		09/20/23 07:04	11/06/23 13:02	10
Lithium	1.83		0.250	0.0645	mg/L		09/20/23 07:04	11/08/23 18:30	50

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		09/13/23 09:05	09/14/23 09:45	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			09/14/23 01:55	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			09/14/23 01:55	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			09/14/23 01:55	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			09/14/23 01:55	1
Total Dissolved Solids (SM 2540C)	9400		100	100	mg/L			09/12/23 10:56	1

Client Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56724-1

Client Sample ID: DUP-02

Lab Sample ID: 860-56724-13

Date Collected: 09/06/23 08:00

Matrix: Water

Date Received: 09/07/23 10:06

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	5.00		0.706	0.843	1.00	0.464	pCi/L	09/14/23 10:08	10/02/23 12:55	1
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>					<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Ba Carrier	96.0		30 - 110					09/14/23 10:08	10/02/23 12:55	1
Y Carrier	86.0		30 - 110					09/14/23 10:08	10/02/23 12:55	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	0.970		1.85		1.00	0.700	pCi/L	09/12/23 09:26	09/25/23 10:16	1

Client Sample ID: FB-02

Lab Sample ID: 860-56724-14

Date Collected: 09/06/23 10:25

Matrix: Water

Date Received: 09/07/23 10:06

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.54		0.500	0.250	mg/L			09/16/23 08:35	1
Fluoride	0.100	U	0.500	0.100	mg/L			09/16/23 08:35	1
Sulfate	0.361	J	0.500	0.200	mg/L			09/16/23 08:35	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		09/20/23 07:04	11/08/23 18:33	10
Boron	0.601	U ^+	0.800	0.601	mg/L		09/20/23 07:04	11/08/23 18:33	10
Barium	0.0314	U ^5+	0.100	0.0314	mg/L		09/20/23 07:04	11/08/23 18:33	10
Beryllium	0.00274	U	0.0100	0.00274	mg/L		09/20/23 07:04	11/08/23 18:33	10
Calcium	1.27	U	5.00	1.27	mg/L		09/20/23 07:04	11/08/23 18:33	10
Cadmium	0.00217	U ^5+	0.0100	0.00217	mg/L		09/20/23 07:04	11/08/23 18:33	10
Chromium	0.0153	U	0.0200	0.0153	mg/L		09/20/23 07:04	11/08/23 18:33	10
Cobalt	0.00261	U	0.00500	0.00261	mg/L		09/20/23 07:04	11/08/23 18:33	10
Magnesium	0.498	U	5.00	0.498	mg/L		09/20/23 07:04	11/08/23 18:33	10
Molybdenum	0.00610	U	0.0500	0.00610	mg/L		09/20/23 07:04	11/08/23 18:33	10
Sodium	2.83	J	5.00	1.84	mg/L		09/20/23 07:04	11/08/23 18:33	10
Lead	0.00376	U	0.0100	0.00376	mg/L		09/20/23 07:04	11/08/23 18:33	10
Antimony	0.00967	U	0.0200	0.00967	mg/L		09/20/23 07:04	11/06/23 13:05	10
Thallium	0.00472	U	0.0100	0.00472	mg/L		09/20/23 07:04	11/08/23 18:33	10
Selenium	0.00739	U	0.0500	0.00739	mg/L		09/20/23 07:04	11/08/23 18:33	10
Potassium	1.56	U	5.00	1.56	mg/L		09/20/23 07:04	11/06/23 13:05	10
Lithium	0.0129	U	0.0500	0.0129	mg/L		09/20/23 07:04	11/08/23 18:33	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		09/13/23 09:05	09/14/23 09:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	20.7		4.00	4.00	mg/L			09/14/23 02:02	1

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Client Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56724-1

Client Sample ID: FB-02

Lab Sample ID: 860-56724-14

Date Collected: 09/06/23 10:25

Matrix: Water

Date Received: 09/07/23 10:06

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	20.7		4.00	4.00	mg/L			09/14/23 02:02	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			09/14/23 02:02	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			09/14/23 02:02	1
Total Dissolved Solids (SM 2540C)	26.5		5.00	5.00	mg/L			09/12/23 10:56	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	0.313	U	0.306	0.307	1.00	0.488	pCi/L	09/14/23 10:08	10/02/23 12:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.8		30 - 110					09/14/23 10:08	10/02/23 12:55	1
Y Carrier	89.0		30 - 110					09/14/23 10:08	10/02/23 12:55	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	0.380		1.00	0.500	pCi/L	09/12/23 09:41	09/21/23 11:26	1

Tracer/Carrier Summary

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56724-1

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Yield (Acceptance Limits)	
		Ba (30-110)	Y (30-110)
860-56724-1	PZ-02	98.0	82.6
860-56724-2	PZ-03	91.6	82.6
860-56724-2 MS	PZ-03	96.3	78.5
860-56724-2 MSD	PZ-03	96.3	84.5
860-56724-3	AP-31	97.8	84.1
860-56724-4	AP-32	100	79.3
860-56724-5	AP-33	97.5	85.2
860-56724-6	AP-34	96.0	83.7
860-56724-7	AP-35	97.3	83.7
860-56724-8	AP-36	101	84.9
860-56724-9	MW-03	87.8	86.0
860-56724-10	PZ-05	93.3	86.4
860-56724-11	PZ-06	99.5	84.1
860-56724-12	EB-01	95.5	80.4
860-56724-13	DUP-02	96.0	86.0
860-56724-14	FB-02	88.8	89.0
LCS 160-628018/2-A	Lab Control Sample	101	75.1
MB 160-628018/1-A	Method Blank	102	78.5

Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

QC Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56724-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-121877/120
Matrix: Water
Analysis Batch: 121877

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	0.250	U	0.500	0.250	mg/L			09/16/23 07:36	1
Fluoride	0.100	U	0.500	0.100	mg/L			09/16/23 07:36	1
Sulfate	0.200	U	0.500	0.200	mg/L			09/16/23 07:36	1

Lab Sample ID: MB 860-121877/13
Matrix: Water
Analysis Batch: 121877

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	0.250	U	0.500	0.250	mg/L			09/15/23 16:51	1
Fluoride	0.100	U	0.500	0.100	mg/L			09/15/23 16:51	1
Sulfate	0.200	U	0.500	0.200	mg/L			09/15/23 16:51	1

Lab Sample ID: MB 860-121877/169
Matrix: Water
Analysis Batch: 121877

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	0.250	U	0.500	0.250	mg/L			09/16/23 14:29	1
Fluoride	0.100	U	0.500	0.100	mg/L			09/16/23 14:29	1
Sulfate	0.200	U	0.500	0.200	mg/L			09/16/23 14:29	1

Lab Sample ID: LCS 860-121877/121
Matrix: Water
Analysis Batch: 121877

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

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Chloride	10.0	9.730		mg/L		97	90 - 110
Fluoride	10.0	10.03		mg/L		100	90 - 110
Sulfate	10.0	9.885		mg/L		99	90 - 110

Lab Sample ID: LCS 860-121877/170
Matrix: Water
Analysis Batch: 121877

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

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Chloride	10.0	9.956		mg/L		100	90 - 110
Fluoride	10.0	9.956		mg/L		100	90 - 110
Sulfate	10.0	9.528		mg/L		95	90 - 110

Lab Sample ID: LCSD 860-121877/122
Matrix: Water
Analysis Batch: 121877

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

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
		Result	Qualifier						
Chloride	10.0	9.759		mg/L		98	90 - 110	0	20
Fluoride	10.0	10.08		mg/L		101	90 - 110	0	20
Sulfate	10.0	9.878		mg/L		99	90 - 110	0	20

QC Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56724-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-121877/171
Matrix: Water
Analysis Batch: 121877

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	9.962		mg/L		100	90 - 110	0	20	
Fluoride	10.0	10.10		mg/L		101	90 - 110	1	20	
Sulfate	10.0	9.582		mg/L		96	90 - 110	1	20	

Lab Sample ID: LLCS 860-121877/17
Matrix: Water
Analysis Batch: 121877

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits	
							RPD	Limit
Chloride	0.500	0.5521		mg/L		110	50 - 150	
Fluoride	0.500	0.5160		mg/L		103	50 - 150	
Sulfate	0.500	0.5118		mg/L		102	50 - 150	

Lab Sample ID: 860-56724-2 MS
Matrix: Water
Analysis Batch: 121877

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	
									RPD	Limit
Fluoride	5.53		100	105.0		mg/L		99	90 - 110	
Sulfate	3690		100	3749	4	mg/L		55	90 - 110	

Lab Sample ID: 860-56724-2 MSD
Matrix: Water
Analysis Batch: 121877

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	5.53		100	105.3		mg/L		100	90 - 110	0	15	
Sulfate	3690		100	3753	4	mg/L		59	90 - 110	0	15	

Lab Sample ID: MB 860-122111/3
Matrix: Water
Analysis Batch: 122111

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed		Dil Fac
	Result	Qualifier						Start	End	
Chloride	0.250	U	0.500	0.250	mg/L			09/18/23	10:58	1
Fluoride	0.100	U	0.500	0.100	mg/L			09/18/23	10:58	1
Sulfate	0.200	U	0.500	0.200	mg/L			09/18/23	10:58	1

Lab Sample ID: LCS 860-122111/4
Matrix: Water
Analysis Batch: 122111

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
							RPD	Limit
Chloride	10.0	9.667		mg/L		97	90 - 110	
Fluoride	10.0	9.958		mg/L		100	90 - 110	
Sulfate	10.0	9.673		mg/L		97	90 - 110	

QC Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56724-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-122111/5
Matrix: Water
Analysis Batch: 122111

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

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	Limit
		Result	Qualifier				Limits		
Chloride	10.0	9.668		mg/L		97	90 - 110	0	20
Fluoride	10.0	9.971		mg/L		100	90 - 110	0	20
Sulfate	10.0	9.692		mg/L		97	90 - 110	0	20

Lab Sample ID: LLCS 860-122111/7
Matrix: Water
Analysis Batch: 122111

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

Analyte	Spike Added	LLCS	LLCS	Unit	D	%Rec	%Rec
		Result	Qualifier				Limits
Chloride	0.500	0.5462		mg/L		109	50 - 150
Fluoride	0.500	0.5103		mg/L		102	50 - 150
Sulfate	0.500	0.5581		mg/L		112	50 - 150

Lab Sample ID: MB 860-122619/3
Matrix: Water
Analysis Batch: 122619

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	0.250	U	0.500	0.250	mg/L			09/20/23 17:10	1
Fluoride	0.100	U	0.500	0.100	mg/L			09/20/23 17:10	1
Sulfate	0.200	U	0.500	0.200	mg/L			09/20/23 17:10	1

Lab Sample ID: LCS 860-122619/4
Matrix: Water
Analysis Batch: 122619

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

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec
		Result	Qualifier				Limits
Chloride	10.0	9.884		mg/L		99	90 - 110
Fluoride	10.0	10.37		mg/L		104	90 - 110
Sulfate	10.0	9.958		mg/L		100	90 - 110

Lab Sample ID: LCSD 860-122619/5
Matrix: Water
Analysis Batch: 122619

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

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	Limit
		Result	Qualifier				Limits		
Chloride	10.0	9.921		mg/L		99	90 - 110	0	20
Fluoride	10.0	10.42		mg/L		104	90 - 110	0	20
Sulfate	10.0	9.980		mg/L		100	90 - 110	0	20

Lab Sample ID: LLCS 860-122619/7
Matrix: Water
Analysis Batch: 122619

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

Analyte	Spike Added	LLCS	LLCS	Unit	D	%Rec	%Rec
		Result	Qualifier				Limits
Chloride	0.500	0.4961	J	mg/L		99	50 - 150
Fluoride	0.500	0.4821	J	mg/L		96	50 - 150
Sulfate	0.500	0.4732	J	mg/L		95	50 - 150

QC Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56724-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 860-56724-2 MS
 Matrix: Water
 Analysis Batch: 122619

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	5300		1000	6142	4	mg/L		84	90 - 110

Lab Sample ID: 860-56724-2 MSD
 Matrix: Water
 Analysis Batch: 122619

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	5300		1000	6138	4	mg/L		84	90 - 110	0	15

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

Lab Sample ID: MB 180-446961/1-A
 Matrix: Water
 Analysis Batch: 451123

Client Sample ID: Method Blank
 Prep Type: Total Recoverable
 Prep Batch: 446961

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	0.127	U	0.500	0.127	mg/L		09/20/23 07:04	11/06/23 11:32	1
Antimony	0.000967	U	0.00200	0.000967	mg/L		09/20/23 07:04	11/06/23 11:32	1
Potassium	0.156	U	0.500	0.156	mg/L		09/20/23 07:04	11/06/23 11:32	1

Lab Sample ID: MB 180-446961/1-A
 Matrix: Water
 Analysis Batch: 451393

Client Sample ID: Method Blank
 Prep Type: Total Recoverable
 Prep Batch: 446961

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.000282	U	0.00100	0.000282	mg/L		09/20/23 07:04	11/08/23 17:05	1
Barium	0.00314	U ^5+	0.0100	0.00314	mg/L		09/20/23 07:04	11/08/23 17:05	1
Beryllium	0.000274	U	0.00100	0.000274	mg/L		09/20/23 07:04	11/08/23 17:05	1
Calcium	0.127	U	0.500	0.127	mg/L		09/20/23 07:04	11/08/23 17:05	1
Cadmium	0.000217	U ^5+	0.00100	0.000217	mg/L		09/20/23 07:04	11/08/23 17:05	1
Chromium	0.00153	U	0.00200	0.00153	mg/L		09/20/23 07:04	11/08/23 17:05	1
Cobalt	0.000261	U	0.000500	0.000261	mg/L		09/20/23 07:04	11/08/23 17:05	1
Magnesium	0.0498	U	0.500	0.0498	mg/L		09/20/23 07:04	11/08/23 17:05	1
Molybdenum	0.000610	U	0.00500	0.000610	mg/L		09/20/23 07:04	11/08/23 17:05	1
Sodium	0.184	U	0.500	0.184	mg/L		09/20/23 07:04	11/08/23 17:05	1
Lead	0.000376	U	0.00100	0.000376	mg/L		09/20/23 07:04	11/08/23 17:05	1
Antimony	0.000967	U ^5+	0.00200	0.000967	mg/L		09/20/23 07:04	11/08/23 17:05	1
Thallium	0.000472	U	0.00100	0.000472	mg/L		09/20/23 07:04	11/08/23 17:05	1
Selenium	0.000739	U	0.00500	0.000739	mg/L		09/20/23 07:04	11/08/23 17:05	1
Potassium	0.156	U	0.500	0.156	mg/L		09/20/23 07:04	11/08/23 17:05	1
Lithium	0.00129	U	0.00500	0.00129	mg/L		09/20/23 07:04	11/08/23 17:05	1

Lab Sample ID: MB 180-446961/1-A
 Matrix: Water
 Analysis Batch: 451545

Client Sample ID: Method Blank
 Prep Type: Total Recoverable
 Prep Batch: 446961

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.0601	U	0.0800	0.0601	mg/L		09/20/23 07:04	11/09/23 14:21	1

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QC Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56724-1

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

Lab Sample ID: LCS 180-446961/2-A
Matrix: Water
Analysis Batch: 451123

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 446961

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	25.0	24.92		mg/L		100	80 - 120
Antimony	0.250	0.2482		mg/L		99	80 - 120
Potassium	25.0	24.98		mg/L		100	80 - 120

Lab Sample ID: LCS 180-446961/2-A
Matrix: Water
Analysis Batch: 451393

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 446961

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	1.00	0.9367		mg/L		94	80 - 120
Barium	1.00	0.9490	^5+	mg/L		95	80 - 120
Beryllium	0.500	0.4852		mg/L		97	80 - 120
Calcium	25.0	26.74		mg/L		107	80 - 120
Cadmium	0.500	0.4750	^5+	mg/L		95	80 - 120
Chromium	0.500	0.4765		mg/L		95	80 - 120
Cobalt	0.500	0.4810		mg/L		96	80 - 120
Magnesium	25.0	24.73		mg/L		99	80 - 120
Molybdenum	0.500	0.4864		mg/L		97	80 - 120
Sodium	25.0	23.57		mg/L		94	80 - 120
Lead	0.500	0.4789		mg/L		96	80 - 120
Antimony	0.250	0.2476	^5+	mg/L		99	80 - 120
Thallium	1.00	0.9596		mg/L		96	80 - 120
Selenium	1.00	0.9902		mg/L		99	80 - 120
Potassium	25.0	23.08		mg/L		92	80 - 120
Lithium	0.500	0.4788		mg/L		96	80 - 120

Lab Sample ID: LCS 180-446961/2-A ^5
Matrix: Water
Analysis Batch: 451545

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 446961

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.25	1.115		mg/L		89	80 - 120

Lab Sample ID: 860-56724-2 MS
Matrix: Water
Analysis Batch: 451123

Client Sample ID: PZ-03
Prep Type: Total Recoverable
Prep Batch: 446961

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	921		25.0	1011	4	mg/L		357	75 - 125
Antimony	0.00967	U F1	0.250	0.3194	F1	mg/L		128	75 - 125

Lab Sample ID: 860-56724-2 MS
Matrix: Water
Analysis Batch: 451393

Client Sample ID: PZ-03
Prep Type: Total Recoverable
Prep Batch: 446961

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.0885		1.00	1.036		mg/L		95	75 - 125
Barium	0.0628	U ^5+	1.00	0.9759	^5+	mg/L		98	75 - 125
Beryllium	0.244		0.500	0.7417		mg/L		100	75 - 125

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QC Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56724-1

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

Lab Sample ID: 860-56724-2 MS
Matrix: Water
Analysis Batch: 451393

Client Sample ID: PZ-03
Prep Type: Total Recoverable
Prep Batch: 446961

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	
	Result	Qualifier		Result	Qualifier				Limits	Limits
Cadmium	0.495	^5+	0.500	0.9615	^5+	mg/L		93	75 - 125	
Chromium	0.0306	U	0.500	0.4809		mg/L		96	75 - 125	
Cobalt	1.41		0.500	1.952		mg/L		108	75 - 125	
Magnesium	254		25.0	280.7	4	mg/L		108	75 - 125	
Molybdenum	0.0122	U	0.500	0.4939		mg/L		99	75 - 125	
Sodium	3280		25.0	3301	4	mg/L		98	75 - 125	
Lead	0.00752	U	0.500	0.4892		mg/L		98	75 - 125	
Thallium	0.00944	U	1.00	0.9355		mg/L		94	75 - 125	
Selenium	0.0438	J	1.00	1.059		mg/L		102	75 - 125	
Potassium	27.0		25.0	49.31		mg/L		89	75 - 125	
Lithium	2.21		0.500	2.755	4	mg/L		108	75 - 125	

Lab Sample ID: 860-56724-2 MS
Matrix: Water
Analysis Batch: 451545

Client Sample ID: PZ-03
Prep Type: Total Recoverable
Prep Batch: 446961

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	
	Result	Qualifier		Result	Qualifier				Limits	Limits
Boron	9.86		1.25	10.70	4	mg/L		67	75 - 125	

Lab Sample ID: 860-56724-2 MSD
Matrix: Water
Analysis Batch: 451123

Client Sample ID: PZ-03
Prep Type: Total Recoverable
Prep Batch: 446961

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec		RPD	
	Result	Qualifier		Result	Qualifier				Limits	RPD	Limit	Limit
Calcium	921		25.0	1086	4	mg/L		658	75 - 125	7	20	
Antimony	0.00967	U F1	0.250	0.3406	F1	mg/L		136	75 - 125	6	20	

Lab Sample ID: 860-56724-2 MSD
Matrix: Water
Analysis Batch: 451393

Client Sample ID: PZ-03
Prep Type: Total Recoverable
Prep Batch: 446961

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec		RPD	
	Result	Qualifier		Result	Qualifier				Limits	RPD	Limit	Limit
Arsenic	0.0885		1.00	1.090		mg/L		100	75 - 125	5	20	
Barium	0.0628	U ^5+	1.00	1.005	^5+	mg/L		101	75 - 125	3	20	
Beryllium	0.244		0.500	0.7594		mg/L		103	75 - 125	2	20	
Cadmium	0.495	^5+	0.500	0.9886	^5+	mg/L		99	75 - 125	3	20	
Chromium	0.0306	U	0.500	0.4895		mg/L		98	75 - 125	2	20	
Cobalt	1.41		0.500	1.998		mg/L		117	75 - 125	2	20	
Magnesium	254		25.0	291.0	4	mg/L		149	75 - 125	4	20	
Molybdenum	0.0122	U	0.500	0.5115		mg/L		102	75 - 125	3	20	
Sodium	3280		25.0	3400	4	mg/L		495	75 - 125	3	20	
Lead	0.00752	U	0.500	0.5008		mg/L		100	75 - 125	2	20	
Thallium	0.00944	U	1.00	0.9519		mg/L		95	75 - 125	2	20	
Selenium	0.0438	J	1.00	1.103		mg/L		106	75 - 125	4	20	
Potassium	27.0		25.0	50.94		mg/L		96	75 - 125	3	20	
Lithium	2.21		0.500	2.919	4	mg/L		141	75 - 125	6	20	

QC Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56724-1

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

Lab Sample ID: 860-56724-2 MSD
 Matrix: Water
 Analysis Batch: 451545

Client Sample ID: PZ-03
 Prep Type: Total Recoverable
 Prep Batch: 446961

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	9.86		1.25	10.36	4	mg/L		40	75 - 125	3	20

Method: EPA 7470A - Mercury (CVAA)

Lab Sample ID: MB 180-446355/1-A
 Matrix: Water
 Analysis Batch: 446521

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 446355

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.130	U	0.200	0.130	ug/L		09/13/23 09:05	09/14/23 09:17	1

Lab Sample ID: LCS 180-446355/2-A
 Matrix: Water
 Analysis Batch: 446521

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 446355

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	2.50	2.321		ug/L		93	80 - 120

Lab Sample ID: MB 180-446358/1-A
 Matrix: Water
 Analysis Batch: 446521

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 446358

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.130	U	0.200	0.130	ug/L		09/13/23 09:07	09/14/23 08:40	1

Lab Sample ID: LCS 180-446358/2-A
 Matrix: Water
 Analysis Batch: 446521

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 446358

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	2.50	2.321		ug/L		93	80 - 120

Lab Sample ID: 860-56724-2 MS
 Matrix: Water
 Analysis Batch: 446521

Client Sample ID: PZ-03
 Prep Type: Total/NA
 Prep Batch: 446358

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.538		1.00	1.318		ug/L		78	75 - 125

Lab Sample ID: 860-56724-2 MSD
 Matrix: Water
 Analysis Batch: 446521

Client Sample ID: PZ-03
 Prep Type: Total/NA
 Prep Batch: 446358

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.538		1.00	1.286		ug/L		75	75 - 125	2	20

QC Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56724-1

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-121626/20
Matrix: Water
Analysis Batch: 121626

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Total Alkalinity	4.00	U	4.00	4.00	mg/L			09/13/23 20:18	1
Bicarbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			09/13/23 20:18	1
Carbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			09/13/23 20:18	1
Hydroxide Alkalinity	4.00	U	4.00	4.00	mg/L			09/13/23 20:18	1

Lab Sample ID: MB 860-121626/51
Matrix: Water
Analysis Batch: 121626

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Total Alkalinity	4.00	U	4.00	4.00	mg/L			09/13/23 23:53	1
Bicarbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			09/13/23 23:53	1
Carbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			09/13/23 23:53	1
Hydroxide Alkalinity	4.00	U	4.00	4.00	mg/L			09/13/23 23:53	1

Lab Sample ID: LCS 860-121626/21
Matrix: Water
Analysis Batch: 121626

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits

Lab Sample ID: LCS 860-121626/52
Matrix: Water
Analysis Batch: 121626

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits

Lab Sample ID: LCSD 860-121626/22
Matrix: Water
Analysis Batch: 121626

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

Lab Sample ID: LCSD 860-121626/53
Matrix: Water
Analysis Batch: 121626

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

Lab Sample ID: 860-56724-11 DU
Matrix: Water
Analysis Batch: 121626

Client Sample ID: PZ-06
Prep Type: Total/NA

Analyte	Sample Sample		DU DU		Unit	D	RPD	RPD Limit
	Result	Qualifier	Result	Qualifier				
Total Alkalinity	89.3		83.00		mg/L		7	20
Bicarbonate Alkalinity as CaCO3	89.3		83.00		mg/L		7	20

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QC Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56724-1

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: 860-56724-11 DU
 Matrix: Water
 Analysis Batch: 121626

Client Sample ID: PZ-06
 Prep Type: Total/NA

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
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 860-121170/1
 Matrix: Water
 Analysis Batch: 121170

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Total Dissolved Solids	5.00	U	5.00	5.00	mg/L			09/12/23 10:56	1

Lab Sample ID: LCS 860-121170/2
 Matrix: Water
 Analysis Batch: 121170

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

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Total Dissolved Solids	1000	1004		mg/L		100	80 - 120

Lab Sample ID: LCSD 860-121170/3
 Matrix: Water
 Analysis Batch: 121170

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

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	%Rec Limits	RPD	Limit
		Result	Qualifier						
Total Dissolved Solids	1000	1041		mg/L		104	80 - 120	4	10

Lab Sample ID: LLCS 860-121170/4
 Matrix: Water
 Analysis Batch: 121170

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

Analyte	Spike Added	LLCS	LLCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Total Dissolved Solids	5.00	5.00	U	mg/L		70	50 - 150

Lab Sample ID: 860-56724-1 DU
 Matrix: Water
 Analysis Batch: 121170

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

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Total Dissolved Solids	11000		10700		mg/L		2	10

Lab Sample ID: 860-56724-2 DU
 Matrix: Water
 Analysis Batch: 121170

Client Sample ID: PZ-03
 Prep Type: Total/NA

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Total Dissolved Solids	14800		15110		mg/L		NC	10

QC Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56724-1

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-628018/1-A
Matrix: Water
Analysis Batch: 630391

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 628018

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	-0.03480	U	0.274	0.274	1.00	0.525	pCi/L	09/14/23 10:08	10/02/23 12:36	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	102		30 - 110					09/14/23 10:08	10/02/23 12:36	1
Y Carrier	78.5		30 - 110					09/14/23 10:08	10/02/23 12:36	1

Lab Sample ID: LCS 160-628018/2-A
Matrix: Water
Analysis Batch: 630391

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 628018

Analyte	Spike Added	LCS	LCS	Total	RL	MDC	Unit	%Rec	%Rec Limits
		Result	Qual	Uncert. (2σ+/-)					
Radium-228	7.83	6.627		1.01	1.00	0.469	pCi/L	85	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	101		30 - 110						
Y Carrier	75.1		30 - 110						

Lab Sample ID: 860-56724-2 MS
Matrix: Water
Analysis Batch: 630386

Client Sample ID: PZ-03
Prep Type: Total/NA
Prep Batch: 628018

Analyte	Sample	Sample	Spike	MS	MS	Total	RL	MDC	Unit	%Rec	%Rec Limits
	Result	Qual	Added	Result	Qual	Uncert. (2σ+/-)					
Radium-228	4.31		10.5	13.08		1.81	1.00	0.671	pCi/L	84	60 - 140
Carrier	MS %Yield	MS Qualifier	Limits								
Ba Carrier	96.3		30 - 110								
Y Carrier	78.5		30 - 110								

Lab Sample ID: 860-56724-2 MSD
Matrix: Water
Analysis Batch: 630386

Client Sample ID: PZ-03
Prep Type: Total/NA
Prep Batch: 628018

Analyte	Sample	Sample	Spike	MSD	MSD	Total	RL	MDC	Unit	%Rec	%Rec Limits	RER	Limit
	Result	Qual	Added	Result	Qual	Uncert. (2σ+/-)							
Radium-228	4.31		10.4	14.01		1.86	1.00	0.725	pCi/L	93	60 - 140	0.25	1
Carrier	MSD %Yield	MSD Qualifier	Limits										
Ba Carrier	96.3		30 - 110										
Y Carrier	84.5		30 - 110										

QC Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56724-1

Method: SM7500 Ra B - Radium-226

Lab Sample ID: MB 810-72932/1-A
Matrix: Water
Analysis Batch: 73979

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 72932

Analyte	MB Result	MB Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Ra-226	-0.06000	U	0.420		1.00	0.700	pCi/L	09/11/23 10:50	09/18/23 15:31	1

Lab Sample ID: LCS 810-72932/2-A
Matrix: Water
Analysis Batch: 73979

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 72932

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Ra-226	5.26	5.180			1.00	0.850	pCi/L	98	90 - 110

Lab Sample ID: 860-56724-2 MS
Matrix: Water
Analysis Batch: 74882

Client Sample ID: PZ-03
Prep Type: Total/NA
Prep Batch: 72932

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
						Uncert. (2σ+/-)					
Ra-226	2.35		5.83	4.560	F1		1.00	0.220	pCi/L	38	80 - 120

Lab Sample ID: 860-56724-2 MSD
Matrix: Water
Analysis Batch: 74882

Client Sample ID: PZ-03
Prep Type: Total/NA
Prep Batch: 72932

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits	RER	Limit
						Uncert. (2σ+/-)							
Ra-226	2.35		5.82	5.840	F1		1.00	0.200	pCi/L	60	80 - 120	0.85	

Lab Sample ID: MB 810-72933/1-A
Matrix: Water
Analysis Batch: 73817

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 72933

Analyte	MB Result	MB Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Ra-226	-0.2400	U	0.450		1.00	0.810	pCi/L	09/11/23 10:56	09/18/23 10:11	1

Lab Sample ID: LCS 810-72933/2-A
Matrix: Water
Analysis Batch: 73817

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 72933

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Ra-226	5.26	4.780			1.00	0.410	pCi/L	91	90 - 110

Lab Sample ID: LCS 810-72933/3-A
Matrix: Water
Analysis Batch: 73817

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 72933

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Ra-226	5.26	4.720			1.00	0.440	pCi/L	90	90 - 110

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QC Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56724-1

Method: SM7500 Ra B - Radium-226

Lab Sample ID: MB 810-73061/1-A
Matrix: Water
Analysis Batch: 74134

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 73061

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Ra-226	0.4100	U	0.430		1.00	0.430	pCi/L	09/12/23 09:26	09/20/23 08:23	1

Lab Sample ID: LCS 810-73061/2-A
Matrix: Water
Analysis Batch: 74134

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 73061

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Ra-226	5.26	5.060			1.00	0.560	pCi/L	96	90 - 110

Lab Sample ID: MB 810-73067/1-A
Matrix: Water
Analysis Batch: 74343

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 73067

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Ra-226	-0.2100	U	0.260		1.00	0.480	pCi/L	09/12/23 09:41	09/21/23 11:26	1
Ra-226	-0.2100	U	0.260		1.00	0.490	pCi/L	09/12/23 09:41	09/21/23 11:26	1

Lab Sample ID: LCS 810-73067/2-A
Matrix: Water
Analysis Batch: 74343

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 73067

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Ra-226	5.26	5.200			1.00	0.340	pCi/L	99	90 - 110
Ra-226	5.26	5.200			1.00	0.340	pCi/L	99	90 - 110

QC Association Summary

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56724-1

HPLC/IC

Analysis Batch: 121877

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56724-1	PZ-02	Total/NA	Water	300.0	
860-56724-2	PZ-03	Total/NA	Water	300.0	
860-56724-3	AP-31	Total/NA	Water	300.0	
860-56724-3 - DL	AP-31	Total/NA	Water	300.0	
860-56724-4	AP-32	Total/NA	Water	300.0	
860-56724-5	AP-33	Total/NA	Water	300.0	
860-56724-6	AP-34	Total/NA	Water	300.0	
860-56724-7	AP-35	Total/NA	Water	300.0	
860-56724-8	AP-36	Total/NA	Water	300.0	
860-56724-8 - DL	AP-36	Total/NA	Water	300.0	
860-56724-9	MW-03	Total/NA	Water	300.0	
860-56724-9 - DL	MW-03	Total/NA	Water	300.0	
860-56724-10	PZ-05	Total/NA	Water	300.0	
860-56724-10 - DL	PZ-05	Total/NA	Water	300.0	
860-56724-11	PZ-06	Total/NA	Water	300.0	
860-56724-11 - DL	PZ-06	Total/NA	Water	300.0	
860-56724-12	EB-01	Total/NA	Water	300.0	
860-56724-13	DUP-02	Total/NA	Water	300.0	
860-56724-13 - DL	DUP-02	Total/NA	Water	300.0	
860-56724-14	FB-02	Total/NA	Water	300.0	
MB 860-121877/120	Method Blank	Total/NA	Water	300.0	
MB 860-121877/13	Method Blank	Total/NA	Water	300.0	
MB 860-121877/169	Method Blank	Total/NA	Water	300.0	
LCS 860-121877/121	Lab Control Sample	Total/NA	Water	300.0	
LCS 860-121877/170	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-121877/122	Lab Control Sample Dup	Total/NA	Water	300.0	
LCSD 860-121877/171	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-121877/17	Lab Control Sample	Total/NA	Water	300.0	
860-56724-2 MS	PZ-03	Total/NA	Water	300.0	
860-56724-2 MSD	PZ-03	Total/NA	Water	300.0	

Analysis Batch: 122111

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56724-1 - DL	PZ-02	Total/NA	Water	300.0	
860-56724-2 - DL	PZ-03	Total/NA	Water	300.0	
MB 860-122111/3	Method Blank	Total/NA	Water	300.0	
LCS 860-122111/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-122111/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-122111/7	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 122619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-122619/3	Method Blank	Total/NA	Water	300.0	
LCS 860-122619/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-122619/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-122619/7	Lab Control Sample	Total/NA	Water	300.0	
860-56724-2 MS	PZ-03	Total/NA	Water	300.0	
860-56724-2 MSD	PZ-03	Total/NA	Water	300.0	

QC Association Summary

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56724-1

Metals

Prep Batch: 446355

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56724-9	MW-03	Total/NA	Water	7470A	
860-56724-10	PZ-05	Total/NA	Water	7470A	
860-56724-11	PZ-06	Total/NA	Water	7470A	
860-56724-12	EB-01	Total/NA	Water	7470A	
860-56724-13	DUP-02	Total/NA	Water	7470A	
860-56724-14	FB-02	Total/NA	Water	7470A	
MB 180-446355/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-446355/2-A	Lab Control Sample	Total/NA	Water	7470A	

Prep Batch: 446358

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56724-1	PZ-02	Total/NA	Water	7470A	
860-56724-2	PZ-03	Total/NA	Water	7470A	
860-56724-3	AP-31	Total/NA	Water	7470A	
860-56724-4	AP-32	Total/NA	Water	7470A	
860-56724-5	AP-33	Total/NA	Water	7470A	
860-56724-6	AP-34	Total/NA	Water	7470A	
860-56724-7	AP-35	Total/NA	Water	7470A	
860-56724-8	AP-36	Total/NA	Water	7470A	
MB 180-446358/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-446358/2-A	Lab Control Sample	Total/NA	Water	7470A	
860-56724-2 MS	PZ-03	Total/NA	Water	7470A	
860-56724-2 MSD	PZ-03	Total/NA	Water	7470A	

Analysis Batch: 446521

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56724-1	PZ-02	Total/NA	Water	EPA 7470A	446358
860-56724-2	PZ-03	Total/NA	Water	EPA 7470A	446358
860-56724-3	AP-31	Total/NA	Water	EPA 7470A	446358
860-56724-4	AP-32	Total/NA	Water	EPA 7470A	446358
860-56724-5	AP-33	Total/NA	Water	EPA 7470A	446358
860-56724-6	AP-34	Total/NA	Water	EPA 7470A	446358
860-56724-7	AP-35	Total/NA	Water	EPA 7470A	446358
860-56724-8	AP-36	Total/NA	Water	EPA 7470A	446358
860-56724-9	MW-03	Total/NA	Water	EPA 7470A	446355
860-56724-10	PZ-05	Total/NA	Water	EPA 7470A	446355
860-56724-11	PZ-06	Total/NA	Water	EPA 7470A	446355
860-56724-12	EB-01	Total/NA	Water	EPA 7470A	446355
860-56724-13	DUP-02	Total/NA	Water	EPA 7470A	446355
860-56724-14	FB-02	Total/NA	Water	EPA 7470A	446355
MB 180-446355/1-A	Method Blank	Total/NA	Water	EPA 7470A	446355
MB 180-446358/1-A	Method Blank	Total/NA	Water	EPA 7470A	446358
LCS 180-446355/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	446355
LCS 180-446358/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	446358
860-56724-2 MS	PZ-03	Total/NA	Water	EPA 7470A	446358
860-56724-2 MSD	PZ-03	Total/NA	Water	EPA 7470A	446358

Prep Batch: 446961

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56724-1	PZ-02	Total Recoverable	Water	3005A	
860-56724-2	PZ-03	Total Recoverable	Water	3005A	

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QC Association Summary

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56724-1

Metals (Continued)

Prep Batch: 446961 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56724-3	AP-31	Total Recoverable	Water	3005A	
860-56724-4	AP-32	Total Recoverable	Water	3005A	
860-56724-5	AP-33	Total Recoverable	Water	3005A	
860-56724-6	AP-34	Total Recoverable	Water	3005A	
860-56724-7	AP-35	Total Recoverable	Water	3005A	
860-56724-8	AP-36	Total Recoverable	Water	3005A	
860-56724-9	MW-03	Total Recoverable	Water	3005A	
860-56724-10	PZ-05	Total Recoverable	Water	3005A	
860-56724-11	PZ-06	Total Recoverable	Water	3005A	
860-56724-12	EB-01	Total Recoverable	Water	3005A	
860-56724-13	DUP-02	Total Recoverable	Water	3005A	
860-56724-14	FB-02	Total Recoverable	Water	3005A	
MB 180-446961/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-446961/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCS 180-446961/2-A ^5	Lab Control Sample	Total Recoverable	Water	3005A	
860-56724-2 MS	PZ-03	Total Recoverable	Water	3005A	
860-56724-2 MSD	PZ-03	Total Recoverable	Water	3005A	

