

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, 2023

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:	

2022 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

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



Issued: 31 January 2023

Prepared for: San Miguel Electric Cooperative, Inc.




GSI Environmental Inc.

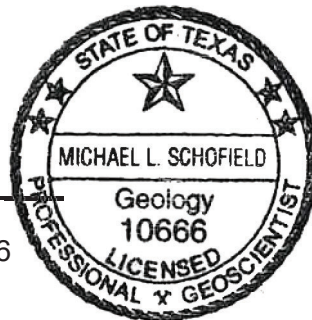
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**2022 ANNUAL GROUNDWATER MONITORING AND
CORRECTIVE ACTION REPORT**

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Issued: 31 January 2023

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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 2022 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 overlain 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, while 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 2022 and September 2022 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 muddy site conditions preventing well access.

Additional activities at the Ash Pile included:

- Re-Testing Events, to confirm no releases to groundwater. Groundwater re-testing events were conducted in March, April, November, and December 2022 consistent with the 1-of-3 re-testing approach outlined in the Background Comparison Value Update for the unit (GSI, 2021), 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 re-testing events did not confirm the initial exceedances of pH, Boron,

Calcium, Chloride, and TDS noted at select wells. Refer to Table 4A for additional detail on 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.
- Source Control & Closure Activities at the East Equalization Pond. 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).

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 antimony, lead, and thallium were higher than those reported in 2021, and detection limits for some samples were higher than the groundwater protection standards (GWPS) in Table 4B and Table 4C. Discussions with the laboratory indicate 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 2023, 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 and 22 September 2022, respectively. San Miguel provided NOD responses on 18 July and 21 October 2022, respectively, which

are currently under review by TCEQ. It is anticipated that TCEQ's review will be completed and CCR registration issued in 2023.

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 2022. All wells were found to be in good working condition during the February and September 2022 sampling events.

3.2 Additional Groundwater Monitoring at the Plant

There were no changes to the CCR unit-specific monitoring well network in 2022. 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 2022 and September 2022. 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 2022 and September 2022 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 2022 were pH (SP-02, SP-03), Boron (SP-32), Calcium (SP-34, SP-02, SP-03, and SP-32), Chloride (SP-03) and TDS (SP-34), however 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.
- **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 2022 semiannual monitoring results for the Ash Ponds are summarized in Table 4B. The Appendix IV constituents with exceedances of the respective GWPS in 2022 were Antimony (AP-34), Arsenic (AP-32, AP-35), Mercury (AP-32, AP-33, AP-34, AP-36), 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 2022 were Antimony (EP-36), Arsenic (EP-31, EP-33), and Radium (EP-32, EP-34, and EP-36).

Data validation was completed on all laboratory analytical results. Any variances between sampling and analytical procedures and the specifications in the SAP, along with an evaluation of any potential impact of those variances on data usability, are discussed in the 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 2022. For reference, the status of monitoring program at each unit is summarized below:

- Ash Pile. In 2022, detection monitoring continued.
- Ash Ponds. In 2022, 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 2022, 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 2022 semiannual monitoring results are summarized in Table 4C. 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 2022 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. Results below background pH comparison values and above boron, calcium, and TDS comparison values were noted in 2022 but were not attributed to a release based on re-testing.

- Recordkeeping, § 257.94(f). The 2021 Annual Groundwater Monitoring and Corrective Action Report was posted to the San Miguel website in February 2022.

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. See section 6.5 for 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 2022, 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 muddy site conditions preventing well access.
 - 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 2022 were antimony, arsenic, mercury, and combined radium for the Ash Ponds, and antimony, arsenic, and radium for the East Equalization Pond.

- Recordkeeping, § 257.95(i). The following documents related to groundwater monitoring and CCR units were posted to the San Miguel website in 2022: i) 2021 Annual Groundwater Monitoring and Corrective Action Report, ii) The Equalization Pond Closure Final Construction Report, and iii) Registration Application for TCEQ CCR Program.
- 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 2022, the groundwater extraction system operated from April through the end of year, after an initial period of shutdown due to freezing conditions and for maintenance and water management. All extracted groundwater (from EW-01 to EW-06) is routed to the Combined Ash Transport 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.
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2022 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 - 2022

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	5	2/8/2022	Detection Monitoring
					3/17/2022	
					4/20/2022	
					9/28/2022	
					11/2/2022	
SP-01	11/12/2015	Downgradient Monitoring Well	Downgradient	2	2/8/2022	Detection Monitoring
					9/28/2022	
SP-02	11/13/2015	Downgradient Monitoring Well	Downgradient	5	2/8/2022	Detection Monitoring
					2/8/2022	
					3/17/2022	
					9/28/2022	
					9/28/2022	
SP-03	11/11/2015	Downgradient Monitoring Well	Downgradient	4	2/8/2022	Detection Monitoring
					3/17/2022	
					4/20/2022	
					9/28/2022	
SP-32	5/5/2016	Downgradient Monitoring Well	Downgradient	5	2/8/2022	Detection Monitoring
					3/17/2022	
					4/20/2022	
					9/28/2022	
					11/2/2022	
Ash Ponds						
PZ-02	11/14/2015	Upgradient Monitoring Well	Upgradient	2	2/8/2022	Assessment Monitoring
					9/28/2022	
PZ-03	11/18/2015	Upgradient Monitoring Well	Upgradient	2	2/8/2022	Assessment Monitoring
					9/28/2022	
AP-31	4/30/2016	Downgradient Monitoring Well	Downgradient	2	2/8/2022	Assessment Monitoring
					9/28/2022	
AP-32	4/29/2016	Downgradient Monitoring Well	Downgradient	2	2/8/2022	Assessment Monitoring
					9/28/2022	
AP-33	4/29/2016	Downgradient Monitoring Well	Downgradient	2	2/8/2022	Assessment Monitoring
					9/28/2022	
AP-34	4/28/2016	Downgradient Monitoring Well	Downgradient	2	2/8/2022	Assessment Monitoring
					9/28/2022	
AP-35	4/28/2016	Downgradient Monitoring Well	Downgradient	2	2/8/2022	Assessment Monitoring
					9/28/2022	
AP-36	4/27/2016	Downgradient Monitoring Well	Downgradient	2	2/8/2022	Assessment Monitoring
					9/28/2022	
MW-03	7/30/2015	Downgradient Monitoring Well	Downgradient	3	2/8/2022	Assessment Monitoring
					9/28/2022	
					9/28/2022	
PZ-05	11/16/2015	Downgradient Monitoring Well	Downgradient	2	2/8/2022	Assessment Monitoring
					9/28/2022	
PZ-06	11/20/2015	Downgradient Monitoring Well	Downgradient	2	2/8/2022	Assessment Monitoring
					9/28/2022	

TABLE 1
Groundwater Sampling Event Summary - 2022

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	2/8/2022	Assessment Monitoring
					9/28/2022	
EP-32	5/4/2016	Downgradient Monitoring Well	Downgradient	2	2/8/2022	Assessment Monitoring
					9/28/2022	
EP-33	5/3/2016	Downgradient Monitoring Well	Downgradient	3	2/8/2022	Assessment Monitoring
					9/28/2022	
					9/28/2022	
EP-34	5/3/2016	Downgradient Monitoring Well	Downgradient	2	2/8/2022	Assessment Monitoring
					9/28/2022	
EP-35	5/2/2016	Downgradient Monitoring Well	Downgradient	2	2/8/2022	Assessment Monitoring
					9/28/2022	
EP-36	5/2/2016	Downgradient Monitoring Well	Downgradient	2	2/8/2022	Assessment Monitoring
					9/28/2022	
EP-37	4/26/2016	Downgradient Monitoring Well	Downgradient	2	2/8/2022	Assessment Monitoring
					9/28/2022	
EP-38	4/27/2016	Downgradient Monitoring Well	Downgradient	2	2/8/2022	Assessment Monitoring
					9/28/2022	
MW-04	7/31/2015	Downgradient Monitoring Well	Downgradient	2	2/8/2022	Assessment Monitoring
			Downgradient		9/28/2022	

TABLE 2
Groundwater Elevation Data - 2022

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	2/8/2022	55	29.80	304.82
SP-34	334.62	3/17/2022	55	29.80	304.82
SP-34	334.62	4/20/2022	55	30.53	304.09
SP-34	334.62	9/28/2022	55	31.95	302.67
SP-34	334.62	11/2/2022	55	31.72	302.90
SP-01	329.25	2/8/2022	52	26.09	303.16
SP-01	329.25	9/28/2022	52	27.08	302.17
SP-02	333.48	2/8/2022	50	28.19	305.29
SP-02	333.48	3/17/2022	50	28.20	305.28
SP-02	333.48	9/28/2022	50	30.58	302.90
SP-03	332.00	2/8/2022	65	28.48	303.52
SP-03	332.00	3/17/2022	65	28.19	303.81
SP-03	332.00	4/20/2022	65	28.58	303.42
SP-03	332.00	9/28/2022	65	30.28	301.72
SP-32	327.89	2/8/2022	50	25.33	302.56
SP-32	327.89	3/17/2022	50	24.83	303.06
SP-32	327.89	4/20/2022	50	25.12	302.77
SP-32	327.89	9/28/2022	50	26.40	301.49
SP-32	327.89	11/2/2022	50	26.21	301.68
Ash Ponds					
PZ-02	318.92	2/8/2022	76.5	30.55	288.37
PZ-02	318.92	9/28/2022	76.5	32.33	286.59
PZ-03	323.19	2/8/2022	60	31.85	291.34
PZ-03	323.19	9/28/2022	60	33.10	290.09
AP-31	292.80	2/8/2022	24	9.44	283.36
AP-31	292.80	9/28/2022	24	10.95	281.85
AP-32	297.94	2/8/2022	35	16.79	281.15
AP-32	297.94	9/28/2022	35	18.31	279.63
AP-33	304.67	2/8/2022	42	23.20	281.47
AP-33	304.67	9/28/2022	42	24.78	279.89
AP-34	296.32	2/8/2022	40	15.69	280.63
AP-34	296.32	9/28/2022	40	17.04	279.28
AP-35	298.36	2/8/2022	43	16.23	282.13
AP-35	298.36	9/28/2022	43	17.59	280.77
AP-36	288.75	2/8/2022	41	7.73	281.02
AP-36	288.75	9/28/2022	41	8.92	279.83
MW-03	295.90	2/8/2022	40	14.13	281.77
MW-03	295.90	9/28/2022	40	15.46	280.44
PZ-05	302.77	2/8/2022	52	21.82	280.95
PZ-05	302.77	9/28/2022	52	22.15	280.62
PZ-06	297.42	2/8/2022	50	15.20	282.22
PZ-06	297.42	9/28/2022	50	16.70	280.72

TABLE 2
Groundwater Elevation Data - 2022

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	2/8/2022	65	23.84	292.86
EP-31	316.70	9/28/2022	65	25.92	290.78
EP-32	277.44	2/8/2022	52.5	3.88	273.56
EP-32	277.44	9/28/2022	52.5	7.71	269.73
EP-33	278.00	2/8/2022	41	2.63	275.37
EP-33	278.00	9/28/2022	41	5.25	272.75
EP-34	278.71	2/8/2022	53.5	2.47	276.24
EP-34	278.71	9/28/2022	53.5	4.61	274.10
EP-35	279.86	2/8/2022	45	3.50	276.36
EP-35	279.86	9/28/2022	45	4.32	275.54
EP-36	278.50	2/8/2022	47	3.86	274.64
EP-36	278.50	9/28/2022	47	5.38	273.12
EP-37	277.80	2/8/2022	56	3.22	274.58
EP-37	277.80	9/28/2022	56	4.54	273.26
EP-38	279.35	2/8/2022	40	2.39	276.96
EP-38	279.35	9/28/2022	40	3.59	275.76
MW-04	278.58	2/8/2022	45	2.59	275.99
MW-04	278.58	9/28/2022	45	3.83	274.75
Groundwater Observation Wells					
MW-01	289.16	2/8/2022	50	10.13	279.03
MW-01	289.16	9/28/2022	50	12.71	276.45
MW-02	317.68	2/8/2022	62	32.18	285.50
MW-02	317.68	9/28/2022	62	33.98	283.70
PZ-04	303.21	2/8/2022	42	15.14	288.07
PZ-04	303.21	9/28/2022	42	16.02	287.19
PZ-07	281.99	2/8/2022	52	3.78	278.21
PZ-07	281.99	9/28/2022	52	4.99	277.00
SP-31	335.01	2/8/2022	62	31.74	303.27
SP-31	335.01	9/28/2022	62	32.85	302.16
SP-33	329.96	2/8/2022	39	21.39	308.57
SP-33	329.96	9/28/2022	39	23.77	306.19

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 - 2022

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

Well ID	Sample Date	Temperature (°C)	pH (SU)	Specific Conductance (uS/cm)	Oxidation Reduction Potential (mV)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
Ash Pile							
SP-34	2/8/2022	24.8	2.71	6530	467	1.6	15.2
SP-34	3/17/2022	25.3	2.73	12170	464	1.5	9.6
SP-34	4/20/2022	25.8	3.26	12650	306	1.8	7.9
SP-34	9/28/2022	27.2	3.15	12330	401	1.7	8.7
SP-34	11/2/2022	24.9	3.13	11710	463	1.6	7.4
SP-01	2/8/2022	24.3	2.73	16730	405	1.7	4.1
SP-01	9/28/2022	26.7	3.11	16150	407	1.8	6.5
SP-02	2/8/2022	25.3	5.09	12740	264	1.4	8.4
SP-02	3/17/2022	25.8	5.03	12810	257	1.2	7.1
SP-02	9/28/2022	26.8	5.64	12530	192	1.6	7.9
SP-03	2/8/2022	22.4	3.28	10590	404	3	8.2
SP-03	3/17/2022	24.0	3.37	13960	453	2.1	7.7
SP-03	4/20/2022	26.0	3.52	16010	428	2	8.8
SP-03	9/28/2022	25.1	3.63	16350	346	2.4	7.3
SP-32	2/8/2022	22.4	3.09	14610	456	1.9	8.7
SP-32	3/17/2022	23.4	3.18	15340	460	2	8.4
SP-32	4/20/2022	24.8	3.5	14640	438	1.7	8.2
SP-32	9/28/2022	23.8	3.57	13010	325	1.7	9.1
SP-32	11/2/2022	24.1	3.46	14370	440	1.9	9.7
Ash Ponds							
PZ-02	2/8/2022	21.0	5.73	22100	-28.2	1.3	56
PZ-02	9/28/2022	25.9	5.98	10890	0.60	1.2	58.9
PZ-03	2/8/2022	24.4	2.89	27300	449	1.2	8.4
PZ-03	9/28/2022	24.4	3.27	13690	492	1.7	181
AP-31	2/8/2022	19.3	3.84	9490	527	1.9	7.8
AP-31	9/28/2022	25.0	4.03	9900	560	2.2	4.8
AP-32	2/8/2022	22.1	3.55	11610	464	6.9	6.4
AP-32	9/28/2022	25.4	3.83	11900	462	6.2	13.7
AP-33	2/8/2022	22.2	3.42	14760	432	1.7	8.8
AP-33	9/28/2022	25.9	3.69	15200	443	2.4	29
AP-34	2/8/2022	23.3	3.41	11040	385	2.1	6.9
AP-34	9/28/2022	25.8	3.69	11340	350	2.2	9.4
AP-35	2/8/2022	24.4	3.59	11570	276	2	8.7
AP-35	9/28/2022	26.6	3.58	11430	288	1.6	8.4
AP-36	2/8/2022	24.0	4.28	8710	267	1.8	3.9
AP-36	9/28/2022	27.1	4.17	6260	259	1.1	8.1
MW-03	2/8/2022	21.2	3.69	10920	468	3.3	8.1
MW-03	9/28/2022	24.8	3.95	11200	467	2.9	9.4
PZ-05	2/8/2022	22.3	3.56	10090	368	1.9	15.1
PZ-05	9/28/2022	26.2	3.83	10780	347	2.4	21.3
PZ-06	2/8/2022	24.0	5.2	13690	29.6	1.6	6.9
PZ-06	9/28/2022	26.7	5.9	7070	-3.20	1.1	5.9