Analysis Batch: 451123

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56724-1	PZ-02	Total Recoverable	Water	EPA 6020A	446961
860-56724-2	PZ-03	Total Recoverable	Water	EPA 6020A	446961
860-56724-3	AP-31	Total Recoverable	Water	EPA 6020A	446961
860-56724-4	AP-32	Total Recoverable	Water	EPA 6020A	446961
860-56724-5	AP-33	Total Recoverable	Water	EPA 6020A	446961
860-56724-6	AP-34	Total Recoverable	Water	EPA 6020A	446961
860-56724-7	AP-35	Total Recoverable	Water	EPA 6020A	446961
860-56724-8	AP-36	Total Recoverable	Water	EPA 6020A	446961
860-56724-9	MW-03	Total Recoverable	Water	EPA 6020A	446961
860-56724-10	PZ-05	Total Recoverable	Water	EPA 6020A	446961
860-56724-11	PZ-06	Total Recoverable	Water	EPA 6020A	446961
860-56724-12	EB-01	Total Recoverable	Water	EPA 6020A	446961
860-56724-13	DUP-02	Total Recoverable	Water	EPA 6020A	446961
860-56724-14	FB-02	Total Recoverable	Water	EPA 6020A	446961
MB 180-446961/1-A	Method Blank	Total Recoverable	Water	EPA 6020A	446961
LCS 180-446961/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020A	446961
860-56724-2 MS	PZ-03	Total Recoverable	Water	EPA 6020A	446961
860-56724-2 MSD	PZ-03	Total Recoverable	Water	EPA 6020A	446961

Analysis Batch: 451393

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56724-1	PZ-02	Total Recoverable	Water	EPA 6020A	446961
860-56724-2	PZ-03	Total Recoverable	Water	EPA 6020A	446961
860-56724-3	AP-31	Total Recoverable	Water	EPA 6020A	446961
860-56724-3	AP-31	Total Recoverable	Water	EPA 6020A	446961
860-56724-4	AP-32	Total Recoverable	Water	EPA 6020A	446961
860-56724-5	AP-33	Total Recoverable	Water	EPA 6020A	446961
860-56724-6	AP-34	Total Recoverable	Water	EPA 6020A	446961
860-56724-7	AP-35	Total Recoverable	Water	EPA 6020A	446961
860-56724-8	AP-36	Total Recoverable	Water	EPA 6020A	446961
860-56724-9	MW-03	Total Recoverable	Water	EPA 6020A	446961

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QC Association Summary

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56724-1

Metals (Continued)

Analysis Batch: 451393 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56724-10	PZ-05	Total Recoverable	Water	EPA 6020A	446961
860-56724-11	PZ-06	Total Recoverable	Water	EPA 6020A	446961
860-56724-12	EB-01	Total Recoverable	Water	EPA 6020A	446961
860-56724-13	DUP-02	Total Recoverable	Water	EPA 6020A	446961
860-56724-14	FB-02	Total Recoverable	Water	EPA 6020A	446961
MB 180-446961/1-A	Method Blank	Total Recoverable	Water	EPA 6020A	446961
LCS 180-446961/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020A	446961
860-56724-2 MS	PZ-03	Total Recoverable	Water	EPA 6020A	446961
860-56724-2 MSD	PZ-03	Total Recoverable	Water	EPA 6020A	446961

Analysis Batch: 451545

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56724-1	PZ-02	Total Recoverable	Water	EPA 6020A	446961
860-56724-2	PZ-03	Total Recoverable	Water	EPA 6020A	446961
860-56724-3	AP-31	Total Recoverable	Water	EPA 6020A	446961
860-56724-4	AP-32	Total Recoverable	Water	EPA 6020A	446961
860-56724-5	AP-33	Total Recoverable	Water	EPA 6020A	446961
860-56724-6	AP-34	Total Recoverable	Water	EPA 6020A	446961
860-56724-7	AP-35	Total Recoverable	Water	EPA 6020A	446961
860-56724-8	AP-36	Total Recoverable	Water	EPA 6020A	446961
860-56724-9	MW-03	Total Recoverable	Water	EPA 6020A	446961
860-56724-11	PZ-06	Total Recoverable	Water	EPA 6020A	446961
860-56724-13	DUP-02	Total Recoverable	Water	EPA 6020A	446961
MB 180-446961/1-A	Method Blank	Total Recoverable	Water	EPA 6020A	446961
LCS 180-446961/2-A ^5	Lab Control Sample	Total Recoverable	Water	EPA 6020A	446961
860-56724-2 MS	PZ-03	Total Recoverable	Water	EPA 6020A	446961
860-56724-2 MSD	PZ-03	Total Recoverable	Water	EPA 6020A	446961

General Chemistry

Analysis Batch: 121170

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56724-1	PZ-02	Total/NA	Water	SM 2540C	
860-56724-2	PZ-03	Total/NA	Water	SM 2540C	
860-56724-3	AP-31	Total/NA	Water	SM 2540C	
860-56724-4	AP-32	Total/NA	Water	SM 2540C	
860-56724-5	AP-33	Total/NA	Water	SM 2540C	
860-56724-6	AP-34	Total/NA	Water	SM 2540C	
860-56724-7	AP-35	Total/NA	Water	SM 2540C	
860-56724-8	AP-36	Total/NA	Water	SM 2540C	
860-56724-9	MW-03	Total/NA	Water	SM 2540C	
860-56724-10	PZ-05	Total/NA	Water	SM 2540C	
860-56724-11	PZ-06	Total/NA	Water	SM 2540C	
860-56724-12	EB-01	Total/NA	Water	SM 2540C	
860-56724-13	DUP-02	Total/NA	Water	SM 2540C	
860-56724-14	FB-02	Total/NA	Water	SM 2540C	
MB 860-121170/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-121170/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-121170/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
LLCS 860-121170/4	Lab Control Sample	Total/NA	Water	SM 2540C	
860-56724-1 DU	PZ-02	Total/NA	Water	SM 2540C	

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QC Association Summary

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56724-1

General Chemistry (Continued)

Analysis Batch: 121170 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56724-2 DU	PZ-03	Total/NA	Water	SM 2540C	

Analysis Batch: 121626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56724-1	PZ-02	Total/NA	Water	SM 2320B	
860-56724-2	PZ-03	Total/NA	Water	SM 2320B	
860-56724-3	AP-31	Total/NA	Water	SM 2320B	
860-56724-4	AP-32	Total/NA	Water	SM 2320B	
860-56724-5	AP-33	Total/NA	Water	SM 2320B	
860-56724-6	AP-34	Total/NA	Water	SM 2320B	
860-56724-7	AP-35	Total/NA	Water	SM 2320B	
860-56724-8	AP-36	Total/NA	Water	SM 2320B	
860-56724-9	MW-03	Total/NA	Water	SM 2320B	
860-56724-10	PZ-05	Total/NA	Water	SM 2320B	
860-56724-11	PZ-06	Total/NA	Water	SM 2320B	
860-56724-12	EB-01	Total/NA	Water	SM 2320B	
860-56724-13	DUP-02	Total/NA	Water	SM 2320B	
860-56724-14	FB-02	Total/NA	Water	SM 2320B	
MB 860-121626/20	Method Blank	Total/NA	Water	SM 2320B	
MB 860-121626/51	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-121626/21	Lab Control Sample	Total/NA	Water	SM 2320B	
LCS 860-121626/52	Lab Control Sample	Total/NA	Water	SM 2320B	
LCS 860-121626/22	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
LCS 860-121626/53	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
860-56724-11 DU	PZ-06	Total/NA	Water	SM 2320B	

Rad

Prep Batch: 72932

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56724-2	PZ-03	Total/NA	Water	RAD Prep	
MB 810-72932/1-A	Method Blank	Total/NA	Water	RAD Prep	
LCS 810-72932/2-A	Lab Control Sample	Total/NA	Water	RAD Prep	
860-56724-2 MS	PZ-03	Total/NA	Water	RAD Prep	
860-56724-2 MSD	PZ-03	Total/NA	Water	RAD Prep	

Prep Batch: 72933

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56724-1	PZ-02	Total/NA	Water	RAD Prep	
860-56724-3	AP-31	Total/NA	Water	RAD Prep	
860-56724-4	AP-32	Total/NA	Water	RAD Prep	
860-56724-5	AP-33	Total/NA	Water	RAD Prep	
860-56724-6	AP-34	Total/NA	Water	RAD Prep	
860-56724-7	AP-35	Total/NA	Water	RAD Prep	
860-56724-8	AP-36	Total/NA	Water	RAD Prep	
860-56724-9	MW-03	Total/NA	Water	RAD Prep	
860-56724-10	PZ-05	Total/NA	Water	RAD Prep	
MB 810-72933/1-A	Method Blank	Total/NA	Water	RAD Prep	
LCS 810-72933/2-A	Lab Control Sample	Total/NA	Water	RAD Prep	
LCS 810-72933/3-A	Lab Control Sample	Total/NA	Water	RAD Prep	

QC Association Summary

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56724-1

Rad

Prep Batch: 73061

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56724-11	PZ-06	Total/NA	Water	RAD Prep	
860-56724-12	EB-01	Total/NA	Water	RAD Prep	
860-56724-13	DUP-02	Total/NA	Water	RAD Prep	
MB 810-73061/1-A	Method Blank	Total/NA	Water	RAD Prep	
LCS 810-73061/2-A	Lab Control Sample	Total/NA	Water	RAD Prep	

Prep Batch: 73067

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56724-14	FB-02	Total/NA	Water	RAD Prep	
MB 810-73067/1-A	Method Blank	Total/NA	Water	RAD Prep	
LCS 810-73067/2-A	Lab Control Sample	Total/NA	Water	RAD Prep	

Prep Batch: 628018

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56724-1	PZ-02	Total/NA	Water	PrecSep_0	
860-56724-2	PZ-03	Total/NA	Water	PrecSep_0	
860-56724-3	AP-31	Total/NA	Water	PrecSep_0	
860-56724-4	AP-32	Total/NA	Water	PrecSep_0	
860-56724-5	AP-33	Total/NA	Water	PrecSep_0	
860-56724-6	AP-34	Total/NA	Water	PrecSep_0	
860-56724-7	AP-35	Total/NA	Water	PrecSep_0	
860-56724-8	AP-36	Total/NA	Water	PrecSep_0	
860-56724-9	MW-03	Total/NA	Water	PrecSep_0	
860-56724-10	PZ-05	Total/NA	Water	PrecSep_0	
860-56724-11	PZ-06	Total/NA	Water	PrecSep_0	
860-56724-12	EB-01	Total/NA	Water	PrecSep_0	
860-56724-13	DUP-02	Total/NA	Water	PrecSep_0	
860-56724-14	FB-02	Total/NA	Water	PrecSep_0	
MB 160-628018/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-628018/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
860-56724-2 MS	PZ-03	Total/NA	Water	PrecSep_0	
860-56724-2 MSD	PZ-03	Total/NA	Water	PrecSep_0	

Lab Chronicle

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56724-1

Client Sample ID: PZ-02

Lab Sample ID: 860-56724-1

Date Collected: 09/06/23 10:55

Matrix: Water

Date Received: 09/07/23 10:06

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			121877	09/16/23 15:20	RBNS	EET HOU
Total/NA	Analysis	300.0	DL	20			122111	09/18/23 14:43	RBNS	EET HOU
Total Recoverable	Prep	3005A			25 mL	25 mL	446961	09/20/23 07:04	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		10			451123	11/06/23 11:38	MRG	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	446961	09/20/23 07:04	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		10			451393	11/08/23 17:11	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	446961	09/20/23 07:04	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		50			451545	11/09/23 14:27	RJR	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	446358	09/13/23 09:07	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			446521	09/14/23 08:42	MTW	EET PIT
Total/NA	Analysis	SM 2320B		1			121626	09/14/23 00:31	YG	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	121170	09/12/23 10:56	SA	EET HOU
Total/NA	Prep	PrecSep_0			752.09 mL	1.0 g	628018	09/14/23 10:08	KAC	EET SL
Total/NA	Analysis	904.0		1			630391	10/02/23 12:36	FLC	EET SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	72933	09/11/23 10:56	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			74625	09/22/23 08:24	SM	EA SB
								Completed: 09/22/23 08:54 ¹		

Client Sample ID: PZ-03

Lab Sample ID: 860-56724-2

Date Collected: 09/06/23 09:00

Matrix: Water

Date Received: 09/07/23 10:06

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			121877	09/16/23 11:15	RBNS	EET HOU
Total/NA	Analysis	300.0	DL	100			122111	09/18/23 14:35	RBNS	EET HOU
Total Recoverable	Prep	3005A			25 mL	25 mL	446961	09/20/23 07:04	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		10			451123	11/06/23 11:41	MRG	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	446961	09/20/23 07:04	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		20			451393	11/08/23 17:14	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	446961	09/20/23 07:04	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		50			451545	11/09/23 14:30	RJR	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	446358	09/13/23 09:07	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			446521	09/14/23 08:43	MTW	EET PIT
Total/NA	Analysis	SM 2320B		1			121626	09/14/23 00:36	YG	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	121170	09/12/23 10:56	SA	EET HOU
Total/NA	Prep	PrecSep_0			760.39 mL	1.0 g	628018	09/14/23 10:08	KAC	EET SL
Total/NA	Analysis	904.0		1			630386	10/02/23 12:51	FLC	EET SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	72932	09/11/23 10:50	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			74882	09/26/23 12:59	SM	EA SB
								Completed: 09/26/23 13:29 ¹		

Lab Chronicle

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56724-1

Client Sample ID: AP-31

Lab Sample ID: 860-56724-3

Date Collected: 09/06/23 08:45

Matrix: Water

Date Received: 09/07/23 10:06

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			121877	09/16/23 10:41	RBNS	EET HOU
Total/NA	Analysis	300.0	DL	10			121877	09/16/23 10:50	RBNS	EET HOU
Total Recoverable	Prep	3005A			25 mL	25 mL	446961	09/20/23 07:04	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		10			451123	11/06/23 11:55	MRG	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	446961	09/20/23 07:04	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		100			451393	11/08/23 17:29	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	446961	09/20/23 07:04	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		500			451393	11/08/23 17:32	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	446961	09/20/23 07:04	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		500			451545	11/09/23 14:39	RJR	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	446358	09/13/23 09:07	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			446521	09/14/23 08:46	MTW	EET PIT
Total/NA	Analysis	SM 2320B		1			121626	09/14/23 00:42	YG	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	121170	09/12/23 10:56	SA	EET HOU
Total/NA	Prep	PrecSep_0			998.50 mL	1.0 g	628018	09/14/23 10:08	KAC	EET SL
Total/NA	Analysis	904.0		1			630386	10/02/23 12:53	FLC	EET SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	72933	09/11/23 10:56	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			74625	09/22/23 08:24	SM	EA SB
								Completed: 09/22/23 08:54		

Client Sample ID: AP-32

Lab Sample ID: 860-56724-4

Date Collected: 09/06/23 10:10

Matrix: Water

Date Received: 09/07/23 10:06

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			121877	09/16/23 15:28	RBNS	EET HOU
Total Recoverable	Prep	3005A			25 mL	25 mL	446961	09/20/23 07:04	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		10			451123	11/06/23 12:26	MRG	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	446961	09/20/23 07:04	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		100			451393	11/08/23 17:35	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	446961	09/20/23 07:04	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		100			451545	11/09/23 14:42	RJR	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	446358	09/13/23 09:07	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			446521	09/14/23 08:47	MTW	EET PIT
Total/NA	Analysis	SM 2320B		1			121626	09/14/23 00:47	YG	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	121170	09/12/23 10:56	SA	EET HOU
Total/NA	Prep	PrecSep_0			993.31 mL	1.0 g	628018	09/14/23 10:08	KAC	EET SL
Total/NA	Analysis	904.0		1			630386	10/02/23 12:53	FLC	EET SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	72933	09/11/23 10:56	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			74625	09/22/23 08:24	SM	EA SB
								Completed: 09/22/23 08:54		

Lab Chronicle

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56724-1

Client Sample ID: AP-33

Lab Sample ID: 860-56724-5

Date Collected: 09/06/23 08:55

Matrix: Water

Date Received: 09/07/23 10:06

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			121877	09/16/23 15:36	RBNS	EET HOU
Total Recoverable	Prep	3005A			25 mL	25 mL	446961	09/20/23 07:04	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		10			451123	11/06/23 12:28	MRG	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	446961	09/20/23 07:04	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		50			451393	11/08/23 17:38	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	446961	09/20/23 07:04	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		250			451545	11/09/23 14:45	RJR	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	446358	09/13/23 09:07	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			446521	09/14/23 08:48	MTW	EET PIT
Total/NA	Analysis	SM 2320B		1			121626	09/14/23 00:52	YG	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	121170	09/12/23 10:56	SA	EET HOU
Total/NA	Prep	PrecSep_0			990.42 mL	1.0 g	628018	09/14/23 10:08	KAC	EET SL
Total/NA	Analysis	904.0		1			630386	10/02/23 12:53	FLC	EET SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	72933	09/11/23 10:56	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			74625	09/22/23 08:24	SM	EA SB
								Completed:	09/22/23 08:54 ¹	

Client Sample ID: AP-34

Lab Sample ID: 860-56724-6

Date Collected: 09/06/23 10:55

Matrix: Water

Date Received: 09/07/23 10:06

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			121877	09/16/23 15:45	RBNS	EET HOU
Total Recoverable	Prep	3005A			25 mL	25 mL	446961	09/20/23 07:04	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		10			451123	11/06/23 12:42	MRG	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	446961	09/20/23 07:04	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		10			451393	11/08/23 17:41	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	446961	09/20/23 07:04	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		100			451545	11/09/23 14:48	RJR	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	446358	09/13/23 09:07	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			446521	09/14/23 08:49	MTW	EET PIT
Total/NA	Analysis	SM 2320B		1			121626	09/14/23 01:14	YG	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	121170	09/12/23 10:56	SA	EET HOU
Total/NA	Prep	PrecSep_0			995.54 mL	1.0 g	628018	09/14/23 10:08	KAC	EET SL
Total/NA	Analysis	904.0		1			630386	10/02/23 12:53	FLC	EET SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	72933	09/11/23 10:56	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			74625	09/22/23 08:24	SM	EA SB
								Completed:	09/22/23 08:54 ¹	

Lab Chronicle

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56724-1

Client Sample ID: AP-35

Lab Sample ID: 860-56724-7

Date Collected: 09/06/23 10:45

Matrix: Water

Date Received: 09/07/23 10:06

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			121877	09/16/23 15:53	RBNS	EET HOU
Total Recoverable	Prep	3005A			25 mL	25 mL	446961	09/20/23 07:04	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		10			451123	11/06/23 12:45	MRG	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	446961	09/20/23 07:04	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		10			451393	11/08/23 17:44	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	446961	09/20/23 07:04	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		50			451545	11/09/23 14:51	RJR	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	446358	09/13/23 09:07	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			446521	09/14/23 08:54	MTW	EET PIT
Total/NA	Analysis	SM 2320B		1			121626	09/14/23 01:19	YG	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	121170	09/12/23 10:56	SA	EET HOU
Total/NA	Prep	PrecSep_0			1000.85 mL	1.0 g	628018	09/14/23 10:08	KAC	EET SL
Total/NA	Analysis	904.0		1			630386	10/02/23 12:53	FLC	EET SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	72933	09/11/23 10:56	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			74625	09/22/23 09:59	SM	EA SB
								Completed: 09/22/23 10:29 ¹		

Client Sample ID: AP-36

Lab Sample ID: 860-56724-8

Date Collected: 09/06/23 10:05

Matrix: Water

Date Received: 09/07/23 10:06

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			121877	09/16/23 13:38	RBNS	EET HOU
Total/NA	Analysis	300.0	DL	10			121877	09/16/23 13:47	RBNS	EET HOU
Total Recoverable	Prep	3005A			25 mL	25 mL	446961	09/20/23 07:04	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		10			451123	11/06/23 12:48	MRG	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	446961	09/20/23 07:04	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		10			451393	11/08/23 18:15	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	446961	09/20/23 07:04	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		10			451545	11/09/23 14:55	RJR	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	446358	09/13/23 09:07	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			446521	09/14/23 08:55	MTW	EET PIT
Total/NA	Analysis	SM 2320B		1			121626	09/14/23 01:25	YG	EET HOU
Total/NA	Analysis	SM 2540C		1	25 mL	200 mL	121170	09/12/23 10:56	SA	EET HOU
Total/NA	Prep	PrecSep_0			991.76 mL	1.0 g	628018	09/14/23 10:08	KAC	EET SL
Total/NA	Analysis	904.0		1			630386	10/02/23 12:53	FLC	EET SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	72933	09/11/23 10:56	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			74625	09/22/23 09:59	SM	EA SB
								Completed: 09/22/23 10:29 ¹		

Lab Chronicle

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56724-1

Client Sample ID: MW-03

Lab Sample ID: 860-56724-9

Date Collected: 09/06/23 09:25

Matrix: Water

Date Received: 09/07/23 10:06

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			121877	09/16/23 13:55	RBNS	EET HOU
Total/NA	Analysis	300.0	DL	10			121877	09/16/23 14:04	RBNS	EET HOU
Total Recoverable	Prep	3005A			25 mL	25 mL	446961	09/20/23 07:04	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		10			451123	11/06/23 12:51	MRG	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	446961	09/20/23 07:04	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		50			451393	11/08/23 18:18	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	446961	09/20/23 07:04	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		50			451545	11/09/23 14:58	RJR	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	446355	09/13/23 09:05	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			446521	09/14/23 09:37	MTW	EET PIT
Total/NA	Analysis	SM 2320B		1			121626	09/13/23 23:22	YG	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	121170	09/12/23 10:56	SA	EET HOU
Total/NA	Prep	PrecSep_0			994.20 mL	1.0 g	628018	09/14/23 10:08	KAC	EET SL
Total/NA	Analysis	904.0		1			630386	10/02/23 12:55	FLC	EET SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	72933	09/11/23 10:56	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			74625	09/22/23 09:59	SM	EA SB
								Completed: 09/22/23 10:29 ¹		

Client Sample ID: PZ-05

Lab Sample ID: 860-56724-10

Date Collected: 09/06/23 09:55

Matrix: Water

Date Received: 09/07/23 10:06

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			121877	09/16/23 12:14	RBNS	EET HOU
Total/NA	Analysis	300.0	DL	10			121877	09/16/23 12:23	RBNS	EET HOU
Total Recoverable	Prep	3005A			25 mL	25 mL	446961	09/20/23 07:04	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		10			451123	11/06/23 12:54	MRG	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	446961	09/20/23 07:04	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		100			451393	11/08/23 18:21	S1Z	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	446355	09/13/23 09:05	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			446521	09/14/23 09:38	MTW	EET PIT
Total/NA	Analysis	SM 2320B		1			121626	09/14/23 01:30	YG	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	121170	09/12/23 10:56	SA	EET HOU
Total/NA	Prep	PrecSep_0			998.95 mL	1.0 g	628018	09/14/23 10:08	KAC	EET SL
Total/NA	Analysis	904.0		1			630386	10/02/23 12:55	FLC	EET SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	72933	09/11/23 10:56	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			74625	09/22/23 09:59	SM	EA SB
								Completed: 09/22/23 10:29 ¹		

Lab Chronicle

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56724-1

Client Sample ID: PZ-06
Date Collected: 09/06/23 09:20
Date Received: 09/07/23 10:06

Lab Sample ID: 860-56724-11
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		1			121877	09/16/23 12:48	RBNS	EET HOU
Total/NA	Analysis	300.0	DL	10			121877	09/16/23 12:56	RBNS	EET HOU
Total Recoverable	Prep	3005A			25 mL	25 mL	446961	09/20/23 07:04	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		10			451123	11/06/23 12:56	MRG	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	446961	09/20/23 07:04	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		50			451393	11/08/23 18:24	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	446961	09/20/23 07:04	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		50			451545	11/09/23 15:19	RJR	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	446355	09/13/23 09:05	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			446521	09/14/23 09:39	MTW	EET PIT
Total/NA	Analysis	SM 2320B		1			121626	09/14/23 01:37	YG	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	121170	09/12/23 10:56	SA	EET HOU
Total/NA	Prep	PrecSep_0			1006.85 mL	1.0 g	628018	09/14/23 10:08	KAC	EET SL
Total/NA	Analysis	904.0		1			630386	10/02/23 12:55	FLC	EET SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	73061	09/12/23 09:26	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			74666	09/25/23 10:16	SM	EA SB
								Completed: 09/25/23 10:46 ¹		

Client Sample ID: EB-01
Date Collected: 09/06/23 09:40
Date Received: 09/07/23 10:06

Lab Sample ID: 860-56724-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			121877	09/16/23 08:27	RBNS	EET HOU
Total Recoverable	Prep	3005A			25 mL	25 mL	446961	09/20/23 07:04	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		10			451123	11/06/23 12:59	MRG	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	446961	09/20/23 07:04	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		10			451393	11/08/23 18:27	S1Z	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	446355	09/13/23 09:05	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			446521	09/14/23 09:40	MTW	EET PIT
Total/NA	Analysis	SM 2320B		1			121626	09/14/23 01:50	YG	EET HOU
Total/NA	Analysis	SM 2540C		1	200 mL	200 mL	121170	09/12/23 10:56	SA	EET HOU
Total/NA	Prep	PrecSep_0			997.11 mL	1.0 g	628018	09/14/23 10:08	KAC	EET SL
Total/NA	Analysis	904.0		1			630386	10/02/23 12:55	FLC	EET SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	73061	09/12/23 09:26	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			74134	09/20/23 08:23	SM	EA SB
								Completed: 09/20/23 08:53 ¹		

Client Sample ID: DUP-02
Date Collected: 09/06/23 08:00
Date Received: 09/07/23 10:06

Lab Sample ID: 860-56724-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			121877	09/16/23 13:05	RBNS	EET HOU

Eurofins Houston

Lab Chronicle

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56724-1

Client Sample ID: DUP-02

Lab Sample ID: 860-56724-13

Date Collected: 09/06/23 08:00

Matrix: Water

Date Received: 09/07/23 10:06

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			121877	09/16/23 13:13	RBNS	EET HOU
Total Recoverable	Prep	3005A			25 mL	25 mL	446961	09/20/23 07:04	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		10			451123	11/06/23 13:02	MRG	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	446961	09/20/23 07:04	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		50			451393	11/08/23 18:30	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	446961	09/20/23 07:04	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		50			451545	11/09/23 15:25	RJR	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	446355	09/13/23 09:05	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			446521	09/14/23 09:45	MTW	EET PIT
Total/NA	Analysis	SM 2320B		1			121626	09/14/23 01:55	YG	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	121170	09/12/23 10:56	SA	EET HOU
Total/NA	Prep	PrecSep_0			992.52 mL	1.0 g	628018	09/14/23 10:08	KAC	EET SL
Total/NA	Analysis	904.0		1			630386	10/02/23 12:55	FLC	EET SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	73061	09/12/23 09:26	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			74666	09/25/23 10:16	SM	EA SB
								Completed:	09/25/23 10:46 ¹	

Client Sample ID: FB-02

Lab Sample ID: 860-56724-14

Date Collected: 09/06/23 10:25

Matrix: Water

Date Received: 09/07/23 10:06

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			121877	09/16/23 08:35	RBNS	EET HOU
Total Recoverable	Prep	3005A			25 mL	25 mL	446961	09/20/23 07:04	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		10			451123	11/06/23 13:05	MRG	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	446961	09/20/23 07:04	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		10			451393	11/08/23 18:33	S1Z	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	446355	09/13/23 09:05	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			446521	09/14/23 09:46	MTW	EET PIT
Total/NA	Analysis	SM 2320B		1			121626	09/14/23 02:02	YG	EET HOU
Total/NA	Analysis	SM 2540C		1	200 mL	200 mL	121170	09/12/23 10:56	SA	EET HOU
Total/NA	Prep	PrecSep_0			995.93 mL	1.0 g	628018	09/14/23 10:08	KAC	EET SL
Total/NA	Analysis	904.0		1			630386	10/02/23 12:55	FLC	EET SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	73067	09/12/23 09:41	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			74343	09/21/23 11:26	SM	EA SB
								Completed:	09/21/23 11:56 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: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56724-1

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	T104704215-23-53	06-30-24
<p>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.</p>			
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	07-31-24
Alabama	State	40700	06-30-24
Alaska	State	IN00035	06-30-24
Arizona	State	AZ0432	07-26-24
Arkansas (DW)	State	EPA IN00035	06-30-23 *
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	12-31-23
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	10-31-23
Kansas	NELAP	E-10233	10-31-23
Kentucky (DW)	State	KY90056	12-31-23
Louisiana (DW)	State	LA014	12-31-23
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	12-31-23
Mississippi	State	IN00035	06-30-24
Missouri	State	880	09-30-24
Montana (DW)	State	CERT0026	01-02-24
Nebraska	State	NE-OS-05-04	06-30-24
Nevada	State	IN000352024-01	07-31-24
New Hampshire	NELAP	2124	11-05-23
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

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

Accreditation/Certification Summary

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56724-1

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	09-26-23
Northern Mariana Islands (DW)	State	IN00035	06-30-24
Ohio	State	87775	06-30-24
Oregon	NELAP	4156	09-16-24
Pennsylvania	NELAP	68-00466	04-30-24
Puerto Rico	State	IN00035	04-01-24
Rhode Island	State	LAO00343	12-30-23
South Carolina	State	95005001	06-30-23 *
South Dakota (DW)	State	IN00035	06-30-24
Tennessee	State	TN02973	06-30-24
Texas	NELAP	T104704187-22-16	12-31-23
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	11-15-23
Virginia	NELAP	460275	03-14-24
Washington	State	C837	01-01-24
West Virginia (DW)	State	9927 C	12-31-23
Wisconsin	State	999766900	08-31-24
Wisconsin (Micro)	State	10121	12-31-23
Wyoming	State	8TMS-L	06-30-23 *

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	01-31-24
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	12-31-23
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	12-31-23
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	04-30-23 *
Texas	NELAP	T104704528	03-31-24

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

Accreditation/Certification Summary

Client: GSI Environmental, Inc
Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56724-1

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	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	01-31-24
Wisconsin	State	998027800	08-31-24

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: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56724-1

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: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56724-1

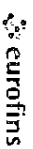
Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-56724-1	PZ-02	Water	09/06/23 10:55	09/07/23 10:06
860-56724-2	PZ-03	Water	09/06/23 09:00	09/07/23 10:06
860-56724-3	AP-31	Water	09/06/23 08:45	09/07/23 10:06
860-56724-4	AP-32	Water	09/06/23 10:10	09/07/23 10:06
860-56724-5	AP-33	Water	09/06/23 08:55	09/07/23 10:06
860-56724-6	AP-34	Water	09/06/23 10:55	09/07/23 10:06
860-56724-7	AP-35	Water	09/06/23 10:45	09/07/23 10:06
860-56724-8	AP-36	Water	09/06/23 10:05	09/07/23 10:06
860-56724-9	MW-03	Water	09/06/23 09:25	09/07/23 10:06
860-56724-10	PZ-05	Water	09/06/23 09:55	09/07/23 10:06
860-56724-11	PZ-06	Water	09/06/23 09:20	09/07/23 10:06
860-56724-12	EB-01	Water	09/06/23 09:40	09/07/23 10:06
860-56724-13	DUP-02	Water	09/06/23 08:00	09/07/23 10:06
860-56724-14	FB-02	Water	09/06/23 10:25	09/07/23 10:06

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Eurofins Xenco, Stafford

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

Chain of Custody Record



eurofins
Environmental Testing
America 2

Client Information

Client Contact: **Mike Schofield**
Company: **GSI Environmental, Inc.**
Address: **9600 Great Hills Trail Suite 350E**
City: **Austin**
State, Zip: **TX, 78759**
Phone: **512-346-4474(Tel) 512-346-4476(Fax)**
Email: **mschofield@gsi-net.com**
Project Name: **San Miguel Electrical Co-Op GW (Ash Ponds)**
Site: **SSGW#:**

Sampler

Brian Hillin + HMI Team
Phone: **713-653-3127**
Company: **HM1**

Lab P/N

Kudachakar Sachin G
Email: **Sachin.Kudachakar@Eurofins.com**

Carrier Tracking No(s)

TX

COC No:

860-5614-1220.1

Page:

1 of 2

Due Date Requested:
TAT Requested (day(s)):
Compliance Project: Yes No
PO #:
WO #:
Project #: **86001746**
Project Name: **San Miguel Electrical Co-Op GW (Ash Ponds)**

Sample Identification

Sample ID	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Soil, etc.)	Preservation Code
PZ-02	9-6-23	1055	G	Water	
PZ-03		900		Water	
AP-31		845		Water	
AP-32		1010		Water	
AP-33		855		Water	
AP-34		1055		Water	
AP-35		1045		Water	
AP-36		1005		Water	
MW-03		925		Water	
PZ-05		955		Water	
PZ-06		920		Water	

Field Filtered Sample (Yes or No)

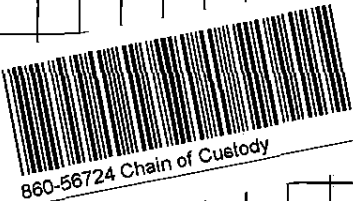
Sample ID	Field Filtered
PZ-02	Yes
PZ-03	Yes
AP-31	Yes
AP-32	Yes
AP-33	Yes
AP-34	Yes
AP-35	Yes
AP-36	Yes
MW-03	Yes
PZ-05	Yes
PZ-06	Yes

Analysis Requested

Analysis	Result
2320B, Alkalinity	
6020A 7470-B, Ca, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Ti, Hg, Eurofins Pittsburg (Na, Mg, K)	
2540C_TDS	
300-CI, F, SO4	
901_1_Ra- Rad 228 Eurofins St Louis	
SM7500_Ra_B Rad 226-South Bend IN	

Total Number of containers

Sample ID	Containers	Temp
PZ-02	1	2.7 IR ID: HOU-369
PZ-03	1	2.2 IR ID: HOU-369
AP-31	1	3.0 IR ID: HOU-369
AP-32	1	3.0 IR ID: HOU-369
AP-33	1	3.5 IR ID: HOU-369
AP-34	1	3.5 IR ID: HOU-369
AP-35	1	3.5 IR ID: HOU-369
AP-36	1	3.5 IR ID: HOU-369
MW-03	1	3.5 IR ID: HOU-369
PZ-05	1	3.5 IR ID: HOU-369
PZ-06	1	3.5 IR ID: HOU-369



Possible Hazard Identification

Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological
Deliverable Requested: I II, III, IV Other (Specify):

Sample Disposal (A fee may be assessed if samples are returned to client)

Return To Client Disposal By Lab
Special Instructions/QC Requirements: **CCR-Appendix III and IV**

Empty Kit Relinquished by:

Relinquished by: *[Signature]* Date: **9/7/23 1006** Company: **HM1**

Received by:

Received by: *[Signature]* Date: **9/7/23 1006** Company: **HM1**

Method of Shipment:

Cons, Dry Ice

Copier Temperature(s) °C and Other Remarks:

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

Chain of Custody Record

Client Information		Client Contact: Mike Schofield	Sampler: Rita Hillin + HMI Team	Lab Pk: Kudchackar Sachin G	Carrier Tracking No(s):	OC No: 860-3614-1220 1
Company: GSI Environmental, Inc		Address: 9600 Great Hills Trail Suite 350E Austin, TX 78759	Phone: 512-346-4474(Tel) 512-346-4476(Fax)	E-Mail: Sachin.Kudchackar@Eurofins.com	State of Origin: TX	Page: 2 of 2
City: Austin		State: Texas	Project #: 86001746	Analysis Requested		Job #:
Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No		MO #:	Project #:	Carrier Tracking No(s):		Page:
Project Name: San Miguel Electrical Co-Op GW (Ash Ponds)		SSQW#:	Sample Date: 9-6-23	Method of Shipment: Cons Draft		Company: ES
Sample Identification		Sample Time	Sample Type (C=comp, G=grab)	Matrix (Inorganic, Organic, Metals, PM10, PM2.5)	Field Filtered Sample (Yes or No)	Special Instructions/Note:
PZ-03 MS		900	G	Water	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2320B, Alkalinity 6020A-7470- B, Ca, Sb, As, Ba, Be, Cd, Cr Co, Pb, Li, Mo, Se, Ti, 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 Bend IN
PZ-03 MSD		900	G	Water	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
EB-01		940 Lab	G	Water	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
DUP-02		800	G	Water	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
FB-02		1025	G	Water	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Total Number of containers
Possible Hazard Identification		Sample Preservation Code		Special Instructions/Note:		
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological						
Deliverable Requested: I, II, III, IV Other (specify)		Date: 9/7/23		Special Instructions/QC Requirements: CCR- Appendix III and IV		
Empty Kit Relinquished by:		Date: 9/7/23		Method of Shipment: Cons Draft		Months: 1
Relinquished by: [Signature]		Date/Time: 9/7/23 1006		Received by: [Signature]		Date/Time: 9/7/23 1006
Relinquished by:		Date/Time:		Received by:		Date/Time:
Custody Seats Intact: <input type="checkbox"/> Yes <input type="checkbox"/> 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)			Lab PM Kudchadkar, Sachin G	Camera Tracking No(s): 860-40899-1																																																																																										
Client Contact Shipping/Receiving			State of Origin: Texas	Page Page 1 of 2																																																																																										
Company TestAmerica Laboratories, Inc.			Accreditations Required (See note) NELAP - Texas	Job # 860-56724-1																																																																																										
Address 13715 Ridder Trail North,			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 Other:																																																																																											
City Earth City	State MO	Zip 63045	Analysis Requested																																																																																											
Phone 314-298-8566(Tel) 314-298-8757(Fax)	PO #	WO #	Total Number of Containers																																																																																											
Email	Project # 86001746	SSOW#	Special Instructions/Note:																																																																																											
Site San Miguel Electrical Co-Op 2H23 GW	<table border="1"> <thead> <tr> <th>Sample Identification - Client ID (Lab ID)</th> <th>Sample Date</th> <th>Sample Time</th> <th>Sample Type (C=Comp, G=grab)</th> <th>Matrix (Water, Soak, or waste oil)</th> <th>Field Filtered Sample (Yes or No)</th> <th>Perform MS/MSD (Yes or No)</th> <th>904/PreSep_0 Standard Target List</th> <th>Total Number of Containers</th> </tr> </thead> <tbody> <tr> <td>PZ-02 (860-56724-1)</td> <td>9/6/23</td> <td>10:55 Central</td> <td></td> <td>Water</td> <td>X</td> <td>X</td> <td></td> <td>1</td> </tr> <tr> <td>PZ-03 (860-56724-2)</td> <td>9/6/23</td> <td>09:00 Central</td> <td></td> <td>Water</td> <td>X</td> <td>X</td> <td></td> <td>1</td> </tr> <tr> <td>PZ-03 (860-56724-2MS)</td> <td>9/6/23</td> <td>09:00 Central</td> <td>MS</td> <td>Water</td> <td>X</td> <td>X</td> <td></td> <td>1</td> </tr> <tr> <td>PZ-03 (860-56724-2MSD)</td> <td>9/6/23</td> <td>09:00 Central</td> <td>MSD</td> <td>Water</td> <td>X</td> <td>X</td> <td></td> <td>1</td> </tr> <tr> <td>AP-31 (860-56724-3)</td> <td>9/6/23</td> <td>08:45 Central</td> <td></td> <td>Water</td> <td>X</td> <td>X</td> <td></td> <td>1</td> </tr> <tr> <td>AP-32 (860-56724-4)</td> <td>9/6/23</td> <td>10:10 Central</td> <td></td> <td>Water</td> <td>X</td> <td>X</td> <td></td> <td>1</td> </tr> <tr> <td>AP-33 (860-56724-5)</td> <td>9/6/23</td> <td>08:55 Central</td> <td></td> <td>Water</td> <td>X</td> <td>X</td> <td></td> <td>1</td> </tr> <tr> <td>AP-34 (860-56724-6)</td> <td>9/6/23</td> <td>10:55 Central</td> <td></td> <td>Water</td> <td>X</td> <td>X</td> <td></td> <td>1</td> </tr> <tr> <td>AP-35 (860-56724-7)</td> <td>9/6/23</td> <td>10:45 Central</td> <td></td> <td>Water</td> <td>X</td> <td>X</td> <td></td> <td>1</td> </tr> </tbody> </table>				Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Soak, or waste oil)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	904/PreSep_0 Standard Target List	Total Number of Containers	PZ-02 (860-56724-1)	9/6/23	10:55 Central		Water	X	X		1	PZ-03 (860-56724-2)	9/6/23	09:00 Central		Water	X	X		1	PZ-03 (860-56724-2MS)	9/6/23	09:00 Central	MS	Water	X	X		1	PZ-03 (860-56724-2MSD)	9/6/23	09:00 Central	MSD	Water	X	X		1	AP-31 (860-56724-3)	9/6/23	08:45 Central		Water	X	X		1	AP-32 (860-56724-4)	9/6/23	10:10 Central		Water	X	X		1	AP-33 (860-56724-5)	9/6/23	08:55 Central		Water	X	X		1	AP-34 (860-56724-6)	9/6/23	10:55 Central		Water	X	X		1	AP-35 (860-56724-7)	9/6/23	10:45 Central		Water	X	X		1
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Soak, or waste oil)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	904/PreSep_0 Standard Target List	Total Number of Containers																																																																																						
PZ-02 (860-56724-1)	9/6/23	10:55 Central		Water	X	X		1																																																																																						
PZ-03 (860-56724-2)	9/6/23	09:00 Central		Water	X	X		1																																																																																						
PZ-03 (860-56724-2MS)	9/6/23	09:00 Central	MS	Water	X	X		1																																																																																						
PZ-03 (860-56724-2MSD)	9/6/23	09:00 Central	MSD	Water	X	X		1																																																																																						
AP-31 (860-56724-3)	9/6/23	08:45 Central		Water	X	X		1																																																																																						
AP-32 (860-56724-4)	9/6/23	10:10 Central		Water	X	X		1																																																																																						
AP-33 (860-56724-5)	9/6/23	08:55 Central		Water	X	X		1																																																																																						
AP-34 (860-56724-6)	9/6/23	10:55 Central		Water	X	X		1																																																																																						
AP-35 (860-56724-7)	9/6/23	10:45 Central		Water	X	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/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
 Deliverable Requested: I, II, III, IV, Other (specify) _____
 Primary Deliverable Rank: 2
 Date: _____
 Empty Kit Relinquished by: _____
 Relinquished by: _____
 Relinquished by: _____
 Custody Seals Intact: Yes No
 Custody Seal No. _____
 Cooler Temperature(s) °C and Other Remarks _____

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months
 Special Instructions/QC Requirements: _____

Received by: *Indra Fedex*
 Date/Time: *9/7/23*
 Company: _____

Received by: *M. Pinetto*
 Date/Time: *SEP 08 2023 08:00*
 Company: _____

Received by: _____
 Date/Time: _____
 Company: _____



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

Chain of Custody Record



Environment Testing

Client Information (Sub Contract Lab)		Sampler	Lab PM	Carrier Tracking No(s)	COC No	
Client Contact: Shipping/Receiving		Phone	Kudchadkar, Sachin G		860-40899.2	
Company: TestAmerica Laboratories, Inc.		E-Mail	Sachin.Kudchadkar@et.eurofins.com	State of Origin	Page 2 of 2	
Address: 13715 Rider Trail North,		Accreditations Required (See note)		Job #	860-56724-1	
City	Earth City	Due Date Requested:	Preservation Codes:			
State	MO	10/5/2023	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)			
Zip	63045	TAT Requested (days):	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 Other:			
Phone	314-298-8566(Tel) 314-298-8757(Fax)	PO #	Analysis Requested			
Email		WO #	Total Number of containers			
Project Name	San Miguel Electrical Co-Op 2H23 GW	Project #	Perform MS/MSD (Yes or No)			
Site		SSOV#	Field Filtered Sample (Yes or No)			
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=Water, S=solid, O=wastewat, or-wasteoil, etc-rt-usua, Acid)	Preservation Code:
AP-36 (860-56724-8)	9/6/23	10:05 Central	9/6/23	Water	Water	X
MW-03 (860-56724-9)	9/6/23	09:25 Central	9/6/23	Water	Water	X
PZ-05 (860-56724-10)	9/6/23	09:55 Central	9/6/23	Water	Water	X
PZ-06 (860-56724-11)	9/6/23	09:20 Central	9/6/23	Water	Water	X
EB-01 (860-56724-12)	9/6/23	09:40 Central	9/6/23	Water	Water	X
DUP-02 (860-56724-13)	9/6/23	08:00 Central	9/6/23	Water	Water	X
FB-02 (860-56724-14)	9/6/23	10:25 Central	9/6/23	Water	Water	X
Special Instructions/Note:						
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/test/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						
Deliverable Requested: I, II, III, IV, Other (specify) _____ Primary Deliverable Rank: 2						
Special Instructions/QC Requirements:						
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)						
Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months						
Empty Kit Relinquished by: _____ Date: _____						
Relinquished by: _____ Date/Time: _____ Company: _____						
Relinquished by: _____ Date/Time: _____ Company: _____						
Relinquished by: _____ Date/Time: _____ Company: _____						
Custody Seals Intact: _____ 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

ns | Environment Testing



Client Information (Sub Contract Lab) Lab PW: Kuchhadkar, Sachin G E-Mail: Sachin.Kuchhadkar@et.eurofins.com 1111111111 Phone: 860-56724 Chain of Custody		Job #: 860-56724-1	
Shipping/Receiving Company: Eurofins Environment Testing Northeast Address: 301 Alpha Drive, RIDC Park, Pittsburg, PA, 15238 Phone: 412-963-7058(Tel) 412-963-2468(Fax) Email:		Preservations Codes: 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 X - Trizma Y - EDTA Z - other (specify) Other:	
Due Date Requested: 10/2/2023 TAT Requested (days):		Analysis Requested	
PO # WO # Project # 86001746 SSO#		Total Number of containers	
Sample Identification - Client ID (Lab ID)		Special Instructions/Note:	
Sample Date 9/6/23	Sample Time 10:55 Central 09:00 Central 09:00 Central 09:00 Central 09:00 Central 08:45 Central 10:10 Central 08:55 Central 10:55 Central 10:45 Central	Matrix (Water, Seawater, Groundwater, etc.) Water Water Water Water Water Water Water Water Water	Please analyze at the lowest possible dilution Please analyze at the lowest possible dilution Please analyze at the lowest possible dilution Please analyze at the lowest possible dilution Please analyze at the lowest possible dilution Please analyze at the lowest possible dilution Please analyze at the lowest possible dilution Please analyze at the lowest possible dilution Please analyze at the lowest possible dilution
Sample Type (C=Comp, G=grab) MS MSD	Perform MS/MSD (Yes or No) X Field Filtered Sample (Yes or No) X 6020A/3005A (MOD) Custom List 7470A/7470A_Prep	Preservation Code: Water Water Water Water Water Water Water Water Water	1 1 1 1 1 1 1 1 1
Possible Hazard Identification Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Empty Kit Relinquished by:		Method of Shipment:	
Relinquished by: SC	Date: 9-7-23 14:40	Received by: [Signature]	Date/Tng: 9/8/23 0900
Relinquished by:	Date/Time:	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:	



Chain of Custody Record

Client Information (Sub Contract Lab)		Sampler	Lab PM	Carrier Tracking No(s)	COC No
Client Contact: Shipping/Receiving		Phone	Kudchadkar, Sachin G	State of Origin	860-40790.2
Company: Eurofins Environment Testing Northeast,		E-Mail	Sachin.Kudchadkar@et.eurofins.com	Texas	Page 2 of 2
Address: 301 Alpha Drive, RIDC Park,		Accreditations Required (See note):		Job #	860-56724-1
City: Pittsburgh	State, Zip	Due Date Requested:	Analysis Requested		
PA, 15238		10/2/2023	M - Hexane N - None O - As/NaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify)		
Phone: 412-963-7058(Tel) 412-963-2468(Fax)	PO #	TAT Requested (days):	Preservation Codes:		
Email:	WO #		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 Other:		
Project Name: San Miguel Electrical Co-Op 2H23 GW	Project #		Total Number of Containers		
Site:	SSOW#		1		
Sample Identification - Client ID (Lab ID)		Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	7470A/7470A Prep	Special Instructions/Note:
AP-36 (860-56724-8)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=other, AL=air)	Please analyze at the lowest possible dilution
MW-03 (860-56724-9)	9/6/23	10:05 Central	Water	Water	Please analyze at the lowest possible dilution
PZ-05 (860-56724-10)	9/6/23	09:25 Central	Water	Water	Please analyze at the lowest possible dilution
PZ-06 (860-56724-11)	9/6/23	09:55 Central	Water	Water	Please analyze at the lowest possible dilution
EB-01 (860-56724-12)	9/6/23	09:20 Central	Water	Water	Please analyze at the lowest possible dilution
DUP-02 (860-56724-13)	9/6/23	09:40 Central	Water	Water	Please analyze at the lowest possible dilution
FB-02 (860-56724-14)	9/6/23	08:00 Central	Water	Water	Please analyze at the lowest possible dilution
	9/6/23	10:25 Central	Water	Water	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/est/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
 Return To Client Disposal By Lab Archive For _____ Months
 Special Instructions/QC Requirements:

Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2
 Empty Kit Relinquished by: _____ Date: _____ Time: _____ Method of Shipment: _____

Relinquished by: *SC* Date/Time: 9-7-23 14:00 Company: _____
 Relinquished by: *Myra* Date/Time: 9/8/23 0900 Company: *EPHANE*
 Relinquished by: _____ Date/Time: _____ Company: _____

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





Client Information (Sub Contract Lab)

Client Contact: Phone: _____
Shipping/Receiving: _____

Company: Eurofins Eaton Analytical

Address: 110 S Hill Street,
City: South Bend
State, Zip: IN, 46617

Phone: 574-233-4777(Tel) 574-233-8207(Fax)
Email: _____

Project Name: San Miguel Electrical Co-Op 2H23 GW
Site: _____

PO #: _____
WO #: _____

Project #: 86001746
SSOW#: _____

Sampler: _____

Lab PM: Kudchadkar, Sachin G
E-Mail: Sachin.Kudchadkar@el.eurofins.com

Due Date Requested: 10/5/2023
TAT Requested (day): _____

Carrier Tracking No(s): _____

State of Origin: Texas

Accreditations Required (See note): NE LAP - Texas

COC No: 860-40837.1
Page: Page 1 of 2
Job #: 860-56724-1

Analysis Requested

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:

PK-2

Client Provided Sample Container

9-823 KD

9-823 KD

9-823 KD

9-823 KD

9-823 KD

9-823 KD

9-823 KD

9-823 KD

9-823 KD

9-823 KD

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9-823 KD

Note: Since laboratory accreditations are subject to change, Eurofins Environment, Testing South Central, LLC places the ownership of method, analyze & accreditation compliance upon our sub-contract 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/test/matrix, being analyzed, the samples must be shipped back to the Eurofins Environment, Testing South Central, LLC laboratory or other institutions 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 Deliverable Requested: I, II, III, IV, Other (Specify) _____ Primary Deliverable Rank: 2

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

Relinquished by: *Msavola* Date/Time: *9/19/23* Company: _____ Received by: _____ Date/Time: _____ Company: _____

Relinquished by: _____ Date/Time: _____ Company: _____ Received by: *KD* Date/Time: *9-8-23* Company: *OSYS*

Custody Seals Intact: Yes No Custody Seal No.: _____ Cooler Temperature(s) °C and Other Remarks: *AMB:INT*

Ver: 06/08/2021

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

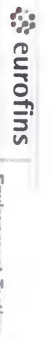
general

slip

Eurofins Houston

Chain of Custody Record

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



Client Information (Sub Contract Lab)

Client Contact: _____ Phone: _____
Shipping/Receiving: _____ Email: Sachin.Kudchadkar@el.eurofins.com
Carrier Tracking No(s): _____ State of Origin: Texas

Eurofins Eaton Analytical

Address: 110 S Hill Street, _____
City: South Bend, _____
State: IN, 46617

Due Date Requested: 10/5/2023
TAT Requested (days): _____

Analysis Requested

PO #: _____
WO #: _____
Project #: 86001746
SSOW#: _____

Project Name: San Miguel Electrical Co-Op 2H23 GW
Site: _____

Field Filtered Sample (Yes or No)
Perform MS/MSD (Yes or No)
SM7500_Ra_B/Rad_Prep Radium 226

CCO No: 860-40837.2
Page: Page 2 of 2
Job #: 860-56724-1

Preservation Codes:
A - HCL M - Hexane
B - NaOH N - None
C - Zn Acetate O - AsNaO2
D - Nitric Acid P - Na2OAS
E - NaHSO4 Q - Na2SO3
F - MeOH R - Na2S2O3
G - Anchor S - H2SO4
H - Ascorbic Acid T - TSP Dodecylhydrate
I - Ice U - Acetone
J - DI Water V - MCAA
K - EDTA W - PH 4.5
L - EDTA Y - Tritama
Z - other (specify) _____

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Soil, Sediment, etc.)	Preservation Code	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Total Number of containers	Special Instructions/Note:
AP-36 (860-56724-8)	9/6/23	10:05	Central	Water			X	2	PK2
MW-03 (860-56724-9)	9/6/23	09:25	Central	Water			X	2	✓
PZ-05 (860-56724-10)	9/6/23	09:55	Central	Water			X	2	✓
PZ-06 (860-56724-11)	9/6/23	09:20	Central	Water			X	2	✓
EB-01 (860-56724-12)	9/6/23	09:40	Central	Water			X	2	✓
DUP-02 (860-56724-13)	9/6/23	08:00	Central	Water			X	2	✓
FB-02 (860-56724-14)	9/6/23	10:25	Central	Water			X	2	9-8-23 105 ✓

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/shipment, 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 _____
Deliverable Requested: I, II, III, IV, Other (specify) _____
Primary Deliverable Rank: 2

Special Instructions/OCC Requirements: _____

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For _____ Months

Special Instructions/OCC Requirements: _____

Relinquished by: _____ Date/Time: 9/29/23 Company: _____

Relinquished by: _____ Date/Time: _____ Company: _____

Relinquished by: _____ Date/Time: _____ Company: _____

Relinquished by: _____ Date/Time: _____ Company: _____

Custody Seals Intact: Yes No Custody Seal No.: _____

Received by: _____ Date/Time: 9-8-23 Company: _____

Cooler Temperature(s) °C and Other Remarks: _____

- 1
- 2
- 3
- 4
- 5
- 6
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- 10
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- 13
- 14
- 15

about

step

Login Sample Receipt Checklist

Client: GSI Environmental, Inc

Job Number: 860-56724-1

Login Number: 56724

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: 860-56724-1

Login Number: 56724

List Source: Eurofins Eaton Analytical South Bend

List Number: 3

List Creation: 09/08/23 02:49 PM

Creator: Pehling-Wright, Penny

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.	False	Thermal preservation not required.
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: 860-56724-1

Login Number: 56724

List Number: 4

Creator: Watson, Debbie

List Source: Eurofins Pittsburgh

List Creation: 09/08/23 06:45 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: 860-56724-1

Login Number: 56724

List Number: 2

Creator: Pinette, Meadow L

List Source: Eurofins St. Louis

List Creation: 09/08/23 12:55 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?	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	



DATA USABILITY SUMMARY

September 2023 Sampling Event (Job ID: 860-56722-1)

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 6 September 2023**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: T104704215-23-53, T104704528, T104704193, and T104704187-22-16, 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:

Analytes	MS/MSD		LCS/LCSD		Lab Dup	Field Precision
	% 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	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.

Items related to sample preparation are listed below.

- Samples EP-31, EP-32, EP-33, EP-34, EP-35, EP-37, EP-38, MW-4, and DUP-03 by Method 300.0 were diluted to bring the concentration of target analytes within the calibration range. Elevated RLs are provided.
- Sample EP-36 by Method 300.0 was diluted due to the nature of the sample matrix high conductivity and possible sample interference. Elevated RLs are provided.
- Samples EP-31, EP-32, EP-33, EP-34, EP-35, EP-36, EP-37, EP-38, MW-4, EB-02, DUP-03, and FB-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 180-450921 recovered above the upper control limit for Beryllium. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.
- For Method 6020A, the low level check standard recovery associated with batch 180-450921 is outside the acceptance criteria for Sodium. The samples associated with this low level check standard were non-detects for the affected analytes; therefore, the data have been reported.
- For Method 6020A, the low level check standard recovery associated with batch 180-451271 is outside the acceptance criteria for Antimony. The samples associated with this low level check standard were non-detects for the affected analytes; therefore, the data have been reported.
- For Method 6020A, the low level standard (CRI) was outside of criteria for samples EP-31, EP-32, EP-33, EP-34, EP-35, EP-36, EP-37, EP-38, MW-4, EB-02, DUP-03 and FB-03. Samples were evaluated to the CCV and can be reported based on secondary criteria.

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 860-121877 contained Fluoride, Chloride, and Sulfate 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:

- Chloride, Sulfate, Calcium, Sodium, Lithium, Alkalinity, 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, Sulfate, Calcium, Sodium, Lithium, Alkalinity, and TDS that were greater than 5X the associated field blank concentration and did not require qualifiers.
- Chloride, Sulfate, Calcium, Lithium, Alkalinity, 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 Chloride, Sulfate, Calcium, Lithium, Alkalinity, 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 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:

- Due to the high concentration of Sulfate, the MS/MSD for analytical batch 860-121877 could not be evaluated for accuracy and precision. The associated LCS/LCSD met acceptance criteria.
- The recoveries for analytical batch 121877 analyzed using sample EP-31 were outside control limits for Chloride (MS/MSD). Recoveries of Chloride in the MS/MSD samples were 82% and 89%, respectively, 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. 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 122258 analyzed using sample EP-31 were outside control limits for Sulfate (MS/MSD). Recoveries of Sulfate in the MS/MSD samples were 426% and 423%, 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. 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 450921 analyzed using sample EP-31 were outside control limits for Calcium (MS/MSD). Recoveries of Calcium in the MS/MSD samples were 162% and 155%, 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.
- The recoveries for analytical batch 451271 analyzed using sample EP-31 were outside control limits for Sodium (MS/MSD). Recoveries of Sodium in the MS/MSD samples were 152% and 40%, 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: 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. 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
09/06/2023	EET HOU/EET PIT/EET SL/EA SB	860-56722-1	EP-31	Water
09/06/2023	EET HOU/EET PIT/EET SL/EA SB	860-56722-2	EP-32	Water
09/06/2023	EET HOU/EET PIT/EET SL/EA SB	860-56722-3	EP-33	Water
09/06/2023	EET HOU/EET PIT/EET SL/EA SB	860-56722-4	EP-34	Water
09/06/2023	EET HOU/EET PIT/EET SL/EA SB	860-56722-5	EP-35	Water
09/06/2023	EET HOU/EET PIT/EET SL/EA SB	860-56722-6	EP-36	Water
09/06/2023	EET HOU/EET PIT/EET SL/EA SB	860-56722-7	EP-37	Water
09/06/2023	EET HOU/EET PIT/EET SL/EA SB	860-56722-8	EP-38	Water
09/06/2023	EET HOU/EET PIT/EET SL/EA SB	860-56722-9	MW-4	Water
09/06/2023	EET HOU/EET PIT/EET SL/EA SB	860-56722-10	EB-02	Water
09/06/2023	EET HOU/EET PIT/EET SL/EA SB	860-56722-11	DUP-03	Water
09/06/2023	EET HOU/EET PIT/EET SL/EA SB	860-56722-12	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

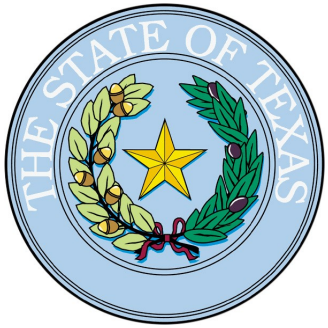
Analyte	MDL (mg/L)	Primary Sample Result (mg/L)	Field Duplicate Result (mg/L)	Relative Percent Difference (RPD)
Fluoride	.100	0.100 U	0.475 J	130.4
Chloride	2.50	1950	1870	4.2
Sulfate	2.00	2890	2860	1.0
Arsenic	0.000282	0.000647 J	0.000661 J	2.1
Boron	12.0	61.7	55.2	11.1
Barium	0.00314	0.0131	0.0125	4.7
Beryllium	0.000274	0.000274 U ⁺	0.000274 U ⁺	0
Calcium	0.127	512	500	2.4
Cadmium	0.000217	0.000217 U	0.000217 U	0
Chromium	0.00153	0.00195 J	0.00153 U	24.1
Cobalt	0.000261	0.000273 J	0.000261 U	4.5
Magnesium	0.0498	39.2	39.4	0.5
Molybdenum	0.000610	0.0186	0.0131	34.7
Sodium	3.68	2390	2370	0.8
Lead	0.000376	0.000376 U	0.000376 U	0
Antimony	0.0193	0.0193 U ^{5-^3+}	0.0193 U ^{5-^3+}	0
Thallium	0.000472	0.000472 U	0.000472 U	0
Selenium	0.000739	0.00157 J	0.00145 J	7.9
Potassium	3.12	41.5	39.6	4.7
Lithium	0.00129	0.692	0.729	5.2
Mercury	0.130	0.130 U	0.130 U	0
Total Alkalinity	4.00	220	212	3.7
Bicarbonate Alkalinity as CaCO ₃	4.00	220	212	3.7
Total Dissolved Solids	100	9370	9480	1.2
Radium-228	1.00	1.89	1.14	49.5
Ra-226	1.00	0.280 U	0.93	107.4

Notes:

1. MDL: Method Detection Limit
2. mg/L: milligrams per liter
3. $RPD = \frac{ABS(PR-FD)}{AVERAGE(PR+FD)} * 100$, 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; ⁺ = CCV is outside acceptance limits, high biased; ³⁺ = reporting limit check standard is outside acceptance limits, high biased; ⁵⁻ = LRC is outside acceptance limits, low biased
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

A handwritten signature in black ink that reads "Erin E. Chamallo".

**Executive Director Texas Commission on
Environmental Quality**



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.

Certificate Number: T104704187-22-16

Effective Date: 1/1/2023

Expiration Date: 12/31/2023

A handwritten signature in black ink, appearing to read "T. G. Baker".

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.

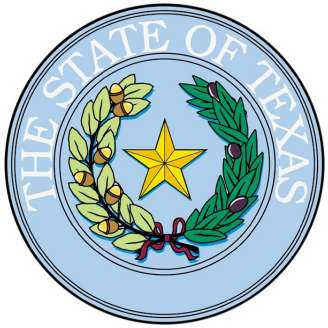
Certificate Number: T104704528-23-12

Effective Date: 4/1/2023

Expiration Date: 3/31/2024

A handwritten signature in black ink that reads "Erin E. Chamallo".

**Executive Director Texas Commission on
Environmental Quality**



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.

Certificate Number: T104704193-23-22

Effective Date: 8/1/2023

Expiration Date: 7/31/2024

A handwritten signature in black ink that reads "Erin E. Chamalor".

**Executive Director Texas Commission on
Environmental Quality**

Attachment B

Eurofins Houston – Stafford, Texas

Analytical Report

Job ID.: 860-56722-1



ANALYTICAL REPORT

PREPARED FOR

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

Generated 11/9/2023 11:43:28 AM

JOB DESCRIPTION

San Miguel Electrical Co-Op 2H23 GW

JOB NUMBER

860-56722-1

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
11/9/2023 11:43:28 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
Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56722-1

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.
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.
^3+	Reporting Limit Check Standard is outside acceptance limits, high biased
^5-	Linear Range Check (LRC) is outside acceptance limits, low 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.
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
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.
α	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)

Eurofins Houston

Definitions/Glossary

Client: GSI Environmental, Inc
Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56722-1

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

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Case Narrative

Client: GSI Environmental, Inc
Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56722-1

Job ID: 860-56722-1

Laboratory: Eurofins Houston

Narrative

Job Narrative 860-56722-1

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 9/7/2023 10:06 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, 2.5°C, 4.0°C and 4.3°C

HPLC/IC

Method 300_ORGFM_28D: The following samples were diluted to bring the concentration of target analytes within the calibration range: EP-31 (860-56722-1), EP-32 (860-56722-2), EP-33 (860-56722-3), EP-34 (860-56722-4), EP-35 (860-56722-5), EP-37 (860-56722-7), EP-38 (860-56722-8), MW-4 (860-56722-9) and DUP-03 (860-56722-11). Elevated reporting limits (RLs) are provided.

Method 300_ORGFM_28D: The instrument blank/CCB for analytical batch 860-121877 contained Fluoride 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 instrument blank/CCB for analytical batch 860-121877 contained Chloride, Fluoride and Sulfate 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 instrument blank/CCB for analytical batch 860-121877 contained Chloride and Fluoride 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 instrument blank/CCB for analytical batch 860-121877 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 qualified and reported.

Method 300_ORGFM_28D: The following sample was diluted due to the nature of the sample matrix: high conductivity & possible sample interference EP-36 (860-56722-6). Elevated reporting limits (RLs) are provided.

Method 300_ORGFM_28D: Due to the high concentration of sulfate, the matrix spike / matrix spike duplicate (MS/MSD) for analytical batch 860-121877 could not be evaluated for accuracy and precision. The associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) met acceptance criteria.

Method 300_ORGFM_28D: The instrument blank/CCB for analytical batch 860-121877 contained Fluoride greater than the method detection limit (MDL), and were not reanalyzed because none of the samples associated with this instrument blank/CCB contained the target compound. The data have been reported.

Method 300_ORGFM_28D: The instrument blank/CCB for analytical batch 860-121877 contained Chloride greater than the method detection limit (MDL), and were not reanalyzed because none of the samples associated with this instrument blank/CCB contained the target compound. The data have been reported.

Case Narrative

Client: GSI Environmental, Inc
Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56722-1

Job ID: 860-56722-1 (Continued)

Laboratory: Eurofins Houston (Continued)

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-122258 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) 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: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 180-446960 and analytical batch 180-450921 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: The following samples were diluted to bring the concentration of target analytes within the calibration range: EP-31 (860-56722-1), EP-31 (860-56722-1[MS]), EP-31 (860-56722-1[MSD]), EP-32 (860-56722-2), EP-33 (860-56722-3), EP-34 (860-56722-4), EP-35 (860-56722-5), EP-36 (860-56722-6), EP-37 (860-56722-7), EP-38 (860-56722-8), MW-4 (860-56722-9), EB-02 (860-56722-10), DUP-03 (860-56722-11), FB-03 (860-56722-12) and (MB 180-446960/1-A ^20). Elevated reporting limits (RLs) are provided.

Method 6020A: The low level standard (CRI) was outside of criteria for the following samples: EP-31 (860-56722-1), EP-31 (860-56722-1[MS]), EP-31 (860-56722-1[MSD]), EP-32 (860-56722-2), EP-33 (860-56722-3), EP-34 (860-56722-4), EP-35 (860-56722-5), EP-36 (860-56722-6), EP-37 (860-56722-7), EP-38 (860-56722-8), MW-4 (860-56722-9), EB-02 (860-56722-10), DUP-03 (860-56722-11) and FB-03 (860-56722-12). Samples were evaluated to the CCV (continuing calibration verification) and can be reported based on secondary criteria.

Method 6020A: The low level check standard recovery associated with batch 180-451271 is outside the acceptance criteria for the following analyte(s): Antimony. Samples were non-detects.

Method 6020A: The continuing calibration verification (CCV) associated with batch 180-450921 recovered above the upper control limit for Beryllium. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 6020A: The low level check standard recovery associated with batch 180-450921 is outside the acceptance criteria for the following analyte(s): Sodium.>. The samples associated with this low level check standard were non-detects for the affected analytes; therefore, the data have been reported. (MB 180-446960/1-A)

Method 6020A: The following samples were diluted to bring the concentration of target analytes within the calibration range: EP-31 (860-56722-1), EP-31 (860-56722-1[MS]), EP-31 (860-56722-1[MSD]), EP-32 (860-56722-2), EP-33 (860-56722-3), EP-34 (860-56722-4), EP-35 (860-56722-5), EP-36 (860-56722-6), EP-37 (860-56722-7), EP-38 (860-56722-8), MW-4 (860-56722-9), EB-02 (860-56722-10), DUP-03 (860-56722-11) and FB-03 (860-56722-12). 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.

Gas Flow Proportional Counter

Method 904.0: Radium-228 batch 627646

The Ba Carrier recovery is outside the upper control limit (110%) for the following sample: EP-31 (860-56722-1). There was physical evidence of matrix interference apparent during the initial preparation of the sample. The QC samples associated with the batch have acceptable carrier recovery indicating the presence of matrix interference.

The sample has been truncated to 100% to reduce any potential bias a high carrier recovery may have. The data have been qualified and reported.

Method 904.0: Radium-228 batch 627646

Case Narrative

Client: GSI Environmental, Inc
Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56722-1

Job ID: 860-56722-1 (Continued)

Laboratory: Eurofins Houston (Continued)

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

EP-31 (860-56722-1), EP-31 (860-56722-1[MS]), EP-31 (860-56722-1[MSD]), EP-32 (860-56722-2), EP-33 (860-56722-3), EP-34 (860-56722-4), EP-35 (860-56722-5), EP-36 (860-56722-6), EP-37 (860-56722-7), EP-38 (860-56722-8), MW-4 (860-56722-9), EB-02 (860-56722-10), DUP-03 (860-56722-11), FB-03 (860-56722-12), (LCS 160-627646/2-A) and (MB 160-627646/1-A)

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

Rad

Method SM7500_Ra_B: Second LCS analyzed due to not enough sample volume to perform an MS and MSD for this batch. Both LCS's passed at 91 and 90 with limits of 90-110 and RPD was 0.49 with RPD limits of <20.0. Sample results are unaffected and QC passes.

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: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56722-1

Client Sample ID: EP-31

Lab Sample ID: 860-56722-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	142		0.500	0.250	mg/L	1		300.0	Total/NA
Fluoride	1.18		0.500	0.100	mg/L	1		300.0	Total/NA
Sulfate - DL	2720		5.00	2.00	mg/L	10		300.0	Total/NA
Arsenic	0.0171		0.00100	0.000282	mg/L	1		EPA 6020A	Total Recoverable
Boron	5.00		1.60	1.20	mg/L	20		EPA 6020A	Total Recoverable
Barium	0.00585	J	0.0100	0.00314	mg/L	1		EPA 6020A	Total Recoverable
Beryllium	0.0635		0.0200	0.00548	mg/L	20		EPA 6020A	Total Recoverable
Calcium	456		0.500	0.127	mg/L	1		EPA 6020A	Total Recoverable
Cadmium	0.0119		0.00100	0.000217	mg/L	1		EPA 6020A	Total Recoverable
Cobalt	0.0969		0.000500	0.000261	mg/L	1		EPA 6020A	Total Recoverable
Magnesium	39.4		0.500	0.0498	mg/L	1		EPA 6020A	Total Recoverable
Sodium	900		10.0	3.68	mg/L	20		EPA 6020A	Total Recoverable
Lead	0.00108		0.00100	0.000376	mg/L	1		EPA 6020A	Total Recoverable
Thallium	0.00262		0.00100	0.000472	mg/L	1		EPA 6020A	Total Recoverable
Selenium	0.00327	J	0.00500	0.000739	mg/L	1		EPA 6020A	Total Recoverable
Potassium	40.9		10.0	3.12	mg/L	20		EPA 6020A	Total Recoverable
Lithium	0.600		0.00500	0.00129	mg/L	1		EPA 6020A	Total Recoverable
Total Dissolved Solids	3640		40.0	40.0	mg/L	1		SM 2540C	Total/NA

Client Sample ID: EP-32

Lab Sample ID: 860-56722-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1860		5.00	2.50	mg/L	10		300.0	Total/NA
Sulfate	3700		5.00	2.00	mg/L	10		300.0	Total/NA
Arsenic	0.000573	J	0.00100	0.000282	mg/L	1		EPA 6020A	Total Recoverable
Boron	23.6		8.00	6.01	mg/L	100		EPA 6020A	Total Recoverable
Barium	0.0130		0.0100	0.00314	mg/L	1		EPA 6020A	Total Recoverable
Calcium	478		0.500	0.127	mg/L	1		EPA 6020A	Total Recoverable
Magnesium	50.7		0.500	0.0498	mg/L	1		EPA 6020A	Total Recoverable
Molybdenum	0.00551		0.00500	0.000610	mg/L	1		EPA 6020A	Total Recoverable
Sodium	2880		10.0	3.68	mg/L	20		EPA 6020A	Total Recoverable
Selenium	0.000741	J	0.00500	0.000739	mg/L	1		EPA 6020A	Total Recoverable
Potassium	44.5		10.0	3.12	mg/L	20		EPA 6020A	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Houston

Detection Summary

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56722-1

Client Sample ID: EP-32 (Continued)

Lab Sample ID: 860-56722-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Lithium	0.987		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	10300		100	100	mg/L	1			SM 2540C	Total/NA

Client Sample ID: EP-33

Lab Sample ID: 860-56722-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Chloride - DL	1950		5.00	2.50	mg/L	10			300.0	Total/NA
Sulfate - DL	2890		5.00	2.00	mg/L	10			300.0	Total/NA
Arsenic	0.000647	J	0.00100	0.000282	mg/L	1			EPA 6020A	Total Recoverable
Boron	61.7		16.0	12.0	mg/L	200			EPA 6020A	Total Recoverable
Barium	0.0131		0.0100	0.00314	mg/L	1			EPA 6020A	Total Recoverable
Calcium	512		0.500	0.127	mg/L	1			EPA 6020A	Total Recoverable
Chromium	0.00195	J	0.00200	0.00153	mg/L	1			EPA 6020A	Total Recoverable
Cobalt	0.000273	J	0.000500	0.000261	mg/L	1			EPA 6020A	Total Recoverable
Magnesium	39.2		0.500	0.0498	mg/L	1			EPA 6020A	Total Recoverable
Molybdenum	0.0186		0.00500	0.000610	mg/L	1			EPA 6020A	Total Recoverable
Sodium	2390		10.0	3.68	mg/L	20			EPA 6020A	Total Recoverable
Selenium	0.00157	J	0.00500	0.000739	mg/L	1			EPA 6020A	Total Recoverable
Potassium	41.5		10.0	3.12	mg/L	20			EPA 6020A	Total Recoverable
Lithium	0.692		0.00500	0.00129	mg/L	1			EPA 6020A	Total Recoverable
Total Alkalinity	220		4.00	4.00	mg/L	1			SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	220		4.00	4.00	mg/L	1			SM 2320B	Total/NA
Total Dissolved Solids	9370		100	100	mg/L	1			SM 2540C	Total/NA

Client Sample ID: EP-34

Lab Sample ID: 860-56722-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Chloride	3210		5.00	2.50	mg/L	10			300.0	Total/NA
Sulfate	2810		5.00	2.00	mg/L	10			300.0	Total/NA
Arsenic	0.000497	J	0.00100	0.000282	mg/L	1			EPA 6020A	Total Recoverable
Boron	22.0		8.00	6.01	mg/L	100			EPA 6020A	Total Recoverable
Barium	0.0145		0.0100	0.00314	mg/L	1			EPA 6020A	Total Recoverable
Calcium	489		0.500	0.127	mg/L	1			EPA 6020A	Total Recoverable
Magnesium	59.4		0.500	0.0498	mg/L	1			EPA 6020A	Total Recoverable
Molybdenum	0.00323	J	0.00500	0.000610	mg/L	1			EPA 6020A	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Houston

Detection Summary

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56722-1

Client Sample ID: EP-34 (Continued)

Lab Sample ID: 860-56722-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Sodium	3480		10.0	3.68	mg/L	20			EPA 6020A	Total Recoverable
Potassium	48.8		10.0	3.12	mg/L	20			EPA 6020A	Total Recoverable
Lithium	1.24		0.100	0.0258	mg/L	20			EPA 6020A	Total Recoverable
Total Alkalinity	263		4.00	4.00	mg/L	1			SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	263		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: 860-56722-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Chloride	2990		5.00	2.50	mg/L	10			300.0	Total/NA
Sulfate	2850		5.00	2.00	mg/L	10			300.0	Total/NA
Arsenic	0.000599	J	0.00100	0.000282	mg/L	1			EPA 6020A	Total Recoverable
Boron	35.3		16.0	12.0	mg/L	200			EPA 6020A	Total Recoverable
Barium	0.0171		0.0100	0.00314	mg/L	1			EPA 6020A	Total Recoverable
Calcium	419		0.500	0.127	mg/L	1			EPA 6020A	Total Recoverable
Magnesium	65.7		0.500	0.0498	mg/L	1			EPA 6020A	Total Recoverable
Molybdenum	0.00169	J	0.00500	0.000610	mg/L	1			EPA 6020A	Total Recoverable
Sodium	3160		10.0	3.68	mg/L	20			EPA 6020A	Total Recoverable
Potassium	45.5		10.0	3.12	mg/L	20			EPA 6020A	Total Recoverable
Lithium	0.974		0.00500	0.00129	mg/L	1			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	11300		100	100	mg/L	1			SM 2540C	Total/NA