TABLE 3
Field Parameter Results - 2022

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

Well ID	Sample Date	Temperature (°C)	pH (SU)	Specific Conductance (uS/cm)	Oxidation Reduction Potential (mV)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
East Equalization Pond							
EP-31	2/8/2022	23.7	3.07	8370	334	1.3	20.2
EP-31	9/28/2022	25.3	3.76	4260	329	1.2	16.9
EP-32	2/8/2022	22.0	6.79	14840	-50.5	2.2	12.5
EP-32	9/28/2022	26.5	6.95	18180	-121.9	1.8	5.5
EP-33	2/8/2022	20.7	6.58	12660	-45.2	3.4	33.1
EP-33	9/28/2022	27.4	6.61	12970	-87.9	1.3	4.7
EP-34	2/8/2022	21.9	6.81	15910	76.5	2.1	9
EP-34	9/28/2022	24.7	6.84	17020	-107	1.2	5.3
EP-35	2/8/2022	22.4	6.21	15000	-21.3	1.8	26.1
EP-35	9/28/2022	24.3	6.39	15140	-95.1	1.6	7.7
EP-36	2/8/2022	22.6	6.24	14060	-24.8	1.9	8.6
EP-36	9/28/2022	23.3	6.31	12900	-92	2.3	4.5
EP-37	2/8/2022	24.0	6.46	14000	-41.5	2	9.1
EP-37	9/28/2022	27.4	6.36	13730	-160	2.2	3.1
EP-38	2/8/2022	20.7	5.58	7210	48.3	1.9	9.7
EP-38	9/28/2022	26.8	5.65	6800	-19.9	2.2	2.7
MW-04	2/8/2022	21.7	6.15	8330	23	1.9	33.5
MW-04	9/28/2022	25.6	6.20	8520	-49.6	2.3	30.9

Notes:

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

TABLE 4A
Ash Pile Groundwater Analytical Results - 2022

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

			Appendix III Constituents						
Analyte:		pH (field)	Boron	Calcium	Chloride	Fluoride	Sulfate	TDS	
Units:		SU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
Well ID	Sample Date	Type							
SP-34 (upgradient)	Background:		2.23 - 3.73	21	827	3380	<10	3900	9000
	2/8/2022	N	2.71	10.7	812 J	3000	6.39	2930 B	9390
	3/17/2022	N	2.73	-	-	-	-	-	11200
	4/20/2022	N	3.26	-	-	-	-	-	8080
	9/28/2022	N	3.15	10	874	2910 B	5.3	2830	7260
	11/2/2022	N	3.13	-	814	-	-	-	-
SP-01	Background:		2.07 - 5.52	11.3	694	3690	22	8530	16900
	2/8/2022	N	2.73	4.85	553 J	3290	16.4	7430 B	15600
	9/28/2022	N	3.11	6.71	555	3070 B	16.1	7220 B	13800
SP-02	Background:		5.09 - 6.6	13.1	1420	5320	<10	2580	17100
	2/8/2022	N	5.09	10.7	1010 J	3590	<1	2030 B	6660
	2/8/2022	Dup	-	11 B	2730 J	3500	<1	1980 B	7250
	3/17/2022	N	-	-	1210	-	-	-	-
	9/28/2022	N	5.64	9.16	923	3210 B	<1	2000 B	8380
	9/28/2022	Dup	-	9.2	952	3220 B	<0.1	2000 B	7920
SP-03	Background:		3.3 - 5.15	9	924	4810	<10	3730	13500
	2/8/2022	N	3.28	7.11 B	2360 J	4850	1.31 J	2750 B	9150
	3/17/2022	N	3.37	-	975	4780	-	-	-
	4/20/2022	N	3.52	-	828	-	-	-	-
	9/28/2022	N	3.63	5.55	852	4320 B	1.24 JH	2720 B	9910
SP-32	Background:		2.81 - 3.94	11.1	510	1930	17.5	11800	18600
	2/8/2022	N	3.09	6.22 B	1260 J	1510	10.3	6380 B	10000
	3/17/2022	N	3.18	-	537	-	-	-	-
	4/20/2022	N	3.5	-	453	-	-	-	-
	9/28/2022	N	3.57	11.8	534	1460 B	6.57	5670 B	9410
	11/2/2022	N	3.46	11.5 ^2	482	-	-	-	-
	12/2/2022	N	-	8	-	-	-	-	-

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. Confirmation re-testing was performed at the following wells and background exceedances were not confirmed: SP-34 (TDS in February 2022 and Calcium in September 2022), SP-02 (pH and Calcium in February 2022), SP-03 (pH, Calcium, and Chloride in February 2022), SP-32 (Calcium in February 2022 and Boron and Calcium in September 2022).
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; B = analyte detected in method blank; JH = estimated result is biased high; ^2 = calibration blank is outside acceptance limits.
7. See Appendix A for cumulative results from all CCR groundwater monitoring network wells.

TABLE 4B
Ash Ponds Groundwater Analytical Results - 2022

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

			Appendix III Constituents							Appendix IV Constituents															
Analyte: Units: MCL: Background (Note 5): ASD Comparison Values (Note 6): GWPS (Note 7):	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	pCi/L	pCi/L	pCi/L		
	-	-	-	-	4	-	-	0.006	0.01	2	0.004	0.005	0.1	0.006	0.015	0.04	0.002	0.1	0.05	0.002	-	-	5		
	3.43 - 4.09	15.01	908.6	4430	9.837	5630	15819	0.004	0.0868	0.0403	0.584	0.618	0.067	1.94	0.006	3.911	0.00008	0.006	0.528	0.02	3.567	4.991	8.558		
	4.33 - 7.72	21.19	1610	14000	67	6380	27000	-	-	-	-	-	-	-	-	See Note 6	-	-	-	-	-	-	-		
	3.43	21.19	1610	14000	67	6380	27000	0.006	0.0868	2	0.584	0.618	0.1	1.94	0.015	3.911	0.002	0.1	0.528	0.02	n/a	n/a	8.558		
Well ID	Sample Date	Type																							
PZ-02 (upgradient)	2/8/2022	N	5.73	7.18	790 B	4100	1.35 J	3090	9330	<0.0589	<0.055	0.0164 J	<0.0049	<0.0243	<0.00811	<0.00673	<0.0237	2.08	<0.0000263	<0.0123	<0.0439	<0.0621	0.55	2.97 ± 0.618 JH	3.52
	9/28/2022	N	5.98	8.51	848	3890	<1	2800	9900	<0.03	<0.024	0.0304 J	<0.0184	<0.013	<0.02	<0.0112	<0.0162	2.21	0.00108	<0.026	<0.0164	<0.0092	0.56	2.2 ± 0.604	2.76
PZ-03 (upgradient)	2/8/2022	N	2.89	7.95	693	5410 E	6.85	4300	12700	<0.00589 JL	0.0468	0.00941 JL	0.199 JL	0.426	0.0118 JL	1.13	0.0109 JL	2.12	<0.0000263	0.00687 JL	<0.00439	<0.00621 JL	0.74	3.54 ± 0.616 JH	4.28
	9/28/2022	N	3.27	10.1	822	5340	5.03	3850 B	16100	<0.03	0.0775	0.0294 J	0.264	0.616	<0.02	1.54	<0.0162	2.67	0.00116	<0.026	0.0753	0.0096 J	0.77	2.3 ± 0.809	3.07
AP-31	2/8/2022	N	3.84	52.6	584 B	2080	<1	3210	10600	<0.0589	0.083 J	<0.0135	0.012 J	<0.0243	<0.00811	0.251	<0.0237	0.79	0.000234	<0.0123	<0.0439	<0.0621	0.56	1.29 ± 0.356 JH	1.85
	9/28/2022	N	4.03	56.2	602	2020	<1	2970 B	6670	<0.15	<0.12	<0.07	<0.092	<0.065	<0.1	0.277	<0.081	0.823	0.00169	<0.13	0.097 J	<0.046	0.34	1.55 ± 0.409	1.89
AP-32	2/8/2022	N	3.55	22.1	644 B	2920	1.38 J	3520	7330	<0.0589	0.145	<0.0135	0.056	0.0809	<0.00811	0.591	<0.0237	1.62	0.00233	<0.0123	<0.0439	<0.0621	0.8	10.2 ± 1.2 JH	11
	9/28/2022	N	3.83	23.3	689	2760	1.43 J	3350 B	8200	<0.06	<0.048	<0.028	0.0566 J	0.101	<0.04	0.624	<0.0324	1.74	0.0039	<0.052	0.0662	<0.0184	1.91	10.7 ± 1.34	12.61
AP-33	2/8/2022	N	3.42	56.2	688 B	8200	13.6	7010	8490	<0.0589	<0.055	<0.0135	0.25	0.109	<0.00811	1.32	<0.0237	1.19	0.00531	<0.0123	<0.0439	<0.0621	1.2	7.83 ± 0.977 JH	9.03
	9/28/2022	N	3.69	53.5	734	4220	6.55	3580	11200	<0.15	<0.12	<0.07	0.272	0.119 J	<0.1	1.43	<0.081	1.21	0.00644	<0.13	<0.082	<0.046	1.21	6.82 ± 0.968	8.03
AP-34	2/8/2022	N	3.41	22.3	647 B	2930	8.7	3520	10200	0.102 J	<0.055	<0.0135	0.271	<0.0243	<0.00811	1.15	<0.0237	1.36	0.00319	<0.0123	<0.0439	<0.0621	0.76	3.88 ± 0.701 JH	4.64
	9/28/2022	N	3.69	21.1	709	2860	7.49	3400 B	8270	<0.06	0.0578	0.0286 J	0.29	0.0278 J	<0.04	1.26	<0.0324	1.26	0.00376	<0.052	0.0612	<0.0184	1.18	4.3 ± 0.798	5.48
AP-35	2/8/2022	N	3.59	5.65	573 B	2400	13.3	3630	7540	<0.0589	0.124	<0.0135	0.317	<0.0243	0.0101 J	0.0681 J	<0.0237	1.61	0.00053	<0.0123	<0.0439	<0.0621	6.68	24.7 ± 2.52 JH	31.38
	9/28/2022	N	3.58	5.75	628	2230	12.1	3390	786	<0.03	0.0299	0.0274 J	0.367	<0.013	<0.02	0.0483 J	<0.0162	1.87	0.00163	<0.026	0.0258	<0.0092	5.58	18.9 ± 2.09	24.48
AP-36	2/8/2022	N	4.28	2.21	591	1740	0.747	2890 B	8290	<0.0589	<0.055	<0.0135	0.0102 J	<0.0243	<0.00811	0.0536 J	<0.0237	1.04	<0.0000263	<0.0123	<0.0439	<0.0621	0.62	3.66 ± 0.57 JH	4.28
	9/28/2022	N	4.17	2.05	618	1610	<1	2840	6490	<0.015	<0.012	0.0196 J	0.0096 J	<0.0065	<0.01	0.0638	<0.0081	1.07	0.00294	<0.013	<0.0082	<0.0046	0.5 U	4.26 ± 0.692	4.76
MW-03	2/8/2022	N	3.69	10.9	508	1950	<1	4190 B	10500	<0.0589	<0.055	<0.0135	0.0208 J	0.0458 J	<0.00811	0.29	<0.0237	1.76	0.000034 J	<0.0123	<0.0439	<0.0621	0.77	5.53 ± 0.818 JH	6.3
	2/8/2022	Dup	-	12.3	497	1990	1.13 J	4390 B	10200	<0.0589	<0.055	<0.0135	0.024 J	0.0519	0.0412 J B	0.332	<0.0237	1.74	0.000035 J	<0.0123	<0.0439	<0.0621	1.19	4.22 ± 0.612 JH	5.41
	9/28/2022	N	3.95	12.2	543	1170 J	0.683	2690 J	8420	<0.03	<0.024	<0.014	0.0285 J	0.0631	<0.02	0.372	<0.0162	1.98	0.00144	<0.026	0.0183 J	<0.0092	0.62	4.12 ± 0.706	4.74
	9/28/2022	Dup	-	12.1	538	1800 J	0.735	4100 J	8500	<0.03	<0.024	0.0153 J	0.0245 J	0.0646	<0.02	0.365	<0.0162	1.98	0.00144	<0.026	0.0171 J	<0.0092	0.83	5.34 ± 0.834	6.17
PZ-05	2/8/2022	N	3.56	24.2	601	2510	4.62 J	3230 B	8200	<0.0589	<0.055	<0.0135	0.184	0.0716	0.0113 J B	0.882	<0.0237	1.01	0.000472	<0.0123	<0.0439	<0.0621	0.73	2.71 ± 0.494 JH	3.44
	9/28/2022	N	3.83	27.7	644	2430	2.44	3070	8400	<0.06	<0.048	<0.028	0.235	0.0786 J	<0.04	0.965	<0.0324	0.989	<0.00015	<0.052	0.0572	<0.0184	0.48	4.09 ± 0.696	4.57
PZ-06	2/8/2022	N	5.2	2.67	638	1960	<1	3130 B	8800	<0.0589	0.057 J	<0.0135	<0.0049	<0.0243	<0.00811	<0.00673	<0.0237	0.953	<0.0000263	<0.0123	<0.0439	<0.0621	0.57	2.1 ± 0.421 JH	2.67
	9/28/2022	N	5.9	2.5	700	1910	0.357 J	2940	6940	<0.015	<0.012	0.0318	<0.0092	<0.0065	<0.01	<0.0056	<0.0081	1.19	<0.00015	<0.013	<0.0082	<0.0046	0.51	3.18 ± 0.591	3.69

- Notes:
- This table includes semiannual assessment/corrective action monitoring (Appendix III and IV) results from the upgradient and downgradient wells at the Ash Ponds, for the reporting year. See report text for details.
 - Fluoride is included in both Appendix III and Appendix IV analyte lists.
 - TDS = Total Dissolved Solids; mg/L = milligrams per liter; pCi/L = picocuries 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; E = result exceeded calibration range; JL = estimated result is biased low.
 - Background based on Zephyr 2018 (UTL), and Power 2019 "Groundwater Statistics Report for RY 2018", Table 3
 - Values from PBW 2018 ASD Report (maximum value from historic Unit 22 monitoring).
 - GWPS is the higher of the MCL or background, and takes ASDs into consideration. GWPS for pH is the lower background value. Shaded cells indicate results greater than the GWPS.
 - See Appendix A for cumulative results from all CCR groundwater monitoring network wells.

TABLE 4C
East Equalization Pond Groundwater Analytical Results - 2022

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

				Appendix III Constituents							Appendix IV Constituents															
Analyte:				pH (field)	Boron	Calcium	Chloride	Fluoride	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium	Radium-226	Radium-228	Combined Radium
Units:				SU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pCi/L	pCi/L	pCi/L
MCL:				-	-	-	-	4	-	-	0.006	0.01	2	0.004	0.005	0.1	0.006	0.015	0.04	0.002	0.1	0.05	0.002	-	-	5
Background (Note 5):				2.78-6.11	4.829	493.2	282.5	4.839	3982	8114	0.004	0.0222	0.0182	0.148	0.0291	0.002	0.146	0.0015	1.111	0.00008	0.006	0.103	0.00157	0.738	2.346	3.084
ASD Comparison Values (Note 6):				4.33 - 7.72	21.19	1610	14000	67	6380	27000	-	-	-	-	-	-	-	-	See Note 6	-	-	-	-	-	-	-
GWPS (Note 7):				2.78	21.19	1610	14000	67	6380	27000	0.006	0.0222	2	0.148	0.0291	0.1	0.146	0.015	3.68	0.002	0.1	0.103	0.002	n/a	n/a	5
Well ID	Sample Date	Type																								
EP-31	EP-31	2/8/2022	N	3.07	5.49	510 B	196	2.16 JH	3370	4720	<0.00589	0.0353	<0.00135	0.0676	0.0162	<0.000811	0.111	<0.00237	0.737	<0.0000263	0.00726 J	<0.00439	<0.00621	0.37	0.477 ± 0.713 U G	0.847
	EP-31	9/28/2022	N	3.76	0.69 B	111	166	1.74	3270	5140	<0.015	<0.006	<0.0035	0.068	0.00408 J	<0.005	0.0268	<0.00405	0.684	0.0017	<0.0065	<0.0041	<0.0023	0.69	1.99 ± 0.688	2.68
EP-32	EP-32	2/8/2022	N	6.79	19.7	438 B	2350	3.09 J	4740	8330	<0.0589	<0.055	<0.0135	<0.0049	<0.0243	<0.00811	<0.00673	<0.0237	0.984	<0.0000263	<0.0123	<0.0439	<0.0621	0.74	3.96 ± 0.931	4.7
	EP-32	9/28/2022	N	6.95	15.3	526	3060	<0.1	4300	12100	<0.06	<0.048	<0.028	<0.0368	<0.026	<0.04	<0.0224	<0.0324	1.26	0.00163	<0.052	<0.0328	<0.0184	0.12 U	5.7 ± 0.944	5.82
EP-33	EP-33	2/8/2022	N	6.58	55	446 B	2620	5.8	3220	10900	<0.0589	0.0628 J	<0.0135	<0.0049	<0.0243	<0.00811	<0.00673	<0.0237	0.671	<0.0000263	<0.0123	<0.0439	<0.0621	0.77	3.1 ± 0.818	3.87
	EP-33	2/8/2022	Dup	-	58.6	480 B	2590	<1	3210	12100	<0.0589	<0.055	<0.0135	<0.0049	<0.0243	<0.00811	<0.00673	<0.0237	0.51	<0.0000263	0.0133 J	<0.0439	<0.0621	0.62	2.17 ± 0.727	2.79
	EP-33	9/28/2022	N	6.61	61	449	2290	0.154 J	3200	8110	<0.15	<0.12	<0.07 J	<0.092	<0.065	<0.1 J	<0.056	<0.081	0.542 J	0.00103	<0.13 J	<0.082	<0.046	0.45	1.88 ± 0.578	2.33
	EP-33	9/28/2022	Dup	-	70.5 B	475	2300	<1	3180	8850	<0.0075 J	<0.006	0.0182 J	<0.0046	<0.00325	0.00765 J	<0.0028	<0.00405	0.791 J	0.00103	0.0112 J	<0.0041	<0.0023	0.4	2.71 ± 0.602	3.11
EP-34	EP-34	2/8/2022	N	6.81	27.6	461 B	4320	<1	3740	10800	<0.0589	<0.055	<0.0135	<0.0049	<0.0243	<0.00811	<0.00673	<0.0237	1.25	<0.0000263	<0.0123	<0.0439	<0.0621	1.41	6.36 ± 1.27 G	7.77
	EP-34	9/28/2022	N	6.84	39.2	515	4000	<0.1	3220	11000	<0.06	<0.048	0.0292 J	<0.0368	<0.026	<0.04	<0.0224	<0.0324	1.09	0.00117	<0.052	<0.0328	<0.0184	0.65	8.33 ± 1.23	8.98
EP-35	EP-35	2/8/2022	N	6.21	32.8	330 B	3930	<1	3420	13600	<0.0589	<0.055	0.0164 J	<0.0049	<0.0243	0.0149 J	<0.00673	<0.0237	1.12	<0.0000263	<0.0123	<0.0439	<0.0621	0.51	1.99 ± 0.643	2.5
	EP-35	9/28/2022	N	6.39	33.2	399	3550	<0.1	3120	10300	<0.06	<0.048	<0.028	<0.0368	<0.026	<0.04	<0.0224	<0.0324	1.26	0.000606	<0.052	<0.0328	<0.0184	0.87	3.64 ± 0.75	4.51
EP-36	EP-36	2/8/2022	N	6.24	28.5	423 B	3900	1.44 J	2730	10700	0.0617 J	<0.055	0.0152 J	<0.0049	<0.0243	<0.00811	<0.00673	<0.0237	1.23	<0.0000263	<0.0123	<0.0439	<0.0621	1.12	3.3 ± 0.882	4.42
	EP-36	9/28/2022	N	6.31	22.9	497	2170	<1	1570	9060	<0.06	<0.048	0.0394 J	<0.0368	<0.026	<0.04	<0.0224	<0.0324	1.1	<0.00015	<0.052	<0.0328	<0.0184	0.72	4.53 ± 0.841	5.25
EP-37	EP-37	2/8/2022	N	6.46	7.14	394 B	3570	<1	2810	10000	<0.0589	<0.055	<0.0135	<0.0049	<0.0243	<0.00811	<0.00673	<0.0237	1.09	<0.0000263	<0.0123	<0.0439	<0.0621	1.12	7.11 ± 1.25	8.23
	EP-37	9/28/2022	N	6.36	6.78	432	3280	<0.1	2670	9250	<0.0075 J	<0.006	0.0234	<0.0046	<0.00325	0.0063 J	<0.0028	<0.00405	1.46	0.000726	<0.0065	<0.0041	<0.0023	0.58	3.77 ± 0.69	4.35
EP-38	EP-38	2/8/2022	N	5.58	2.42	344 B	1130	0.276 J	2280	4790	<0.0589	<0.055	<0.0135	<0.0049	<0.0243	0.00855 J	<0.00673	<0.0237	0.453	<0.0000263	<0.0123	<0.0439	<0.0621	0.44	1.69 ± 0.724	2.13
	EP-38	9/28/2022	N	5.65	2.09 B	359	1070	<1	2190	4740	<0.015	<0.012	0.0138 J	<0.0092	<0.0065	<0.01	<0.0056	<0.0081	0.696	0.000808	<0.013	<0.0082	<0.0046	0.13 U	1.74 ± 0.481	1.87
MW-04	MW-04	2/8/2022	N	6.15	7.31	285 B	1710	0.215 JH	2550	7300	<0.0589	<0.055	<0.0135	<0.0049	<0.0243	<0.00811	<0.00673	<0.0237	0.663	<0.0000263	<0.0123	<0.0439	<0.0621	0.86	3.06 ± 0.846	3.92
	MW-04	9/28/2022	N	6.2	8.78	299	1570	<1	2310	5660	<0.0075 J	<0.006	<0.0035	<0.0046	<0.00325	0.00565 J	<0.0028	<0.00405	0.771	<0.00015	<0.0065	0.00858	<0.0023	0.39	2.58 ± 0.592	2.97

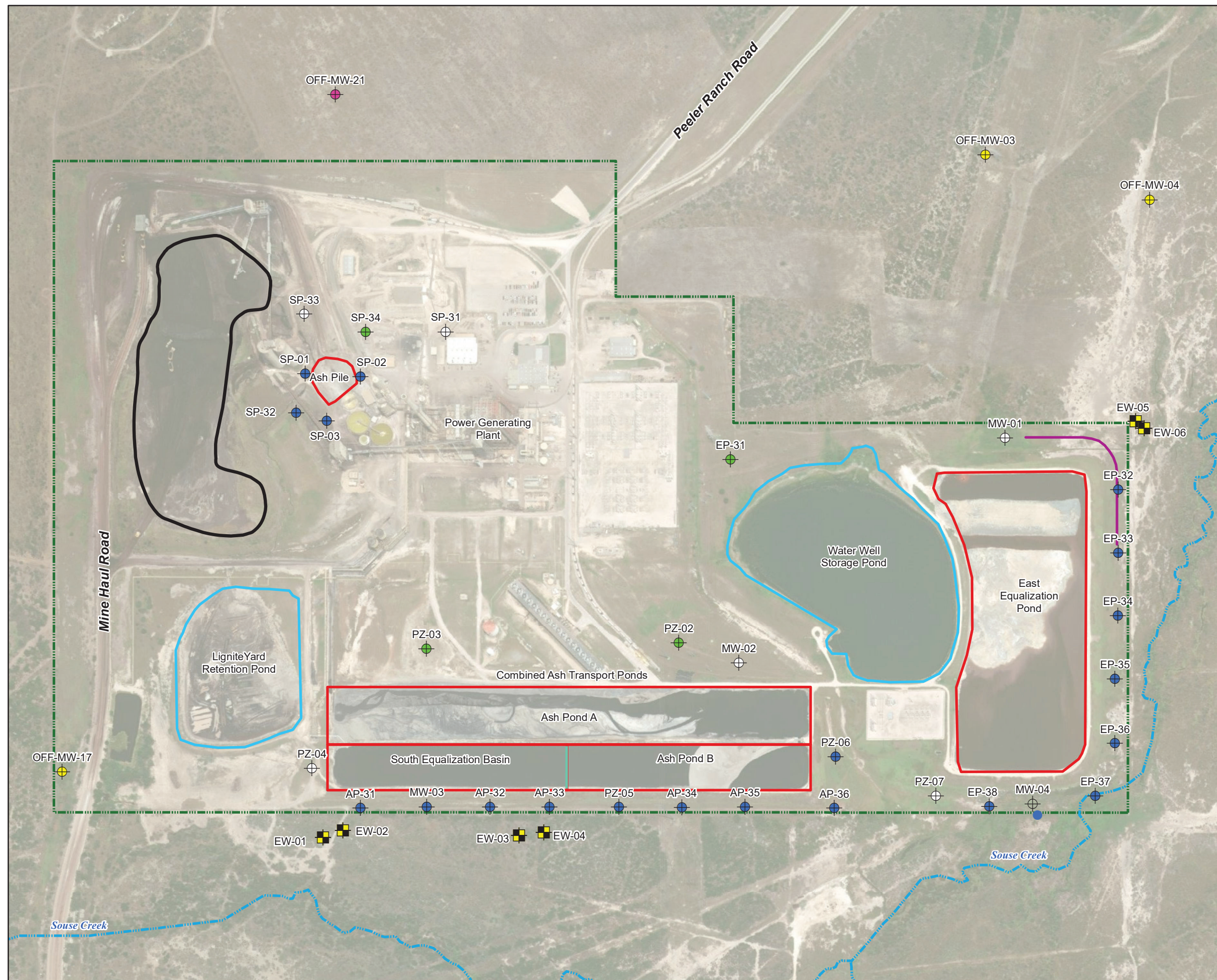
- Notes:
- This table includes semiannual assessment/corrective action monitoring (Appendix III and IV) results from the upgradient and downgradient wells at the East Equalization Pond (EEP), for the reporting year. The EEP was closed in 2022. See report text for details.
 - Fluoride is included in both 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.