Client Sample ID: EP-36

Lab Sample ID: 860-56722-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Arsenic	0.000458	J	0.00100	0.000282	mg/L	1			EPA 6020A	Total Recoverable
Boron	31.5		16.0	12.0	mg/L	200			EPA 6020A	Total Recoverable
Barium	0.0226		0.0100	0.00314	mg/L	1			EPA 6020A	Total Recoverable
Calcium	492		0.500	0.127	mg/L	1			EPA 6020A	Total Recoverable
Chromium	0.00155	J	0.00200	0.00153	mg/L	1			EPA 6020A	Total Recoverable
Magnesium	85.6		0.500	0.0498	mg/L	1			EPA 6020A	Total Recoverable
Sodium	2580		10.0	3.68	mg/L	20			EPA 6020A	Total Recoverable
Potassium	48.9		10.0	3.12	mg/L	20			EPA 6020A	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Houston

Detection Summary

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56722-1

Client Sample ID: EP-36 (Continued)

Lab Sample ID: 860-56722-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	1.18		0.100	0.0258	mg/L	20		EPA 6020A	Total Recoverable
Total Alkalinity	165		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	165		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	9430		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: EP-37

Lab Sample ID: 860-56722-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	7.78		5.00	2.00	mg/L	10		300.0	Total/NA
Arsenic	0.000417	J	0.00100	0.000282	mg/L	1		EPA 6020A	Total Recoverable
Boron	8.86		8.00	6.01	mg/L	100		EPA 6020A	Total Recoverable
Barium	0.0167		0.0100	0.00314	mg/L	1		EPA 6020A	Total Recoverable
Calcium	419		0.500	0.127	mg/L	1		EPA 6020A	Total Recoverable
Magnesium	67.2		0.500	0.0498	mg/L	1		EPA 6020A	Total Recoverable
Sodium	2670		10.0	3.68	mg/L	20		EPA 6020A	Total Recoverable
Potassium	50.0		10.0	3.12	mg/L	20		EPA 6020A	Total Recoverable
Lithium	1.32		0.100	0.0258	mg/L	20		EPA 6020A	Total Recoverable
Total Alkalinity	191		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	191		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	9440		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: EP-38

Lab Sample ID: 860-56722-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride - DL	1050		5.00	2.50	mg/L	10		300.0	Total/NA
Sulfate - DL	1990		5.00	2.00	mg/L	10		300.0	Total/NA
Arsenic	0.000582	J	0.00100	0.000282	mg/L	1		EPA 6020A	Total Recoverable
Boron	2.44		1.60	1.20	mg/L	20		EPA 6020A	Total Recoverable
Barium	0.0142		0.0100	0.00314	mg/L	1		EPA 6020A	Total Recoverable
Calcium	469		0.500	0.127	mg/L	1		EPA 6020A	Total Recoverable
Cobalt	0.00142		0.000500	0.000261	mg/L	1		EPA 6020A	Total Recoverable
Magnesium	65.1		0.500	0.0498	mg/L	1		EPA 6020A	Total Recoverable
Sodium	1270		10.0	3.68	mg/L	20		EPA 6020A	Total Recoverable
Potassium	39.5		10.0	3.12	mg/L	20		EPA 6020A	Total Recoverable
Lithium	0.774		0.00500	0.00129	mg/L	1		EPA 6020A	Total Recoverable
Total Alkalinity	60.0		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	60.0		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	5570		40.0	40.0	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: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56722-1

Client Sample ID: MW-4

Lab Sample ID: 860-56722-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride - DL	1400		5.00	2.50	mg/L	10		300.0	Total/NA
Sulfate - DL	2040		5.00	2.00	mg/L	10		300.0	Total/NA
Arsenic	0.000616	J	0.00100	0.000282	mg/L	1		EPA 6020A	Total Recoverable
Boron	11.6		3.20	2.40	mg/L	40		EPA 6020A	Total Recoverable
Barium	0.0123		0.0100	0.00314	mg/L	1		EPA 6020A	Total Recoverable
Calcium	321		0.500	0.127	mg/L	1		EPA 6020A	Total Recoverable
Cobalt	0.000834		0.000500	0.000261	mg/L	1		EPA 6020A	Total Recoverable
Magnesium	57.1		0.500	0.0498	mg/L	1		EPA 6020A	Total Recoverable
Molybdenum	0.00226	J	0.00500	0.000610	mg/L	1		EPA 6020A	Total Recoverable
Sodium	1700		10.0	3.68	mg/L	20		EPA 6020A	Total Recoverable
Potassium	40.8		10.0	3.12	mg/L	20		EPA 6020A	Total Recoverable
Lithium	0.695		0.00500	0.00129	mg/L	1		EPA 6020A	Total Recoverable
Total Alkalinity	145		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	145		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	6330		40.0	40.0	mg/L	1		SM 2540C	Total/NA

Client Sample ID: EB-02

Lab Sample ID: 860-56722-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	0.841		0.500	0.250	mg/L	1		300.0	Total/NA
Sulfate	0.258	J	0.500	0.200	mg/L	1		300.0	Total/NA
Calcium	0.163	J	0.500	0.127	mg/L	1		EPA 6020A	Total Recoverable
Lithium	0.00170	J	0.00500	0.00129	mg/L	1		EPA 6020A	Total Recoverable
Total Alkalinity	11.1		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	11.1		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	12.0		5.00	5.00	mg/L	1		SM 2540C	Total/NA

Client Sample ID: DUP-03

Lab Sample ID: 860-56722-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	0.475	J	0.500	0.100	mg/L	1		300.0	Total/NA
Chloride - DL	1870		5.00	2.50	mg/L	10		300.0	Total/NA
Sulfate - DL	2860		5.00	2.00	mg/L	10		300.0	Total/NA
Arsenic	0.000661	J	0.00100	0.000282	mg/L	1		EPA 6020A	Total Recoverable
Boron	55.2		16.0	12.0	mg/L	200		EPA 6020A	Total Recoverable
Barium	0.0125		0.0100	0.00314	mg/L	1		EPA 6020A	Total Recoverable
Calcium	500		0.500	0.127	mg/L	1		EPA 6020A	Total Recoverable
Magnesium	39.4		0.500	0.0498	mg/L	1		EPA 6020A	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Houston

Detection Summary

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56722-1

Client Sample ID: DUP-03 (Continued)

Lab Sample ID: 860-56722-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Molybdenum	0.0131		0.00500	0.000610	mg/L	1		EPA 6020A	Total Recoverable
Sodium	2370		10.0	3.68	mg/L	20		EPA 6020A	Total Recoverable
Selenium	0.00145	J	0.00500	0.000739	mg/L	1		EPA 6020A	Total Recoverable
Potassium	39.6		10.0	3.12	mg/L	20		EPA 6020A	Total Recoverable
Lithium	0.729		0.00500	0.00129	mg/L	1		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	9480		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: FB-03

Lab Sample ID: 860-56722-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1.77		0.500	0.250	mg/L	1		300.0	Total/NA
Sulfate	0.368	J	0.500	0.200	mg/L	1		300.0	Total/NA
Calcium	0.425	J	0.500	0.127	mg/L	1		EPA 6020A	Total Recoverable
Sodium	4.37	J	10.0	3.68	mg/L	20		EPA 6020A	Total Recoverable
Lithium	0.00239	J	0.00500	0.00129	mg/L	1		EPA 6020A	Total Recoverable
Total Alkalinity	20.3		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	20.3		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	15.5		5.00	5.00	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Houston

Client Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56722-1

Client Sample ID: EP-31

Lab Sample ID: 860-56722-1

Date Collected: 09/06/23 12:05

Matrix: Water

Date Received: 09/07/23 10:06

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	142		0.500	0.250	mg/L			09/16/23 05:30	1
Fluoride	1.18		0.500	0.100	mg/L			09/16/23 05:30	1

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	2720		5.00	2.00	mg/L			09/16/23 05:38	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0171		0.00100	0.000282	mg/L		09/20/23 07:04	11/02/23 18:24	1
Boron	5.00		1.60	1.20	mg/L		09/20/23 07:04	11/08/23 13:51	20
Barium	0.00585	J	0.0100	0.00314	mg/L		09/20/23 07:04	11/02/23 18:24	1
Beryllium	0.0635		0.0200	0.00548	mg/L		09/20/23 07:04	11/07/23 15:03	20
Calcium	456		0.500	0.127	mg/L		09/20/23 07:04	11/02/23 18:24	1
Cadmium	0.0119		0.00100	0.000217	mg/L		09/20/23 07:04	11/02/23 18:24	1
Chromium	0.00153	U	0.00200	0.00153	mg/L		09/20/23 07:04	11/02/23 18:24	1
Cobalt	0.0969		0.000500	0.000261	mg/L		09/20/23 07:04	11/02/23 18:24	1
Magnesium	39.4		0.500	0.0498	mg/L		09/20/23 07:04	11/02/23 18:24	1
Molybdenum	0.000610	U	0.00500	0.000610	mg/L		09/20/23 07:04	11/02/23 18:24	1
Sodium	900		10.0	3.68	mg/L		09/20/23 07:04	11/07/23 15:03	20
Lead	0.00108		0.00100	0.000376	mg/L		09/20/23 07:04	11/02/23 18:24	1
Antimony	0.0193	U ^5- ^3+	0.0400	0.0193	mg/L		09/20/23 07:04	11/07/23 15:03	20
Thallium	0.00262		0.00100	0.000472	mg/L		09/20/23 07:04	11/02/23 18:24	1
Selenium	0.00327	J	0.00500	0.000739	mg/L		09/20/23 07:04	11/02/23 18:24	1
Potassium	40.9		10.0	3.12	mg/L		09/20/23 07:04	11/07/23 15:03	20
Lithium	0.600		0.00500	0.00129	mg/L		09/20/23 07:04	11/02/23 18:24	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		09/13/23 09:05	09/14/23 09:19	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			09/13/23 23:00	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			09/13/23 23:00	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			09/13/23 23:00	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			09/13/23 23:00	1
Total Dissolved Solids (SM 2540C)	3640		40.0	40.0	mg/L			09/12/23 11:47	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	1.90		0.591	0.616	1.00	0.675	pCi/L	09/12/23 09:44	09/29/23 11:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	112	X	30 - 110					09/12/23 09:44	09/29/23 11:56	1
Y Carrier	80.7		30 - 110					09/12/23 09:44	09/29/23 11:56	1

Eurofins Houston

Client Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56722-1

Client Sample ID: EP-31

Lab Sample ID: 860-56722-1

Date Collected: 09/06/23 12:05

Matrix: Water

Date Received: 09/07/23 10:06

Method: SM7500 Ra B - Radium-226

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra-226	0.950		0.460		1.00	0.340	pCi/L	09/11/23 10:43	09/22/23 16:36	1

Client Sample ID: EP-32

Lab Sample ID: 860-56722-2

Date Collected: 09/06/23 08:15

Matrix: Water

Date Received: 09/07/23 10:06

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1860		5.00	2.50	mg/L			09/16/23 06:21	10
Fluoride	1.00	U	5.00	1.00	mg/L			09/16/23 06:21	10
Sulfate	3700		5.00	2.00	mg/L			09/16/23 06:21	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.000573	J	0.00100	0.000282	mg/L		09/20/23 07:04	11/02/23 18:33	1
Boron	23.6		8.00	6.01	mg/L		09/20/23 07:04	11/08/23 14:00	100
Barium	0.0130		0.0100	0.00314	mg/L		09/20/23 07:04	11/02/23 18:33	1
Beryllium	0.000274	U ^^	0.00100	0.000274	mg/L		09/20/23 07:04	11/02/23 18:33	1
Calcium	478		0.500	0.127	mg/L		09/20/23 07:04	11/02/23 18:33	1
Cadmium	0.000217	U	0.00100	0.000217	mg/L		09/20/23 07:04	11/02/23 18:33	1
Chromium	0.00153	U	0.00200	0.00153	mg/L		09/20/23 07:04	11/02/23 18:33	1
Cobalt	0.000261	U	0.000500	0.000261	mg/L		09/20/23 07:04	11/02/23 18:33	1
Magnesium	50.7		0.500	0.0498	mg/L		09/20/23 07:04	11/02/23 18:33	1
Molybdenum	0.00551		0.00500	0.000610	mg/L		09/20/23 07:04	11/02/23 18:33	1
Sodium	2880		10.0	3.68	mg/L		09/20/23 07:04	11/07/23 15:11	20
Lead	0.000376	U	0.00100	0.000376	mg/L		09/20/23 07:04	11/02/23 18:33	1
Antimony	0.0193	U ^5- ^3+	0.0400	0.0193	mg/L		09/20/23 07:04	11/07/23 15:11	20
Thallium	0.000472	U	0.00100	0.000472	mg/L		09/20/23 07:04	11/02/23 18:33	1
Selenium	0.000741	J	0.00500	0.000739	mg/L		09/20/23 07:04	11/02/23 18:33	1
Potassium	44.5		10.0	3.12	mg/L		09/20/23 07:04	11/07/23 15:11	20
Lithium	0.987		0.00500	0.00129	mg/L		09/20/23 07:04	11/02/23 18:33	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		09/13/23 09:05	09/14/23 09:22	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			09/13/23 23:08	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	223		4.00	4.00	mg/L			09/13/23 23:08	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			09/13/23 23:08	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			09/13/23 23:08	1
Total Dissolved Solids (SM 2540C)	10300		100	100	mg/L			09/12/23 10:56	1

Client Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56722-1

Client Sample ID: EP-32

Lab Sample ID: 860-56722-2

Date Collected: 09/06/23 08:15

Matrix: Water

Date Received: 09/07/23 10:06

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	5.75		0.787	0.948	1.00	0.542	pCi/L	09/12/23 09:44	09/29/23 11:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.3		30 - 110					09/12/23 09:44	09/29/23 11:56	1
Y Carrier	81.1		30 - 110					09/12/23 09:44	09/29/23 11:56	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	0.940		1.52		1.00	0.770	pCi/L	09/11/23 10:43	09/22/23 16:36	1

Client Sample ID: EP-33

Lab Sample ID: 860-56722-3

Date Collected: 09/06/23 09:10

Matrix: Water

Date Received: 09/07/23 10:06

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.100	U	0.500	0.100	mg/L			09/16/23 05:47	1

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1950		5.00	2.50	mg/L			09/16/23 05:55	10
Sulfate	2890		5.00	2.00	mg/L			09/16/23 05:55	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.000647	J	0.00100	0.000282	mg/L		09/20/23 07:04	11/02/23 18:36	1
Boron	61.7		16.0	12.0	mg/L		09/20/23 07:04	11/08/23 14:03	200
Barium	0.0131		0.0100	0.00314	mg/L		09/20/23 07:04	11/02/23 18:36	1
Beryllium	0.000274	U ^^	0.00100	0.000274	mg/L		09/20/23 07:04	11/02/23 18:36	1
Calcium	512		0.500	0.127	mg/L		09/20/23 07:04	11/02/23 18:36	1
Cadmium	0.000217	U	0.00100	0.000217	mg/L		09/20/23 07:04	11/02/23 18:36	1
Chromium	0.00195	J	0.00200	0.00153	mg/L		09/20/23 07:04	11/02/23 18:36	1
Cobalt	0.000273	J	0.000500	0.000261	mg/L		09/20/23 07:04	11/02/23 18:36	1
Magnesium	39.2		0.500	0.0498	mg/L		09/20/23 07:04	11/02/23 18:36	1
Molybdenum	0.0186		0.00500	0.000610	mg/L		09/20/23 07:04	11/02/23 18:36	1
Sodium	2390		10.0	3.68	mg/L		09/20/23 07:04	11/07/23 15:14	20
Lead	0.000376	U	0.00100	0.000376	mg/L		09/20/23 07:04	11/02/23 18:36	1
Antimony	0.0193	U ^5- ^3+	0.0400	0.0193	mg/L		09/20/23 07:04	11/07/23 15:14	20
Thallium	0.000472	U	0.00100	0.000472	mg/L		09/20/23 07:04	11/02/23 18:36	1
Selenium	0.00157	J	0.00500	0.000739	mg/L		09/20/23 07:04	11/02/23 18:36	1
Potassium	41.5		10.0	3.12	mg/L		09/20/23 07:04	11/07/23 15:14	20
Lithium	0.692		0.00500	0.00129	mg/L		09/20/23 07:04	11/02/23 18:36	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		09/13/23 09:05	09/14/23 09:23	1

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Client Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56722-1

Client Sample ID: EP-33

Lab Sample ID: 860-56722-3

Date Collected: 09/06/23 09:10

Matrix: Water

Date Received: 09/07/23 10:06

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	220		4.00	4.00	mg/L			09/13/23 23:16	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	220		4.00	4.00	mg/L			09/13/23 23:16	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			09/13/23 23:16	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			09/13/23 23:16	1
Total Dissolved Solids (SM 2540C)	9370		100	100	mg/L			09/12/23 10:56	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	1.89		0.558	0.585	1.00	0.684	pCi/L	09/12/23 09:44	09/29/23 11:56	1
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>					<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Ba Carrier	97.5		30 - 110					09/12/23 09:44	09/29/23 11:56	1
Y Carrier	81.9		30 - 110					09/12/23 09:44	09/29/23 11:56	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	0.280	U	0.990		1.00	0.480	pCi/L	09/11/23 10:50	09/22/23 11:12	1

Client Sample ID: EP-34

Lab Sample ID: 860-56722-4

Date Collected: 09/06/23 10:30

Matrix: Water

Date Received: 09/07/23 10:06

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3210		5.00	2.50	mg/L			09/16/23 06:29	10
Fluoride	1.00	U	5.00	1.00	mg/L			09/16/23 06:29	10
Sulfate	2810		5.00	2.00	mg/L			09/16/23 06:29	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.000497	J	0.00100	0.000282	mg/L		09/20/23 07:04	11/02/23 18:38	1
Boron	22.0		8.00	6.01	mg/L		09/20/23 07:04	11/08/23 14:09	100
Barium	0.0145		0.0100	0.00314	mg/L		09/20/23 07:04	11/02/23 18:38	1
Beryllium	0.00548	U	0.0200	0.00548	mg/L		09/20/23 07:04	11/07/23 15:20	20
Calcium	489		0.500	0.127	mg/L		09/20/23 07:04	11/02/23 18:38	1
Cadmium	0.000217	U	0.00100	0.000217	mg/L		09/20/23 07:04	11/02/23 18:38	1
Chromium	0.00153	U	0.00200	0.00153	mg/L		09/20/23 07:04	11/02/23 18:38	1
Cobalt	0.000261	U	0.000500	0.000261	mg/L		09/20/23 07:04	11/02/23 18:38	1
Magnesium	59.4		0.500	0.0498	mg/L		09/20/23 07:04	11/02/23 18:38	1
Molybdenum	0.00323	J	0.00500	0.000610	mg/L		09/20/23 07:04	11/02/23 18:38	1
Sodium	3480		10.0	3.68	mg/L		09/20/23 07:04	11/07/23 15:20	20
Lead	0.000376	U	0.00100	0.000376	mg/L		09/20/23 07:04	11/02/23 18:38	1
Antimony	0.0193	U ^5- ^3+	0.0400	0.0193	mg/L		09/20/23 07:04	11/07/23 15:20	20
Thallium	0.000472	U	0.00100	0.000472	mg/L		09/20/23 07:04	11/02/23 18:38	1
Selenium	0.000739	U	0.00500	0.000739	mg/L		09/20/23 07:04	11/02/23 18:38	1

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Client Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56722-1

Client Sample ID: EP-34

Lab Sample ID: 860-56722-4

Date Collected: 09/06/23 10:30

Matrix: Water

Date Received: 09/07/23 10:06

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	48.8		10.0	3.12	mg/L		09/20/23 07:04	11/07/23 15:20	20
Lithium	1.24		0.100	0.0258	mg/L		09/20/23 07:04	11/07/23 15:20	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		09/13/23 09:05	09/14/23 09:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	263		4.00	4.00	mg/L			09/14/23 02:10	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	263		4.00	4.00	mg/L			09/14/23 02:10	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			09/14/23 02:10	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			09/14/23 02:10	1
Total Dissolved Solids (SM 2540C)	11600		100	100	mg/L			09/12/23 11:46	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	6.01		0.793	0.967	1.00	0.559	pCi/L	09/12/23 09:44	09/29/23 11:56	1
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>					<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Ba Carrier	96.8		30 - 110					09/12/23 09:44	09/29/23 11:56	1
Y Carrier	81.5		30 - 110					09/12/23 09:44	09/29/23 11:56	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	2.53		1.61		1.00	0.560	pCi/L	09/11/23 10:50	09/22/23 11:12	1

Client Sample ID: EP-35

Lab Sample ID: 860-56722-5

Date Collected: 09/06/23 11:15

Matrix: Water

Date Received: 09/07/23 10:06

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2990		5.00	2.50	mg/L			09/16/23 06:37	10
Fluoride	1.00	U	5.00	1.00	mg/L			09/16/23 06:37	10
Sulfate	2850		5.00	2.00	mg/L			09/16/23 06:37	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.000599	J	0.00100	0.000282	mg/L		09/20/23 07:04	11/02/23 18:41	1
Boron	35.3		16.0	12.0	mg/L		09/20/23 07:04	11/08/23 14:06	200
Barium	0.0171		0.0100	0.00314	mg/L		09/20/23 07:04	11/02/23 18:41	1
Beryllium	0.000274	U ^^	0.00100	0.000274	mg/L		09/20/23 07:04	11/02/23 18:41	1
Calcium	419		0.500	0.127	mg/L		09/20/23 07:04	11/02/23 18:41	1
Cadmium	0.000217	U	0.00100	0.000217	mg/L		09/20/23 07:04	11/02/23 18:41	1
Chromium	0.00153	U	0.00200	0.00153	mg/L		09/20/23 07:04	11/02/23 18:41	1

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Client Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56722-1

Client Sample ID: EP-35

Lab Sample ID: 860-56722-5

Date Collected: 09/06/23 11:15

Matrix: Water

Date Received: 09/07/23 10:06

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	0.000261	U	0.000500	0.000261	mg/L		09/20/23 07:04	11/02/23 18:41	1
Magnesium	65.7		0.500	0.0498	mg/L		09/20/23 07:04	11/02/23 18:41	1
Molybdenum	0.00169	J	0.00500	0.000610	mg/L		09/20/23 07:04	11/02/23 18:41	1
Sodium	3160		10.0	3.68	mg/L		09/20/23 07:04	11/07/23 15:17	20
Lead	0.000376	U	0.00100	0.000376	mg/L		09/20/23 07:04	11/02/23 18:41	1
Antimony	0.0193	U ^5- ^3+	0.0400	0.0193	mg/L		09/20/23 07:04	11/07/23 15:17	20
Thallium	0.000472	U	0.00100	0.000472	mg/L		09/20/23 07:04	11/02/23 18:41	1
Selenium	0.000739	U	0.00500	0.000739	mg/L		09/20/23 07:04	11/02/23 18:41	1
Potassium	45.5		10.0	3.12	mg/L		09/20/23 07:04	11/07/23 15:17	20
Lithium	0.974		0.00500	0.00129	mg/L		09/20/23 07:04	11/02/23 18:41	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		09/13/23 09:05	09/14/23 09:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	195		4.00	4.00	mg/L			09/14/23 02:33	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	195		4.00	4.00	mg/L			09/14/23 02:33	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			09/14/23 02:33	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			09/14/23 02:33	1
Total Dissolved Solids (SM 2540C)	11300		100	100	mg/L			09/12/23 11:46	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	2.29		0.572	0.609	1.00	0.663	pCi/L	09/12/23 09:44	09/29/23 11:56	1
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>					<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Ba Carrier</i>	<i>100</i>		<i>30 - 110</i>					<i>09/12/23 09:44</i>	<i>09/29/23 11:56</i>	<i>1</i>
<i>Y Carrier</i>	<i>83.7</i>		<i>30 - 110</i>					<i>09/12/23 09:44</i>	<i>09/29/23 11:56</i>	<i>1</i>

Method: SM7500 Ra B - Radium-226

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra-226	0.760		1.04		1.00	0.590	pCi/L	09/11/23 10:50	09/22/23 11:12	1

Client Sample ID: EP-36

Lab Sample ID: 860-56722-6

Date Collected: 09/06/23 11:10

Matrix: Water

Date Received: 09/07/23 10:06

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			09/16/23 13:21	10
Fluoride	1.00	U	5.00	1.00	mg/L			09/16/23 13:21	10
Sulfate	2.00	U	5.00	2.00	mg/L			09/16/23 13:21	10

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Client Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56722-1

Client Sample ID: EP-36

Lab Sample ID: 860-56722-6

Date Collected: 09/06/23 11:10

Matrix: Water

Date Received: 09/07/23 10:06

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.000458	J	0.00100	0.000282	mg/L		09/20/23 07:04	11/02/23 18:50	1
Boron	31.5		16.0	12.0	mg/L		09/20/23 07:04	11/08/23 14:12	200
Barium	0.0226		0.0100	0.00314	mg/L		09/20/23 07:04	11/02/23 18:50	1
Beryllium	0.000274	U ^+	0.00100	0.000274	mg/L		09/20/23 07:04	11/02/23 18:50	1
Calcium	492		0.500	0.127	mg/L		09/20/23 07:04	11/02/23 18:50	1
Cadmium	0.000217	U	0.00100	0.000217	mg/L		09/20/23 07:04	11/02/23 18:50	1
Chromium	0.00155	J	0.00200	0.00153	mg/L		09/20/23 07:04	11/02/23 18:50	1
Cobalt	0.000261	U	0.000500	0.000261	mg/L		09/20/23 07:04	11/02/23 18:50	1
Magnesium	85.6		0.500	0.0498	mg/L		09/20/23 07:04	11/02/23 18:50	1
Molybdenum	0.000610	U	0.00500	0.000610	mg/L		09/20/23 07:04	11/02/23 18:50	1
Sodium	2580		10.0	3.68	mg/L		09/20/23 07:04	11/07/23 15:22	20
Lead	0.000376	U	0.00100	0.000376	mg/L		09/20/23 07:04	11/02/23 18:50	1
Antimony	0.0193	U ^5- ^3+	0.0400	0.0193	mg/L		09/20/23 07:04	11/07/23 15:22	20
Thallium	0.000472	U	0.00100	0.000472	mg/L		09/20/23 07:04	11/02/23 18:50	1
Selenium	0.000739	U	0.00500	0.000739	mg/L		09/20/23 07:04	11/02/23 18:50	1
Potassium	48.9		10.0	3.12	mg/L		09/20/23 07:04	11/07/23 15:22	20
Lithium	1.18		0.100	0.0258	mg/L		09/20/23 07:04	11/07/23 15:22	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		09/13/23 09:05	09/14/23 09:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	165		4.00	4.00	mg/L			09/14/23 02:42	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	165		4.00	4.00	mg/L			09/14/23 02:42	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			09/14/23 02:42	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			09/14/23 02:42	1
Total Dissolved Solids (SM 2540C)	9430		100	100	mg/L			09/12/23 11:47	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	3.06		0.596	0.660	1.00	0.562	pCi/L	09/12/23 09:44	09/29/23 11:56	1
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>					<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Ba Carrier	98.8		30 - 110					09/12/23 09:44	09/29/23 11:56	1
Y Carrier	82.2		30 - 110					09/12/23 09:44	09/29/23 11:56	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	0.540		1.42		1.00	0.440	pCi/L	09/11/23 10:50	09/22/23 11:12	1

Client Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56722-1

Client Sample ID: EP-37

Lab Sample ID: 860-56722-7

Date Collected: 09/06/23 10:30

Matrix: Water

Date Received: 09/07/23 10:06

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			09/16/23 13:30	10
Fluoride	1.00	U	5.00	1.00	mg/L			09/16/23 13:30	10
Sulfate	7.78		5.00	2.00	mg/L			09/16/23 13:30	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.000417	J	0.00100	0.000282	mg/L		09/20/23 07:04	11/02/23 18:52	1
Boron	8.86		8.00	6.01	mg/L		09/20/23 07:04	11/08/23 14:15	100
Barium	0.0167		0.0100	0.00314	mg/L		09/20/23 07:04	11/02/23 18:52	1
Beryllium	0.000274	U ^^	0.00100	0.000274	mg/L		09/20/23 07:04	11/02/23 18:52	1
Calcium	419		0.500	0.127	mg/L		09/20/23 07:04	11/02/23 18:52	1
Cadmium	0.000217	U	0.00100	0.000217	mg/L		09/20/23 07:04	11/02/23 18:52	1
Chromium	0.00153	U	0.00200	0.00153	mg/L		09/20/23 07:04	11/02/23 18:52	1
Cobalt	0.000261	U	0.000500	0.000261	mg/L		09/20/23 07:04	11/02/23 18:52	1
Magnesium	67.2		0.500	0.0498	mg/L		09/20/23 07:04	11/02/23 18:52	1
Molybdenum	0.000610	U	0.00500	0.000610	mg/L		09/20/23 07:04	11/02/23 18:52	1
Sodium	2670		10.0	3.68	mg/L		09/20/23 07:04	11/07/23 15:25	20
Lead	0.000376	U	0.00100	0.000376	mg/L		09/20/23 07:04	11/02/23 18:52	1
Antimony	0.0193	U ^5- ^3+	0.0400	0.0193	mg/L		09/20/23 07:04	11/07/23 15:25	20
Thallium	0.000472	U	0.00100	0.000472	mg/L		09/20/23 07:04	11/02/23 18:52	1
Selenium	0.000739	U	0.00500	0.000739	mg/L		09/20/23 07:04	11/02/23 18:52	1
Potassium	50.0		10.0	3.12	mg/L		09/20/23 07:04	11/07/23 15:25	20
Lithium	1.32		0.100	0.0258	mg/L		09/20/23 07:04	11/07/23 15:25	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		09/13/23 09:05	09/14/23 09:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	191		4.00	4.00	mg/L			09/14/23 02:50	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	191		4.00	4.00	mg/L			09/14/23 02:50	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			09/14/23 02:50	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			09/14/23 02:50	1
Total Dissolved Solids (SM 2540C)	9440		100	100	mg/L			09/12/23 11:47	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	3.15		0.619	0.683	1.00	0.554	pCi/L	09/12/23 09:44	09/29/23 11:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.1		30 - 110					09/12/23 09:44	09/29/23 11:56	1
Y Carrier	83.4		30 - 110					09/12/23 09:44	09/29/23 11:56	1

Client Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56722-1

Client Sample ID: EP-37

Lab Sample ID: 860-56722-7

Date Collected: 09/06/23 10:30

Matrix: Water

Date Received: 09/07/23 10:06

Method: SM7500 Ra B - Radium-226

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra-226	0.440	U	1.08		1.00	0.570	pCi/L	09/11/23 10:50	09/22/23 16:22	1

Client Sample ID: EP-38

Lab Sample ID: 860-56722-8

Date Collected: 09/06/23 08:50

Matrix: Water

Date Received: 09/07/23 10:06

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.100	U	0.500	0.100	mg/L			09/16/23 09:51	1

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1050		5.00	2.50	mg/L			09/16/23 09:59	10
Sulfate	1990		5.00	2.00	mg/L			09/16/23 09:59	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.000582	J	0.00100	0.000282	mg/L		09/20/23 07:04	11/02/23 18:55	1
Boron	2.44		1.60	1.20	mg/L		09/20/23 07:04	11/08/23 14:18	20
Barium	0.0142		0.0100	0.00314	mg/L		09/20/23 07:04	11/02/23 18:55	1
Beryllium	0.000274	U ^+	0.00100	0.000274	mg/L		09/20/23 07:04	11/02/23 18:55	1
Calcium	469		0.500	0.127	mg/L		09/20/23 07:04	11/02/23 18:55	1
Cadmium	0.000217	U	0.00100	0.000217	mg/L		09/20/23 07:04	11/02/23 18:55	1
Chromium	0.00153	U	0.00200	0.00153	mg/L		09/20/23 07:04	11/02/23 18:55	1
Cobalt	0.00142		0.000500	0.000261	mg/L		09/20/23 07:04	11/02/23 18:55	1
Magnesium	65.1		0.500	0.0498	mg/L		09/20/23 07:04	11/02/23 18:55	1
Molybdenum	0.000610	U	0.00500	0.000610	mg/L		09/20/23 07:04	11/02/23 18:55	1
Sodium	1270		10.0	3.68	mg/L		09/20/23 07:04	11/07/23 15:28	20
Lead	0.000376	U	0.00100	0.000376	mg/L		09/20/23 07:04	11/02/23 18:55	1
Antimony	0.0193	U ^5- ^3+	0.0400	0.0193	mg/L		09/20/23 07:04	11/07/23 15:28	20
Thallium	0.000472	U	0.00100	0.000472	mg/L		09/20/23 07:04	11/02/23 18:55	1
Selenium	0.000739	U	0.00500	0.000739	mg/L		09/20/23 07:04	11/02/23 18:55	1
Potassium	39.5		10.0	3.12	mg/L		09/20/23 07:04	11/07/23 15:28	20
Lithium	0.774		0.00500	0.00129	mg/L		09/20/23 07:04	11/02/23 18:55	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		09/13/23 09:05	09/14/23 09:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	60.0		4.00	4.00	mg/L			09/14/23 02:56	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	60.0		4.00	4.00	mg/L			09/14/23 02:56	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			09/14/23 02:56	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			09/14/23 02:56	1
Total Dissolved Solids (SM 2540C)	5570		40.0	40.0	mg/L			09/12/23 11:47	1

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Client Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56722-1

Client Sample ID: EP-38

Lab Sample ID: 860-56722-8

Date Collected: 09/06/23 08:50

Matrix: Water

Date Received: 09/07/23 10:06

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	1.06		0.406	0.417	1.00	0.503	pCi/L	09/12/23 09:44	09/29/23 11:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.5		30 - 110					09/12/23 09:44	09/29/23 11:56	1
Y Carrier	82.2		30 - 110					09/12/23 09:44	09/29/23 11:56	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	0.910		0.800		1.00	0.460	pCi/L	09/11/23 10:50	09/22/23 16:22	1

Client Sample ID: MW-4

Lab Sample ID: 860-56722-9

Date Collected: 09/06/23 09:40

Matrix: Water

Date Received: 09/07/23 10:06

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.100	U	0.500	0.100	mg/L			09/16/23 10:08	1

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1400		5.00	2.50	mg/L			09/16/23 10:16	10
Sulfate	2040		5.00	2.00	mg/L			09/16/23 10:16	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.000616	J	0.00100	0.000282	mg/L		09/20/23 07:04	11/02/23 18:58	1
Boron	11.6		3.20	2.40	mg/L		09/20/23 07:04	11/08/23 14:36	40
Barium	0.0123		0.0100	0.00314	mg/L		09/20/23 07:04	11/02/23 18:58	1
Beryllium	0.000274	U ^^	0.00100	0.000274	mg/L		09/20/23 07:04	11/02/23 18:58	1
Calcium	321		0.500	0.127	mg/L		09/20/23 07:04	11/02/23 18:58	1
Cadmium	0.000217	U	0.00100	0.000217	mg/L		09/20/23 07:04	11/02/23 18:58	1
Chromium	0.00153	U	0.00200	0.00153	mg/L		09/20/23 07:04	11/02/23 18:58	1
Cobalt	0.000834		0.000500	0.000261	mg/L		09/20/23 07:04	11/02/23 18:58	1
Magnesium	57.1		0.500	0.0498	mg/L		09/20/23 07:04	11/02/23 18:58	1
Molybdenum	0.00226	J	0.00500	0.000610	mg/L		09/20/23 07:04	11/02/23 18:58	1
Sodium	1700		10.0	3.68	mg/L		09/20/23 07:04	11/07/23 15:31	20
Lead	0.000376	U	0.00100	0.000376	mg/L		09/20/23 07:04	11/02/23 18:58	1
Antimony	0.0193	U ^5- ^3+	0.0400	0.0193	mg/L		09/20/23 07:04	11/07/23 15:31	20
Thallium	0.000472	U	0.00100	0.000472	mg/L		09/20/23 07:04	11/02/23 18:58	1
Selenium	0.000739	U	0.00500	0.000739	mg/L		09/20/23 07:04	11/02/23 18:58	1
Potassium	40.8		10.0	3.12	mg/L		09/20/23 07:04	11/07/23 15:31	20
Lithium	0.695		0.00500	0.00129	mg/L		09/20/23 07:04	11/02/23 18:58	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		09/13/23 09:05	09/14/23 09:33	1

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Client Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56722-1

Client Sample ID: MW-4
 Date Collected: 09/06/23 09:40
 Date Received: 09/07/23 10:06

Lab Sample ID: 860-56722-9
 Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	145		4.00	4.00	mg/L			09/14/23 16:27	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	145		4.00	4.00	mg/L			09/14/23 16:27	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			09/14/23 16:27	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			09/14/23 16:27	1
Total Dissolved Solids (SM 2540C)	6330		40.0	40.0	mg/L			09/12/23 11:47	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	2.45		0.524	0.570	1.00	0.489	pCi/L	09/12/23 09:44	09/29/23 11:56	1
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>					<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Ba Carrier	98.5		30 - 110					09/12/23 09:44	09/29/23 11:56	1
Y Carrier	87.9		30 - 110					09/12/23 09:44	09/29/23 11:56	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	1.14		1.00	0.530	pCi/L	09/11/23 10:50	09/22/23 16:22	1