2022 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

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

Figures

- Figure 1 Site Map
- Figure 2 Potentiometric Surface - February 2022
- Figure 3 Potentiometric Surface - September 2022



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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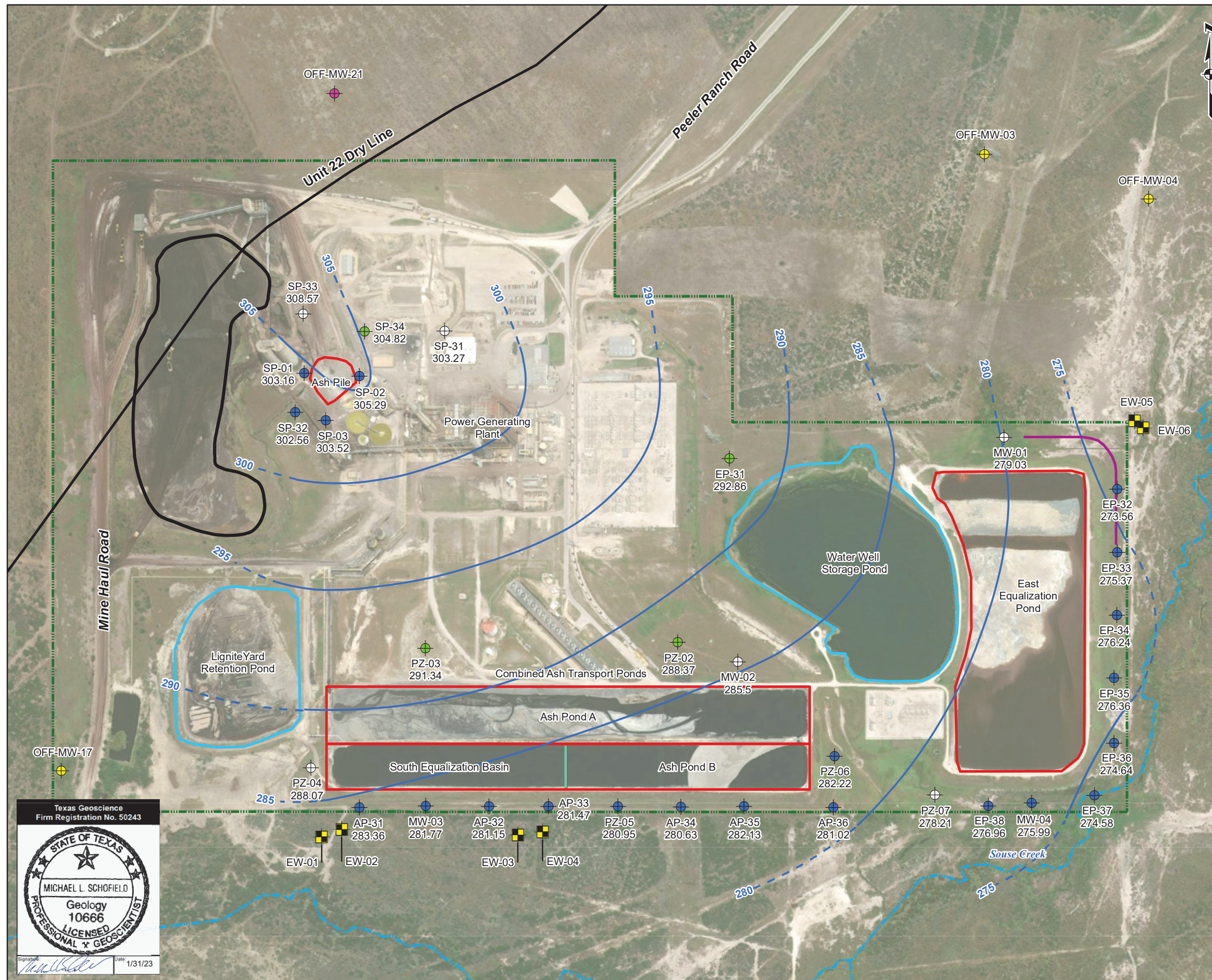


SITE MAP

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 (Not in operation during February 2022 sampling event)
- Off-Site Unit 22 Assessment Monitoring
- Off-Site Deeper Sand Monitoring
- Upgradient Coal Combustion Residual (CCR) Monitoring Well
- Downgradient CCR Monitoring
- Groundwater Elevation Observation
- Approximate Plant Property
- CCR Unit
- Non-CCR Impoundment
- Lignite Storage Pile
- Interim Interceptor
- 253.31 Groundwater Elevation (ft amsl)
- Groundwater Potentiometric Surface, dashed where inferred
- Unit 22 Dry Boundary, dashed where inferred (wells NW of this line are interpreted to be screened in the Deeper Sand)

Notes

- Groundwater elevations from on-site wells are calculated using top of casing elevations reported in "Groundwater Sampling Report - Event 8 - August 2017" (AECOM, 2017). All on-site depth to water measurements were collected by GSI Environmental Inc., February 8, 2022.
- The off-site monitoring wells are shown for reference only. These wells are not included in the CCR semi-annual groundwater monitoring program.
- ft amsl = feet above mean sea level.
- Groundwater extraction wells were installed by GSI Environmental Inc., August 8-20, 2020.
- 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 2022

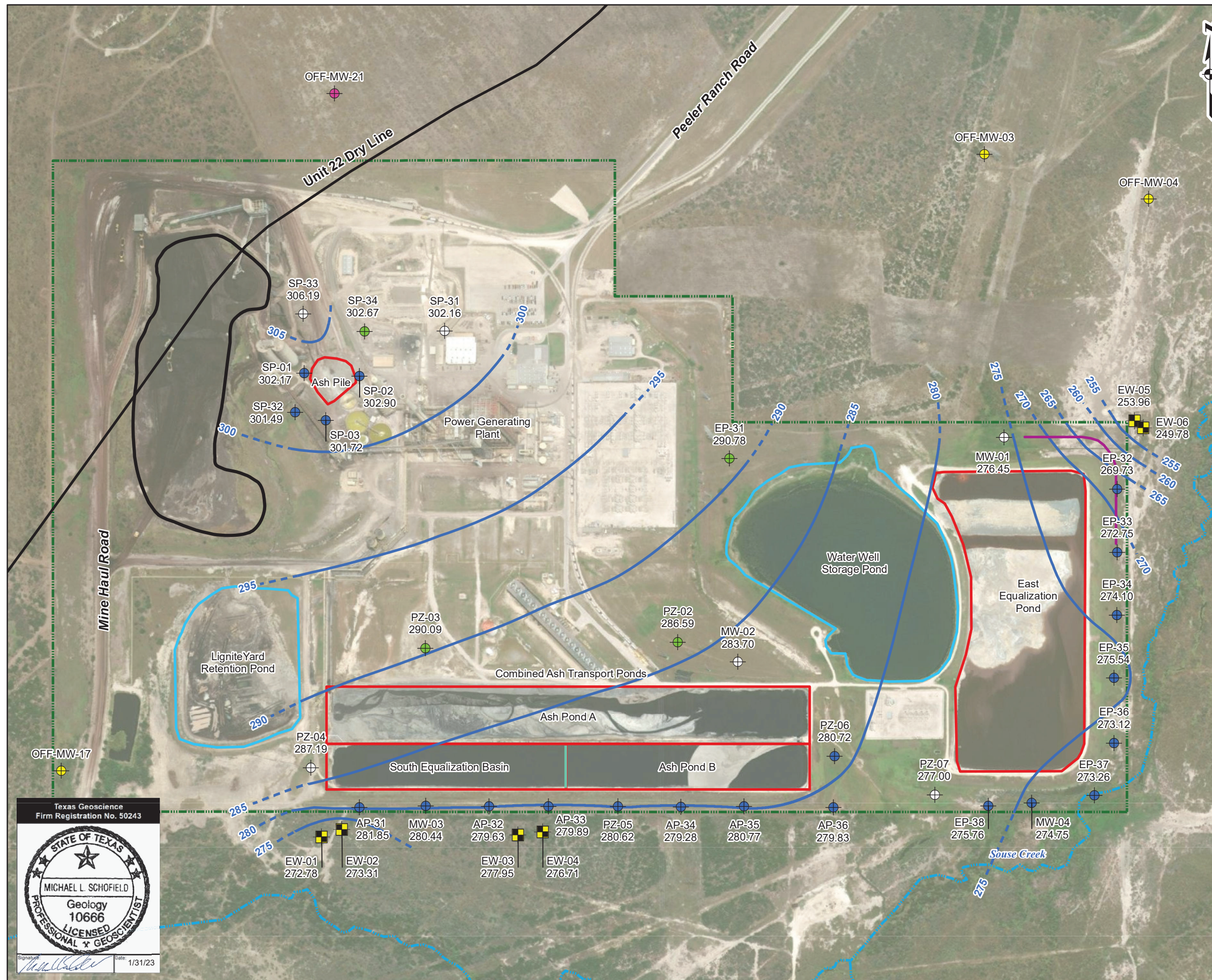
San Miguel Electric Cooperative, Inc. Plant
Atascosa County, Texas

GSI Job No.	5076-109	Drawn By:	RTC
Issued:	13-Jan-2023	Chk'd By:	MLS
Map ID:	SMEC_GWE_0222_2022-Feb	Appv'd By:	SDR

FIGURE 2

Texas Geoscience
Firm Registration No. 50243

Signature: *Michael L. Schofield* Date: 1/31/23



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

253.31 Groundwater Elevation (ft amsl)

Groundwater Potentiometric Surface, dashed where inferred

Unit 22 Dry Boundary, dashed where inferred (wells NW of this line are interpreted to be screened in the Deeper Sand)

Notes

1. Groundwater elevations from on-site wells are calculated using top of casing elevations reported in "Groundwater Sampling Report - Event 8 - August 2017" (AECOM, 2017). All on-site depth to water measurements were collected by GSI Environmental Inc., September 28, 2022.
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 2022

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

GSI Job No.	5076-109	Drawn By:	RTC
Issued:	13-Jan-2023	Chk'd By:	MLS
Map ID:	SMEC_GWE_0222_2022-Sep	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: 1/31/23

2022 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

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

Appendices

Appendix A Cumulative Groundwater Analytical Results for CCR Monitoring Network Wells

Appendix B Data Usability Summaries and Laboratory Analytical Reports

Appendix B.1 Data Usability Summaries – February 2022

Appendix B.2 Data Usability Summaries – September 2022

Appendix B.3 Laboratory NELAP Accreditation

2022 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

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

Appendix A. Cumulative Groundwater Analytical Results for CCR

2022 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

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

Appendix B. Data Usability Summaries and Laboratory Analytical Reports

Appendix B.1 Data Usability Summaries – February 2022

Appendix B.2 Data Usability Summaries – September 2022

Appendix B.3 Laboratory NELAP Accreditation

2022 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

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

Appendix B.1 Data Usability Summaries – February 2022
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DATA USABILITY SUMMARY

February 2022 Sampling Event (Job ID: 860-20575-1)

OVERVIEW

GSI Environmental Inc. (GSI) reviewed one data package from Eurofins Xenco located in Stafford, Texas (XEN STF) for the analysis of **twelve groundwater samples collected from the Equalization Pond on 08 February 2022** at the San Miguel Electric Cooperative, Inc., Christine, Atascosa County, Texas site. XEN STF sent the samples to Eurofins TestAmerica located in St. Louis, Missouri (TAL SL) for Radium-226 and Eurofins Eaton located in South Bend, Indiana (EA SB) for Radium-228 analysis. 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, XEN STF, TAL SL and EA SB were National Environmental Laboratory Accreditation Program (NELAP)-accredited under the Texas Laboratory Accreditation Program (Certification Number: T104704215-21-44, T104704193 and T104704187-20-4, respectively) for the matrices, analytes, and methods of analysis requested on the chain-of-custody documentation, with the following exceptions. XEN STF is not certified for silicon dioxide (SiO₂) analysis by method 6010C or Bicarbonate Alkalinity as calcium carbonate (CaCO₃), Carbonate Alkalinity as CaCO₃ or Hydroxide Alkalinity by Method 2320B. TAL SL is not certified for Radium-228 by method 904.0. A copy of XEN STF's NELAP certificate applicable to the period during which the laboratory generated the data in this report is included in Appendix A.

Intended Use of Data

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

- Method 6010C - Metals (Inductively Coupled Plasma (ICP))
- Method 300.0 – Anions, Ion Chromatography
- Method SM2320B - Alkalinity
- Method SM2540C - Total Dissolved Solids (TDS)
- Method 7470A – Mercury (Cold Vapor Atomic Absorption (CVAA) Spectroscopy)
- Method 904.0 – Radium-228 (GFPC)
- Method 7500 Ra B – Radium-226

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

- the reportable data (i.e., results provided in the laboratory data package),
- the laboratory review checklists and associated exception reports, and

- the field notes with respect to field instrument calibrations, filtering procedures (if applicable), and sampling procedures.

The results of supporting quality control (QC) analyses were summarized in the laboratory case narrative (LCN), which was included in this review. The LCN 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	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 sample detection limit (SDL). Results between the SDL and sample quantitation limit (SQL) 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 C-O-C. The samples were received by the laboratory in the appropriate containers and in good condition. The receipt temperature of the samples was below the acceptance criteria of 2°C - 6°C, at concentrations ranging from 0.8°C to 1.6°C. Samples were prepared and analyzed within method-specified holding times, and field preservation was done as specified in the Sampling and Analysis Plan [SAP] (GSI,2019). Items related to the preservation, holding times and sample dilution are listed below.

- Several samples were diluted due to the nature of the sample matrix. These included EP-32, EP-33, EP-34, EP-35, EP-36, EP-37, EP-38, MW-04, DUP-03, FB-03 and EB-02. Elevated reporting limits (RLs) were provided by the laboratory.

Finding: No additional qualifiers were added per this evaluation.

Radium Results

According to the LCN, 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 the LCN. Radium 228 sample results in batch 552748 are reported with the count date/time applied as the Activity Reference Date.

The LCN noted that the Radium 228 detection goal was not met for samples EP-31, EP-34, and FB-03, and there was insufficient volume remaining due to re-analysis. Analytical results were reported by the laboratory with the detection limit achieved.

Finding: No qualifiers were added per this evaluation

Calibrations

No calibration issues were identified in the laboratory report narrative or during review of the laboratory data package.

Finding: No qualifiers were added per this evaluation.

Blanks

Method Blanks

- The method blank for preparation batch 860-41270 and analytical batch 860-42360 contained Calcium, Magnesium, Selenium and Thallium above the method detection limit (MDL). The target analyte concentrations were less than the RL; therefore, re-extraction and/or re-analysis of the samples was not performed by the laboratory. The laboratory qualified affected samples with a "B". No additional qualifiers were added because none of the affected samples were detected at concentrations that were <5X the blank concentration.

Field Blanks

- One field blank, FB-03, was collected at the same location as EP-36 and analyzed for the same parameters as the "normal" sample. Sulfate, Chromium and Total Dissolved Solids (TDS) were detected at concentrations above the MDL. However, the none of these analytes was detected in sample EP-36 at concentrations that were within five times (5X) the associated field blank concentrations.

Equipment Blanks

- One equipment blank, EB-02, was collected at the same location as MW-04 and analyzed for the same parameters as the "normal" sample. Fluoride, Sulfate, Antimony and TDS were detected at concentrations above the MDL. However, only Fluoride was detected in sample MW-04 at a concentration that was within 5X the associated equipment blank concentration.