Client Sample ID: EB-02

Lab Sample ID: 860-56722-10

Date Collected: 09/06/23 10:00
 Date Received: 09/07/23 10:06

Matrix: Water

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.841		0.500	0.250	mg/L			09/16/23 08:01	1
Fluoride	0.100	U	0.500	0.100	mg/L			09/16/23 08:01	1
Sulfate	0.258	J	0.500	0.200	mg/L			09/16/23 08:01	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		09/20/23 07:04	11/02/23 19:01	1
Boron	1.20	U	1.60	1.20	mg/L		09/20/23 07:04	11/08/23 14:39	20
Barium	0.00314	U	0.0100	0.00314	mg/L		09/20/23 07:04	11/02/23 19:01	1
Beryllium	0.000274	U ^+	0.00100	0.000274	mg/L		09/20/23 07:04	11/02/23 19:01	1
Calcium	0.163	J	0.500	0.127	mg/L		09/20/23 07:04	11/02/23 19:01	1
Cadmium	0.000217	U	0.00100	0.000217	mg/L		09/20/23 07:04	11/02/23 19:01	1
Chromium	0.00153	U	0.00200	0.00153	mg/L		09/20/23 07:04	11/02/23 19:01	1
Cobalt	0.000261	U	0.000500	0.000261	mg/L		09/20/23 07:04	11/02/23 19:01	1
Magnesium	0.0498	U	0.500	0.0498	mg/L		09/20/23 07:04	11/02/23 19:01	1
Molybdenum	0.000610	U	0.00500	0.000610	mg/L		09/20/23 07:04	11/02/23 19:01	1
Sodium	3.68	U	10.0	3.68	mg/L		09/20/23 07:04	11/07/23 15:34	20
Lead	0.000376	U	0.00100	0.000376	mg/L		09/20/23 07:04	11/02/23 19:01	1
Antimony	0.0193	U ^5- ^3+	0.0400	0.0193	mg/L		09/20/23 07:04	11/07/23 15:34	20
Thallium	0.000472	U	0.00100	0.000472	mg/L		09/20/23 07:04	11/02/23 19:01	1
Selenium	0.000739	U	0.00500	0.000739	mg/L		09/20/23 07:04	11/02/23 19:01	1

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Client Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56722-1

Client Sample ID: EB-02

Lab Sample ID: 860-56722-10

Date Collected: 09/06/23 10:00

Matrix: Water

Date Received: 09/07/23 10:06

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	3.12	U	10.0	3.12	mg/L		09/20/23 07:04	11/07/23 15:34	20
Lithium	0.00170	J	0.00500	0.00129	mg/L		09/20/23 07:04	11/02/23 19:01	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		09/13/23 09:05	09/14/23 09:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	11.1		4.00	4.00	mg/L			09/14/23 03:04	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	11.1		4.00	4.00	mg/L			09/14/23 03:04	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			09/14/23 03:04	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			09/14/23 03:04	1
Total Dissolved Solids (SM 2540C)	12.0		5.00	5.00	mg/L			09/12/23 11:47	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	0.218	U	0.375	0.376	1.00	0.642	pCi/L	09/12/23 09:44	09/29/23 11:57	1
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>					<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Ba Carrier	93.3		30 - 110					09/12/23 09:44	09/29/23 11:57	1
Y Carrier	76.3		30 - 110					09/12/23 09:44	09/29/23 11:57	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	0.230		1.00	0.460	pCi/L	09/11/23 10:50	09/18/23 15:31	1

Client Sample ID: DUP-03

Lab Sample ID: 860-56722-11

Date Collected: 09/06/23 10:00

Matrix: Water

Date Received: 09/07/23 10:06

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.475	J	0.500	0.100	mg/L			09/16/23 10:25	1

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1870		5.00	2.50	mg/L			09/16/23 10:33	10
Sulfate	2860		5.00	2.00	mg/L			09/16/23 10:33	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.000661	J	0.00100	0.000282	mg/L		09/20/23 07:04	11/02/23 19:04	1
Boron	55.2		16.0	12.0	mg/L		09/20/23 07:04	11/08/23 14:42	200
Barium	0.0125		0.0100	0.00314	mg/L		09/20/23 07:04	11/02/23 19:04	1
Beryllium	0.000274	U ^^	0.00100	0.000274	mg/L		09/20/23 07:04	11/02/23 19:04	1

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Client Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56722-1

Client Sample ID: DUP-03

Lab Sample ID: 860-56722-11

Date Collected: 09/06/23 10:00

Matrix: Water

Date Received: 09/07/23 10:06

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	500		0.500	0.127	mg/L		09/20/23 07:04	11/02/23 19:04	1
Cadmium	0.000217	U	0.00100	0.000217	mg/L		09/20/23 07:04	11/02/23 19:04	1
Chromium	0.00153	U	0.00200	0.00153	mg/L		09/20/23 07:04	11/02/23 19:04	1
Cobalt	0.000261	U	0.000500	0.000261	mg/L		09/20/23 07:04	11/02/23 19:04	1
Magnesium	39.4		0.500	0.0498	mg/L		09/20/23 07:04	11/02/23 19:04	1
Molybdenum	0.0131		0.00500	0.000610	mg/L		09/20/23 07:04	11/02/23 19:04	1
Sodium	2370		10.0	3.68	mg/L		09/20/23 07:04	11/07/23 15:45	20
Lead	0.000376	U	0.00100	0.000376	mg/L		09/20/23 07:04	11/02/23 19:04	1
Antimony	0.0193	U ^5- ^3+	0.0400	0.0193	mg/L		09/20/23 07:04	11/07/23 15:45	20
Thallium	0.000472	U	0.00100	0.000472	mg/L		09/20/23 07:04	11/02/23 19:04	1
Selenium	0.00145	J	0.00500	0.000739	mg/L		09/20/23 07:04	11/02/23 19:04	1
Potassium	39.6		10.0	3.12	mg/L		09/20/23 07:04	11/07/23 15:45	20
Lithium	0.729		0.00500	0.00129	mg/L		09/20/23 07:04	11/02/23 19:04	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		09/13/23 09:05	09/14/23 09:35	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			09/13/23 23:30	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	212		4.00	4.00	mg/L			09/13/23 23:30	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			09/13/23 23:30	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			09/13/23 23:30	1
Total Dissolved Solids (SM 2540C)	9480		100	100	mg/L			09/12/23 10:37	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	1.14		0.419	0.431	1.00	0.504	pCi/L	09/12/23 09:44	09/29/23 11:57	1
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>					<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Ba Carrier</i>	95.3		30 - 110					09/12/23 09:44	09/29/23 11:57	1
<i>Y Carrier</i>	83.4		30 - 110					09/12/23 09:44	09/29/23 11:57	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	0.930		0.930		1.00	0.590	pCi/L	09/11/23 10:50	09/22/23 16:22	1

Client Sample ID: FB-03

Lab Sample ID: 860-56722-12

Date Collected: 09/06/23 11:50

Matrix: Water

Date Received: 09/07/23 10:06

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.77		0.500	0.250	mg/L			09/16/23 01:09	1
Fluoride	0.100	U	0.500	0.100	mg/L			09/16/23 01:09	1

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Client Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56722-1

Client Sample ID: FB-03

Lab Sample ID: 860-56722-12

Date Collected: 09/06/23 11:50

Matrix: Water

Date Received: 09/07/23 10:06

Method: EPA 300.0 - Anions, Ion Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	0.368	J	0.500	0.200	mg/L			09/16/23 01:09	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		09/20/23 07:04	11/02/23 19:06	1
Boron	1.20	U	1.60	1.20	mg/L		09/20/23 07:04	11/08/23 14:45	20
Barium	0.00314	U	0.0100	0.00314	mg/L		09/20/23 07:04	11/02/23 19:06	1
Beryllium	0.000274	U ^+	0.00100	0.000274	mg/L		09/20/23 07:04	11/02/23 19:06	1
Calcium	0.425	J	0.500	0.127	mg/L		09/20/23 07:04	11/02/23 19:06	1
Cadmium	0.000217	U	0.00100	0.000217	mg/L		09/20/23 07:04	11/02/23 19:06	1
Chromium	0.00153	U	0.00200	0.00153	mg/L		09/20/23 07:04	11/02/23 19:06	1
Cobalt	0.000261	U	0.000500	0.000261	mg/L		09/20/23 07:04	11/02/23 19:06	1
Magnesium	0.0498	U	0.500	0.0498	mg/L		09/20/23 07:04	11/02/23 19:06	1
Molybdenum	0.000610	U	0.00500	0.000610	mg/L		09/20/23 07:04	11/02/23 19:06	1
Sodium	4.37	J	10.0	3.68	mg/L		09/20/23 07:04	11/07/23 15:48	20
Lead	0.000376	U	0.00100	0.000376	mg/L		09/20/23 07:04	11/02/23 19:06	1
Antimony	0.0193	U ^5- ^3+	0.0400	0.0193	mg/L		09/20/23 07:04	11/07/23 15:48	20
Thallium	0.000472	U	0.00100	0.000472	mg/L		09/20/23 07:04	11/02/23 19:06	1
Selenium	0.000739	U	0.00500	0.000739	mg/L		09/20/23 07:04	11/02/23 19:06	1
Potassium	3.12	U	10.0	3.12	mg/L		09/20/23 07:04	11/07/23 15:48	20
Lithium	0.00239	J	0.00500	0.00129	mg/L		09/20/23 07:04	11/02/23 19:06	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		09/13/23 09:05	09/14/23 09:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	20.3		4.00	4.00	mg/L			09/14/23 00:17	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	20.3		4.00	4.00	mg/L			09/14/23 00:17	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			09/14/23 00:17	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			09/14/23 00:17	1
Total Dissolved Solids (SM 2540C)	15.5		5.00	5.00	mg/L			09/12/23 10:37	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.613		0.363	0.367	1.00	0.521	pCi/L	09/12/23 09:44	09/29/23 11:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.3		30 - 110					09/12/23 09:44	09/29/23 11:57	1
Y Carrier	83.4		30 - 110					09/12/23 09:44	09/29/23 11:57	1

Method: SM7500 Ra B - Radium-226

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Ra-226	0.0600	U	0.460		1.00	0.650	pCi/L	09/11/23 10:56	09/18/23 10:11	1

Tracer/Carrier Summary

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56722-1

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Yield (Acceptance Limits)	
		Ba (30-110)	Y (30-110)
860-56722-1	EP-31	112 X	80.7
860-56722-1 MS	EP-31	100	82.2
860-56722-1 MSD	EP-31	102	81.9
860-56722-2	EP-32	96.3	81.1
860-56722-3	EP-33	97.5	81.9
860-56722-4	EP-34	96.8	81.5
860-56722-5	EP-35	100	83.7
860-56722-6	EP-36	98.8	82.2
860-56722-7	EP-37	89.1	83.4
860-56722-8	EP-38	94.5	82.2
860-56722-9	MW-4	98.5	87.9
860-56722-10	EB-02	93.3	76.3
860-56722-11	DUP-03	95.3	83.4
860-56722-12	FB-03	96.3	83.4
LCS 160-627646/2-A	Lab Control Sample	96.8	83.4
MB 160-627646/1-A	Method Blank	100	80.7

Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier

QC Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56722-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-121877/120
Matrix: Water
Analysis Batch: 121877

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	0.250	U	0.500	0.250	mg/L			09/16/23 07:36	1
Fluoride	0.100	U	0.500	0.100	mg/L			09/16/23 07:36	1
Sulfate	0.200	U	0.500	0.200	mg/L			09/16/23 07:36	1

Lab Sample ID: MB 860-121877/13
Matrix: Water
Analysis Batch: 121877

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	0.250	U	0.500	0.250	mg/L			09/15/23 16:51	1
Fluoride	0.100	U	0.500	0.100	mg/L			09/15/23 16:51	1
Sulfate	0.200	U	0.500	0.200	mg/L			09/15/23 16:51	1

Lab Sample ID: MB 860-121877/74
Matrix: Water
Analysis Batch: 121877

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	0.250	U	0.500	0.250	mg/L			09/16/23 01:34	1
Fluoride	0.100	U	0.500	0.100	mg/L			09/16/23 01:34	1
Sulfate	0.200	U	0.500	0.200	mg/L			09/16/23 01:34	1

Lab Sample ID: LCS 860-121877/121
Matrix: Water
Analysis Batch: 121877

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	10.0	10.03		mg/L		100	90 - 110
Sulfate	10.0	9.885		mg/L		99	90 - 110

Lab Sample ID: LCS 860-121877/14
Matrix: Water
Analysis Batch: 121877

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	10.0	10.37		mg/L		104	90 - 110
Sulfate	10.0	10.16		mg/L		102	90 - 110

Lab Sample ID: LCS 860-121877/75
Matrix: Water
Analysis Batch: 121877

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	10.0	10.11		mg/L		101	90 - 110
Sulfate	10.0	9.851		mg/L		99	90 - 110

QC Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56722-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-121877/122
Matrix: Water
Analysis Batch: 121877

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

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	RPD
		Result	Qualifier				Limits		Limit
Chloride	10.0	9.759		mg/L		98	90 - 110	0	20
Fluoride	10.0	10.08		mg/L		101	90 - 110	0	20
Sulfate	10.0	9.878		mg/L		99	90 - 110	0	20

Lab Sample ID: LCSD 860-121877/15
Matrix: Water
Analysis Batch: 121877

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

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	RPD
		Result	Qualifier				Limits		Limit
Chloride	10.0	10.03		mg/L		100	90 - 110	0	20
Fluoride	10.0	10.42		mg/L		104	90 - 110	0	20
Sulfate	10.0	10.16		mg/L		102	90 - 110	0	20

Lab Sample ID: LCSD 860-121877/76
Matrix: Water
Analysis Batch: 121877

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

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	RPD
		Result	Qualifier				Limits		Limit
Chloride	10.0	9.718		mg/L		97	90 - 110	0	20
Fluoride	10.0	10.13		mg/L		101	90 - 110	0	20
Sulfate	10.0	9.850		mg/L		99	90 - 110	0	20

Lab Sample ID: LLCS 860-121877/17
Matrix: Water
Analysis Batch: 121877

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

Analyte	Spike Added	LLCS	LLCS	Unit	D	%Rec	%Rec	RPD	RPD
		Result	Qualifier				Limits		Limit
Chloride	0.500	0.5521		mg/L		110	50 - 150		
Fluoride	0.500	0.5160		mg/L		103	50 - 150		
Sulfate	0.500	0.5118		mg/L		102	50 - 150		

Lab Sample ID: 860-56722-1 MS
Matrix: Water
Analysis Batch: 121877

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS	MS	Unit	D	%Rec	%Rec	RPD	RPD
				Result	Qualifier				Limits		Limit
Chloride	142		10.0	150.3	4	mg/L		82	90 - 110		
Fluoride	1.18		10.0	11.78		mg/L		106	90 - 110		

Lab Sample ID: 860-56722-1 MSD
Matrix: Water
Analysis Batch: 121877

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
				Result	Qualifier				Limits		Limit
Chloride	142		10.0	151.0	4	mg/L		89	90 - 110	0	15
Fluoride	1.18		10.0	11.86		mg/L		107	90 - 110	1	15

QC Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56722-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 860-56722-10 MS
Matrix: Water
Analysis Batch: 121877

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

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier					
Chloride	0.841		10.0	10.77		mg/L		99		90 - 110
Fluoride	0.100	U	10.0	10.02		mg/L		100		90 - 110
Sulfate	0.258	J	10.0	10.44		mg/L		102		90 - 110

Lab Sample ID: 860-56722-10 MSD
Matrix: Water
Analysis Batch: 121877

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

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier							
Chloride	0.841		10.0	10.25		mg/L		94		90 - 110	5	15
Fluoride	0.100	U	10.0	9.944		mg/L		99		90 - 110	1	15
Sulfate	0.258	J	10.0	9.849		mg/L		96		90 - 110	6	15

Lab Sample ID: MB 860-122258/3
Matrix: Water
Analysis Batch: 122258

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	0.250	U	0.500	0.250	mg/L			09/19/23 10:38	1
Fluoride	0.100	U	0.500	0.100	mg/L			09/19/23 10:38	1
Sulfate	0.200	U	0.500	0.200	mg/L			09/19/23 10:38	1

Lab Sample ID: MB 860-122258/51
Matrix: Water
Analysis Batch: 122258

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	0.250	U	0.500	0.250	mg/L			09/19/23 18:53	1
Fluoride	0.100	U	0.500	0.100	mg/L			09/19/23 18:53	1
Sulfate	0.200	U	0.500	0.200	mg/L			09/19/23 18:53	1

Lab Sample ID: LCS 860-122258/4
Matrix: Water
Analysis Batch: 122258

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

Analyte	Spike	Added	LCS	LCS	Unit	D	%Rec	%Rec	Limits
			Result	Qualifier					
Chloride	10.0		9.623		mg/L		96		90 - 110
Fluoride	10.0		10.20		mg/L		102		90 - 110
Sulfate	10.0		9.628		mg/L		96		90 - 110

Lab Sample ID: LCS 860-122258/52
Matrix: Water
Analysis Batch: 122258

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

Analyte	Spike	Added	LCS	LCS	Unit	D	%Rec	%Rec	Limits
			Result	Qualifier					
Chloride	10.0		9.812		mg/L		98		90 - 110
Fluoride	10.0		10.43		mg/L		104		90 - 110
Sulfate	10.0		9.869		mg/L		99		90 - 110

QC Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56722-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-122258/5
Matrix: Water
Analysis Batch: 122258

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	9.635		mg/L		96	90 - 110	0	20
Fluoride	10.0	10.21		mg/L		102	90 - 110	0	20
Sulfate	10.0	9.640		mg/L		96	90 - 110	0	20

Lab Sample ID: LCSD 860-122258/53
Matrix: Water
Analysis Batch: 122258

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	9.829		mg/L		98	90 - 110	0	20
Fluoride	10.0	10.41		mg/L		104	90 - 110	0	20
Sulfate	10.0	9.886		mg/L		99	90 - 110	0	20

Lab Sample ID: LLCS 860-122258/7
Matrix: Water
Analysis Batch: 122258

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	0.500	0.5510		mg/L		110	50 - 150		
Fluoride	0.500	0.5659		mg/L		113	50 - 150		
Sulfate	0.500	0.5141		mg/L		103	50 - 150		

Lab Sample ID: 860-56722-1 MS
Matrix: Water
Analysis Batch: 122258

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	RPD	RPD Limit
Sulfate	2720		100	3149	4	mg/L		426	90 - 110		

Lab Sample ID: 860-56722-1 MSD
Matrix: Water
Analysis Batch: 122258

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	2720		100	3146	4	mg/L		423	90 - 110	0	15

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

Lab Sample ID: MB 180-446960/1-A
Matrix: Water
Analysis Batch: 450921

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 446960

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.000282	U	0.00100	0.000282	mg/L		09/20/23 07:04	11/02/23 18:19	1
Barium	0.00314	U	0.0100	0.00314	mg/L		09/20/23 07:04	11/02/23 18:19	1
Beryllium	0.000274	U ^+	0.00100	0.000274	mg/L		09/20/23 07:04	11/02/23 18:19	1
Calcium	0.127	U	0.500	0.127	mg/L		09/20/23 07:04	11/02/23 18:19	1
Cadmium	0.000217	U	0.00100	0.000217	mg/L		09/20/23 07:04	11/02/23 18:19	1
Chromium	0.00153	U	0.00200	0.00153	mg/L		09/20/23 07:04	11/02/23 18:19	1
Cobalt	0.000261	U	0.000500	0.000261	mg/L		09/20/23 07:04	11/02/23 18:19	1

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QC Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56722-1

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

Lab Sample ID: MB 180-446960/1-A
Matrix: Water
Analysis Batch: 450921

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 446960

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Magnesium	0.0498	U	0.500	0.0498	mg/L		09/20/23 07:04	11/02/23 18:19	1
Molybdenum	0.000610	U	0.00500	0.000610	mg/L		09/20/23 07:04	11/02/23 18:19	1
Sodium	0.184	U ^3+	0.500	0.184	mg/L		09/20/23 07:04	11/02/23 18:19	1
Lead	0.000376	U	0.00100	0.000376	mg/L		09/20/23 07:04	11/02/23 18:19	1
Thallium	0.000472	U	0.00100	0.000472	mg/L		09/20/23 07:04	11/02/23 18:19	1
Selenium	0.000739	U	0.00500	0.000739	mg/L		09/20/23 07:04	11/02/23 18:19	1
Lithium	0.00129	U	0.00500	0.00129	mg/L		09/20/23 07:04	11/02/23 18:19	1

Lab Sample ID: MB 180-446960/1-A
Matrix: Water
Analysis Batch: 451393

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 446960

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Boron	0.0601	U	0.0800	0.0601	mg/L		09/20/23 07:04	11/08/23 13:45	1

Lab Sample ID: MB 180-446960/1-A ^20
Matrix: Water
Analysis Batch: 451271

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 446960

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Beryllium	0.00548	U	0.0200	0.00548	mg/L		09/20/23 07:04	11/07/23 13:13	20
Sodium	3.68	U	10.0	3.68	mg/L		09/20/23 07:04	11/07/23 13:13	20
Antimony	0.0193	U ^5-	0.0400	0.0193	mg/L		09/20/23 07:04	11/07/23 13:13	20
Potassium	3.12	U	10.0	3.12	mg/L		09/20/23 07:04	11/07/23 13:13	20
Lithium	0.0258	U	0.100	0.0258	mg/L		09/20/23 07:04	11/07/23 13:13	20

Lab Sample ID: LCS 180-446960/2-A
Matrix: Water
Analysis Batch: 450921

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 446960

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	1.00	1.015		mg/L		101	80 - 120
Calcium	25.0	28.60		mg/L		114	80 - 120
Cadmium	0.500	0.5065		mg/L		101	80 - 120
Chromium	0.500	0.5005		mg/L		100	80 - 120
Cobalt	0.500	0.5157		mg/L		103	80 - 120
Magnesium	25.0	25.80		mg/L		103	80 - 120
Molybdenum	0.500	0.5190		mg/L		104	80 - 120
Lead	0.500	0.5129		mg/L		103	80 - 120
Thallium	1.00	1.025		mg/L		103	80 - 120
Selenium	1.00	1.009		mg/L		101	80 - 120
Lithium	0.500	0.4989		mg/L		100	80 - 120

Lab Sample ID: LCS 180-446960/2-A ^20
Matrix: Water
Analysis Batch: 451271

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 446960

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits

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QC Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56722-1

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

Lab Sample ID: LCS 180-446960/2-A ^20
Matrix: Water
Analysis Batch: 451271

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 446960

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
Sodium	25.0	25.27		mg/L		101	80 - 120	
Antimony	0.250	0.2779	^5-	mg/L		111	80 - 120	
Potassium	25.0	26.21		mg/L		105	80 - 120	
Lithium	0.500	0.5343		mg/L		107	80 - 120	

Lab Sample ID: LCS 180-446960/2-A ^20
Matrix: Water
Analysis Batch: 451393

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 446960

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
Boron	1.25	1.20	U	mg/L		96	80 - 120	

Lab Sample ID: 860-56722-1 MS
Matrix: Water
Analysis Batch: 450921

Client Sample ID: EP-31
Prep Type: Total Recoverable
Prep Batch: 446960

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec	
									Limits	
Arsenic	0.0171		1.00	1.034		mg/L		102	75 - 125	
Barium	0.00585	J	1.00	0.9629		mg/L		96	75 - 125	
Calcium	456		25.0	496.5	4	mg/L		162	75 - 125	
Cadmium	0.0119		0.500	0.4788		mg/L		93	75 - 125	
Chromium	0.00153	U	0.500	0.4573		mg/L		91	75 - 125	
Cobalt	0.0969		0.500	0.6015		mg/L		101	75 - 125	
Magnesium	39.4		25.0	65.79		mg/L		106	75 - 125	
Molybdenum	0.000610	U	0.500	0.5131		mg/L		103	75 - 125	
Lead	0.00108		0.500	0.4873		mg/L		97	75 - 125	
Thallium	0.00262		1.00	0.9779		mg/L		98	75 - 125	
Selenium	0.00327	J	1.00	0.8618		mg/L		86	75 - 125	

Lab Sample ID: 860-56722-1 MS
Matrix: Water
Analysis Batch: 451271

Client Sample ID: EP-31
Prep Type: Total Recoverable
Prep Batch: 446960

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec	
									Limits	
Beryllium	0.0635		0.500	0.5948		mg/L		106	75 - 125	
Sodium	900		25.0	938.5	4	mg/L		152	75 - 125	
Antimony	0.0193	U ^5- ^3+	0.250	0.2447	^5- ^3+	mg/L		98	75 - 125	
Potassium	40.9		25.0	67.37		mg/L		106	75 - 125	
Lithium	0.633		0.500	1.194		mg/L		112	75 - 125	

Lab Sample ID: 860-56722-1 MS
Matrix: Water
Analysis Batch: 451393

Client Sample ID: EP-31
Prep Type: Total Recoverable
Prep Batch: 446960

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec	
									Limits	
Boron	5.00		1.25	6.380		mg/L		110	75 - 125	

QC Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56722-1

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

Lab Sample ID: 860-56722-1 MSD
 Matrix: Water
 Analysis Batch: 450921

Client Sample ID: EP-31
 Prep Type: Total Recoverable
 Prep Batch: 446960

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limit
Arsenic	0.0171		1.00	1.059		mg/L		104	75 - 125	2	20
Barium	0.00585	J	1.00	0.9967		mg/L		99	75 - 125	3	20
Calcium	456		25.0	494.9	4	mg/L		155	75 - 125	0	20
Cadmium	0.0119		0.500	0.4903		mg/L		96	75 - 125	2	20
Chromium	0.00153	U	0.500	0.4684		mg/L		94	75 - 125	2	20
Cobalt	0.0969		0.500	0.6263		mg/L		106	75 - 125	4	20
Magnesium	39.4		25.0	68.03		mg/L		115	75 - 125	3	20
Molybdenum	0.000610	U	0.500	0.5247		mg/L		105	75 - 125	2	20
Lead	0.00108		0.500	0.5048		mg/L		101	75 - 125	4	20
Thallium	0.00262		1.00	1.010		mg/L		101	75 - 125	3	20
Selenium	0.00327	J	1.00	0.9035		mg/L		90	75 - 125	5	20

Lab Sample ID: 860-56722-1 MSD
 Matrix: Water
 Analysis Batch: 451271

Client Sample ID: EP-31
 Prep Type: Total Recoverable
 Prep Batch: 446960

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limit
Beryllium	0.0635		0.500	0.5918		mg/L		106	75 - 125	0	20
Sodium	900		25.0	910.5	4	mg/L		40	75 - 125	3	20
Antimony	0.0193	U ^5- ^3+	0.250	0.2511	^5- ^3+	mg/L		100	75 - 125	3	20
Potassium	40.9		25.0	66.23		mg/L		101	75 - 125	2	20
Lithium	0.633		0.500	1.171		mg/L		108	75 - 125	2	20

Lab Sample ID: 860-56722-1 MSD
 Matrix: Water
 Analysis Batch: 451393

Client Sample ID: EP-31
 Prep Type: Total Recoverable
 Prep Batch: 446960

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limit
Boron	5.00		1.25	6.475		mg/L		118	75 - 125	1	20

Method: EPA 7470A - Mercury (CVAA)

Lab Sample ID: MB 180-446355/1-A
 Matrix: Water
 Analysis Batch: 446521

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 446355

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil
	Result	Qualifier							
Mercury	0.130	U	0.200	0.130	ug/L		09/13/23 09:05	09/14/23 09:17	1

Lab Sample ID: LCS 180-446355/2-A
 Matrix: Water
 Analysis Batch: 446521

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 446355

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec
		Result	Qualifier				Limits
Mercury	2.50	2.321		ug/L		93	80 - 120

QC Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56722-1

Method: EPA 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: 860-56722-1 MS
Matrix: Water
Analysis Batch: 446521

Client Sample ID: EP-31
Prep Type: Total/NA
Prep Batch: 446355

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.130	U	1.00	0.8700		ug/L		87	75 - 125

Lab Sample ID: 860-56722-1 MSD
Matrix: Water
Analysis Batch: 446521

Client Sample ID: EP-31
Prep Type: Total/NA
Prep Batch: 446355

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	0.8720		ug/L		87	75 - 125	0	20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-121626/20
Matrix: Water
Analysis Batch: 121626

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			09/13/23 20:18	1
Bicarbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			09/13/23 20:18	1
Carbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			09/13/23 20:18	1
Hydroxide Alkalinity	4.00	U	4.00	4.00	mg/L			09/13/23 20:18	1

Lab Sample ID: MB 860-121626/51
Matrix: Water
Analysis Batch: 121626

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			09/13/23 23:53	1
Bicarbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			09/13/23 23:53	1
Carbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			09/13/23 23:53	1
Hydroxide Alkalinity	4.00	U	4.00	4.00	mg/L			09/13/23 23:53	1

Lab Sample ID: LCS 860-121626/21
Matrix: Water
Analysis Batch: 121626

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	245.2		mg/L		98	85 - 115

Lab Sample ID: LCS 860-121626/52
Matrix: Water
Analysis Batch: 121626

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	245.5		mg/L		98	85 - 115

QC Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56722-1

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: LCSD 860-121626/22
Matrix: Water
Analysis Batch: 121626

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	250.0		mg/L		100	85 - 115	2	20

Lab Sample ID: LCSD 860-121626/53
Matrix: Water
Analysis Batch: 121626

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	249.2		mg/L		100	85 - 115	2	20

Lab Sample ID: 860-56722-12 DU
Matrix: Water
Analysis Batch: 121626

Client Sample ID: FB-03
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Alkalinity	20.3		19.00		mg/L		7	20
Bicarbonate Alkalinity as CaCO3	20.3		19.00		mg/L		7	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 860-121750/36
Matrix: Water
Analysis Batch: 121750

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			09/14/23 15:24	1
Bicarbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			09/14/23 15:24	1
Carbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			09/14/23 15:24	1
Hydroxide Alkalinity	4.00	U	4.00	4.00	mg/L			09/14/23 15:24	1

Lab Sample ID: LCS 860-121750/37
Matrix: Water
Analysis Batch: 121750

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	250.1		mg/L		100	85 - 115

Lab Sample ID: LCSD 860-121750/38
Matrix: Water
Analysis Batch: 121750

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	251.9		mg/L		101	85 - 115	1	20

QC Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56722-1

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

Lab Sample ID: MB 860-121163/1
Matrix: Water
Analysis Batch: 121163

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			09/12/23 10:37	1

Lab Sample ID: LCS 860-121163/2
Matrix: Water
Analysis Batch: 121163

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 860-121163/3
Matrix: Water
Analysis Batch: 121163

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	1104		mg/L		110	80 - 120	10	10

Lab Sample ID: LLCS 860-121163/4
Matrix: Water
Analysis Batch: 121163

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		60	50 - 150

Lab Sample ID: MB 860-121170/1
Matrix: Water
Analysis Batch: 121170

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			09/12/23 10:56	1

Lab Sample ID: LCS 860-121170/2
Matrix: Water
Analysis Batch: 121170

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	1004		mg/L		100	80 - 120

Lab Sample ID: LCSD 860-121170/3
Matrix: Water
Analysis Batch: 121170

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	1041		mg/L		104	80 - 120	4	10

Lab Sample ID: LLCS 860-121170/4
Matrix: Water
Analysis Batch: 121170

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		70	50 - 150

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QC Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56722-1

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

Lab Sample ID: MB 860-121193/1
 Matrix: Water
 Analysis Batch: 121193

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			09/12/23 11:46	1

Lab Sample ID: LCS 860-121193/2
 Matrix: Water
 Analysis Batch: 121193

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	1047		mg/L		105	80 - 120

Lab Sample ID: LCSD 860-121193/3
 Matrix: Water
 Analysis Batch: 121193

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	1001		mg/L		100	80 - 120	4	10

Lab Sample ID: LLCS 860-121193/4
 Matrix: Water
 Analysis Batch: 121193

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		60	50 - 150

Lab Sample ID: 860-56722-4 DU
 Matrix: Water
 Analysis Batch: 121193

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

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	11600		11700		mg/L		0.9	10

Lab Sample ID: 860-56722-5 DU
 Matrix: Water
 Analysis Batch: 121193

Client Sample ID: EP-35
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	11300		10970		mg/L		3	10

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-627646/1-A
 Matrix: Water
 Analysis Batch: 630165

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 627646

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.2088	U	0.341	0.342	1.00	0.581	pCi/L	09/12/23 09:44	09/29/23 11:55	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	100		30 - 110	09/12/23 09:44	09/29/23 11:55	1
Y Carrier	80.7		30 - 110	09/12/23 09:44	09/29/23 11:55	1

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QC Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56722-1

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: LCS 160-627646/2-A
Matrix: Water
Analysis Batch: 630165

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 627646

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	
									75	125
Radium-228	7.84	8.323		1.19	1.00	0.577	pCi/L	106	75 - 125	
LCS LCS										
Carrier	%Yield	Qualifier	Limits							
Ba Carrier	96.8		30 - 110							
Y Carrier	83.4		30 - 110							

Lab Sample ID: 860-56722-1 MS
Matrix: Water
Analysis Batch: 630165

Client Sample ID: EP-31
Prep Type: Total/NA
Prep Batch: 627646

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	
											60	140
Radium-228	1.90		10.5	11.21		1.59	1.00	0.703	pCi/L	90	60 - 140	
MS MS												
Carrier	%Yield	Qualifier	Limits									
Ba Carrier	100		30 - 110									
Y Carrier	82.2		30 - 110									

Lab Sample ID: 860-56722-1 MSD
Matrix: Water
Analysis Batch: 630165

Client Sample ID: EP-31
Prep Type: Total/NA
Prep Batch: 627646

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		RER	Limit
											60	140	0.20	1
Radium-228	1.90		10.5	10.60		1.52	1.00	0.746	pCi/L	85	60 - 140	0.20	1	
MSD MSD														
Carrier	%Yield	Qualifier	Limits											
Ba Carrier	102		30 - 110											
Y Carrier	81.9		30 - 110											

Method: SM7500 Ra B - Radium-226

Lab Sample ID: MB 810-72930/1-A
Matrix: Water
Analysis Batch: 73833

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 72930

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra-226	-0.04000	U	0.260		1.00	0.430	pCi/L	09/11/23 10:43	09/18/23 10:16	1

Lab Sample ID: LCS 810-72930/2-A
Matrix: Water
Analysis Batch: 73833

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 72930

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	
									90	110
Ra-226	5.26	5.210			1.00	0.700	pCi/L	99	90 - 110	

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QC Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56722-1

Method: SM7500 Ra B - Radium-226 (Continued)

Lab Sample ID: 860-56722-1 MS
Matrix: Water
Analysis Batch: 74631

Client Sample ID: EP-31
Prep Type: Total/NA
Prep Batch: 72930

Analyte	Sample	Sample	Spike	MS	MS	Total	RL	MDC	Unit	%Rec	%Rec	Limits
	Result	Qual		Result	Qual							
Ra-226	0.950		5.83	5.300			1.00	0.250	pCi/L	91		80 - 120

Lab Sample ID: 860-56722-1 MSD
Matrix: Water
Analysis Batch: 74631

Client Sample ID: EP-31
Prep Type: Total/NA
Prep Batch: 72930

Analyte	Sample	Sample	Spike	MSD	MSD	Total	RL	MDC	Unit	%Rec	%Rec	Limits	RER	Limit
	Result	Qual		Result	Qual								Uncert. (2σ+/-)	RER
Ra-226	0.950		5.83	4.680			1.00	0.300	pCi/L	80		80 - 120	0.35	

Lab Sample ID: MB 810-72932/1-A
Matrix: Water
Analysis Batch: 73979

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 72932

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier								
Ra-226	-0.06000	U	0.420		1.00	0.700	pCi/L	09/11/23 10:50	09/18/23 15:31	1

Lab Sample ID: LCS 810-72932/2-A
Matrix: Water
Analysis Batch: 73979

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 72932

Analyte	Spike	LCS	LCS	Total	RL	MDC	Unit	%Rec	%Rec	Limits
Ra-226	5.26	5.180			1.00	0.850	pCi/L	98		90 - 110

Lab Sample ID: MB 810-72933/1-A
Matrix: Water
Analysis Batch: 73817

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 72933

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier								
Ra-226	-0.2400	U	0.450		1.00	0.810	pCi/L	09/11/23 10:56	09/18/23 10:11	1

Lab Sample ID: LCS 810-72933/2-A
Matrix: Water
Analysis Batch: 73817

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 72933

Analyte	Spike	LCS	LCS	Total	RL	MDC	Unit	%Rec	%Rec	Limits
Ra-226	5.26	4.780			1.00	0.410	pCi/L	91		90 - 110

Lab Sample ID: LCS 810-72933/3-A
Matrix: Water
Analysis Batch: 73817

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 72933

Analyte	Spike	LCS	LCS	Total	RL	MDC	Unit	%Rec	%Rec	Limits
Ra-226	5.26	4.720			1.00	0.440	pCi/L	90		90 - 110

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QC Association Summary

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56722-1

HPLC/IC

Analysis Batch: 121877

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56722-1	EP-31	Total/NA	Water	300.0	
860-56722-1 - DL	EP-31	Total/NA	Water	300.0	
860-56722-2	EP-32	Total/NA	Water	300.0	
860-56722-3	EP-33	Total/NA	Water	300.0	
860-56722-3 - DL	EP-33	Total/NA	Water	300.0	
860-56722-4	EP-34	Total/NA	Water	300.0	
860-56722-5	EP-35	Total/NA	Water	300.0	
860-56722-6	EP-36	Total/NA	Water	300.0	
860-56722-7	EP-37	Total/NA	Water	300.0	
860-56722-8	EP-38	Total/NA	Water	300.0	
860-56722-8 - DL	EP-38	Total/NA	Water	300.0	
860-56722-9	MW-4	Total/NA	Water	300.0	
860-56722-9 - DL	MW-4	Total/NA	Water	300.0	
860-56722-10	EB-02	Total/NA	Water	300.0	
860-56722-11	DUP-03	Total/NA	Water	300.0	
860-56722-11 - DL	DUP-03	Total/NA	Water	300.0	
860-56722-12	FB-03	Total/NA	Water	300.0	
MB 860-121877/120	Method Blank	Total/NA	Water	300.0	
MB 860-121877/13	Method Blank	Total/NA	Water	300.0	
MB 860-121877/74	Method Blank	Total/NA	Water	300.0	
LCS 860-121877/121	Lab Control Sample	Total/NA	Water	300.0	
LCS 860-121877/14	Lab Control Sample	Total/NA	Water	300.0	
LCS 860-121877/75	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-121877/122	Lab Control Sample Dup	Total/NA	Water	300.0	
LCSD 860-121877/15	Lab Control Sample Dup	Total/NA	Water	300.0	
LCSD 860-121877/76	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-121877/17	Lab Control Sample	Total/NA	Water	300.0	
860-56722-1 MS	EP-31	Total/NA	Water	300.0	
860-56722-1 MSD	EP-31	Total/NA	Water	300.0	
860-56722-10 MS	EB-02	Total/NA	Water	300.0	
860-56722-10 MSD	EB-02	Total/NA	Water	300.0	