Finding: "JH" qualifiers were issued to Fluoride results in MW-04 because the results were within 5X of the concentration detected in the associated equipment blank

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 LRC indicated the following issues with matrix spike (MS)/matrix spike duplicate (MSD) data:

- The MS/MSD recoveries for sample EP-31 in preparation batch 860-41270 and analytical batch 860-42360 were outside control limits for Silicon and Sodium. Sample matrix interference and/or non-homogeneity are suspected because the associated LCS recovery was within acceptance limits.
 - The spiking amount was less than four times (4X) the result in the un-spiked parent sample for Silicon and Sodium; therefore, the MS/MSD recoveries for these analytes do not represent the matrix effect.
- The MS/MSD recoveries for sample EP-31 in analytical batch 860-41162 were outside control limits for Chloride, Fluoride and Sulfate. Sample matrix interference and/or non-homogeneity are suspected because the associated LCS recovery was within acceptance limits.
 - The spiking amount was less than 4X the result in the un-spiked parent sample for Chloride and Sulfate; therefore, the MS/MSD recoveries for these analytes do not represent the matrix effect.
 - The spiking amount was greater than 4X the result in the un-spiked parent sample for Fluoride and sample matrix interference and/or high target concentration is suspected.

Findings: GSI added “JH” qualifiers to detected results of Fluoride in sample EP-31 and the associated MSD sample because the Percent Recovery (%R) was above specifications.

Field Duplicates (Field Precision)

A field duplicate identified as DUP-03 was collected for sample EP-33 during the field event. Field precision was calculated and the RPD was within the project-defined QC acceptance criteria for all analytes. A comparison of the field sample and the duplicate sample is 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. No data were rejected based on this review and validation. However, a limited number of qualifiers were added to affected samples.

REFERENCES

- GSI Environmental, Inc., 2019, Groundwater Sampling and Analysis Plan, San Miguel Electric Cooperative, Inc., December 26.
- TCEQ 2010. Review and Reporting of COC Concentration Data under TRRP, RG-366/TRRP-13
https://www.tceq.texas.gov/assets/public/comm_exec/pubs/rg/rg-366-trrp-13.pdf

TABLES

TABLE 1
Cross-Reference Field Sample and Laboratory Identifications

Sample Date	Lab	Lab Sample ID	Field Sample ID	Matrix
02/08/2022	XEN STF	860-20575-1	EP-31	Water
02/08/2022	XEN STF	860-20575-2	EP-32	Water
02/08/2022	XEN STF	860-20575-3	EP-33	Water
02/08/2022	XEN STF	860-20575-4	EP-34	Water
02/08/2022	XEN STF	860-20575-5	EP-35	Water
02/08/2022	XEN STF	860-20575-6	EP-36	Water
02/08/2022	XEN STF	860-20575-7	EP-37	Water
02/08/2022	XEN STF	860-20575-8	EP-38	Water
02/08/2022	XEN STF	860-20575-9	MW-04	Water
02/08/2022	XEN STF	860-20575-10	DUP-03	Water
02/08/2022	XEN STF	860-20575-11	FB-03	Water
02/08/2022	XEN STF	860-20575-12	EB-02	Water

Notes:

1. XEN STF: Eurofins Xenco, Stafford, Texas

TABLE 2
Qualifiers Added During Data Usability Review

Sample ID	Analyte	Lab Result	Unit	DUS Qualifier or Bias Code	Reason for Qualification	Batch Number	Report Number
EP-31	Fluoride	2.16	mg/L	JH	MS/MSD %R above Specifications	860-41162	860-20575-1
EP-31	Fluoride	13.18	mg/L	JH	MS/MSD %R above Specifications	860-41162	860-20575-1
MW-04	Fluoride	0.215 J	mg/L	JH	Detected result within 5X of the EB concentration	860-41162	860-20575-1

Notes:

1. mg/L: milligrams per liter.
2. JH: Estimated value, biased high
3. 5X: Five times
4. MDL: Method Detection Limit
5. EB: Equipment Blank

TABLE 3
Field Duplicate Detections

Analyte	MQL (MDL) (mg/L)	Primary Sample Result (mg/L)	Field Duplicate Result (mg/L)	Relative Percent Difference	Notes
EP-33 and DUP-03					
Chloride	2.00	2620	2590	1.15 %	A
Fluoride	1.00	5.80	1.00 U		< 5X MQL; A
Sulfate	1.09	3220	3210	0.31 %	A
Arsenic	0.0550	0.0628 J	0.0550 U		< 5X MQL; A
Boron	0.0343	55.0	58.6	6.34 %	A
Calcium	0.293	446 B	480 B	7.34 %	A
Magnesium	0.500	38.3 B	41.4 B	7.78 %	A
Molybdenum	0.0123	0.0123 U	0.0133 J		< 5X MQL; A
Potassium	1.07	38.6	41.9	8.12 %	A
Sodium	3.33	2630	2610	0.76 %	A
Lithium	0.0448	0.671	0.510	27.26 %	A
SiO ₂	0.781	72.0	77.6	7.49 %	A
Total Alkalinity	4.00	281	280	0.36 %	A
Bicarbonate Alkalinity as CaCO ₃	4.00	281	280	0.36 %	A
TDS	100	10900	12100	10.44 %	A

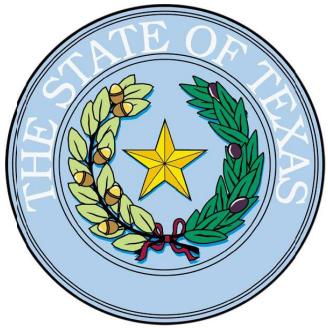
Notes:

1. MQL: Method Quantitation Limit
2. MDL: Method Detection Limit
3. J: The result is less than the RL but greater than or equal to the MDL and the result is estimated
4. B: Compound was found in the blank and sample
5. U: The compound was not detected
6. mg/L: milligrams per liter
7. RPD = (PR-FD)/AVERAGE(PR+FD)*100, where PR is the Primary Sample and FD is the Field Duplicate
8. A = Acceptable RPD.
9. <5MQL; The sample result is less than five times the MQL/MDL.

Attachment A

Eurofins Xenco, Stafford

TCEQ NELAP-Recognized Laboratory Accreditation Certificate



Texas Commission on Environmental Quality

NELAP-Recognized Laboratory Accreditation is hereby awarded to



Eurofins Xenco, LLC - Houston

4147 Greenbriar Drive
Stafford, TX 77477-3907

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: T104704215-21-44

Effective Date: 7/14/2021

Expiration Date: 6/30/2022

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

**Executive Director Texas Commission on
Environmental Quality**

Attachment B
Eurofins Xenco, Stafford
Analytical Report
Job ID.: 860-20575-1

ANALYTICAL REPORT

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Tel: (281)240-4200

Laboratory Job ID: 860-20575-1

Client Project/Site: San Miguel Electrical Co-Op 2H21 GW

For:

GSI Environmental, Inc
9600 Great Hills Trail
Suite 350E
Austin, Texas 78759

Attn: Mike Schofield



Authorized for release by:
3/11/2022 9:33:27 AM

Sachin Kudchadkar, Senior Project Manager
(713)690-4444

Sachin.Kudchadkar@Eurofinset.com

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www.eurofinsus.com/Env

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

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



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Definitions/Glossary

Client: GSI Environmental, Inc
Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20575-1

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.
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
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
G	The Sample MDC is greater than the requested RL.
U	Result is less than the sample detection limit.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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 2H21 GW

Job ID: 860-20575-1

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 2H21 GW

Job ID: 860-20575-1

Job ID: 860-20575-1

Laboratory: Eurofins Houston

Narrative

Job Narrative 860-20575-1

Comments

No additional comments.

Receipt

The samples were received on 2/9/2022 9:03 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 0.8° C, 1.0° C, 1.3° C and 1.6° C.

RAD

Method PrecSep_0:

Method PrecSep_0:

Method PrecSep_0:

Methods 904.0, 9320: Radium 228 batch 550463

The detection goal was not met for the following sample(s). Samples were prepped at a reduced volume. There was insufficient volume remaining due to re-analysis : EP-31 (860-20575-1), EP-34 (860-20575-4) and FB-03 (860-20575-11). Analytical results are reported with the detection limit achieved.

Methods 904.0, 9320: Radium 228 batch 550463

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 (860-20575-1), EP-31 (860-20575-1[MS]), EP-31 (860-20575-1[MSD]), EP-32 (860-20575-2), EP-33 (860-20575-3), EP-34 (860-20575-4), EP-35 (860-20575-5), EP-36 (860-20575-6), EP-37 (860-20575-7), EP-38 (860-20575-8), MW-04 (860-20575-9), DUP-03 (860-20575-10), FB-03 (860-20575-11), EB-02 (860-20575-12), (LCS 160-550463/1-A) and (MB 160-550463/19-A)

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

Metals

Method 6010C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 860-41270 and analytical batch 860-42360 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 6010C: The following samples were diluted due to the nature of the sample matrix: EP-32 (860-20575-2), EP-33 (860-20575-3), EP-34 (860-20575-4), EP-35 (860-20575-5), EP-36 (860-20575-6), EP-37 (860-20575-7), EP-38 (860-20575-8), MW-04 (860-20575-9), DUP-03 (860-20575-10), FB-03 (860-20575-11) and EB-02 (860-20575-12). Elevated reporting limits (RLs) are provided.

Method 6010C: The method blank for preparation batch 860-41270 and analytical batch 860-42360 contained Calcium, Magnesium, Selenium and Thallium 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.

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 matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-41162 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Case Narrative

Client: GSI Environmental, Inc
Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20575-1

Job ID: 860-20575-1 (Continued)

Laboratory: Eurofins Houston (Continued)

Method 300.0: Due to the high concentration of Sulfate, the matrix spike / matrix spike duplicate (MS/MSD) for analytical batch 860-41162 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.

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Detection Summary

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20575-1

Client Sample ID: EP-31

Lab Sample ID: 860-20575-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Chloride	196		0.500	0.200	mg/L	1			300.0	Total/NA
Fluoride	2.16	F1	0.500	0.100	mg/L	1			300.0	Total/NA
Sulfate - DL	3370		5.00	1.09	mg/L	10			300.0	Total/NA
Arsenic	0.0353		0.0100	0.00550	mg/L	1			6010C	Total/NA
Beryllium	0.0676		0.00400	0.000490	mg/L	1			6010C	Total/NA
Boron	5.49		0.0500	0.00343	mg/L	1			6010C	Total/NA
Cadmium	0.0162		0.00500	0.00243	mg/L	1			6010C	Total/NA
Calcium	510	B	10.0	1.47	mg/L	50			6010C	Total/NA
Cobalt	0.111		0.0100	0.000673	mg/L	1			6010C	Total/NA
Magnesium	43.5	B	0.200	0.0500	mg/L	1			6010C	Total/NA
Molybdenum	0.00726	J	0.0100	0.00123	mg/L	1			6010C	Total/NA
Potassium	43.2		0.500	0.107	mg/L	1			6010C	Total/NA
Sodium	868		5.00	0.667	mg/L	10			6010C	Total/NA
Lithium	0.737		0.0200	0.00448	mg/L	1			6010C	Total/NA
SiO2	108		1.07	0.0781	mg/L	1			6010C	Total/NA
Total Dissolved Solids	4720		40.0	40.0	mg/L	1			SM 2540C	Total/NA

Client Sample ID: EP-32

Lab Sample ID: 860-20575-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Chloride - DL	2350		5.00	2.00	mg/L	10			300.0	Total/NA
Fluoride - DL	3.09	J	5.00	1.00	mg/L	10			300.0	Total/NA
Sulfate - DL	4740		5.00	1.09	mg/L	10			300.0	Total/NA
Boron	19.7		0.500	0.0343	mg/L	10			6010C	Total/NA
Calcium	438	B	2.00	0.293	mg/L	10			6010C	Total/NA
Magnesium	51.8	B	2.00	0.500	mg/L	10			6010C	Total/NA
Potassium	43.0		5.00	1.07	mg/L	10			6010C	Total/NA
Sodium	3170		25.0	3.33	mg/L	50			6010C	Total/NA
Lithium	0.984		0.200	0.0448	mg/L	10			6010C	Total/NA
SiO2	57.2		10.7	0.781	mg/L	10			6010C	Total/NA
Total Alkalinity	259		4.00	4.00	mg/L	1			SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	259		4.00	4.00	mg/L	1			SM 2320B	Total/NA
Total Dissolved Solids	8330		100	100	mg/L	1			SM 2540C	Total/NA

Client Sample ID: EP-33

Lab Sample ID: 860-20575-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Chloride - DL	2620		5.00	2.00	mg/L	10			300.0	Total/NA
Fluoride - DL	5.80		5.00	1.00	mg/L	10			300.0	Total/NA
Sulfate - DL	3220		5.00	1.09	mg/L	10			300.0	Total/NA
Arsenic	0.0628	J	0.100	0.0550	mg/L	10			6010C	Total/NA
Boron	55.0		0.500	0.0343	mg/L	10			6010C	Total/NA
Calcium	446	B	2.00	0.293	mg/L	10			6010C	Total/NA
Magnesium	38.3	B	2.00	0.500	mg/L	10			6010C	Total/NA
Potassium	38.6		5.00	1.07	mg/L	10			6010C	Total/NA
Sodium	2630		25.0	3.33	mg/L	50			6010C	Total/NA
Lithium	0.671		0.200	0.0448	mg/L	10			6010C	Total/NA
SiO2	72.0		10.7	0.781	mg/L	10			6010C	Total/NA
Total Alkalinity	281		4.00	4.00	mg/L	1			SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	281		4.00	4.00	mg/L	1			SM 2320B	Total/NA
Total Dissolved Solids	10900		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: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20575-1

Client Sample ID: EP-34

Lab Sample ID: 860-20575-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Chloride - DL	4320		5.00	2.00	mg/L	10			300.0	Total/NA
Sulfate - DL	3740		5.00	1.09	mg/L	10			300.0	Total/NA
Boron	27.6		0.500	0.0343	mg/L	10			6010C	Total/NA
Calcium	461	B	2.00	0.293	mg/L	10			6010C	Total/NA
Magnesium	62.3	B	2.00	0.500	mg/L	10			6010C	Total/NA
Potassium	48.5		5.00	1.07	mg/L	10			6010C	Total/NA
Sodium	3920		25.0	3.33	mg/L	50			6010C	Total/NA
Lithium	1.25		0.200	0.0448	mg/L	10			6010C	Total/NA
SiO2	53.7		10.7	0.781	mg/L	10			6010C	Total/NA
Total Alkalinity	282		4.00	4.00	mg/L	1			SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	282		4.00	4.00	mg/L	1			SM 2320B	Total/NA
Total Dissolved Solids	10800		100	100	mg/L	1			SM 2540C	Total/NA

Client Sample ID: EP-35

Lab Sample ID: 860-20575-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Chloride - DL	3930		5.00	2.00	mg/L	10			300.0	Total/NA
Sulfate - DL	3420		5.00	1.09	mg/L	10			300.0	Total/NA
Barium	0.0164	J	0.100	0.0135	mg/L	10			6010C	Total/NA
Boron	32.8		0.500	0.0343	mg/L	10			6010C	Total/NA
Calcium	330	B	2.00	0.293	mg/L	10			6010C	Total/NA
Chromium	0.0149	J	0.100	0.00811	mg/L	10			6010C	Total/NA
Magnesium	55.3	B	2.00	0.500	mg/L	10			6010C	Total/NA
Potassium	42.5		5.00	1.07	mg/L	10			6010C	Total/NA
Sodium	3640		25.0	3.33	mg/L	50			6010C	Total/NA
Lithium	1.12		0.200	0.0448	mg/L	10			6010C	Total/NA
SiO2	77.8		10.7	0.781	mg/L	10			6010C	Total/NA
Total Alkalinity	205		4.00	4.00	mg/L	1			SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	205		4.00	4.00	mg/L	1			SM 2320B	Total/NA
Total Dissolved Solids	13600		100	100	mg/L	1			SM 2540C	Total/NA

Client Sample ID: EP-36

Lab Sample ID: 860-20575-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Chloride - DL	3900		5.00	2.00	mg/L	10			300.0	Total/NA
Fluoride - DL	1.44	J	5.00	1.00	mg/L	10			300.0	Total/NA
Sulfate - DL	2730		5.00	1.09	mg/L	10			300.0	Total/NA
Antimony	0.0617	J	0.200	0.0589	mg/L	10			6010C	Total/NA
Barium	0.0152	J	0.100	0.0135	mg/L	10			6010C	Total/NA
Boron	28.5		0.500	0.0343	mg/L	10			6010C	Total/NA
Calcium	423	B	2.00	0.293	mg/L	10			6010C	Total/NA
Magnesium	77.9	B	2.00	0.500	mg/L	10			6010C	Total/NA
Potassium	46.6		5.00	1.07	mg/L	10			6010C	Total/NA
Sodium	3080		25.0	3.33	mg/L	50			6010C	Total/NA
Lithium	1.23		0.200	0.0448	mg/L	10			6010C	Total/NA
SiO2	63.5		10.7	0.781	mg/L	10			6010C	Total/NA
Total Alkalinity	192		4.00	4.00	mg/L	1			SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	192		4.00	4.00	mg/L	1			SM 2320B	Total/NA
Total Dissolved Solids	10700		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: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20575-1

Client Sample ID: EP-37

Lab Sample ID: 860-20575-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Chloride - DL	3570		5.00	2.00	mg/L	10			300.0	Total/NA
Sulfate - DL	2810		5.00	1.09	mg/L	10			300.0	Total/NA
Boron	7.14		0.500	0.0343	mg/L	10			6010C	Total/NA
Calcium	394	B	2.00	0.293	mg/L	10			6010C	Total/NA
Magnesium	68.6	B	2.00	0.500	mg/L	10			6010C	Total/NA
Potassium	50.3		5.00	1.07	mg/L	10			6010C	Total/NA
Sodium	3100		25.0	3.33	mg/L	50			6010C	Total/NA
Lithium	1.09		0.200	0.0448	mg/L	10			6010C	Total/NA
SiO2	54.6		10.7	0.781	mg/L	10			6010C	Total/NA
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	10000		100	100	mg/L	1			SM 2540C	Total/NA

Client Sample ID: EP-38

Lab Sample ID: 860-20575-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Fluoride	0.276	J	0.500	0.100	mg/L	1			300.0	Total/NA
Chloride - DL	1130		5.00	2.00	mg/L	10			300.0	Total/NA
Sulfate - DL	2280		5.00	1.09	mg/L	10			300.0	Total/NA
Boron	2.42		0.500	0.0343	mg/L	10			6010C	Total/NA
Calcium	344	B	2.00	0.293	mg/L	10			6010C	Total/NA
Chromium	0.00855	J	0.100	0.00811	mg/L	10			6010C	Total/NA
Magnesium	51.5	B	2.00	0.500	mg/L	10			6010C	Total/NA
Potassium	35.2		5.00	1.07	mg/L	10			6010C	Total/NA
Sodium	1210		5.00	0.667	mg/L	10			6010C	Total/NA
Lithium	0.453		0.200	0.0448	mg/L	10			6010C	Total/NA
SiO2	108		10.7	0.781	mg/L	10			6010C	Total/NA
Total Alkalinity	63.0		4.00	4.00	mg/L	1			SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	63.0		4.00	4.00	mg/L	1			SM 2320B	Total/NA
Total Dissolved Solids	4790		40.0	40.0	mg/L	1			SM 2540C	Total/NA

Client Sample ID: MW-04

Lab Sample ID: 860-20575-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Fluoride	0.215	J	0.500	0.100	mg/L	1			300.0	Total/NA
Chloride - DL	1710		5.00	2.00	mg/L	10			300.0	Total/NA
Sulfate - DL	2550		5.00	1.09	mg/L	10			300.0	Total/NA
Boron	7.31		0.500	0.0343	mg/L	10			6010C	Total/NA
Calcium	285	B	2.00	0.293	mg/L	10			6010C	Total/NA
Magnesium	55.0	B	2.00	0.500	mg/L	10			6010C	Total/NA
Potassium	38.3		5.00	1.07	mg/L	10			6010C	Total/NA
Sodium	1630		5.00	0.667	mg/L	10			6010C	Total/NA
Lithium	0.663		0.200	0.0448	mg/L	10			6010C	Total/NA
SiO2	73.0		10.7	0.781	mg/L	10			6010C	Total/NA
Total Alkalinity	133		4.00	4.00	mg/L	1			SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	133		4.00	4.00	mg/L	1			SM 2320B	Total/NA
Total Dissolved Solids	7300		100	100	mg/L	1			SM 2540C	Total/NA

Client Sample ID: DUP-03

Lab Sample ID: 860-20575-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Chloride - DL	2590		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 2H21 GW

Job ID: 860-20575-1

Client Sample ID: DUP-03 (Continued)

Lab Sample ID: 860-20575-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate - DL	3210		5.00	1.09	mg/L	10		300.0	Total/NA
Boron	58.6		0.500	0.0343	mg/L	10		6010C	Total/NA
Calcium	480	B	2.00	0.293	mg/L	10		6010C	Total/NA
Magnesium	41.4	B	2.00	0.500	mg/L	10		6010C	Total/NA
Molybdenum	0.0133	J	0.100	0.0123	mg/L	10		6010C	Total/NA
Potassium	41.9		5.00	1.07	mg/L	10		6010C	Total/NA
Sodium	2610		25.0	3.33	mg/L	50		6010C	Total/NA
Lithium	0.510		0.200	0.0448	mg/L	10		6010C	Total/NA
SiO2	77.6		10.7	0.781	mg/L	10		6010C	Total/NA
Total Alkalinity	280		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	280		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	12100		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: FB-03

Lab Sample ID: 860-20575-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	0.208	J	0.500	0.109	mg/L	1		300.0	Total/NA
Chromium	0.0124	J	0.100	0.00811	mg/L	10		6010C	Total/NA
Total Dissolved Solids	78.5		5.00	5.00	mg/L	1		SM 2540C	Total/NA

Client Sample ID: EB-02

Lab Sample ID: 860-20575-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	0.125	J	0.500	0.100	mg/L	1		300.0	Total/NA
Sulfate	0.311	J	0.500	0.109	mg/L	1		300.0	Total/NA
Antimony	0.0928	J	0.200	0.0589	mg/L	10		6010C	Total/NA
Total Dissolved Solids	97.0		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 2H21 GW

Job ID: 860-20575-1

Client Sample ID: EP-31

Lab Sample ID: 860-20575-1

Date Collected: 02/08/22 11:55

Matrix: Water

Date Received: 02/09/22 09:03

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	196		0.500	0.200	mg/L			02/12/22 14:42	1
Fluoride	2.16	F1	0.500	0.100	mg/L			02/12/22 14:42	1

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	3370		5.00	1.09	mg/L			02/12/22 15:17	10

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00589	U	0.0200	0.00589	mg/L		02/12/22 08:10	02/21/22 16:48	1
Arsenic	0.0353		0.0100	0.00550	mg/L		02/12/22 08:10	02/21/22 16:48	1
Barium	0.00135	U	0.0100	0.00135	mg/L		02/12/22 08:10	02/21/22 16:48	1
Beryllium	0.0676		0.00400	0.000490	mg/L		02/12/22 08:10	02/21/22 16:48	1
Boron	5.49		0.0500	0.00343	mg/L		02/12/22 08:10	02/21/22 16:48	1
Cadmium	0.0162		0.00500	0.00243	mg/L		02/12/22 08:10	02/21/22 16:48	1
Calcium	510	B	10.0	1.47	mg/L		02/12/22 08:10	02/22/22 11:16	50
Chromium	0.000811	U	0.0100	0.000811	mg/L		02/12/22 08:10	02/21/22 16:48	1
Cobalt	0.111		0.0100	0.000673	mg/L		02/12/22 08:10	02/21/22 16:48	1
Magnesium	43.5	B	0.200	0.0500	mg/L		02/12/22 08:10	02/21/22 16:48	1
Lead	0.00237	U	0.0100	0.00237	mg/L		02/12/22 08:10	02/21/22 16:48	1
Molybdenum	0.00726	J	0.0100	0.00123	mg/L		02/12/22 08:10	02/21/22 16:48	1
Potassium	43.2		0.500	0.107	mg/L		02/12/22 08:10	02/21/22 16:48	1
Sodium	868		5.00	0.667	mg/L		02/12/22 08:10	02/21/22 16:59	10
Selenium	0.00439	U	0.0300	0.00439	mg/L		02/12/22 08:10	02/21/22 16:48	1
Thallium	0.00621	U	0.0200	0.00621	mg/L		02/12/22 08:10	02/21/22 16:48	1
Lithium	0.737		0.0200	0.00448	mg/L		02/12/22 08:10	02/21/22 16:48	1
SiO2	108		1.07	0.0781	mg/L		02/12/22 08:10	02/21/22 16:48	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0000263	U	0.000200	0.0000263	mg/L		02/10/22 08:15	02/10/22 13:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	4.00	U	4.00	4.00	mg/L			02/16/22 12:14	1
Bicarbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			02/16/22 12:14	1
Carbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			02/16/22 12:14	1
Hydroxide Alkalinity	4.00	U	4.00	4.00	mg/L			02/16/22 12:14	1
Total Dissolved Solids	4720		40.0	40.0	mg/L			02/12/22 15:38	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Radium-228	0.477	U G	0.712	0.713	1.00	1.20	pCi/L	02/14/22 15:48	02/21/22 13:26	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.0		40 - 110					02/14/22 15:48	02/21/22 13:26	1
Y Carrier	86.4		40 - 110					02/14/22 15:48	02/21/22 13:26	1

Eurofins Houston

Client Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20575-1

Client Sample ID: EP-31

Lab Sample ID: 860-20575-1

Date Collected: 02/08/22 11:55

Matrix: Water

Date Received: 02/09/22 09:03

Method: SM7500 Ra B - Radium-226

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra-226	0.370		0.170		1.00	0.110	pCi/L	02/18/22 11:21	03/09/22 12:07	1

Client Sample ID: EP-32

Lab Sample ID: 860-20575-2

Date Collected: 02/08/22 10:40

Matrix: Water

Date Received: 02/09/22 09:03

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2350		5.00	2.00	mg/L			02/12/22 15:42	10
Fluoride	3.09	J	5.00	1.00	mg/L			02/12/22 15:42	10
Sulfate	4740		5.00	1.09	mg/L			02/12/22 15:42	10

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0589	U	0.200	0.0589	mg/L		02/12/22 08:10	02/21/22 17:28	10
Arsenic	0.0550	U	0.100	0.0550	mg/L		02/12/22 08:10	02/21/22 17:28	10
Barium	0.0135	U	0.100	0.0135	mg/L		02/12/22 08:10	02/21/22 17:28	10
Beryllium	0.00490	U	0.0400	0.00490	mg/L		02/12/22 08:10	02/21/22 17:28	10
Boron	19.7		0.500	0.0343	mg/L		02/12/22 08:10	02/21/22 17:28	10
Cadmium	0.0243	U	0.0500	0.0243	mg/L		02/12/22 08:10	02/21/22 17:28	10
Calcium	438	B	2.00	0.293	mg/L		02/12/22 08:10	02/21/22 17:28	10
Chromium	0.00811	U	0.100	0.00811	mg/L		02/12/22 08:10	02/21/22 17:28	10
Cobalt	0.00673	U	0.100	0.00673	mg/L		02/12/22 08:10	02/21/22 17:28	10
Magnesium	51.8	B	2.00	0.500	mg/L		02/12/22 08:10	02/21/22 17:28	10
Lead	0.0237	U	0.100	0.0237	mg/L		02/12/22 08:10	02/21/22 17:28	10
Molybdenum	0.0123	U	0.100	0.0123	mg/L		02/12/22 08:10	02/21/22 17:28	10
Potassium	43.0		5.00	1.07	mg/L		02/12/22 08:10	02/21/22 17:28	10
Sodium	3170		25.0	3.33	mg/L		02/12/22 08:10	02/22/22 10:33	50
Selenium	0.0439	U	0.300	0.0439	mg/L		02/12/22 08:10	02/21/22 17:28	10
Thallium	0.0621	U	0.200	0.0621	mg/L		02/12/22 08:10	02/21/22 17:28	10
Lithium	0.984		0.200	0.0448	mg/L		02/12/22 08:10	02/21/22 17:28	10
SiO2	57.2		10.7	0.781	mg/L		02/12/22 08:10	02/21/22 17:28	10

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0000263	U	0.000200	0.0000263	mg/L		02/10/22 08:15	02/10/22 13:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	259		4.00	4.00	mg/L			02/15/22 12:48	1
Bicarbonate Alkalinity as CaCO3	259		4.00	4.00	mg/L			02/15/22 12:48	1
Carbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			02/15/22 12:48	1
Hydroxide Alkalinity	4.00	U	4.00	4.00	mg/L			02/15/22 12:48	1
Total Dissolved Solids	8330		100	100	mg/L			02/12/22 15:38	1

Client Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20575-1

Client Sample ID: EP-32

Lab Sample ID: 860-20575-2

Date Collected: 02/08/22 10:40

Matrix: Water

Date Received: 02/09/22 09:03

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	3.96		0.856	0.931	1.00	0.915	pCi/L	02/14/22 15:48	02/21/22 13:26	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.3		40 - 110					02/14/22 15:48	02/21/22 13:26	1
Y Carrier	88.2		40 - 110					02/14/22 15:48	02/21/22 13:26	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	0.740		0.210		1.00	0.0900	pCi/L	02/18/22 11:21	03/09/22 12:07	1