Analysis Batch: 122258

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-122258/3	Method Blank	Total/NA	Water	300.0	
MB 860-122258/51	Method Blank	Total/NA	Water	300.0	
LCS 860-122258/4	Lab Control Sample	Total/NA	Water	300.0	
LCS 860-122258/52	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-122258/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LCSD 860-122258/53	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-122258/7	Lab Control Sample	Total/NA	Water	300.0	
860-56722-1 MS	EP-31	Total/NA	Water	300.0	
860-56722-1 MSD	EP-31	Total/NA	Water	300.0	

Metals

Prep Batch: 446355

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56722-1	EP-31	Total/NA	Water	7470A	
860-56722-2	EP-32	Total/NA	Water	7470A	
860-56722-3	EP-33	Total/NA	Water	7470A	

Eurofins Houston

QC Association Summary

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56722-1

Metals (Continued)

Prep Batch: 446355 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56722-4	EP-34	Total/NA	Water	7470A	
860-56722-5	EP-35	Total/NA	Water	7470A	
860-56722-6	EP-36	Total/NA	Water	7470A	
860-56722-7	EP-37	Total/NA	Water	7470A	
860-56722-8	EP-38	Total/NA	Water	7470A	
860-56722-9	MW-4	Total/NA	Water	7470A	
860-56722-10	EB-02	Total/NA	Water	7470A	
860-56722-11	DUP-03	Total/NA	Water	7470A	
860-56722-12	FB-03	Total/NA	Water	7470A	
MB 180-446355/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-446355/2-A	Lab Control Sample	Total/NA	Water	7470A	
860-56722-1 MS	EP-31	Total/NA	Water	7470A	
860-56722-1 MSD	EP-31	Total/NA	Water	7470A	

Analysis Batch: 446521

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56722-1	EP-31	Total/NA	Water	EPA 7470A	446355
860-56722-2	EP-32	Total/NA	Water	EPA 7470A	446355
860-56722-3	EP-33	Total/NA	Water	EPA 7470A	446355
860-56722-4	EP-34	Total/NA	Water	EPA 7470A	446355
860-56722-5	EP-35	Total/NA	Water	EPA 7470A	446355
860-56722-6	EP-36	Total/NA	Water	EPA 7470A	446355
860-56722-7	EP-37	Total/NA	Water	EPA 7470A	446355
860-56722-8	EP-38	Total/NA	Water	EPA 7470A	446355
860-56722-9	MW-4	Total/NA	Water	EPA 7470A	446355
860-56722-10	EB-02	Total/NA	Water	EPA 7470A	446355
860-56722-11	DUP-03	Total/NA	Water	EPA 7470A	446355
860-56722-12	FB-03	Total/NA	Water	EPA 7470A	446355
MB 180-446355/1-A	Method Blank	Total/NA	Water	EPA 7470A	446355
LCS 180-446355/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	446355
860-56722-1 MS	EP-31	Total/NA	Water	EPA 7470A	446355
860-56722-1 MSD	EP-31	Total/NA	Water	EPA 7470A	446355

Prep Batch: 446960

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56722-1	EP-31	Total Recoverable	Water	3005A	
860-56722-2	EP-32	Total Recoverable	Water	3005A	
860-56722-3	EP-33	Total Recoverable	Water	3005A	
860-56722-4	EP-34	Total Recoverable	Water	3005A	
860-56722-5	EP-35	Total Recoverable	Water	3005A	
860-56722-6	EP-36	Total Recoverable	Water	3005A	
860-56722-7	EP-37	Total Recoverable	Water	3005A	
860-56722-8	EP-38	Total Recoverable	Water	3005A	
860-56722-9	MW-4	Total Recoverable	Water	3005A	
860-56722-10	EB-02	Total Recoverable	Water	3005A	
860-56722-11	DUP-03	Total Recoverable	Water	3005A	
860-56722-12	FB-03	Total Recoverable	Water	3005A	
MB 180-446960/1-A	Method Blank	Total Recoverable	Water	3005A	
MB 180-446960/1-A ^20	Method Blank	Total Recoverable	Water	3005A	
LCS 180-446960/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCS 180-446960/2-A ^20	Lab Control Sample	Total Recoverable	Water	3005A	

Eurofins Houston

QC Association Summary

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56722-1

Metals (Continued)

Prep Batch: 446960 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56722-1 MS	EP-31	Total Recoverable	Water	3005A	
860-56722-1 MSD	EP-31	Total Recoverable	Water	3005A	

Analysis Batch: 450921

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56722-1	EP-31	Total Recoverable	Water	EPA 6020A	446960
860-56722-2	EP-32	Total Recoverable	Water	EPA 6020A	446960
860-56722-3	EP-33	Total Recoverable	Water	EPA 6020A	446960
860-56722-4	EP-34	Total Recoverable	Water	EPA 6020A	446960
860-56722-5	EP-35	Total Recoverable	Water	EPA 6020A	446960
860-56722-6	EP-36	Total Recoverable	Water	EPA 6020A	446960
860-56722-7	EP-37	Total Recoverable	Water	EPA 6020A	446960
860-56722-8	EP-38	Total Recoverable	Water	EPA 6020A	446960
860-56722-9	MW-4	Total Recoverable	Water	EPA 6020A	446960
860-56722-10	EB-02	Total Recoverable	Water	EPA 6020A	446960
860-56722-11	DUP-03	Total Recoverable	Water	EPA 6020A	446960
860-56722-12	FB-03	Total Recoverable	Water	EPA 6020A	446960
MB 180-446960/1-A	Method Blank	Total Recoverable	Water	EPA 6020A	446960
LCS 180-446960/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020A	446960
860-56722-1 MS	EP-31	Total Recoverable	Water	EPA 6020A	446960
860-56722-1 MSD	EP-31	Total Recoverable	Water	EPA 6020A	446960

Analysis Batch: 451271

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56722-1	EP-31	Total Recoverable	Water	EPA 6020A	446960
860-56722-2	EP-32	Total Recoverable	Water	EPA 6020A	446960
860-56722-3	EP-33	Total Recoverable	Water	EPA 6020A	446960
860-56722-4	EP-34	Total Recoverable	Water	EPA 6020A	446960
860-56722-5	EP-35	Total Recoverable	Water	EPA 6020A	446960
860-56722-6	EP-36	Total Recoverable	Water	EPA 6020A	446960
860-56722-7	EP-37	Total Recoverable	Water	EPA 6020A	446960
860-56722-8	EP-38	Total Recoverable	Water	EPA 6020A	446960
860-56722-9	MW-4	Total Recoverable	Water	EPA 6020A	446960
860-56722-10	EB-02	Total Recoverable	Water	EPA 6020A	446960
860-56722-11	DUP-03	Total Recoverable	Water	EPA 6020A	446960
860-56722-12	FB-03	Total Recoverable	Water	EPA 6020A	446960
MB 180-446960/1-A ^20	Method Blank	Total Recoverable	Water	EPA 6020A	446960
LCS 180-446960/2-A ^20	Lab Control Sample	Total Recoverable	Water	EPA 6020A	446960
860-56722-1 MS	EP-31	Total Recoverable	Water	EPA 6020A	446960
860-56722-1 MSD	EP-31	Total Recoverable	Water	EPA 6020A	446960

Analysis Batch: 451393

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56722-1	EP-31	Total Recoverable	Water	EPA 6020A	446960
860-56722-2	EP-32	Total Recoverable	Water	EPA 6020A	446960
860-56722-3	EP-33	Total Recoverable	Water	EPA 6020A	446960
860-56722-4	EP-34	Total Recoverable	Water	EPA 6020A	446960
860-56722-5	EP-35	Total Recoverable	Water	EPA 6020A	446960
860-56722-6	EP-36	Total Recoverable	Water	EPA 6020A	446960
860-56722-7	EP-37	Total Recoverable	Water	EPA 6020A	446960
860-56722-8	EP-38	Total Recoverable	Water	EPA 6020A	446960

Eurofins Houston

QC Association Summary

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56722-1

Metals (Continued)

Analysis Batch: 451393 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56722-9	MW-4	Total Recoverable	Water	EPA 6020A	446960
860-56722-10	EB-02	Total Recoverable	Water	EPA 6020A	446960
860-56722-11	DUP-03	Total Recoverable	Water	EPA 6020A	446960
860-56722-12	FB-03	Total Recoverable	Water	EPA 6020A	446960
MB 180-446960/1-A	Method Blank	Total Recoverable	Water	EPA 6020A	446960
LCS 180-446960/2-A ^20	Lab Control Sample	Total Recoverable	Water	EPA 6020A	446960
860-56722-1 MS	EP-31	Total Recoverable	Water	EPA 6020A	446960
860-56722-1 MSD	EP-31	Total Recoverable	Water	EPA 6020A	446960

General Chemistry

Analysis Batch: 121163

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56722-11	DUP-03	Total/NA	Water	SM 2540C	
860-56722-12	FB-03	Total/NA	Water	SM 2540C	
MB 860-121163/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-121163/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-121163/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
LLCS 860-121163/4	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 121170

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56722-2	EP-32	Total/NA	Water	SM 2540C	
860-56722-3	EP-33	Total/NA	Water	SM 2540C	
MB 860-121170/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-121170/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-121170/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
LLCS 860-121170/4	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 121193

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56722-1	EP-31	Total/NA	Water	SM 2540C	
860-56722-4	EP-34	Total/NA	Water	SM 2540C	
860-56722-5	EP-35	Total/NA	Water	SM 2540C	
860-56722-6	EP-36	Total/NA	Water	SM 2540C	
860-56722-7	EP-37	Total/NA	Water	SM 2540C	
860-56722-8	EP-38	Total/NA	Water	SM 2540C	
860-56722-9	MW-4	Total/NA	Water	SM 2540C	
860-56722-10	EB-02	Total/NA	Water	SM 2540C	
MB 860-121193/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-121193/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-121193/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
LLCS 860-121193/4	Lab Control Sample	Total/NA	Water	SM 2540C	
860-56722-4 DU	EP-34	Total/NA	Water	SM 2540C	
860-56722-5 DU	EP-35	Total/NA	Water	SM 2540C	

Analysis Batch: 121626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56722-1	EP-31	Total/NA	Water	SM 2320B	
860-56722-2	EP-32	Total/NA	Water	SM 2320B	
860-56722-3	EP-33	Total/NA	Water	SM 2320B	

Eurofins Houston

QC Association Summary

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56722-1

General Chemistry (Continued)

Analysis Batch: 121626 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56722-4	EP-34	Total/NA	Water	SM 2320B	
860-56722-5	EP-35	Total/NA	Water	SM 2320B	
860-56722-6	EP-36	Total/NA	Water	SM 2320B	
860-56722-7	EP-37	Total/NA	Water	SM 2320B	
860-56722-8	EP-38	Total/NA	Water	SM 2320B	
860-56722-10	EB-02	Total/NA	Water	SM 2320B	
860-56722-11	DUP-03	Total/NA	Water	SM 2320B	
860-56722-12	FB-03	Total/NA	Water	SM 2320B	
MB 860-121626/20	Method Blank	Total/NA	Water	SM 2320B	
MB 860-121626/51	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-121626/21	Lab Control Sample	Total/NA	Water	SM 2320B	
LCS 860-121626/52	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-121626/22	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
LCSD 860-121626/53	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
860-56722-12 DU	FB-03	Total/NA	Water	SM 2320B	

Analysis Batch: 121750

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56722-9	MW-4	Total/NA	Water	SM 2320B	
MB 860-121750/36	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-121750/37	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-121750/38	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Rad

Prep Batch: 72930

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56722-1	EP-31	Total/NA	Water	RAD Prep	
860-56722-2	EP-32	Total/NA	Water	RAD Prep	
MB 810-72930/1-A	Method Blank	Total/NA	Water	RAD Prep	
LCS 810-72930/2-A	Lab Control Sample	Total/NA	Water	RAD Prep	
860-56722-1 MS	EP-31	Total/NA	Water	RAD Prep	
860-56722-1 MSD	EP-31	Total/NA	Water	RAD Prep	

Prep Batch: 72932

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56722-3	EP-33	Total/NA	Water	RAD Prep	
860-56722-4	EP-34	Total/NA	Water	RAD Prep	
860-56722-5	EP-35	Total/NA	Water	RAD Prep	
860-56722-6	EP-36	Total/NA	Water	RAD Prep	
860-56722-7	EP-37	Total/NA	Water	RAD Prep	
860-56722-8	EP-38	Total/NA	Water	RAD Prep	
860-56722-9	MW-4	Total/NA	Water	RAD Prep	
860-56722-10	EB-02	Total/NA	Water	RAD Prep	
860-56722-11	DUP-03	Total/NA	Water	RAD Prep	
MB 810-72932/1-A	Method Blank	Total/NA	Water	RAD Prep	
LCS 810-72932/2-A	Lab Control Sample	Total/NA	Water	RAD Prep	

Prep Batch: 72933

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56722-12	FB-03	Total/NA	Water	RAD Prep	

QC Association Summary

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56722-1

Rad (Continued)

Prep Batch: 72933 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 810-72933/1-A	Method Blank	Total/NA	Water	RAD Prep	
LCS 810-72933/2-A	Lab Control Sample	Total/NA	Water	RAD Prep	
LCS 810-72933/3-A	Lab Control Sample	Total/NA	Water	RAD Prep	

Prep Batch: 627646

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56722-1	EP-31	Total/NA	Water	PrecSep_0	
860-56722-2	EP-32	Total/NA	Water	PrecSep_0	
860-56722-3	EP-33	Total/NA	Water	PrecSep_0	
860-56722-4	EP-34	Total/NA	Water	PrecSep_0	
860-56722-5	EP-35	Total/NA	Water	PrecSep_0	
860-56722-6	EP-36	Total/NA	Water	PrecSep_0	
860-56722-7	EP-37	Total/NA	Water	PrecSep_0	
860-56722-8	EP-38	Total/NA	Water	PrecSep_0	
860-56722-9	MW-4	Total/NA	Water	PrecSep_0	
860-56722-10	EB-02	Total/NA	Water	PrecSep_0	
860-56722-11	DUP-03	Total/NA	Water	PrecSep_0	
860-56722-12	FB-03	Total/NA	Water	PrecSep_0	
MB 160-627646/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-627646/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
860-56722-1 MS	EP-31	Total/NA	Water	PrecSep_0	
860-56722-1 MSD	EP-31	Total/NA	Water	PrecSep_0	



Lab Chronicle

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56722-1

Client Sample ID: EP-31

Lab Sample ID: 860-56722-1

Date Collected: 09/06/23 12:05

Matrix: Water

Date Received: 09/07/23 10:06

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			121877	09/16/23 05:30	RBNS	EET HOU
Total/NA	Analysis	300.0	DL	10			121877	09/16/23 05:38	RBNS	EET HOU
Total Recoverable	Prep	3005A			25 mL	25 mL	446960	09/20/23 07:04	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			450921	11/02/23 18:24	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	446960	09/20/23 07:04	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		20			451271	11/07/23 15:03	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	446960	09/20/23 07:04	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		20			451393	11/08/23 13:51	S1Z	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	446355	09/13/23 09:05	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			446521	09/14/23 09:19	MTW	EET PIT
Total/NA	Analysis	SM 2320B		1			121626	09/13/23 23:00	YG	EET HOU
Total/NA	Analysis	SM 2540C		1	25 mL	200 mL	121193	09/12/23 11:47	SA	EET HOU
Total/NA	Prep	PrecSep_0			746.38 mL	1.0 g	627646	09/12/23 09:44	KAC	EET SL
Total/NA	Analysis	904.0		1	1.0 mL	1.0 mL	630165	09/29/23 11:56	FLC	EET SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	72930	09/11/23 10:43	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			74631	09/22/23 16:36	SM	EA SB
								Completed: 09/22/23 17:06 ¹		

Client Sample ID: EP-32

Lab Sample ID: 860-56722-2

Date Collected: 09/06/23 08:15

Matrix: Water

Date Received: 09/07/23 10:06

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			121877	09/16/23 06:21	RBNS	EET HOU
Total Recoverable	Prep	3005A			25 mL	25 mL	446960	09/20/23 07:04	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			450921	11/02/23 18:33	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	446960	09/20/23 07:04	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		20			451271	11/07/23 15:11	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	446960	09/20/23 07:04	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		100			451393	11/08/23 14:00	S1Z	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	446355	09/13/23 09:05	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			446521	09/14/23 09:22	MTW	EET PIT
Total/NA	Analysis	SM 2320B		1			121626	09/13/23 23:08	YG	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	121170	09/12/23 10:56	SA	EET HOU
Total/NA	Prep	PrecSep_0			997.44 mL	1.0 g	627646	09/12/23 09:44	KAC	EET SL
Total/NA	Analysis	904.0		1	1.0 mL	1.0 mL	630165	09/29/23 11:56	FLC	EET SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	72930	09/11/23 10:43	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			74629	09/22/23 16:36	SM	EA SB
								Completed: 09/22/23 17:06 ¹		

Lab Chronicle

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56722-1

Client Sample ID: EP-33

Lab Sample ID: 860-56722-3

Date Collected: 09/06/23 09:10

Matrix: Water

Date Received: 09/07/23 10:06

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			121877	09/16/23 05:47	RBNS	EET HOU
Total/NA	Analysis	300.0	DL	10			121877	09/16/23 05:55	RBNS	EET HOU
Total Recoverable	Prep	3005A			25 mL	25 mL	446960	09/20/23 07:04	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			450921	11/02/23 18:36	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	446960	09/20/23 07:04	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		20			451271	11/07/23 15:14	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	446960	09/20/23 07:04	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		200			451393	11/08/23 14:03	S1Z	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	446355	09/13/23 09:05	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			446521	09/14/23 09:23	MTW	EET PIT
Total/NA	Analysis	SM 2320B		1			121626	09/13/23 23:16	YG	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	121170	09/12/23 10:56	SA	EET HOU
Total/NA	Prep	PrecSep_0			999.56 mL	1.0 g	627646	09/12/23 09:44	KAC	EET SL
Total/NA	Analysis	904.0		1	1.0 mL	1.0 mL	630165	09/29/23 11:56	FLC	EET SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	72932	09/11/23 10:50	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			74685	09/22/23 11:12	SM	EA SB
								Completed: 09/22/23 11:42 ¹		

Client Sample ID: EP-34

Lab Sample ID: 860-56722-4

Date Collected: 09/06/23 10:30

Matrix: Water

Date Received: 09/07/23 10:06

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			121877	09/16/23 06:29	RBNS	EET HOU
Total Recoverable	Prep	3005A			25 mL	25 mL	446960	09/20/23 07:04	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			450921	11/02/23 18:38	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	446960	09/20/23 07:04	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		20			451271	11/07/23 15:20	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	446960	09/20/23 07:04	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		100			451393	11/08/23 14:09	S1Z	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	446355	09/13/23 09:05	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			446521	09/14/23 09:24	MTW	EET PIT
Total/NA	Analysis	SM 2320B		1			121626	09/14/23 02:10	YG	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	121193	09/12/23 11:46	SA	EET HOU
Total/NA	Prep	PrecSep_0			1001.72 mL	1.0 g	627646	09/12/23 09:44	KAC	EET SL
Total/NA	Analysis	904.0		1	1.0 mL	1.0 mL	630165	09/29/23 11:56	FLC	EET SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	72932	09/11/23 10:50	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			74685	09/22/23 11:12	SM	EA SB
								Completed: 09/22/23 11:42 ¹		

Lab Chronicle

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56722-1

Client Sample ID: EP-35

Lab Sample ID: 860-56722-5

Date Collected: 09/06/23 11:15

Matrix: Water

Date Received: 09/07/23 10:06

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			121877	09/16/23 06:37	RBNS	EET HOU
Total Recoverable	Prep	3005A			25 mL	25 mL	446960	09/20/23 07:04	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			450921	11/02/23 18:41	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	446960	09/20/23 07:04	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		20			451271	11/07/23 15:17	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	446960	09/20/23 07:04	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		200			451393	11/08/23 14:06	S1Z	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	446355	09/13/23 09:05	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			446521	09/14/23 09:25	MTW	EET PIT
Total/NA	Analysis	SM 2320B		1			121626	09/14/23 02:33	YG	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	121193	09/12/23 11:46	SA	EET HOU
Total/NA	Prep	PrecSep_0			996.97 mL	1.0 g	627646	09/12/23 09:44	KAC	EET SL
Total/NA	Analysis	904.0		1	1.0 mL	1.0 mL	630165	09/29/23 11:56	FLC	EET SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	72932	09/11/23 10:50	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			74685	09/22/23 11:12	SM	EA SB
								Completed: 09/22/23 11:42 ¹		

Client Sample ID: EP-36

Lab Sample ID: 860-56722-6

Date Collected: 09/06/23 11:10

Matrix: Water

Date Received: 09/07/23 10:06

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			121877	09/16/23 13:21	RBNS	EET HOU
Total Recoverable	Prep	3005A			25 mL	25 mL	446960	09/20/23 07:04	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			450921	11/02/23 18:50	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	446960	09/20/23 07:04	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		20			451271	11/07/23 15:22	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	446960	09/20/23 07:04	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		200			451393	11/08/23 14:12	S1Z	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	446355	09/13/23 09:05	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			446521	09/14/23 09:26	MTW	EET PIT
Total/NA	Analysis	SM 2320B		1			121626	09/14/23 02:42	YG	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	121193	09/12/23 11:47	SA	EET HOU
Total/NA	Prep	PrecSep_0			996.15 mL	1.0 g	627646	09/12/23 09:44	KAC	EET SL
Total/NA	Analysis	904.0		1	1.0 mL	1.0 mL	630166	09/29/23 11:56	FLC	EET SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	72932	09/11/23 10:50	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			74685	09/22/23 11:12	SM	EA SB
								Completed: 09/22/23 11:42 ¹		

Lab Chronicle

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56722-1

Client Sample ID: EP-37
Date Collected: 09/06/23 10:30
Date Received: 09/07/23 10:06

Lab Sample ID: 860-56722-7
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			121877	09/16/23 13:30	RBNS	EET HOU
Total Recoverable	Prep	3005A			25 mL	25 mL	446960	09/20/23 07:04	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			450921	11/02/23 18:52	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	446960	09/20/23 07:04	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		20			451271	11/07/23 15:25	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	446960	09/20/23 07:04	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		100			451393	11/08/23 14:15	S1Z	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	446355	09/13/23 09:05	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			446521	09/14/23 09:31	MTW	EET PIT
Total/NA	Analysis	SM 2320B		1			121626	09/14/23 02:50	YG	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	121193	09/12/23 11:47	SA	EET HOU
Total/NA	Prep	PrecSep_0			1001.39 mL	1.0 g	627646	09/12/23 09:44	KAC	EET SL
Total/NA	Analysis	904.0		1	1.0 mL	1.0 mL	630166	09/29/23 11:56	FLC	EET SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	72932	09/11/23 10:50	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			74685	09/22/23 16:22	SM	EA SB
								Completed:	09/22/23 16:52 ¹	

Client Sample ID: EP-38
Date Collected: 09/06/23 08:50
Date Received: 09/07/23 10:06

Lab Sample ID: 860-56722-8
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		1			121877	09/16/23 09:51	RBNS	EET HOU
Total/NA	Analysis	300.0	DL	10			121877	09/16/23 09:59	RBNS	EET HOU
Total Recoverable	Prep	3005A			25 mL	25 mL	446960	09/20/23 07:04	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			450921	11/02/23 18:55	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	446960	09/20/23 07:04	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		20			451271	11/07/23 15:28	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	446960	09/20/23 07:04	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		20			451393	11/08/23 14:18	S1Z	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	446355	09/13/23 09:05	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			446521	09/14/23 09:32	MTW	EET PIT
Total/NA	Analysis	SM 2320B		1			121626	09/14/23 02:56	YG	EET HOU
Total/NA	Analysis	SM 2540C		1	25 mL	200 mL	121193	09/12/23 11:47	SA	EET HOU
Total/NA	Prep	PrecSep_0			1008.76 mL	1.0 g	627646	09/12/23 09:44	KAC	EET SL
Total/NA	Analysis	904.0		1	1.0 mL	1.0 mL	630166	09/29/23 11:56	FLC	EET SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	72932	09/11/23 10:50	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			74685	09/22/23 16:22	SM	EA SB
								Completed:	09/22/23 16:52 ¹	

Lab Chronicle

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56722-1

Client Sample ID: MW-4
Date Collected: 09/06/23 09:40
Date Received: 09/07/23 10:06

Lab Sample ID: 860-56722-9
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		1			121877	09/16/23 10:08	RBNS	EET HOU
Total/NA	Analysis	300.0	DL	10			121877	09/16/23 10:16	RBNS	EET HOU
Total Recoverable	Prep	3005A			25 mL	25 mL	446960	09/20/23 07:04	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			450921	11/02/23 18:58	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	446960	09/20/23 07:04	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		20			451271	11/07/23 15:31	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	446960	09/20/23 07:04	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		40			451393	11/08/23 14:36	S1Z	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	446355	09/13/23 09:05	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			446521	09/14/23 09:33	MTW	EET PIT
Total/NA	Analysis	SM 2320B		1			121750	09/14/23 16:27	YG	EET HOU
Total/NA	Analysis	SM 2540C		1	25 mL	200 mL	121193	09/12/23 11:47	SA	EET HOU
Total/NA	Prep	PrecSep_0			995.33 mL	1.0 g	627646	09/12/23 09:44	KAC	EET SL
Total/NA	Analysis	904.0		1	1.0 mL	1.0 mL	630166	09/29/23 11:56	FLC	EET SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	72932	09/11/23 10:50	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			74685	09/22/23 16:22	SM	EA SB
								Completed: 09/22/23 16:52 '1		

Client Sample ID: EB-02
Date Collected: 09/06/23 10:00
Date Received: 09/07/23 10:06

Lab Sample ID: 860-56722-10
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		1			121877	09/16/23 08:01	RBNS	EET HOU
Total Recoverable	Prep	3005A			25 mL	25 mL	446960	09/20/23 07:04	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			450921	11/02/23 19:01	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	446960	09/20/23 07:04	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		20			451271	11/07/23 15:34	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	446960	09/20/23 07:04	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		20			451393	11/08/23 14:39	S1Z	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	446355	09/13/23 09:05	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			446521	09/14/23 09:34	MTW	EET PIT
Total/NA	Analysis	SM 2320B		1			121626	09/14/23 03:04	YG	EET HOU
Total/NA	Analysis	SM 2540C		1	200 mL	200 mL	121193	09/12/23 11:47	SA	EET HOU
Total/NA	Prep	PrecSep_0			996.84 mL	1.0 g	627646	09/12/23 09:44	KAC	EET SL
Total/NA	Analysis	904.0		1	1.0 mL	1.0 mL	630166	09/29/23 11:57	FLC	EET SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	72932	09/11/23 10:50	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			73979	09/18/23 15:31	SM	EA SB
								Completed: 09/18/23 16:01 '1		

Lab Chronicle

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56722-1

Client Sample ID: DUP-03

Lab Sample ID: 860-56722-11

Date Collected: 09/06/23 10:00

Matrix: Water

Date Received: 09/07/23 10:06

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			121877	09/16/23 10:25	RBNS	EET HOU
Total/NA	Analysis	300.0	DL	10			121877	09/16/23 10:33	RBNS	EET HOU
Total Recoverable	Prep	3005A			25 mL	25 mL	446960	09/20/23 07:04	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			450921	11/02/23 19:04	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	446960	09/20/23 07:04	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		20			451271	11/07/23 15:45	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	446960	09/20/23 07:04	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		200			451393	11/08/23 14:42	S1Z	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	446355	09/13/23 09:05	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			446521	09/14/23 09:35	MTW	EET PIT
Total/NA	Analysis	SM 2320B		1			121626	09/13/23 23:30	YG	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	121163	09/12/23 10:37	SA	EET HOU
Total/NA	Prep	PrecSep_0			1000.81 mL	1.0 g	627646	09/12/23 09:44	KAC	EET SL
Total/NA	Analysis	904.0		1	1.0 mL	1.0 mL	630166	09/29/23 11:57	FLC	EET SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	72932	09/11/23 10:50	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			74685	09/22/23 16:22	SM	EA SB
								Completed: 09/22/23 16:52 ¹		

Client Sample ID: FB-03

Lab Sample ID: 860-56722-12

Date Collected: 09/06/23 11:50

Matrix: Water

Date Received: 09/07/23 10:06

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			121877	09/16/23 01:09	RBNS	EET HOU
Total Recoverable	Prep	3005A			25 mL	25 mL	446960	09/20/23 07:04	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			450921	11/02/23 19:06	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	446960	09/20/23 07:04	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		20			451271	11/07/23 15:48	S1Z	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	446960	09/20/23 07:04	SJM	EET PIT
Total Recoverable	Analysis	EPA 6020A		20			451393	11/08/23 14:45	S1Z	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	446355	09/13/23 09:05	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			446521	09/14/23 09:36	MTW	EET PIT
Total/NA	Analysis	SM 2320B		1			121626	09/14/23 00:17	YG	EET HOU
Total/NA	Analysis	SM 2540C		1	200 mL	200 mL	121163	09/12/23 10:37	SA	EET HOU
Total/NA	Prep	PrecSep_0			996.10 mL	1.0 g	627646	09/12/23 09:44	KAC	EET SL
Total/NA	Analysis	904.0		1	1.0 mL	1.0 mL	630166	09/29/23 11:57	FLC	EET SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	72933	09/11/23 10:56	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			73817	09/18/23 10:11	SM	EA SB
								Completed: 09/18/23 10:41 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: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56722-1

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

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Accreditation/Certification Summary

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56722-1

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	T104704215-23-53	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
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	07-31-24
Alabama	State	40700	06-30-24
Alaska	State	IN00035	06-30-24
Arizona	State	AZ0432	07-26-24
Arkansas (DW)	State	EPA IN00035	06-30-23 *
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	06-30-23 *
Idaho (DW)	State	IN00035	12-31-23
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	10-31-23
Kansas	NELAP	E-10233	10-31-23
Kentucky (DW)	State	KY90056	12-31-23
Louisiana (DW)	State	LA014	12-31-23
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	12-31-23
Mississippi	State	IN00035	06-30-24
Missouri	State	880	09-30-24
Montana (DW)	State	CERT0026	01-02-24
Nebraska	State	NE-OS-05-04	06-30-24
Nevada	State	IN000352024-01	07-31-24
New Hampshire	NELAP	2124	11-05-23
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

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

Accreditation/Certification Summary

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56722-1

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	09-26-23
Northern Mariana Islands (DW)	State	IN00035	06-30-24
Ohio	State	87775	06-30-24
Oregon	NELAP	4156	09-16-24
Pennsylvania	NELAP	68-00466	04-30-24
Puerto Rico	State	IN00035	04-01-24
Rhode Island	State	LAO00343	12-30-23
South Carolina	State	95005001	06-30-23 *
South Dakota (DW)	State	IN00035	06-30-24
Tennessee	State	TN02973	06-30-24
Texas	NELAP	T104704187-22-16	12-31-23
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	11-15-23
Virginia	NELAP	460275	03-14-24
Washington	State	C837	01-01-24
West Virginia (DW)	State	9927 C	12-31-23
Wisconsin	State	999766900	08-31-24
Wisconsin (Micro)	State	10121	12-31-23
Wyoming	State	8TMS-L	06-30-23 *

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	01-31-24
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	12-31-23
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	12-31-23
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	04-30-23 *
Texas	NELAP	T104704528	03-31-24

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

Accreditation/Certification Summary

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56722-1

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	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	01-31-24
Wisconsin	State	998027800	08-31-24

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: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56722-1

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

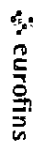
Client: GSI Environmental, Inc
Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-56722-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-56722-1	EP-31	Water	09/06/23 12:05	09/07/23 10:06
860-56722-2	EP-32	Water	09/06/23 08:15	09/07/23 10:06
860-56722-3	EP-33	Water	09/06/23 09:10	09/07/23 10:06
860-56722-4	EP-34	Water	09/06/23 10:30	09/07/23 10:06
860-56722-5	EP-35	Water	09/06/23 11:15	09/07/23 10:06
860-56722-6	EP-36	Water	09/06/23 11:10	09/07/23 10:06
860-56722-7	EP-37	Water	09/06/23 10:30	09/07/23 10:06
860-56722-8	EP-38	Water	09/06/23 08:50	09/07/23 10:06
860-56722-9	MW-4	Water	09/06/23 09:40	09/07/23 10:06
860-56722-10	EB-02	Water	09/06/23 10:00	09/07/23 10:06
860-56722-11	DUP-03	Water	09/06/23 10:00	09/07/23 10:06
860-56722-12	FB-03	Water	09/06/23 11:50	09/07/23 10:06



Chain of Custody Record



Client Information		Sampler: Brian Hillis + Hmi Team		Lab P#: Kudchadkar Sashin G	
Client Contact: Mike Schofield		Phone: 713-653-3127		E-Mail: Sashin.Kudchadkar@Eurofins.com	
Company: GSI Environmental, Inc		PWSID:		Carrier/Tracking No(s): TX	
Address: 9600 Great Hills Trail Suite 350E		Due Date Requested:		State of Origin: TX	
City: Austin		TAT Requested (days):		COC No: 860-36141-220-1	
State, Zip: TX, 78759		Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Page: 1 of 2	
Phone: 512-346-4474(Tel) 512-346-4476(Fax)		PO #:		Job #:	
Email: mschofield@gsi-net.com		WO #:		Preservation Codes: A HCL B NaOH C Zn Acetate D Nitric Add E NaHSO4 F MeOH G Anorbic H Ascorbic Acid I Ice J DI Water K EDTA L EDA M Hexane N None O AsVAcO2 P Na2O4S Q Na2SO3 R Na2S2O3 S H2SO4 T TSP Dodecylhydrate U Acetone V MCAA W PH 4-5 Z other (specify)	
Project Name: San Miguel Electrical Co-Op GW (A-H Pond) SW (Equalization Pond)		Project #: 86001746		Total Number of containers	
Site: SSOW#:		SSOW#:		Special Instructions/Note	

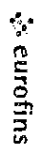
Sample Identification	Sample Date	Sample Time	Sample Type (G=Grab)	Matrix (Residue, Solids, Chemical, or Residue Add)	Field Filtered Sample (Yes or No)	Performance (MSD) (Yes or No)	2320B, Alkalinity	6020A -7470- B, Ca, Sb, As, Ba, Be, Cd, Cr Co, Pb, Li, Mo, Se, Ti; Hg- Eurofins Pittsburg (+ Na, Mg, K)	2540C_TDS	300- Cl, F, SO4	901 1_Ra- Rad 228 Eurofins St Louis	SM7500_Ra_B Rad 226- South Bend IN	Corrected Temp:
EP-31	4-6-23	1205	G	Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Temp: 4.0 IR ID: HOU-36 C/F: 0.0 Corrected Temp: 4.0
EP-32		815		Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Temp: 2.5 IR ID: HOU-36 C/F: 0.0 Corrected Temp: 2.5	
EP-33		910		Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Temp: 2.5 IR ID: HOU-36 C/F: 0.0 Corrected Temp: 2.5	
EP-34		1030		Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Temp: 2.5 IR ID: HOU-36 C/F: 0.0 Corrected Temp: 2.5	
EP-35		1115		Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Temp: 2.5 IR ID: HOU-36 C/F: 0.0 Corrected Temp: 2.5	
EP-36		1110		Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Temp: 2.5 IR ID: HOU-36 C/F: 0.0 Corrected Temp: 2.5	
EP-37		1030		Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Temp: 2.5 IR ID: HOU-36 C/F: 0.0 Corrected Temp: 2.5	
EP-38		850		Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Temp: 2.5 IR ID: HOU-36 C/F: 0.0 Corrected Temp: 2.5	
MW-04		940		Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Temp: 2.5 IR ID: HOU-36 C/F: 0.0 Corrected Temp: 2.5	

Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
<input type="checkbox"/> Non-Hazard	<input type="checkbox"/> Flammable	<input type="checkbox"/> Return To Client	<input type="checkbox"/> Archive For _____ Months
<input type="checkbox"/> Skin Irritant	<input type="checkbox"/> Poison B	<input type="checkbox"/> Unknown	<input type="checkbox"/> Radiological
Deliverable Requested: I, II, III, IV Other (specify)		Special Instructions/QC Requirements: CCR - Appendix III and IV	
Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: Cons Drop off
Relinquished by: <i>[Signature]</i>	Date/Time: 9/17/23	Received by: <i>[Signature]</i>	Date/Time: 9/17/23
Relinquished by: <i>[Signature]</i>	Date/Time: 1006	Received by: <i>[Signature]</i>	Date/Time: 1006
Relinquished by:	Date/Time:	Received by:	Date/Time:
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No.	Receiver by:	Company Temperature(s) °C and Other Remarks:

Eurofins Xenco, Stafford

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

Chain of Custody Record



Environment Testing
Amer 2

Client Information		Sampler: Brian H. Ilin + Hml Team	Lab P/N: Sachin Kudchadkar Sachin G	Carrier Tracking No(s):	COC No: 850-3614-1220_1
Client Contact: Mike Schofield		Phone: 713-653-3127	E-Mail: Sachin.Kudchadkar@Eurofins.com	State of Origin: TX	Page: 2 of 2
Company: GSI Environmental, Inc		PM/SIC:	Job #:		
Address: 9600 Great Hills Trail Suite 350E		Due Date Requested:	Analysis Requested		
City: Austin		TAT Requested (days):	Preservation Codes:		
State, Zip: TX, 78759		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No	A HCl B NaOH C Zn Acetate D Nitric Acid E NaHSO4 F MeOH G Anion H Acetic Acid I Ice J DI Water K EDTA L EDA Other:		
Phone: 512-346-4474(Tel) 512-346-4476(Fax)		PO #:	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)		
Email: mschofield@gsi-net.com		WO #:	Special Instructions/Note		
Project Name: San Miguel Electrical Co-Op GW <i>Fast Ponds #4</i>		Project #: 88001746	Total Number of containers		
Site: <i>Equalization Pond</i>		SSOW#:	Field Filtered Sample (Yes or No)		
			Perchlorate (Yes/No)		
			2320B, Alkalinity		
			6020A-7470- B, Ca, Sb, As, Ba, Be, Cd, Cr Co, Pb, Li, Mo, Se, Ti, Hg- Eurofins Pittsburg (+ Na, Mg, K)		
			2540C_TDS		
			300- Cl, P, SO4		
			901 1_Ra- Rad 228 Eurofins St Louis		
			SM7500_Ra_B Rad 226- South Bend IN		

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Water, Seawater, Other)	Preservation Code	Field Filtered Sample (Yes or No)	Analysis Requested	Preservation Codes
EP-31 MS	9-6-23	1205	G	Water	Y	Y		
EB-02		1000		Water	Y	Y		
DUP-03		1000		Water	Y	Y		
FB-03		1150		Water	Y	Y		

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

Deliverable Requested: I II III IV Other (Specify):

Empty Kit Relinquished by: _____ Date: _____ Time: _____

Relinquished by: *[Signature]* Date/Time: **9/7/23 1006** Company: **Hml**

Relinquished by: _____ Date/Time: _____ Company: _____

Custody Seals Intact: Yes No Custody Seal No. _____

Received by: *[Signature]* Date/Time: **9/7/23 1006** Company: _____

Received by: _____ Date/Time: _____ Company: _____

Cooler Temperature(s) °C and Other Remarks: _____

Special Instructions/QC Requirements: **CCR- Appendix III and IV**

Method of Shipment: **Cons Direct**

Return To Client Disposal By Lab Archive For _____ Months

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

Chain of Custody Record

eurofins
 Apr 3 2019

Client Information
 Client Contact: **Mike Schofield**
 Company: **GSI Environmental, Inc**
 Address: **9800 Great Hills Trail Suite 350E**
 City: **Austin**
 State, Zip: **TX, 78759**
 Phone: **512-346-4474(Tel) 512-346-4476(Fax)**
 Email: **mschofield@gsi.net.com**
 Project Name: **San Miguel Electrical Co-Op GW (AAR Results) SW (Equalization Pond)**
 Project #: **86001746**
 SSSOW#:

Sampler: **Brian Hulin + Hmi Team**
Phone: **713-653-3127**
Lab P/N: **Kudchadkar Sachin G**
E-Mail: **Sachin.Kudchadkar@Eurofins.com**
Carrier/Tracking No(s): **860-36141220.1**
State of Origin: **TX**
Page: **1 of 2**

Due Date Requested:
TAT Requested (days):
Compliance Project: Yes No
PO #:
WQ #:
Project #: **86001746**
SSOW#:
Analysis Requested:

Sample Identification	Sample Date	Sample Time	Sample Type (G=grab)	Matrix (Howler, Small, Openhole, In-Tank, AAR)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2320B, Alkalinity	8020A 7470-B, Ca, Sb, As, Ba, Be, Cd, Cr Co, Pb, Li, Mo, Se, Ti, 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 Bend IN
EP-31	9-6-23	1205	G	Water			N	D	N	N	D	D
EP-32		815		Water								
EP-33		910		Water								
EP-34		1030		Water								
EP-35		1115		Water								
EP-36		1110		Water								
EP-37		1030		Water								
EP-38		850		Water								
MW-04		940		Water								

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

Deliverable Requested: I II, III IV Other (Specify)

Empty Kit Relinquished by: **Date:**

Relinquished by: **Brian Hulin** **Date/Time:** **9/7/23 1006** **Company:** **(HMI)**

Relinquished by: **Date/Time:** **Company:**

Custody Seals Intact: Yes No **Custody Seal No.:**

Special Instructions/Note:
 Total Number of containers:
 Special Instructions/Note:
 Temp: 2.0 IR ID: HOU-36
 C/F: -0.0
 Corrected Temp: 2.0
 Temp: 4.0 IR ID: HOU-36
 C/F: -0.0
 Corrected Temp: 4.0
 Temp: 2.5 IR ID: HOU-36
 C/F: -0.0
 Corrected Temp: 2.5
 Temp: 4.3 IR ID: HOU-36
 C/F: -0.0
 Corrected Temp: 4.3
 Temp: 4.3 IR ID: HOU-36
 C/F: -0.0
 Corrected Temp: 4.3

Sample Disposal (A fee may be assessed if samples are retained): Return To Client Disposal By Lab Archive For Months

Special Instructions/QC Requirements: **cce - Appendix 111 and 112**

Method of Shipment: **Cons Drop off**

Received by: **YCPDS** **Date/Time:** **9/7/23 1006** **Company:**

Received by: **Date/Time:** **Company:**

Received by: **Date/Time:** **Company:**

Received by: **Date/Time:** **Company:**

Received by: **Date/Time:** **Company:**

Received by: **Date/Time:** **Company:**

Received by: **Date/Time:** **Company:**

Eurofins Xenco, Stafford
4747 Greenbriar Dr
Stafford TX 77477
Phone (281) 240-4200

Chain of Custody Record

eurofins
Eurofins North Central
Amer. Co.

Client Information

Client Contact: Mike Schofield
Company: GSI Environmental Inc
Address: 9600 Great Hills Trail Suite 350E
City: Austin
State: TX, Zip: 78759
Phone: 512-346-4474 (Tel) 512-346-4476 (Fax)
Email: mschofield@gsi-net.com
Project Name: San Miguel Electrical Co-Op GW
Site: *(Equalization Pond)*

Sampler: Brian Hillen + Hmi Team
Phone: 713-653-3127
Lab Pmt: Kudchadkar Sachin G
E-Mail: Sachin.Kudchadkar@Eurofins.com

Carrier Tracking No(s):
State of Origin: TX

COC No: 860-3614-1220_1
Page: 2 of 2

Due Date Requested:
TAT Requested (days):

Compliance Project: Yes No
PO #:
WQ #:

Analysis Requested

Preservation Codes:

Sample Identification

Sample ID	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix (Water, Sewage, Other)	Preservation Code
EP-31 MS	9-6-23	1205	G	Water	
EP-31 MSD		1205		Water	
EB-02		1000		Water	
DUP-03		1000		Water	
FB-03		1150		Water	

Field Filtered Sample (Yes or No)	2320B, Alkalinity	6020A 7470-B, Ca, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Th, Hg, Eurofins Pittsburg (+ Na, Mg, K)	2540C_TDS	300-CI, F, SO4	901_1_Ra- Rad 228 Eurofins St Louis	SM7500_Ra_B Rad 226- South Bend IN
Y	Y	Y	Y	Y	Y	Y
Y	Y	Y	Y	Y	Y	Y
Y	Y	Y	Y	Y	Y	Y
Y	Y	Y	Y	Y	Y	Y
Y	Y	Y	Y	Y	Y	Y

Total Number of containers

Special Instructions/Note

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

Deliverable Requested I II III IV Other (Specify)

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

Special Instructions/QC Requirements: **CCR - Appendix III and IV**

Empty Kit Relinquished by:

Date:

Time:

Method of Shipment: **Cons Direct**

Relinquished by: *[Signature]*

Date/Time: 9/7/23 1006

Company: HMI

Received by: *[Signature]*

Relinquished by:

Date/Time:

Company:

Received by: *[Signature]*

Custody Seals Intact Yes No

Custody Seal No.

Received by: *[Signature]*

Received by: *[Signature]*

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

Chain of Custody Record



Environment Testing

Client Information (Sub Contract Lab)		Lab P.M. Kuchhadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-40899.1				
Client Contact Shipping/Receiving		E-Mail: Sachin.Kuchhadkar@et.eurofins.com	State of Origin: Texas	Page: Page 1 of 2				
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 860-56722-1				
Address: 13715 Rider Trail North, City: Earth City, State: MO, Zip: 63045		Due Date Requested: 10/5/2023		Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2OAS Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - PH 4-5 Y - Trizina Z - other (specify)				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		TAT Requested (days):						
Email:		PO #:		Analysis Requested Total Number of Containers:				
WO #:		Project #:						
Project Name: San Miguel Electrical Co-Op 2H23 GW		Project #:		Special Instructions/Note:				
Site:		SSOW#:						
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Soil, On-waste, Oil, etc.)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	904.0/PreSep_0 Standard Target List	Total Number of Containers
EP-31 (860-56722-1)	9/6/23	12:05 Central		Water	X	X		1
EP-31 (860-56722-1MS)	9/6/23	12:05 Central	MS	Water	X	X		1
EP-31 (860-56722-1MSD)	9/6/23	12:05 Central	MSD	Water	X	X		1
EP-32 (860-56722-2)	9/6/23	08:15 Central		Water	X	X		1
EP-33 (860-56722-3)	9/6/23	09:10 Central		Water	X	X		1
EP-34 (860-56722-4)	9/6/23	10:30 Central		Water	X	X		1
EP-35 (860-56722-5)	9/6/23	11:15 Central		Water	X	X		1
EP-36 (860-56722-6)	9/6/23	11:10 Central		Water	X	X		1
EP-37 (860-56722-7)	9/6/23	10:30 Central		Water	X	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/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
 Deliverable Requested: I, II, III, IV, Other (specify): Primary Deliverable Rank: 2
 Special Instructions/QC Requirements:
 Return To Client Disposal By Lab Archive For _____ Months
 Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Relinquished by: *Luella Fedex* Date/Time: 9/7/23
 Relinquished by: *AAA P. Fedex* Date/Time: SEP 08 2023 0830
 Relinquished by: _____ Date/Time: _____
 Custody Seals Intact: _____ 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



Environment Testing

Client Information (Sub Contract Lab)
 Client Contact: Sachin Kudchadkar, Sachin G
 Shipping/Receiving: Sachin.Kudchadkar@st.eurofins.com
 Company: TestAmerica Laboratories, Inc.
 Address: 13715 Rider Trail North, Earth City, MO, 63045
 Phone: 314-298-8556 (Tel) 314-298-8757 (Fax)
 Email: [Redacted]
 Project Name: San Miguel Electrical Co-Op 2H23 GW
 Site: [Redacted]

Sampler: Lab PM: Kudchadkar, Sachin G
Phone: E-Mail: Sachin.Kudchadkar@st.eurofins.com
Shipping/Receiving: Sachin.Kudchadkar@st.eurofins.com
Company: TestAmerica Laboratories, Inc.
Address: 13715 Rider Trail North, Earth City, MO, 63045
Phone: 314-298-8556 (Tel) 314-298-8757 (Fax)
Email: [Redacted]
Project Name: San Miguel Electrical Co-Op 2H23 GW
Site: [Redacted]

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=oil, G=grab)	Preservation Code:	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	904/PreScp_0 Standard Target List	Total Number of Containers	Special Instructions/Note:
EP-38 (860-56722-8)	9/6/23	08:50 Central	Water	Water		X	X		1	
MW-4 (860-56722-9)	9/6/23	09:40 Central	Water	Water		X	X		1	
EB-02 (860-56722-10)	9/6/23	10:00 Central	Water	Water		X	X		1	
DUP-03 (860-56722-11)	9/6/23	10:00 Central	Water	Water		X	X		1	
FB-03 (860-56722-12)	9/6/23	11:50 Central	Water	Water		X	X		1	

Analysis Requested: M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - NCA, W - pH 4.5, Y - Trizma, Z - other (specify)
 Other: [Redacted]

Due Date Requested: 10/5/2023
TAT Requested (days): [Redacted]
Project #: 86001746
SSOW#: [Redacted]

Carrier Tracking No(s): 860-40899.2
State of Origin: Texas
Job #: 360-56722-1
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, Other: [Redacted]

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months
Special Instructions/QC Requirements: [Redacted]

Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2
Empty Kit Relinquished by: [Redacted] Date: 9/7/23
Relinquished by: [Redacted] Date: 9/7/23
Relinquished by: [Redacted] Date: 9/7/23
Custody Seals Intact: Δ Yes Δ No
Custody Seal No.: [Redacted]
Cooler Temperature(s) °C and Other Remarks: [Redacted]

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

Chain of Custody Record

Eurofins | Environment Testing

Client Information (Sub Contract Lab)
 Shipping/Receiving
 Company: Eurofins Environment Testing Northeast,
 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: Lab PM
 Kuchhadkar, Sachin G
 E-Mail: Sachin.Kuchhadkar@et.euroc
 Phone: Sachin.Kuchhadkar@et.euroc
 Accreditations Required (See NELAP - Texas)

Job #: 860-56722-1
 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
 Other:
 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)

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (ie-water, Soil, G-Water, etc)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020A/3005A (MOD) Custom List	7470A/7470A Prep	Analysis Requested	Total Number of Containers	Special Instructions/Note:
EP-31 (860-56722-1)	9/6/23	12:05 Central	Water	Water	X	X	X	X		1	Please analyze at the lowest possible dilution
EP-31 (860-56722-1MS)	9/6/23	12:05 Central	MS	Water	X	X	X	X		1	Please analyze at the lowest possible dilution
EP-31 (860-56722-1MSD)	9/6/23	12:05 Central	MSD	Water	X	X	X	X		1	Please analyze at the lowest possible dilution
EP-32 (860-56722-2)	9/6/23	08:15 Central	Water	Water	X	X	X	X		1	Please analyze at the lowest possible dilution
EP-33 (860-56722-3)	9/6/23	09:10 Central	Water	Water	X	X	X	X		1	Please analyze at the lowest possible dilution
EP-34 (860-56722-4)	9/6/23	10:30 Central	Water	Water	X	X	X	X		1	Please analyze at the lowest possible dilution
EP-35 (860-56722-5)	9/6/23	11:15 Central	Water	Water	X	X	X	X		1	Please analyze at the lowest possible dilution
EP-36 (860-56722-6)	9/6/23	11:10 Central	Water	Water	X	X	X	X		1	Please analyze at the lowest possible dilution
EP-37 (860-56722-7)	9/6/23	10:30 Central	Water	Water	X	X	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/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
 Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2
 Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: _____ Date/Time: 9-7-23 14:40
 Relinquished by: _____ Date/Time: _____
 Relinquished by: _____ Date/Time: _____

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months
 Special Instructions/QC Requirements:
 Date/Time: 9/8/23 0900
 Received by: [Signature]
 Date/Time: _____
 Received by: _____
 Date/Time: _____
 Cooler Temperature(s) °C and Other Remarks

Chain of Custody Record

Client Information (Sub Contract Lab)		Lab P/N	Carrier Tracking No(s)	COC No						
Client Contact: Kuchhadkar, Sachin G		E-Mail: Kuchhadkar, Sachin G	State of Origin: Texas	860-40790.2						
Shipping/Receiving		Phone: Sachin.Kuchhadkar@et.eurofins.us.com	Page 2 of 2							
Company: Eurofins Environment Testing Northeast, 301 Alpha Drive, RIDC Park, Pittsborough, NC 27638		Accreditations Required (See note): NELAP - Texas	Job #:	860-56722-1						
Address: 412-963-7058(Tel) 412-963-2468(Fax)		Due Date Requested: 10/2/2023	Preservation Codes:							
City: Pittsborough		TAT Requested (days):	M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 X - Trizma Y - EDTA Z - other (specify)							
State, Zip: PA, 15238		PO #:	Other:							
Phone: 412-963-7058(Tel) 412-963-2468(Fax)		WO #:								
Email:		Project #:								
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 (Micro, Swab, On-site, Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Analysis Requested	Total Number of Containers	Special Instructions/Note:
EP-38 (860-56722-8)	9/6/23	08:50 Central	Water	X	X	6020/3005A (MOD) Custom List	7470/17470A_Prep		1	Please analyze at the lowest possible dilution
MW-4 (860-56722-9)	9/6/23	09:40 Central	Water	X	X				1	Please analyze at the lowest possible dilution
EB-02 (860-56722-10)	9/6/23	10:00 Central	Water	X	X				1	Please analyze at the lowest possible dilution
DUP-03 (860-56722-11)	9/6/23	10:00 Central	Water	X	X				1	Please analyze at the lowest possible dilution
FB-03 (860-56722-12)	9/6/23	11:50 Central	Water	X	X				1	Please analyze at the lowest possible dilution
<p>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/test/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</p>										
Possible Hazard Identification										
Unconfirmed										
Deliverable Requested: I, II, III, IV, Other (specify) _____										
Empty Kit Relinquished by: _____ Date: _____ Time: _____										
Relinquished by: _____ Date/Time: 9-7-23 14:40										
Relinquished by: _____ Date/Time: _____										
Relinquished by: _____ Date/Time: _____										
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No										
Custody Seal No.: _____ Cooler Temperature(s) °C and Other Remarks										
<p>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</p> <p><input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months</p> <p>Special Instructions/QC Requirements: _____</p>										
<p>Method of Shipment: _____</p> <p>Received by: <i>A. Ryan</i> Date/Time: 9/8/23 0900</p> <p>Received by: _____ Date/Time: _____</p> <p>Received by: _____ Date/Time: _____</p> <p>Company: <i>EPHANE</i></p>										



Eurofins Houston

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

Chain of Custody Record



Environment Testing

Client Information (Sub Contract Lab)		Sampler:	Lab PM:	Carrier Tracking No(s):	COC No:
Client Contact: Eurofins Eaton Analytical		Phone:	Kudhadrakar, Sachin G	860-40837.1	860-40837.1
Shipping/Receiving:		E-Mail:	Sachin.Kudhadrakar@etl.eurofinsus.com	State of Origin:	Page: Page 1 of 2
Company: Eurofins Eaton Analytical		Accreditations Required (See note):	NELAP - Texas	Job #:	860-56722-1
Address: 110 S Hill Street,		Due Date Requested:	10/5/2023	Preservation Codes:	
City: South Bend		TAT Requested (day(s)):		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 - EDTA M - Hexane N - Nore O - Acetone P - Me2CO Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4.5 Y - Trizma Z - other (specify)	
State Z/c: IN, 46617		PO #:		Other:	
Phone: 574-233-4777(Tel) 574-233-8207(Fax)		MO #:			
Email:		Project #:	86001746		
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 (In-water, Sessile, Overwater, Acid)	Preservation Code:	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Analysis Requested	Total Number of containers	Special Instructions/Note:
EP-31 (860-56722-1)	9/6/23	12:05	Central	Water		X			2	PH22
EP-31 (860-56722-1MS)	9/6/23	12:05	Central	Water		X			2	
EP-31 (860-56722-1MSD)	9/6/23	12:05	Central	Water	MSD	X			2	
EP-32 (860-56722-2)	9/6/23	08:15	Central	Water		X			2	
EP-33 (860-56722-3)	9/6/23	09:10	Central	Water		X			2	
EP-34 (860-56722-4)	9/6/23	10:30	Central	Water		X			2	Client Provided Sample Container
EP-35 (860-56722-5)	9/6/23	11:15	Central	Water		X			2	
EP-36 (860-56722-6)	9/6/23	11:10	Central	Water		X			2	
EP-37 (860-56722-7)	9/6/23	10:30	Central	Water		X			2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyze & 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/test/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

Deliverable Requested: I, II, III, IV, Other (specify) _____ Primary Deliverable Rank: 2

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For _____ Months

Special Instructions/QC Requirements: _____

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: <i>[Signature]</i>	9/9/23		
Relinquished by:	Date/Time:	Company:	
Relinquished by:	Date/Time:	Company:	
Relinquished by:	Date/Time:	Company:	

Custody Seals Intact: Yes No Custody Seal No.: _____

Cooler Temperature(s) °C and Other Remarks: *AMB:INT*

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

11/20/23

11/21/23

11/21/23

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

low

4/2/53

Login Sample Receipt Checklist

Client: GSI Environmental, Inc

Job Number: 860-56722-1

Login Number: 56722

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: 860-56722-1

Login Number: 56722

List Number: 3

Creator: Pehling-Wright, Penny

List Source: Eurofins Eaton Analytical South Bend

List Creation: 09/08/23 02:47 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.	False	Thermal preservation not required.
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: 860-56722-1

Login Number: 56722

List Number: 4

Creator: Watson, Debbie

List Source: Eurofins Pittsburgh

List Creation: 09/08/23 06:45 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: 860-56722-1

Login Number: 56722

List Number: 2

Creator: Pinette, Meadow L

List Source: Eurofins St. Louis

List Creation: 09/08/23 12:55 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?	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	



DATA USABILITY SUMMARY

December 2023 Sampling Event (Job ID: 860-62261-1)

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 27 November 2023** 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: T104704215-23-53) for the matrices, analytes, and methods of analysis requested on the chain-of-custody documentation. A copy of EET HOU NELAP certificate 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[MS])
- 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

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 and based on the laboratory's standard operating procedure:

Analytes	LCS/LCSD	
	% R	RPD
Metals	80 – 120	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-03 and SP-32 by Method 6020A were diluted (500x) to bring the concentration of target analytes within the calibration range. Elevated RLs are provided.

Finding: No qualifiers were added per these criteria.

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 Method Blanks results did not exceed the MDLs for any analytes and are within the project-defined QC acceptance criteria.

Finding: No qualifiers were added per this evaluation.

Field Blanks

Not applicable.

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

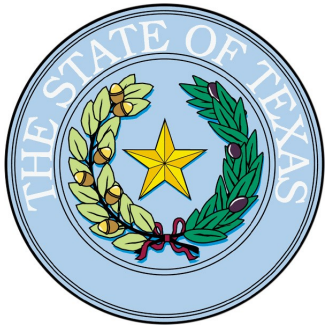
Sample Date	Lab	Lab Sample ID	Field Sample ID	Matrix
11/27/2023	EET HOU	860-62261-1	SP-34	Water
11/27/2023	EET HOU	860-62261-2	SP-03	Water
11/27/2023	EET HOU	860-62261-3	SP-32	Water

Notes:

1. EET HOU: Eurofins Houston, Stafford, Texas

Attachment A

TCEQ NELAP-Recognized Laboratory Accreditation Certificates



Texas Commission on Environmental Quality

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

A handwritten signature in black ink that reads "Erin E. Chamallo".

**Executive Director Texas Commission on
Environmental Quality**

Attachment B

Eurofins Houston – Stafford, Texas

Analytical Report

Job ID.: 860-62261-1

ANALYTICAL REPORT

PREPARED FOR

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

Generated 12/6/2023 10:52:08 AM

JOB DESCRIPTION

San Miguel Electrical Co-Op 2H23 GW

JOB NUMBER

860-62261-1

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
12/6/2023 10:52:08 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
Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-62261-1

Qualifiers

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

Case Narrative

Client: GSI Environmental Inc
Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-62261-1

Job ID: 860-62261-1

Laboratory: Eurofins Houston

Narrative

Job Narrative 860-62261-1

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 11/28/2023 9:25 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 0.9°C

Metals

Method 6020A: The following samples were diluted to bring the concentration of target analytes within the calibration range: SP-03 (860-62261-2) and SP-32 (860-62261-3). 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.

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
Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-62261-1

Client Sample ID: SP-34

Lab Sample ID: 860-62261-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	8980		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SP-03

Lab Sample ID: 860-62261-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	970		50.0	15.0	mg/L	500		6020A	Total/NA

Client Sample ID: SP-32

Lab Sample ID: 860-62261-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	11.4		5.00	2.00	mg/L	500		6020A	Total/NA
Calcium	569		50.0	15.0	mg/L	500		6020A	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Houston

Client Sample Results

Client: GSI Environmental Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-62261-1

Client Sample ID: SP-34
 Date Collected: 11/27/23 11:15
 Date Received: 11/28/23 09:25

Lab Sample ID: 860-62261-1
 Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	8980		100	100	mg/L			11/30/23 10:59	1

Client Sample ID: SP-03
 Date Collected: 11/27/23 10:00
 Date Received: 11/28/23 09:25

Lab Sample ID: 860-62261-2
 Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	970		50.0	15.0	mg/L		12/04/23 10:00	12/05/23 17:53	500

Client Sample ID: SP-32
 Date Collected: 11/27/23 10:45
 Date Received: 11/28/23 09:25

Lab Sample ID: 860-62261-3
 Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	11.4		5.00	2.00	mg/L		12/04/23 10:00	12/05/23 17:55	500
Calcium	569		50.0	15.0	mg/L		12/04/23 10:00	12/05/23 17:55	500

QC Sample Results

Client: GSI Environmental Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-62261-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 860-133554/1-A
Matrix: Water
Analysis Batch: 133881

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 133554

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.00401	U	0.0100	0.00401	mg/L		12/04/23 10:00	12/05/23 17:39	1
Calcium	0.0301	U	0.100	0.0301	mg/L		12/04/23 10:00	12/05/23 17:39	1

Lab Sample ID: LCS 860-133554/2-A
Matrix: Water
Analysis Batch: 133881

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 133554

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	0.100	0.09835		mg/L		98	80 - 120
Calcium	2.50	2.714		mg/L		109	80 - 120

Lab Sample ID: LCSD 860-133554/3-A
Matrix: Water
Analysis Batch: 133881

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 133554

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	0.100	0.1001		mg/L		100	80 - 120	2	20
Calcium	2.50	2.773		mg/L		111	80 - 120	2	20

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

Lab Sample ID: MB 860-133127/1
Matrix: Water
Analysis Batch: 133127

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			11/30/23 10:59	1

Lab Sample ID: LCS 860-133127/2
Matrix: Water
Analysis Batch: 133127

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	1005		mg/L		101	80 - 120

Lab Sample ID: LCSD 860-133127/3
Matrix: Water
Analysis Batch: 133127

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	1002		mg/L		100	80 - 120	0	10

Lab Sample ID: 860-62261-1 DU
Matrix: Water
Analysis Batch: 133127

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	8980		8890		mg/L		1	10

Eurofins Houston

QC Association Summary

Client: GSI Environmental Inc
Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-62261-1

Metals

Prep Batch: 133554

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-62261-2	SP-03	Total/NA	Water	3010A	
860-62261-3	SP-32	Total/NA	Water	3010A	
MB 860-133554/1-A	Method Blank	Total/NA	Water	3010A	
LCS 860-133554/2-A	Lab Control Sample	Total/NA	Water	3010A	
LCSD 860-133554/3-A	Lab Control Sample Dup	Total/NA	Water	3010A	

Analysis Batch: 133881

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-62261-2	SP-03	Total/NA	Water	6020A	133554
860-62261-3	SP-32	Total/NA	Water	6020A	133554
MB 860-133554/1-A	Method Blank	Total/NA	Water	6020A	133554
LCS 860-133554/2-A	Lab Control Sample	Total/NA	Water	6020A	133554
LCSD 860-133554/3-A	Lab Control Sample Dup	Total/NA	Water	6020A	133554

General Chemistry

Analysis Batch: 133127

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-62261-1	SP-34	Total/NA	Water	SM 2540C	
MB 860-133127/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-133127/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-133127/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
860-62261-1 DU	SP-34	Total/NA	Water	SM 2540C	

Lab Chronicle

Client: GSI Environmental Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-62261-1

Client Sample ID: SP-34

Lab Sample ID: 860-62261-1

Date Collected: 11/27/23 11:15

Matrix: Water

Date Received: 11/28/23 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	133127	11/30/23 10:59	SA	EET HOU

Client Sample ID: SP-03

Lab Sample ID: 860-62261-2

Date Collected: 11/27/23 10:00

Matrix: Water

Date Received: 11/28/23 09:25

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	133554	12/04/23 10:00	MD	EET HOU
Total/NA	Analysis	6020A		500			133881	12/05/23 17:53	SHZ	EET HOU

Client Sample ID: SP-32

Lab Sample ID: 860-62261-3

Date Collected: 11/27/23 10:45

Matrix: Water

Date Received: 11/28/23 09:25

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	133554	12/04/23 10:00	MD	EET HOU
Total/NA	Analysis	6020A		500			133881	12/05/23 17:55	SHZ	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
Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-62261-1

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	T104704215-23-53	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
Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-62261-1

Method	Method Description	Protocol	Laboratory
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:

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
Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-62261-1

<u>Lab Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Collected</u>	<u>Received</u>
860-62261-1	SP-34	Water	11/27/23 11:15	11/28/23 09:25
860-62261-2	SP-03	Water	11/27/23 10:00	11/28/23 09:25
860-62261-3	SP-32	Water	11/27/23 10:45	11/28/23 09:25

- 1
- 2
- 3
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- 9
- 10
- 11
- 12
- 13
- 14

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

Chain of Custody Record

eurofins

Client Information
 Client Contact: Mike Schroffeld
 Company: GSI Environmental Inc
 Address: 9600 Great Hills Trail Suite 350E
 City: Austin
 State, Zip: TX, 78759
 Phone: 512-346-4474(Tel) 512-346-4476(Fax)
 Email: mschroffeld@gsi-net.com
 Project Name: San Miguel Electrical Co-Op GW (Ltd Resample 4923)
 Site: S50W#:
 Project #: 86001746
 S50W#:
 Sampler: Brian Hallio + HMJ Teama
 Phone: 713-653-3127
 Lab Pw: Kuchchadkar Sachin G
 Email: Sachin.Kuchchadkar@Eurofins.com
 Carrier Tracking No(s):
 State of Origin: TX
 COC No: 860-3614-1220-1
 Page: 1 of 1
 Job #:

Analysis Requested
 Due Date Requested:
 TAT Requested (day/s):
 Compliance Project: Yes No
 PO #:
 IVO #:
 Field Filtered Sample (Yes or No)
 Perform MS/MSD (Yes or No)
 6020A Ca only
 6020A -B, Ca Eurofins Pittsburg
 2540C_TDS
 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 AsH2O2
 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 (Neutr, Swell, Oxidant, Br-Treat, As/Al)	Preservation Code	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Total Number of containers	Special Instructions/Note
SP-34	11-27-23	1115	G	Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
SP-03		1000	G	Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
SP-32		1045	G	Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
				Water					
				Water					
				Water					
				Water					
				Water					
				Water					
				Water					



860-62261 Chain of Custody

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological
 Deliverable Requested: I, II, III, IV Other (specify):
 Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: _____ Date/Time: 11/27/23 1400 Company: HMI
 Relinquished by: Wdu _____ Date/Time: _____ Company: _____
 Relinquished by: _____ Date/Time: _____ Company: _____
 Custody Seals Intact: Yes No Custody Seal No.: _____
 Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months
 Special Instructions/QC Requirements:
 Temp: 09 IR ID HOU-369
 C/F: 00
 Corrected Temp: 09

Method of Shipment: _____
 Received by: Wdu _____ Date/Time: 11/27/23 1400 Company: HMI
 Received by: Wdu _____ Date/Time: 11/27/23 9:25 Company: _____
 Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: GSI Environmental Inc

Job Number: 860-62261-1

Login Number: 62261

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	



DATA USABILITY SUMMARY

December 2023 Sampling Event (Job ID: 860-63878-1)

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 at the Ash Pile on 18 December 2023** 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: T104704215-23-53) for the matrices, analytes, and methods of analysis requested on the chain-of-custody documentation. A copy of EET HOU NELAP certificate 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[MS])

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 and based on the laboratory's standard operating procedure:

Analytes	LCS/LCSD	
	% 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 and SP-32 by Method 6020A were diluted (1000x and 100x) to bring the concentration of target analytes within the calibration range. Elevated RLs are provided.

Finding: No qualifiers were added per these criteria.

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 Method Blanks results did not exceed the MDLs for any analytes and are within the project-defined QC acceptance criteria.

Finding: No qualifiers were added per this evaluation.

Field Blanks

Not applicable.

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

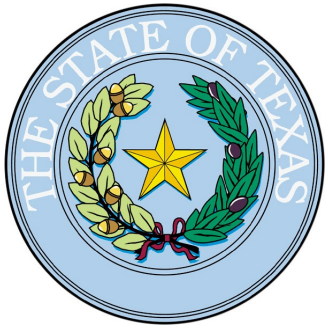
Sample Date	Lab	Lab Sample ID	Field Sample ID	Matrix
12/18/2023	EET HOU	860-63878-1	SP-03	Water
12/18/2023	EET HOU	860-63878-2	SP-32	Water

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

A handwritten signature in black ink that reads "Erin E. Chamallo".

**Executive Director Texas Commission on
Environmental Quality**

Attachment B

Eurofins Houston – Stafford, Texas

Analytical Report

Job ID.: 860-63878-1

ANALYTICAL REPORT

PREPARED FOR

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

Generated 1/10/2024 3:28:10 PM Revision 1

JOB DESCRIPTION

San Miguel Electrical Co-Op 2H23 GW

JOB NUMBER

860-63878-1

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
1/10/2024 3:28:10 PM
Revision 1

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: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-63878-1

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.
α	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

Case Narrative

Client: GSI Environmental Inc
Project: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-63878-1

Job ID: 860-63878-1

Eurofins Houston

Job Narrative 860-63878-1

Revision

The report being provided is a revision of the original report sent on 12/22/2023. The report (revision 1) is being revised due to: MS/MSD not applicable for 6020 due to high concentration in the sample..

Receipt

The samples were received on 12/19/2023 8:57 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 was 3.9° C.

Receipt Exceptions

QC linkage reassigned for 6020

Metals

Methods 6020A, 6020B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 860-135868 and analytical batch 860-136057 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Methods 6020A, 6020B: The following sample was diluted to bring the concentration of target analytes within the calibration range: SP-32 (860-63878-2). Elevated reporting limits (RLs) are provided.

Methods 6020A, 6020B: The following samples were diluted to bring the concentration of target analytes within the calibration range: SP-03 (860-63878-1) and SP-32 (860-63878-2). Elevated reporting limits (RLs) are provided.

Method 6020A: The following sample was diluted to bring the concentration of target analytes within the calibration range: SP-32 (860-63878-2). Elevated reporting limits (RLs) are provided.