Client Sample ID: EP-33

Lab Sample ID: 860-20575-3

Date Collected: 02/08/22 09:30

Matrix: Water

Date Received: 02/09/22 09:03

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2620		5.00	2.00	mg/L			02/12/22 04:11	10
Fluoride	5.80		5.00	1.00	mg/L			02/12/22 04:11	10
Sulfate	3220		5.00	1.09	mg/L			02/12/22 04:11	10

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0589	U	0.200	0.0589	mg/L		02/12/22 08:10	02/21/22 17:31	10
Arsenic	0.0628	J	0.100	0.0550	mg/L		02/12/22 08:10	02/21/22 17:31	10
Barium	0.0135	U	0.100	0.0135	mg/L		02/12/22 08:10	02/21/22 17:31	10
Beryllium	0.00490	U	0.0400	0.00490	mg/L		02/12/22 08:10	02/21/22 17:31	10
Boron	55.0		0.500	0.0343	mg/L		02/12/22 08:10	02/21/22 17:31	10
Cadmium	0.0243	U	0.0500	0.0243	mg/L		02/12/22 08:10	02/21/22 17:31	10
Calcium	446	B	2.00	0.293	mg/L		02/12/22 08:10	02/21/22 17:31	10
Chromium	0.00811	U	0.100	0.00811	mg/L		02/12/22 08:10	02/21/22 17:31	10
Cobalt	0.00673	U	0.100	0.00673	mg/L		02/12/22 08:10	02/21/22 17:31	10
Magnesium	38.3	B	2.00	0.500	mg/L		02/12/22 08:10	02/21/22 17:31	10
Lead	0.0237	U	0.100	0.0237	mg/L		02/12/22 08:10	02/21/22 17:31	10
Molybdenum	0.0123	U	0.100	0.0123	mg/L		02/12/22 08:10	02/21/22 17:31	10
Potassium	38.6		5.00	1.07	mg/L		02/12/22 08:10	02/21/22 17:31	10
Sodium	2630		25.0	3.33	mg/L		02/12/22 08:10	02/22/22 10:36	50
Selenium	0.0439	U	0.300	0.0439	mg/L		02/12/22 08:10	02/21/22 17:31	10
Thallium	0.0621	U	0.200	0.0621	mg/L		02/12/22 08:10	02/21/22 17:31	10
Lithium	0.671		0.200	0.0448	mg/L		02/12/22 08:10	02/21/22 17:31	10
SiO2	72.0		10.7	0.781	mg/L		02/12/22 08:10	02/21/22 17:31	10

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0000263	U	0.000200	0.0000263	mg/L		02/10/22 08:15	02/10/22 13:29	1

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Client Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20575-1

Client Sample ID: EP-33

Lab Sample ID: 860-20575-3

Date Collected: 02/08/22 09:30

Matrix: Water

Date Received: 02/09/22 09:03

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	281		4.00	4.00	mg/L			02/15/22 12:57	1
Bicarbonate Alkalinity as CaCO3	281		4.00	4.00	mg/L			02/15/22 12:57	1
Carbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			02/15/22 12:57	1
Hydroxide Alkalinity	4.00	U	4.00	4.00	mg/L			02/15/22 12:57	1
Total Dissolved Solids	10900		100	100	mg/L			02/12/22 15:38	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	3.10		0.767	0.818	1.00	0.889	pCi/L	02/14/22 15:48	02/21/22 13:27	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	94.8		40 - 110					02/14/22 15:48	02/21/22 13:27	1
Y Carrier	89.3		40 - 110					02/14/22 15:48	02/21/22 13:27	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		0.240		1.00	0.120	pCi/L	02/18/22 11:21	03/09/22 12:07	1

Client Sample ID: EP-34

Lab Sample ID: 860-20575-4

Date Collected: 02/08/22 14:05

Matrix: Water

Date Received: 02/09/22 09:03

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4320		5.00	2.00	mg/L			02/12/22 04:22	10
Fluoride	1.00	U	5.00	1.00	mg/L			02/12/22 04:22	10
Sulfate	3740		5.00	1.09	mg/L			02/12/22 04:22	10

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0589	U	0.200	0.0589	mg/L		02/12/22 08:10	02/21/22 17:35	10
Arsenic	0.0550	U	0.100	0.0550	mg/L		02/12/22 08:10	02/21/22 17:35	10
Barium	0.0135	U	0.100	0.0135	mg/L		02/12/22 08:10	02/21/22 17:35	10
Beryllium	0.00490	U	0.0400	0.00490	mg/L		02/12/22 08:10	02/21/22 17:35	10
Boron	27.6		0.500	0.0343	mg/L		02/12/22 08:10	02/21/22 17:35	10
Cadmium	0.0243	U	0.0500	0.0243	mg/L		02/12/22 08:10	02/21/22 17:35	10
Calcium	461	B	2.00	0.293	mg/L		02/12/22 08:10	02/21/22 17:35	10
Chromium	0.00811	U	0.100	0.00811	mg/L		02/12/22 08:10	02/21/22 17:35	10
Cobalt	0.00673	U	0.100	0.00673	mg/L		02/12/22 08:10	02/21/22 17:35	10
Magnesium	62.3	B	2.00	0.500	mg/L		02/12/22 08:10	02/21/22 17:35	10
Lead	0.0237	U	0.100	0.0237	mg/L		02/12/22 08:10	02/21/22 17:35	10
Molybdenum	0.0123	U	0.100	0.0123	mg/L		02/12/22 08:10	02/21/22 17:35	10
Potassium	48.5		5.00	1.07	mg/L		02/12/22 08:10	02/21/22 17:35	10
Sodium	3920		25.0	3.33	mg/L		02/12/22 08:10	02/22/22 10:40	50
Selenium	0.0439	U	0.300	0.0439	mg/L		02/12/22 08:10	02/21/22 17:35	10
Thallium	0.0621	U	0.200	0.0621	mg/L		02/12/22 08:10	02/21/22 17:35	10
Lithium	1.25		0.200	0.0448	mg/L		02/12/22 08:10	02/21/22 17:35	10

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Client Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20575-1

Client Sample ID: EP-34

Lab Sample ID: 860-20575-4

Date Collected: 02/08/22 14:05

Matrix: Water

Date Received: 02/09/22 09:03

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
SiO2	53.7		10.7	0.781	mg/L		02/12/22 08:10	02/21/22 17:35	10

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0000263	U	0.000200	0.0000263	mg/L		02/10/22 08:15	02/10/22 13:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	282		4.00	4.00	mg/L			02/15/22 13:22	1
Bicarbonate Alkalinity as CaCO3	282		4.00	4.00	mg/L			02/15/22 13:22	1
Carbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			02/15/22 13:22	1
Hydroxide Alkalinity	4.00	U	4.00	4.00	mg/L			02/15/22 13:22	1
Total Dissolved Solids	10800		100	100	mg/L			02/12/22 15:38	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	6.36	G	1.13	1.27	1.00	1.23	pCi/L	02/14/22 15:48	02/21/22 13:26	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		40 - 110					02/14/22 15:48	02/21/22 13:26	1
Y Carrier	85.6		40 - 110					02/14/22 15:48	02/21/22 13:26	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	1.41		0.330		1.00	0.120	pCi/L	02/18/22 11:21	03/09/22 12:07	1

Client Sample ID: EP-35

Lab Sample ID: 860-20575-5

Date Collected: 02/08/22 13:20

Matrix: Water

Date Received: 02/09/22 09:03

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3930		5.00	2.00	mg/L			02/12/22 04:46	10
Fluoride	1.00	U	5.00	1.00	mg/L			02/12/22 04:46	10
Sulfate	3420		5.00	1.09	mg/L			02/12/22 04:46	10

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0589	U	0.200	0.0589	mg/L		02/12/22 08:10	02/21/22 17:38	10
Arsenic	0.0550	U	0.100	0.0550	mg/L		02/12/22 08:10	02/21/22 17:38	10
Barium	0.0164	J	0.100	0.0135	mg/L		02/12/22 08:10	02/21/22 17:38	10
Beryllium	0.00490	U	0.0400	0.00490	mg/L		02/12/22 08:10	02/21/22 17:38	10
Boron	32.8		0.500	0.0343	mg/L		02/12/22 08:10	02/21/22 17:38	10
Cadmium	0.0243	U	0.0500	0.0243	mg/L		02/12/22 08:10	02/21/22 17:38	10
Calcium	330	B	2.00	0.293	mg/L		02/12/22 08:10	02/21/22 17:38	10
Chromium	0.0149	J	0.100	0.00811	mg/L		02/12/22 08:10	02/21/22 17:38	10
Cobalt	0.00673	U	0.100	0.00673	mg/L		02/12/22 08:10	02/21/22 17:38	10

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Client Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20575-1

Client Sample ID: EP-35

Lab Sample ID: 860-20575-5

Date Collected: 02/08/22 13:20

Matrix: Water

Date Received: 02/09/22 09:03

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	55.3	B	2.00	0.500	mg/L		02/12/22 08:10	02/21/22 17:38	10
Lead	0.0237	U	0.100	0.0237	mg/L		02/12/22 08:10	02/21/22 17:38	10
Molybdenum	0.0123	U	0.100	0.0123	mg/L		02/12/22 08:10	02/21/22 17:38	10
Potassium	42.5		5.00	1.07	mg/L		02/12/22 08:10	02/21/22 17:38	10
Sodium	3640		25.0	3.33	mg/L		02/12/22 08:10	02/22/22 10:44	50
Selenium	0.0439	U	0.300	0.0439	mg/L		02/12/22 08:10	02/21/22 17:38	10
Thallium	0.0621	U	0.200	0.0621	mg/L		02/12/22 08:10	02/21/22 17:38	10
Lithium	1.12		0.200	0.0448	mg/L		02/12/22 08:10	02/21/22 17:38	10
SiO2	77.8		10.7	0.781	mg/L		02/12/22 08:10	02/21/22 17:38	10

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0000263	U	0.000200	0.0000263	mg/L		02/10/22 08:15	02/10/22 13:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	205		4.00	4.00	mg/L			02/15/22 13:30	1
Bicarbonate Alkalinity as CaCO3	205		4.00	4.00	mg/L			02/15/22 13:30	1
Carbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			02/15/22 13:30	1
Hydroxide Alkalinity	4.00	U	4.00	4.00	mg/L			02/15/22 13:30	1
Total Dissolved Solids	13600		100	100	mg/L			02/15/22 10:08	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Radium-228	1.99		0.616	0.643	1.00	0.797	pCi/L	02/14/22 15:48	02/21/22 13:26	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>	88.8		40 - 110					02/14/22 15:48	02/21/22 13:26	1
<i>Y Carrier</i>	86.7		40 - 110					02/14/22 15:48	02/21/22 13:26	1

Method: SM7500 Ra B - Radium-226

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Ra-226	0.510		0.170		1.00	0.0900	pCi/L	02/18/22 11:16	03/02/22 11:04	1

Client Sample ID: EP-36

Lab Sample ID: 860-20575-6

Date Collected: 02/08/22 12:30

Matrix: Water

Date Received: 02/09/22 09:03

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3900		5.00	2.00	mg/L			02/12/22 05:09	10
Fluoride	1.44	J	5.00	1.00	mg/L			02/12/22 05:09	10
Sulfate	2730		5.00	1.09	mg/L			02/12/22 05:09	10

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0617	J	0.200	0.0589	mg/L		02/12/22 08:10	02/21/22 17:42	10

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Client Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20575-1

Client Sample ID: EP-36

Lab Sample ID: 860-20575-6

Date Collected: 02/08/22 12:30

Matrix: Water

Date Received: 02/09/22 09:03

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0550	U	0.100	0.0550	mg/L		02/12/22 08:10	02/21/22 17:42	10
Barium	0.0152	J	0.100	0.0135	mg/L		02/12/22 08:10	02/21/22 17:42	10
Beryllium	0.00490	U	0.0400	0.00490	mg/L		02/12/22 08:10	02/21/22 17:42	10
Boron	28.5		0.500	0.0343	mg/L		02/12/22 08:10	02/21/22 17:42	10
Cadmium	0.0243	U	0.0500	0.0243	mg/L		02/12/22 08:10	02/21/22 17:42	10
Calcium	423	B	2.00	0.293	mg/L		02/12/22 08:10	02/21/22 17:42	10
Chromium	0.00811	U	0.100	0.00811	mg/L		02/12/22 08:10	02/21/22 17:42	10
Cobalt	0.00673	U	0.100	0.00673	mg/L		02/12/22 08:10	02/21/22 17:42	10
Magnesium	77.9	B	2.00	0.500	mg/L		02/12/22 08:10	02/21/22 17:42	10
Lead	0.0237	U	0.100	0.0237	mg/L		02/12/22 08:10	02/21/22 17:42	10
Molybdenum	0.0123	U	0.100	0.0123	mg/L		02/12/22 08:10	02/21/22 17:42	10
Potassium	46.6		5.00	1.07	mg/L		02/12/22 08:10	02/21/22 17:42	10
Sodium	3080		25.0	3.33	mg/L		02/12/22 08:10	02/22/22 10:47	50
Selenium	0.0439	U	0.300	0.0439	mg/L		02/12/22 08:10	02/21/22 17:42	10
Thallium	0.0621	U	0.200	0.0621	mg/L		02/12/22 08:10	02/21/22 17:42	10
Lithium	1.23		0.200	0.0448	mg/L		02/12/22 08:10	02/21/22 17:42	10
SiO2	63.5		10.7	0.781	mg/L		02/12/22 08:10	02/21/22 17:42	10

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0000263	U	0.000200	0.0000263	mg/L		02/10/22 08:15	02/10/22 13:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	192		4.00	4.00	mg/L			02/15/22 13:37	1
Bicarbonate Alkalinity as CaCO3	192		4.00	4.00	mg/L			02/15/22 13:37	1
Carbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			02/15/22 13:37	1
Hydroxide Alkalinity	4.00	U	4.00	4.00	mg/L			02/15/22 13:37	1
Total Dissolved Solids	10700		100	100	mg/L			02/15/22 10:08	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Radium-228	3.30		0.828	0.882	1.00	0.962	pCi/L	02/14/22 15:48	02/21/22 13:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.5		40 - 110					02/14/22 15:48	02/21/22 13:27	1
Y Carrier	83.7		40 - 110					02/14/22 15:48	02/21/22 13:27	1

Method: SM7500 Ra B - Radium-226

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Ra-226	1.12		0.320		1.00	0.150	pCi/L	02/18/22 11:16	03/02/22 11:04	1