Method 6020A: Due to the high concentration of Calcium, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 860-135868 and analytical batch 860-136258 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Method 6020A: Due to the high concentration of Boron, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 860-135868 and analytical batch 860-136435 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

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

Eurofins Houston

Detection Summary

Client: GSI Environmental Inc
Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-63878-1

Client Sample ID: SP-03

Lab Sample ID: 860-63878-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	953		100	30.1	mg/L	1000		6020A	Total/NA

Client Sample ID: SP-32

Lab Sample ID: 860-63878-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	9.58		1.00	0.401	mg/L	100		6020A	Total/NA
Calcium	756		10.0	3.01	mg/L	100		6020A	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Houston

Client Sample Results

Client: GSI Environmental Inc
Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-63878-1

Client Sample ID: SP-03

Date Collected: 12/18/23 11:35

Date Received: 12/19/23 08:57

Lab Sample ID: 860-63878-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	953		100	30.1	mg/L		12/19/23 12:30	12/20/23 15:18	1000

Client Sample ID: SP-32

Date Collected: 12/18/23 12:15

Date Received: 12/19/23 08:57

Lab Sample ID: 860-63878-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	9.58		1.00	0.401	mg/L		12/19/23 12:30	12/21/23 12:53	100
Calcium	756		10.0	3.01	mg/L		12/19/23 12:30	12/20/23 15:16	100

QC Sample Results

Client: GSI Environmental Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-63878-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 860-135868/1-A
Matrix: Water
Analysis Batch: 136057

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 135868

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	0.0301	U	0.100	0.0301	mg/L		12/19/23 12:30	12/19/23 21:43	1

Lab Sample ID: MB 860-135868/1-A
Matrix: Water
Analysis Batch: 136258

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 135868

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	0.0301	U	0.100	0.0301	mg/L		12/19/23 12:30	12/20/23 15:02	1

Lab Sample ID: MB 860-135868/1-A
Matrix: Water
Analysis Batch: 136435

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 135868

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.00401	U	0.0100	0.00401	mg/L		12/19/23 12:30	12/21/23 12:28	1

Lab Sample ID: LCS 860-135868/2-A
Matrix: Water
Analysis Batch: 136057

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 135868

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	2.50	2.691		mg/L		108	80 - 120

Lab Sample ID: LCS 860-135868/2-A
Matrix: Water
Analysis Batch: 136258

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 135868

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	2.50	2.699		mg/L		108	80 - 120

Lab Sample ID: LCS 860-135868/2-A
Matrix: Water
Analysis Batch: 136435

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 135868

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	0.100	0.08918		mg/L		89	80 - 120

Lab Sample ID: LCSD 860-135868/3-A
Matrix: Water
Analysis Batch: 136057

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 135868

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	2.50	2.706		mg/L		108	80 - 120	1	20

Lab Sample ID: LCSD 860-135868/3-A
Matrix: Water
Analysis Batch: 136258

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 135868

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	2.50	2.620		mg/L		105	80 - 120	3	20

Eurofins Houston

QC Sample Results

Client: GSI Environmental Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-63878-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCSD 860-135868/3-A
Matrix: Water
Analysis Batch: 136435

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 135868

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	
							Limits	RPD	Limit	RPD
Boron	0.100	0.09153		mg/L		92	80 - 120	3	20	

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QC Association Summary

Client: GSI Environmental Inc
Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-63878-1

Metals

Prep Batch: 135868

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-63878-1	SP-03	Total/NA	Water	3010A	
860-63878-2	SP-32	Total/NA	Water	3010A	
MB 860-135868/1-A	Method Blank	Total/NA	Water	3010A	
LCS 860-135868/2-A	Lab Control Sample	Total/NA	Water	3010A	
LCSD 860-135868/3-A	Lab Control Sample Dup	Total/NA	Water	3010A	

Analysis Batch: 136057

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-135868/1-A	Method Blank	Total/NA	Water	6020A	135868
LCS 860-135868/2-A	Lab Control Sample	Total/NA	Water	6020A	135868
LCSD 860-135868/3-A	Lab Control Sample Dup	Total/NA	Water	6020A	135868

Analysis Batch: 136258

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-63878-1	SP-03	Total/NA	Water	6020A	135868
860-63878-2	SP-32	Total/NA	Water	6020A	135868
MB 860-135868/1-A	Method Blank	Total/NA	Water	6020A	135868
LCS 860-135868/2-A	Lab Control Sample	Total/NA	Water	6020A	135868
LCSD 860-135868/3-A	Lab Control Sample Dup	Total/NA	Water	6020A	135868

Analysis Batch: 136435

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-63878-2	SP-32	Total/NA	Water	6020A	135868
MB 860-135868/1-A	Method Blank	Total/NA	Water	6020A	135868
LCS 860-135868/2-A	Lab Control Sample	Total/NA	Water	6020A	135868
LCSD 860-135868/3-A	Lab Control Sample Dup	Total/NA	Water	6020A	135868

Lab Chronicle

Client: GSI Environmental Inc
 Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-63878-1

Client Sample ID: SP-03

Lab Sample ID: 860-63878-1

Date Collected: 12/18/23 11:35

Matrix: Water

Date Received: 12/19/23 08:57

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	135868	12/19/23 12:30	MD	EET HOU
Total/NA	Analysis	6020A		1000			136258	12/20/23 15:18	DP	EET HOU

Client Sample ID: SP-32

Lab Sample ID: 860-63878-2

Date Collected: 12/18/23 12:15

Matrix: Water

Date Received: 12/19/23 08:57

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	135868	12/19/23 12:30	MD	EET HOU
Total/NA	Analysis	6020A		100			136258	12/20/23 15:16	DP	EET HOU
Total/NA	Prep	3010A			50 mL	50 mL	135868	12/19/23 12:30	MD	EET HOU
Total/NA	Analysis	6020A		100			136435	12/21/23 12:53	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
Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-63878-1

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	T104704215-23-53	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

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Method Summary

Client: GSI Environmental Inc
Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-63878-1

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
Project/Site: San Miguel Electrical Co-Op 2H23 GW

Job ID: 860-63878-1

<u>Lab Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Collected</u>	<u>Received</u>
860-63878-1	SP-03	Water	12/18/23 11:35	12/19/23 08:57
860-63878-2	SP-32	Water	12/18/23 12:15	12/19/23 08:57

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Chain of Custody Record

eurofins Houston
 4145 Greenbriar Dr
 Stafford, TX 77477
 Phone (281) 240-4200

Client Information Client Contact: Brian Hillin and HMI Team Phone: 713-653-3127 (cell) E-Mail: Sachin.Kudchadkar@Eurofins.net Company: GSI Environmental, Inc		Lab Pkt: Kudchadkar Sachin G Carrier Tracking No(s): Page: Page 1 of 1 Job #:				
Due Date Requested: TAT Requested (days): 48 Hour TAT PO #: WO #: Project #: 86001746 SSO#:						
Address: 9600 Great Hills Trail Suite 350E City: Austin State, Zip: TX, 78759 Phone: 512-346-4474(Tel) 512-346-4476(Fax) Email: mischofield@gsi-net.com Project Name: San Miguel Electrical Co-Op GW (Dec 23 Resample) Site:						
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Solid, Organic)	Field Filtered Sample (Yes or No)	Analysis Requested
SP-03	12-18-23	1135	G Water	Water	<input checked="" type="checkbox"/>	6020A Calcium 6020A Boron
SP-32	↓	1215	G Water	Water	<input checked="" type="checkbox"/>	
Preservation Codes: A HCL M Hexane B NaOH N None C Zn Acetate O As/NaO2 D Nitric Acid P Na2O4S E NH4SO4 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-LS L EDA Z other (specify) Other:						
Special Instructions/Note: Total Number of containers: 1 860-63878 Chain of Custody Temp. 3.9R ID HOU-369 C/F -0.0 Corrected Temp. 3.9						
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV Other (specify)				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Retention For _____ Months		
Empty Kit Relinquished by: Relinquished by: <i>[Signature]</i> Date/Time: 12/19/23 857 Company: HMI Company				Method of Shipment: Date/Time: 12/19/23 857 Company: Company		
Relinquished by: Date/Time: _____ Company: _____				Date/Time: _____ Company: _____		
Relinquished by: Date/Time: _____ Company: _____				Date/Time: _____ Company: _____		
Custody Seals Intact: A Yes Δ No				Cooler Temperature(s) °C and Other Remarks:		

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Login Sample Receipt Checklist

Client: GSI Environmental Inc

Job Number: 860-63878-1

Login Number: 63878

List Number: 2

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	



2023 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

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

Appendix B.3 Laboratory NELAP Accreditation
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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 14, 2023

Mr. David Krause
Eurofins Houston
4147 - 4147 Greenbriar Drive
Stafford, TX 77477

Subject: Texas NELAP accreditation update

Dear Mr. Krause:

Based on the method code update request submitted on Mar 03, 2023, I am enclosing an updated NELAP accreditation certificate and Fields of Accreditation listing. They replace the previous ones issued on February 03, 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.

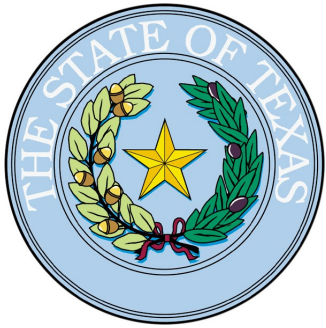
In the meantime, please contact me at frank.jamison@tceq.texas.gov if I can provide any additional information or assistance.

Sincerely,

A handwritten signature in blue ink, appearing to read "Frank Jamison".

Frank Jamison
Data and Records Specialist

Enclosures



Texas Commission on Environmental Quality

NELAP-Recognized Laboratory Accreditation is hereby awarded to



Eurofins Houston
4141-4147 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: T104704215-23-50
Effective Date: 3/14/2023
Expiration Date: 6/30/2023

A handwritten signature in black ink that reads "Erin E. Chamalor".

**Executive Director Texas Commission on
Environmental Quality**



Texas Commission on Environmental Quality



NELAP - Recognized Laboratory Fields of Accreditation

Eurofins Houston
 4141-4147 Greenbriar Dr.
 Stafford, TX 77477

Certificate: T104704215-23-50
Expiration Date: 6/30/2023
Issue Date: 3/14/2023

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: *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 SiO ₂	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
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Texas Commission on Environmental Quality



NELAP - Recognized Laboratory Fields of Accreditation

Eurofins Houston
4141-4147 Greenbriar Dr.
Stafford, TX 77477

Certificate: T104704215-23-50
Expiration Date: 6/30/2023
Issue Date: 3/14/2023

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: *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
Chlorite	TX	1595	10053200
Fluoride	TX	1730	10053200
Nitrate as N	TX	1810	10053200
Nitrite as N	TX	1840	10053200
Sulfate	TX	2000	10053200

Method EPA 300.0 B

Analyte	AB	Analyte ID	Method ID
Chlorate	TX	1570	10275408



Texas Commission on Environmental Quality



NELAP - Recognized Laboratory Fields of Accreditation

Eurofins Houston
4141-4147 Greenbriar Dr.
Stafford, TX 77477

Certificate: T104704215-23-50
Expiration Date: 6/30/2023
Issue Date: 3/14/2023

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: *Drinking Water*

Method EPA 335.4			
Analyte	AB	Analyte ID	Method ID
Total cyanide	TX	1645	10061402
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



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Matrix: *Non-Potable Water*

Method	AB	Analyte ID	Method ID
Method EPA 1010			
Analyte Ignitability	TX	1780	10234830
Method EPA 1311			
Analyte TCLP	TX	849	10118806
Method EPA 1312			
Analyte SPLP	TX	850	10119003
Method EPA 160.4			
Analyte Residue-volatile	TX	1970	10010409
Method EPA 1664			
Analyte 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 Turbidity	TX	2055	10011606
Method EPA 200.7			
Analyte 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



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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



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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
Orthophosphate as P	TX	1870	10053200
Sulfate	TX	2000	10053200



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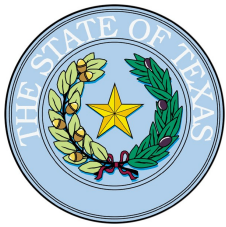
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Matrix: *Non-Potable Water*

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



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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 SiO ₂	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-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
Anthracene	TX	5555	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
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



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Matrix: *Non-Potable Water*

Dibenz(a,h) anthracene	TX	5895	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
Fluoranthene	TX	6265	10300024
Fluorene	TX	6270	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

Method EPA 632

Analyte	AB	Analyte ID	Method ID
Carbaryl (Sevin)	TX	7195	10108608

Method EPA 7196

Analyte	AB	Analyte ID	Method ID
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Matrix: Non-Potable Water

Chromium (VI)	TX	1045	10162400
Method EPA 7470			
Analyte	AB	Analyte ID	Method ID
Mercury	TX	1095	10165807
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



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Matrix: Non-Potable Water

beta-BHC (beta-Hexachlorocyclohexane)	TX	7115	10178811
Chlordane (tech.)	TX	7250	10178811
delta-BHC (delta-Hexachlorocyclohexane)	TX	7105	10178811
Dicofol (Kelthane)	TX	7460	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
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



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Matrix: Non-Potable Water

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
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



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Matrix: *Non-Potable Water*

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
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



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Matrix: *Non-Potable Water*

Acetonitrile	TX	4320	10307127
Acrolein (Propenal)	TX	4325	10307127
Acrylonitrile	TX	4340	10307127
Allyl chloride (3-Chloropropene)	TX	4355	10307127
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



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Matrix: *Non-Potable Water*

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
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



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Matrix: Non-Potable Water

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

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



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Matrix: Non-Potable Water

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-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-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



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Matrix: Non-Potable Water

Acetophenone	TX	5510	10242543
Aniline	TX	5545	10242543
Anthracene	TX	5555	10242543
Atrazine	TX	7065	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
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
Carbaryl (Sevin)	TX	7195	10242543
Carbazole	TX	5680	10242543
Chlorobenzilate	TX	7260	10242543
Chrysene	TX	5855	10242543
Diallate	TX	7405	10242543
Dibenz(a,h) anthracene	TX	5895	10242543
Dibenzofuran	TX	5905	10242543
Diethyl phthalate	TX	6070	10242543
Dimethoate	TX	7475	10242543
Dimethyl phthalate	TX	6135	10242543
Di-n-butyl phthalate	TX	5925	10242543



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Matrix: Non-Potable Water

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
Ethyl methanesulfonate	TX	6260	10242543
Famphur	TX	7580	10242543
Fluoranthene	TX	6265	10242543
Fluorene	TX	6270	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
Methapyrilene	TX	6345	10242543
Methyl methanesulfonate	TX	6375	10242543
Methyl parathion (Parathion, methyl)	TX	7825	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



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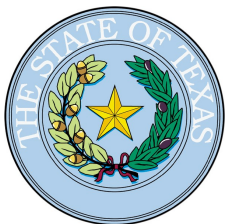
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Matrix: Non-Potable Water

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
Safrole	TX	6685	10242543
Thionazin (Zinophos)	TX	8235	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



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Matrix: Non-Potable Water

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
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



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Matrix: Non-Potable Water

Method SM 2120 C			
Analyte Color	AB TX	Analyte ID 1605	Method ID 20002000
Method SM 2130 B			
Analyte Turbidity	AB TX	Analyte ID 2055	Method ID 20042200
Method SM 2310 B (4a)			
Analyte Acidity, as CaCO ₃	AB TX	Analyte ID 1500	Method ID 20002806
Method SM 2320 B			
Analyte Alkalinity as CaCO ₃	AB TX	Analyte ID 1505	Method ID 20045005
Method SM 2340 B			
Analyte Total hardness as CaCO ₃	AB TX	Analyte ID 1755	Method ID 20046008
Method SM 2510 B			
Analyte Conductivity	AB TX	Analyte ID 1610	Method ID 20048004
Method SM 2540 B			
Analyte Residue-total (total solids)	AB TX	Analyte ID 1950	Method ID 20004608
Method SM 2540 C			
Analyte Residue-filterable (TDS)	AB TX	Analyte ID 1955	Method ID 20049803
Method SM 2540 D			
Analyte Residue-nonfilterable (TSS)	AB TX	Analyte ID 1960	Method ID 20004802
Method SM 3500-Cr B			
Analyte Chromium (VI)	AB TX	Analyte ID 1045	Method ID 20065809
Method SM 4500-Cl G			
Analyte	AB	Analyte ID	Method ID



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Matrix: Non-Potable Water

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
Method SM 5310 C			
Analyte	AB	Analyte ID	Method ID
Total Organic Carbon (TOC)	TX	2040	20138209
Method SM 5540 C			
Analyte	AB	Analyte ID	Method ID
Surfactants - MBAS	TX	2025	20144405
Method TCEQ 1005			
Analyte	AB	Analyte ID	Method ID
Total Petroleum Hydrocarbons (TPH)	TX	2050	90019208



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Matrix: Solid & Chemical Materials

Method ASTM D2216

Analyte	AB	Analyte ID	Method ID
Moisture	TX	10337	ASTM D2216-05

Method EPA 1010

Analyte	AB	Analyte ID	Method ID
Ignitability	TX	1780	10234830

Method EPA 1030

Analyte	AB	Analyte ID	Method ID
Ignitability	TX	1780	10117201

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 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
Orthophosphate as P	TX	1870	10053200
Sulfate	TX	2000	10053200

Method EPA 350.1

Analyte	AB	Analyte ID	Method ID
Ammonia as N	TX	1515	10063408

Method EPA 353.2

Analyte	AB	Analyte ID	Method ID
Nitrate-nitrite	TX	1820	10067604



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Matrix: Solid & Chemical Materials

Nitrite as N	TX	1840	10067604
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
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



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Matrix: Solid & Chemical Materials

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
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



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Matrix: Solid & Chemical Materials

Vanadium	TX	1185	10156420
Zinc	TX	1190	10156420
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
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



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Matrix: Solid & Chemical Materials

alpha-BHC (alpha-Hexachlorocyclohexane)	TX	7110	10178811
alpha-Chlordane	TX	7240	10178811
beta-BHC (beta-Hexachlorocyclohexane)	TX	7115	10178811
Chlordane (tech.)	TX	7250	10178811
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



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Matrix: Solid & Chemical Materials

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
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 (Dichloroprop, Weedone)	TX	8605	10183207
Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	TX	8620	10183207
MCPA	TX	7775	10183207



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Matrix: Solid & Chemical Materials

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
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



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Matrix: Solid & Chemical Materials

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
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
Epichlorohydrin (1-Chloro-2,3-epoxypropane)	TX	4745	10307127
Ethyl methacrylate	TX	4810	10307127



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Matrix: Solid & Chemical Materials

Ethylbenzene	TX	4765	10307127
Hexachlorobutadiene	TX	4835	10307127
Iodomethane (Methyl iodide)	TX	4870	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 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



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Matrix: Solid & Chemical Materials

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-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



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Matrix: Solid & Chemical Materials

2-Nitroaniline	TX	6460	10242543
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-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
Aniline	TX	5545	10242543
Anthracene	TX	5555	10242543
Atrazine	TX	7065	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



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Matrix: *Solid & Chemical Materials*

Benzoic acid	TX	5610	10242543
Benzyl alcohol	TX	5630	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
Chrysene	TX	5855	10242543
Dibenz(a,h) anthracene	TX	5895	10242543
Dibenzofuran	TX	5905	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
Ethyl methanesulfonate	TX	6260	10242543
Fluoranthene	TX	6265	10242543
Fluorene	TX	6270	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
Isophorone	TX	6320	10242543



Texas Commission on Environmental Quality



NELAP - Recognized Laboratory Fields of Accreditation

Eurofins Houston
4141-4147 Greenbriar Dr.
Stafford, TX 77477

Certificate: T104704215-23-50
Expiration Date: 6/30/2023
Issue Date: 3/14/2023

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Matrix: Solid & Chemical Materials

Methapyrilene	TX	6345	10242543
Methyl methanesulfonate	TX	6375	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
Pronamide (Kerb)	TX	6650	10242543
Pyrene	TX	6665	10242543
Pyridine	TX	5095	10242543
Quinoline	TX	6670	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



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Matrix: Solid & Chemical Materials

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
Nitrate as N	TX	1810	10199607
Nitrate-nitrite	TX	1820	10199607
Nitrite as N	TX	1840	10199607
Orthophosphate as P	TX	1870	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



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Matrix: Solid & Chemical Materials

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
Total Petroleum Hydrocarbons (TPH)	TX	2050	90019208

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.

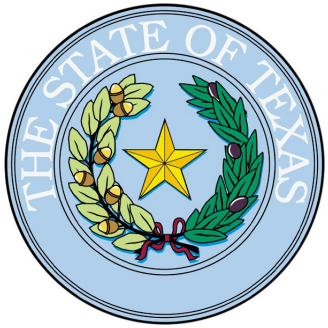
Please contact me at frank.jamison@tceq.texas.gov if I can provide any additional information or assistance.

Sincerely,

A handwritten signature in blue ink, appearing to read "Frank Jamison".

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

A handwritten signature in black ink that reads "Erin E. Chamallo".

**Executive Director Texas Commission on
Environmental Quality**



Texas Commission on Environmental Quality



NELAP - Recognized Laboratory Fields of Accreditation

Eurofins Houston
4147 Greenbriar Dr.
Stafford, TX 77477

Certificate: T104704215-23-53
Expiration Date: 6/30/2024
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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 SiO ₂	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
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Texas Commission on Environmental Quality



NELAP - Recognized Laboratory Fields of Accreditation

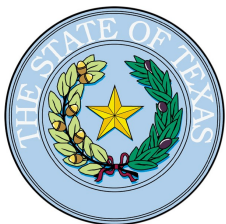
Eurofins Houston
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Matrix: *Drinking Water*

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

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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



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Matrix: Non-Potable Water

Method	AB	Analyte ID	Method ID
Method EPA 1010			
Analyte Ignitability	TX	1780	10234830
Method EPA 1311			
Analyte TCLP	TX	849	10118806
Method EPA 1312			
Analyte SPLP	TX	850	10119003
Method EPA 160.4			
Analyte Residue-volatile	TX	1970	10010409
Method EPA 1664			
Analyte 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 Turbidity	TX	2055	10011606
Method EPA 200.7			
Analyte 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



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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 SiO ₂	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



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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



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Matrix: *Non-Potable Water*

Method EPA 335.4			
Analyte Total cyanide	AB TX	Analyte ID 1645	Method ID 10061402
Method EPA 350.1			
Analyte Ammonia as N	AB TX	Analyte ID 1515	Method ID 10063408
Method EPA 351.2			
Analyte Kjeldahl Nitrogen (Total Kjeldahl Nitrogen-TKN)	AB TX	Analyte ID 1790	Method ID 10065404
Method EPA 353.2			
Analyte Nitrate as N	AB TX	Analyte ID 1810	Method ID 10067400
Nitrate-nitrite	TX	1820	10067400
Nitrite as N	TX	1840	10067400
Method EPA 360.1			
Analyte Oxygen, dissolved	AB TX	Analyte ID 1880	Method ID 10069008
Method EPA 365.1			
Analyte Orthophosphate as P	AB TX	Analyte ID 1870	Method ID 10070005
Phosphorus	TX	1910	10070005
Method EPA 420.4			
Analyte Total phenolics	AB TX	Analyte ID 1905	Method ID 10080203
Method EPA 6010			
Analyte Aluminum	AB TX	Analyte ID 1000	Method ID 10155916
Antimony	TX	1005	10155916
Arsenic	TX	1010	10155916
Barium	TX	1015	10155916
Beryllium	TX	1020	10155916



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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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Issue Date: 8/31/2023

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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 Chemical oxygen demand (COD)	AB TX	Analyte ID 1565	Method ID 60003001
Method IDNR OA-2; DRO			
Analyte Extractable Petroleum Hydrocarbons (EPH)	AB TX	Analyte ID 10331	Method ID 90016607
Method Kelada-01			
Analyte Total cyanide	AB TX	Analyte ID 1635	Method ID 60005303
Method SM 2120 B			
Analyte Color	AB TX	Analyte ID 1605	Method ID 20223807
Method SM 2130 B			
Analyte Turbidity	AB TX	Analyte ID 2055	Method ID 20042200
Method SM 2310 B (4a)			
Analyte Acidity, as CaCO ₃	AB TX	Analyte ID 1500	Method ID 20002806
Method SM 2320 B			
Analyte Alkalinity as CaCO ₃	AB TX	Analyte ID 1505	Method ID 20045005
Method SM 2340 B			
Analyte Total hardness as CaCO ₃	AB TX	Analyte ID 1755	Method ID 20046008
Method SM 2510 B			
Analyte Conductivity	AB TX	Analyte ID 1610	Method ID 20048004
Method SM 2540 B			
Analyte Residue-total (total solids)	AB TX	Analyte ID 1950	Method ID 20004608



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Matrix: Non-Potable Water

Method SM 2540 C			
Analyte Residue-filterable (TDS)	AB TX	Analyte ID 1955	Method ID 20049803
Method SM 2540 D			
Analyte Residue-nonfilterable (TSS)	AB TX	Analyte ID 1960	Method ID 20004802
Method SM 3500-Cr B			
Analyte Chromium (VI)	AB TX	Analyte ID 1045	Method ID 20065809
Method SM 4500-Cl G			
Analyte Total residual chlorine	AB TX	Analyte ID 1940	Method ID 20020604
Method SM 4500-CN ⁻ G			
Analyte Amenable cyanide	AB TX	Analyte ID 1510	Method ID 20021607
Method SM 4500-H+ B			
Analyte pH	AB TX	Analyte ID 1900	Method ID 20104603
Method SM 4500-S2 ⁻ D			
Analyte Sulfide	AB TX	Analyte ID 2005	Method ID 20125400
Method SM 4500-S2 ⁻ F			
Analyte Sulfide	AB TX	Analyte ID 2005	Method ID 20126209
Method SM 4500-SO3 ⁻ B			
Analyte Sulfite	AB TX	Analyte ID 2015	Method ID 20026806
Method SM 5210 B			
Analyte Biochemical oxygen demand (BOD)	AB TX	Analyte ID 1530	Method ID 20027401
Carbonaceous BOD, CBOD	AB TX	Analyte ID 1555	Method ID 20027401



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Matrix: Non-Potable Water

Method	AB	Analyte ID	Method ID
SM 5310 C			
Analyte Total Organic Carbon (TOC)	TX	2040	20138209
SM 5540 C			
Analyte Surfactants - MBAS	TX	2025	20144405
TCEQ 1005			
Analyte Total Petroleum Hydrocarbons (TPH)	TX	2050	90019208



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Matrix: Solid & Chemical Materials

Method ASTM D2216

Analyte	AB	Analyte ID	Method ID
Moisture	TX	10337	ASTM D2216-05

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 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

Method EPA 350.1

Analyte	AB	Analyte ID	Method ID
Ammonia as N	TX	1515	10063408

Method EPA 353.2

Analyte	AB	Analyte ID	Method ID
Nitrate-nitrite	TX	1820	10067604
Nitrite as N	TX	1840	10067604

Method EPA 6010

Analyte	AB	Analyte ID	Method ID
Aluminum	TX	1000	10155916



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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 (Dichloroprop, 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-Acetylamino fluorene	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



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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
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Jon Niermann, *Chairman*
Emily Lindley, *Commissioner*
Bobby Janecka, *Commissioner*
Toby Baker, *Executive Director*



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

December 02, 2022

Mr. William Reeves
Eurofins Eaton Analytical, Inc. - South Bend
110 South Hill Street
South Bend, IN 46617-2702

Subject: Texas NELAP accreditation renewal with drops

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 accreditation with the parameter withdrawals requested on November 30, 2022.

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,

A handwritten signature in black ink, appearing to read "Frank Jamison".

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.

Certificate Number: T104704187-22-16

Effective Date: 1/1/2023

Expiration Date: 12/31/2023

A handwritten signature in black ink, appearing to read "T. G. Baker".

Executive Director Texas Commission on
Environmental Quality



Texas Commission on Environmental Quality



NELAP - Recognized Laboratory Fields of Accreditation

Eurofins Eaton Analytical, LLC - South Bend
 110 South Hill Street
 South Bend, IN 46617-2702

Certificate: T104704187-22-16
Expiration Date: 12/31/2023
Issue Date: 1/1/2023

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: *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 SiO ₂	FL	1990	10013806
Sodium	FL	1155	10013806

Method EPA 200.8

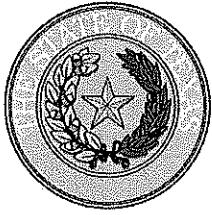
Analyte	AB	Analyte ID	Method ID
Aluminum	FL	1000	10014605
Antimony	FL	1005	10014605
Arsenic	FL	1010	10014605
Barium	FL	1015	10014605
Beryllium	FL	1020	10014605
Cadmium	FL	1030	10014605
Chromium	FL	1040	10014605
Copper	FL	1055	10014605
Lead	FL	1075	10014605
Manganese	FL	1090	10014605
Nickel	FL	1105	10014605
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

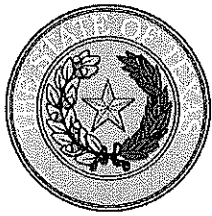
Eurofins Eaton Analytical, LLC - South Bend
 110 South Hill Street
 South Bend, IN 46617-2702

Certificate: T104704187-22-16
Expiration Date: 12/31/2023
Issue Date: 1/1/2023

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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



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Issue Date: 1/1/2023

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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



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Eurofins Eaton Analytical, LLC - South Bend

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South Bend, IN 46617-2702**

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Certificate: T104704187-22-16

Expiration Date: 12/31/2023

Issue Date: 1/1/2023

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



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Certificate: T104704187-22-16

Expiration Date: 12/31/2023

Issue Date: 1/1/2023

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



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Issue Date: 1/1/2023

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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

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.

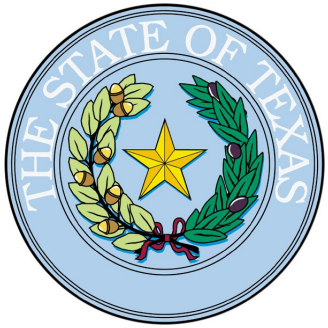
Please contact me at frank.jamison@tceq.texas.gov if I can provide any additional information or assistance.

Sincerely,

A handwritten signature in blue ink, appearing to read "Frank Jamison".

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.

Certificate Number: T104704528-23-12

Effective Date: 4/1/2023

Expiration Date: 3/31/2024

A handwritten signature in black ink that reads "Erin E. Chamallo".

**Executive Director Texas Commission on
Environmental Quality**



Texas Commission on Environmental Quality



NELAP - Recognized Laboratory Fields of Accreditation

Eurofins Pittsburgh
301 Alpha Drive
Pittsburgh, PA 15238-2907

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

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*

Method	AB	Analyte ID	Method ID
Method EPA 1010			
Analyte Ignitability	PA	1780	10116606
Method EPA 120.1			
Analyte Conductivity	PA	1610	10006403
Method EPA 1311			
Analyte TCLP	PA	849	10118806
Method EPA 160.4			
Analyte Residue-volatile	PA	1970	10010409
Method EPA 1664			
Analyte 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 Turbidity	PA	2055	10011606
Method EPA 200.7			
Analyte 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



Texas Commission on Environmental Quality



NELAP - Recognized Laboratory Fields of Accreditation

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301 Alpha Drive
Pittsburgh, PA 15238-2907

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

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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



Texas Commission on Environmental Quality



NELAP - Recognized Laboratory Fields of Accreditation

Eurofins Pittsburgh
301 Alpha Drive
Pittsburgh, PA 15238-2907

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

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*

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 SiO ₂	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



Texas Commission on Environmental Quality



NELAP - Recognized Laboratory Fields of Accreditation

Eurofins Pittsburgh
301 Alpha Drive
Pittsburgh, PA 15238-2907

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

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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



Texas Commission on Environmental Quality



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Expiration Date: 3/31/2024
Issue Date: 4/1/2023

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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



Texas Commission on Environmental Quality



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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
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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 (Dichloroprop, 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 CaCO ₃	PA	1500	20002806
Method SM 2320 B			
Analyte	AB	Analyte ID	Method ID
Alkalinity as CaCO ₃	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 Residue-nonfilterable (TSS)	AB PA	Analyte ID 1960	Method ID 20004802
Method SM 2540 F			
Analyte Residue-settleable	AB PA	Analyte ID 1965	Method ID 20005009
Method SM 4500-Cl G			
Analyte Total residual chlorine	AB PA	Analyte ID 1940	Method ID 20020604
Method SM 4500-H+ B			
Analyte pH	AB PA	Analyte ID 1900	Method ID 20104603
Method SM 4500-O G			
Analyte Oxygen, dissolved	AB PA	Analyte ID 1880	Method ID 20025405
Method SM 4500-S ₂ ⁻ F			
Analyte Sulfide	AB PA	Analyte ID 2005	Method ID 20126209
Method SM 5210 B			
Analyte Biochemical oxygen demand (BOD)	AB PA	Analyte ID 1530	Method ID 20027401
Carbonaceous BOD, CBOD	PA	1555	20027401
Method SM 5310 C			
Analyte Total Organic Carbon (TOC)	AB PA	Analyte ID 2040	Method ID 20138209
Method SM 5540 C			
Analyte Surfactants - MBAS	AB PA	Analyte ID 2025	Method ID 20144405



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Matrix: *Solid & Chemical Materials*

Method EPA 1010			
Analyte Ignitability	AB PA	Analyte ID 1780	Method ID 10234807
Method EPA 1020			
Analyte Ignitability	AB PA	Analyte ID 1780	Method ID 10117007
Method EPA 1311			
Analyte TCLP	AB PA	Analyte ID 849	Method ID 10118806
Method EPA 1312			
Analyte SPLP	AB PA	Analyte ID 850	Method ID 10119003
Method EPA 300.0			
Analyte Bromide	AB PA	Analyte ID 1540	Method ID 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 Ammonia as N	AB PA	Analyte ID 1515	Method ID 10063408
Method EPA 353.2			
Analyte Nitrate-nitrite	AB PA	Analyte ID 1820	Method ID 10067604
Method EPA 6010			
Analyte Aluminum	AB PA	Analyte ID 1000	Method ID 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
Chromium (VI)

AB	Analyte ID	Method ID
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 (Dichloroprop, 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



Texas Commission on Environmental Quality



NELAP - Recognized Laboratory Fields of Accreditation

Eurofins Pittsburgh
301 Alpha Drive
Pittsburgh, PA 15238-2907

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

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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



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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-Acetylamino fluorene	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*
Emily Lindley, *Commissioner*
Bobby Janecka, *Commissioner*
Toby Baker, *Executive Director*



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

July 19, 2022

Ms. Kristen Ely
Eurofins TestAmerica St. Louis
13715 Rider Trail North
Earth City, MO 63045-1205

Subject: Accreditation renewal

Ms. Ely:

I am writing to congratulate you and the staff of *Eurofins TestAmerica St. Louis*. Based on your application and primary NELAP accreditations from the states of Florida and Louisiana, 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.

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,

A handwritten signature in blue ink, appearing to read "Frank Jamison".

Frank Jamison
Data and Records Specialist

Enclosures



Texas Commission on Environmental Quality

NELAP-Recognized Laboratory Accreditation is hereby awarded to



Eurofins TestAmerica 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.

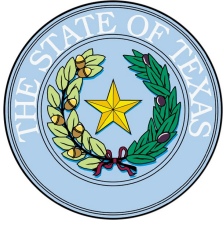
A handwritten signature in black ink, appearing to read "T. G. Baker".

Certificate Number: T104704193-22-21

Effective Date: 8/1/2022

Expiration Date: 7/31/2023

**Executive Director Texas Commission on
Environmental Quality**



Texas Commission on Environmental Quality



NELAP - Recognized Laboratory Fields of Accreditation

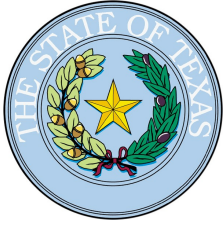
Eurofins TestAmerica St. Louis
13715 Rider Trail North
Earth City, MO 63045-1205

Certificate: T104704193-22-21
Expiration Date: 7/31/2023
Issue Date: 8/1/2022

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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



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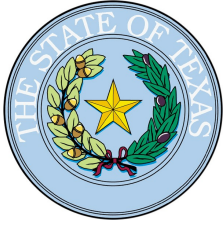
Matrix: Non-Potable Water

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
Magnesium	LA-DEQ	1085	10013806
Manganese	LA-DEQ	1090	10013806
Molybdenum	LA-DEQ	1100	10013806
Nickel	LA-DEQ	1105	10013806
Potassium	LA-DEQ	1125	10013806
Selenium	LA-DEQ	1140	10013806
Silver	LA-DEQ	1150	10013806
Sodium	LA-DEQ	1155	10013806
Thallium	LA-DEQ	1165	10013806
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



Texas Commission on Environmental Quality



NELAP - Recognized Laboratory Fields of Accreditation

Eurofins TestAmerica St. Louis
13715 Rider Trail North
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Certificate: T104704193-22-21
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Issue Date: 8/1/2022

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Matrix: Non-Potable Water

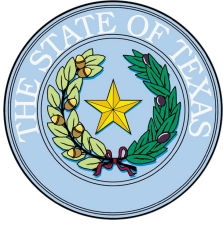
Barium	LA-DEQ	1015	10014605
Beryllium	LA-DEQ	1020	10014605
Cadmium	LA-DEQ	1030	10014605
Chromium	LA-DEQ	1040	10014605
Cobalt	LA-DEQ	1050	10014605
Copper	LA-DEQ	1055	10014605
Lead	LA-DEQ	1075	10014605
Magnesium	LA-DEQ	1085	10014605
Manganese	LA-DEQ	1090	10014605
Molybdenum	LA-DEQ	1100	10014605
Nickel	LA-DEQ	1105	10014605
Selenium	LA-DEQ	1140	10014605
Silver	LA-DEQ	1150	10014605
Thallium	LA-DEQ	1165	10014605
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



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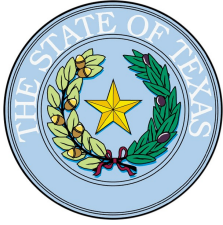
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Matrix: Non-Potable Water

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
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
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
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



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NELAP - Recognized Laboratory Fields of Accreditation

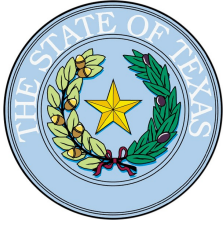
Eurofins TestAmerica St. Louis
13715 Rider Trail North
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Certificate: T104704193-22-21
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Matrix: Non-Potable Water

Iron	LA-DEQ	1070	10156204
Lead	LA-DEQ	1075	10156204
Magnesium	LA-DEQ	1085	10156204
Manganese	LA-DEQ	1090	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
Thallium	LA-DEQ	1165	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



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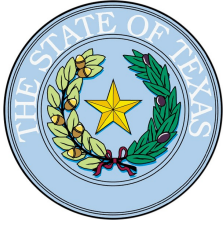
Matrix: Solid & Chemical Materials

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
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
Vanadium	LA-DEQ	1185	10155201
Zinc	LA-DEQ	1190	10155201

Method EPA 6020

Analyte	AB	Analyte ID	Method ID
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Matrix: Solid & Chemical Materials

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
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
Magnesium	LA-DEQ	1085	10156204
Manganese	LA-DEQ	1090	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
Thallium	LA-DEQ	1165	10156204
Vanadium	LA-DEQ	1185	10156204
Zinc	LA-DEQ	1190	10156204

Method EPA 7471

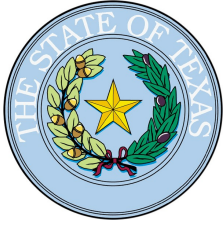
Analyte	AB	Analyte ID	Method ID
Mercury	LA-DEQ	1095	10166004

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
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Matrix: Solid & Chemical Materials

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

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.

Certificate Number: T104704193-23-22

Effective Date: 8/1/2023

Expiration Date: 7/31/2024

A handwritten signature in black ink that reads "Erin E. Chamalor".

**Executive Director Texas Commission on
Environmental Quality**



Texas Commission on Environmental Quality



NELAP - Recognized Laboratory Fields of Accreditation

Eurofins St. Louis
13715 Rider Trail North
Earth City, MO 63045-1205

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Matrix: *Drinking Water*

Method EPA 200.8			
Analyte Uranium	AB FL	Analyte ID 3035	Method ID 10014605
Method EPA 900.0			
Analyte Gross-alpha	AB FL	Analyte ID 2830	Method ID 10308200
Gross-beta	FL	2840	10308200
Method EPA 903.0			
Analyte Radium-226	AB FL	Analyte ID 2965	Method ID 10309407
Method EPA 904.0			
Analyte Radium-228	AB FL	Analyte ID 2970	Method ID 10309805
Method EPA 905.0			
Analyte Strontium-90	AB FL	Analyte ID 3005	Method ID 10310006
Method EPA 906.0			
Analyte Tritium	AB FL	Analyte ID 3030	Method ID 10310200
Method HASL-300 Sr-02-RC			
Analyte Strontium-90	AB FL	Analyte ID 3005	Method ID DOE Sr-02
Method HASL-300 U-02-RC			
Analyte Uranium	AB FL	Analyte ID 3035	Method ID 90011204
Method SM 7110 C			
Analyte Gross-alpha	AB FL	Analyte ID 2830	Method ID 20158401



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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 SiO ₂	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



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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



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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 SiO ₂	LA-DEQ	1990	10155201
Silver	LA-DEQ	1150	10155201



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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



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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



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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 SiO ₂	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



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Matrix: Solid & Chemical Materials

Analyte	AB	Analyte ID	Method ID
Zinc	LA-DEQ	1190	10155201
Method EPA 6020			
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



NELAP - Recognized Laboratory Fields of Accreditation

Eurofins St. Louis
13715 Rider Trail North
Earth City, MO 63045-1205

Certificate: T104704193-23-22
Expiration Date: 7/31/2024
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: Solid & Chemical Materials

Zinc	LA-DEQ	1190	10156204
Method EPA 7471			
Analyte Mercury	AB LA-DEQ	Analyte ID 1095	Method ID 10166004
Method EPA 9310			
Analyte Gross-alpha Gross-beta	AB LA-DEQ LA-DEQ	Analyte ID 2830 2840	Method ID 10310802 10310802
Method HASL-300 Ga-01-R			
Analyte Gross gamma	AB LA-DEQ	Analyte ID 2855	Method ID 90000207
Method HASL-300 U-02-RC			
Analyte Uranium	AB LA-DEQ	Analyte ID 3035	Method ID 90011204