Client Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20575-1

Client Sample ID: EP-37
 Date Collected: 02/08/22 11:40
 Date Received: 02/09/22 09:03

Lab Sample ID: 860-20575-7
 Matrix: Water

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3570		5.00	2.00	mg/L			02/12/22 05:32	10
Fluoride	1.00	U	5.00	1.00	mg/L			02/12/22 05:32	10
Sulfate	2810		5.00	1.09	mg/L			02/12/22 05:32	10

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0589	U	0.200	0.0589	mg/L		02/12/22 08:10	02/21/22 17:46	10
Arsenic	0.0550	U	0.100	0.0550	mg/L		02/12/22 08:10	02/21/22 17:46	10
Barium	0.0135	U	0.100	0.0135	mg/L		02/12/22 08:10	02/21/22 17:46	10
Beryllium	0.00490	U	0.0400	0.00490	mg/L		02/12/22 08:10	02/21/22 17:46	10
Boron	7.14		0.500	0.0343	mg/L		02/12/22 08:10	02/21/22 17:46	10
Cadmium	0.0243	U	0.0500	0.0243	mg/L		02/12/22 08:10	02/21/22 17:46	10
Calcium	394	B	2.00	0.293	mg/L		02/12/22 08:10	02/21/22 17:46	10
Chromium	0.00811	U	0.100	0.00811	mg/L		02/12/22 08:10	02/21/22 17:46	10
Cobalt	0.00673	U	0.100	0.00673	mg/L		02/12/22 08:10	02/21/22 17:46	10
Magnesium	68.6	B	2.00	0.500	mg/L		02/12/22 08:10	02/21/22 17:46	10
Lead	0.0237	U	0.100	0.0237	mg/L		02/12/22 08:10	02/21/22 17:46	10
Molybdenum	0.0123	U	0.100	0.0123	mg/L		02/12/22 08:10	02/21/22 17:46	10
Potassium	50.3		5.00	1.07	mg/L		02/12/22 08:10	02/21/22 17:46	10
Sodium	3100		25.0	3.33	mg/L		02/12/22 08:10	02/22/22 10:51	50
Selenium	0.0439	U	0.300	0.0439	mg/L		02/12/22 08:10	02/21/22 17:46	10
Thallium	0.0621	U	0.200	0.0621	mg/L		02/12/22 08:10	02/21/22 17:46	10
Lithium	1.09		0.200	0.0448	mg/L		02/12/22 08:10	02/21/22 17:46	10
SiO2	54.6		10.7	0.781	mg/L		02/12/22 08:10	02/21/22 17:46	10

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0000263	U	0.000200	0.0000263	mg/L		02/10/22 08:15	02/10/22 13:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	223		4.00	4.00	mg/L			02/15/22 13:45	1
Bicarbonate Alkalinity as CaCO3	223		4.00	4.00	mg/L			02/15/22 13:45	1
Carbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			02/15/22 13:45	1
Hydroxide Alkalinity	4.00	U	4.00	4.00	mg/L			02/15/22 13:45	1
Total Dissolved Solids	10000		100	100	mg/L			02/15/22 10:08	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	7.11		1.07	1.25	1.00	0.988	pCi/L	02/14/22 15:48	02/21/22 13:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.0		40 - 110					02/14/22 15:48	02/21/22 13:27	1
Y Carrier	86.4		40 - 110					02/14/22 15:48	02/21/22 13:27	1

Client Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20575-1

Client Sample ID: EP-37

Lab Sample ID: 860-20575-7

Date Collected: 02/08/22 11:40

Matrix: Water

Date Received: 02/09/22 09:03

Method: SM7500 Ra B - Radium-226

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra-226	1.12		0.310		1.00	0.130	pCi/L	02/18/22 11:16	03/02/22 11:04	1

Client Sample ID: EP-38

Lab Sample ID: 860-20575-8

Date Collected: 02/08/22 09:40

Matrix: Water

Date Received: 02/09/22 09:03

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.276	J	0.500	0.100	mg/L			02/12/22 06:31	1

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1130		5.00	2.00	mg/L			02/12/22 05:56	10
Sulfate	2280		5.00	1.09	mg/L			02/12/22 05:56	10

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0589	U	0.200	0.0589	mg/L		02/12/22 08:10	02/21/22 17:49	10
Arsenic	0.0550	U	0.100	0.0550	mg/L		02/12/22 08:10	02/21/22 17:49	10
Barium	0.0135	U	0.100	0.0135	mg/L		02/12/22 08:10	02/21/22 17:49	10
Beryllium	0.00490	U	0.0400	0.00490	mg/L		02/12/22 08:10	02/21/22 17:49	10
Boron	2.42		0.500	0.0343	mg/L		02/12/22 08:10	02/21/22 17:49	10
Cadmium	0.0243	U	0.0500	0.0243	mg/L		02/12/22 08:10	02/21/22 17:49	10
Calcium	344	B	2.00	0.293	mg/L		02/12/22 08:10	02/21/22 17:49	10
Chromium	0.00855	J	0.100	0.00811	mg/L		02/12/22 08:10	02/21/22 17:49	10
Cobalt	0.00673	U	0.100	0.00673	mg/L		02/12/22 08:10	02/21/22 17:49	10
Magnesium	51.5	B	2.00	0.500	mg/L		02/12/22 08:10	02/21/22 17:49	10
Lead	0.0237	U	0.100	0.0237	mg/L		02/12/22 08:10	02/21/22 17:49	10
Molybdenum	0.0123	U	0.100	0.0123	mg/L		02/12/22 08:10	02/21/22 17:49	10
Potassium	35.2		5.00	1.07	mg/L		02/12/22 08:10	02/21/22 17:49	10
Sodium	1210		5.00	0.667	mg/L		02/12/22 08:10	02/21/22 17:49	10
Selenium	0.0439	U	0.300	0.0439	mg/L		02/12/22 08:10	02/21/22 17:49	10
Thallium	0.0621	U	0.200	0.0621	mg/L		02/12/22 08:10	02/21/22 17:49	10
Lithium	0.453		0.200	0.0448	mg/L		02/12/22 08:10	02/21/22 17:49	10
SiO2	108		10.7	0.781	mg/L		02/12/22 08:10	02/21/22 17:49	10

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0000263	U	0.000200	0.0000263	mg/L		02/10/22 08:15	02/10/22 13:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	63.0		4.00	4.00	mg/L			02/14/22 15:40	1
Bicarbonate Alkalinity as CaCO3	63.0		4.00	4.00	mg/L			02/14/22 15:40	1
Carbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			02/14/22 15:40	1
Hydroxide Alkalinity	4.00	U	4.00	4.00	mg/L			02/14/22 15:40	1
Total Dissolved Solids	4790		40.0	40.0	mg/L			02/15/22 10:08	1

Client Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20575-1

Client Sample ID: EP-38

Lab Sample ID: 860-20575-8

Date Collected: 02/08/22 09:40

Matrix: Water

Date Received: 02/09/22 09:03

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.69		0.707	0.724	1.00	0.978	pCi/L	02/14/22 15:48	02/21/22 13:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.8		40 - 110					02/14/22 15:48	02/21/22 13:27	1
Y Carrier	87.5		40 - 110					02/14/22 15:48	02/21/22 13:27	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	0.440		0.190		1.00	0.110	pCi/L	02/18/22 11:16	03/02/22 11:04	1

Client Sample ID: MW-04

Lab Sample ID: 860-20575-9

Date Collected: 02/08/22 10:40

Matrix: Water

Date Received: 02/09/22 09:03

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.215	J	0.500	0.100	mg/L			02/12/22 06:42	1

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1710		5.00	2.00	mg/L			02/12/22 06:54	10
Sulfate	2550		5.00	1.09	mg/L			02/12/22 06:54	10

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0589	U	0.200	0.0589	mg/L		02/12/22 08:10	02/21/22 17:53	10
Arsenic	0.0550	U	0.100	0.0550	mg/L		02/12/22 08:10	02/21/22 17:53	10
Barium	0.0135	U	0.100	0.0135	mg/L		02/12/22 08:10	02/21/22 17:53	10
Beryllium	0.00490	U	0.0400	0.00490	mg/L		02/12/22 08:10	02/21/22 17:53	10
Boron	7.31		0.500	0.0343	mg/L		02/12/22 08:10	02/21/22 17:53	10
Cadmium	0.0243	U	0.0500	0.0243	mg/L		02/12/22 08:10	02/21/22 17:53	10
Calcium	285	B	2.00	0.293	mg/L		02/12/22 08:10	02/21/22 17:53	10
Chromium	0.00811	U	0.100	0.00811	mg/L		02/12/22 08:10	02/21/22 17:53	10
Cobalt	0.00673	U	0.100	0.00673	mg/L		02/12/22 08:10	02/21/22 17:53	10
Magnesium	55.0	B	2.00	0.500	mg/L		02/12/22 08:10	02/21/22 17:53	10
Lead	0.0237	U	0.100	0.0237	mg/L		02/12/22 08:10	02/21/22 17:53	10
Molybdenum	0.0123	U	0.100	0.0123	mg/L		02/12/22 08:10	02/21/22 17:53	10
Potassium	38.3		5.00	1.07	mg/L		02/12/22 08:10	02/21/22 17:53	10
Sodium	1630		5.00	0.667	mg/L		02/12/22 08:10	02/21/22 17:53	10
Selenium	0.0439	U	0.300	0.0439	mg/L		02/12/22 08:10	02/21/22 17:53	10
Thallium	0.0621	U	0.200	0.0621	mg/L		02/12/22 08:10	02/21/22 17:53	10
Lithium	0.663		0.200	0.0448	mg/L		02/12/22 08:10	02/21/22 17:53	10
SiO2	73.0		10.7	0.781	mg/L		02/12/22 08:10	02/21/22 17:53	10

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0000263	U	0.000200	0.0000263	mg/L		02/10/22 08:15	02/10/22 13:38	1

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Client Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20575-1

Client Sample ID: MW-04

Lab Sample ID: 860-20575-9

Date Collected: 02/08/22 10:40

Matrix: Water

Date Received: 02/09/22 09:03

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	133		4.00	4.00	mg/L			02/14/22 15:47	1
Bicarbonate Alkalinity as CaCO3	133		4.00	4.00	mg/L			02/14/22 15:47	1
Carbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			02/14/22 15:47	1
Hydroxide Alkalinity	4.00	U	4.00	4.00	mg/L			02/14/22 15:47	1
Total Dissolved Solids	7300		100	100	mg/L			02/15/22 10:08	1

Method: 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		0.797	0.846	1.00	0.951	pCi/L	02/14/22 15:48	02/21/22 13:27	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	94.5		40 - 110					02/14/22 15:48	02/21/22 13:27	1
Y Carrier	84.5		40 - 110					02/14/22 15:48	02/21/22 13:27	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	0.860		0.280		1.00	0.120	pCi/L	02/18/22 11:16	03/02/22 11:04	1

Client Sample ID: DUP-03

Lab Sample ID: 860-20575-10

Date Collected: 02/08/22 10:00

Matrix: Water

Date Received: 02/09/22 09:03

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2590		5.00	2.00	mg/L			02/12/22 07:06	10
Fluoride	1.00	U	5.00	1.00	mg/L			02/12/22 07:06	10
Sulfate	3210		5.00	1.09	mg/L			02/12/22 07:06	10

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0589	U	0.200	0.0589	mg/L		02/12/22 08:10	02/21/22 18:04	10
Arsenic	0.0550	U	0.100	0.0550	mg/L		02/12/22 08:10	02/21/22 18:04	10
Barium	0.0135	U	0.100	0.0135	mg/L		02/12/22 08:10	02/21/22 18:04	10
Beryllium	0.00490	U	0.0400	0.00490	mg/L		02/12/22 08:10	02/21/22 18:04	10
Boron	58.6		0.500	0.0343	mg/L		02/12/22 08:10	02/21/22 18:04	10
Cadmium	0.0243	U	0.0500	0.0243	mg/L		02/12/22 08:10	02/21/22 18:04	10
Calcium	480	B	2.00	0.293	mg/L		02/12/22 08:10	02/21/22 18:04	10
Chromium	0.00811	U	0.100	0.00811	mg/L		02/12/22 08:10	02/21/22 18:04	10
Cobalt	0.00673	U	0.100	0.00673	mg/L		02/12/22 08:10	02/21/22 18:04	10
Magnesium	41.4	B	2.00	0.500	mg/L		02/12/22 08:10	02/21/22 18:04	10
Lead	0.0237	U	0.100	0.0237	mg/L		02/12/22 08:10	02/21/22 18:04	10
Molybdenum	0.0133	J	0.100	0.0123	mg/L		02/12/22 08:10	02/21/22 18:04	10
Potassium	41.9		5.00	1.07	mg/L		02/12/22 08:10	02/21/22 18:04	10
Sodium	2610		25.0	3.33	mg/L		02/12/22 08:10	02/22/22 10:54	50
Selenium	0.0439	U	0.300	0.0439	mg/L		02/12/22 08:10	02/21/22 18:04	10
Thallium	0.0621	U	0.200	0.0621	mg/L		02/12/22 08:10	02/21/22 18:04	10
Lithium	0.510		0.200	0.0448	mg/L		02/12/22 08:10	02/21/22 18:04	10

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Client Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20575-1

Client Sample ID: DUP-03

Lab Sample ID: 860-20575-10

Date Collected: 02/08/22 10:00

Matrix: Water

Date Received: 02/09/22 09:03

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
SiO2	77.6		10.7	0.781	mg/L		02/12/22 08:10	02/21/22 18:04	10

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0000263	U	0.000200	0.0000263	mg/L		02/10/22 08:15	02/10/22 13:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	280		4.00	4.00	mg/L			02/15/22 14:10	1
Bicarbonate Alkalinity as CaCO3	280		4.00	4.00	mg/L			02/15/22 14:10	1
Carbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			02/15/22 14:10	1
Hydroxide Alkalinity	4.00	U	4.00	4.00	mg/L			02/15/22 14:10	1
Total Dissolved Solids	12100		100	100	mg/L			02/15/22 10:08	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	2.17		0.699	0.727	1.00	0.900	pCi/L	02/14/22 15:48	02/21/22 13:27	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>	96.3		40 - 110					02/14/22 15:48	02/21/22 13:27	1
<i>Y Carrier</i>	85.6		40 - 110					02/14/22 15:48	02/21/22 13:27	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		0.200		1.00	0.0900	pCi/L	02/18/22 11:23	03/09/22 12:07	1

Client Sample ID: FB-03

Lab Sample ID: 860-20575-11

Date Collected: 02/08/22 12:50

Matrix: Water

Date Received: 02/09/22 09:03

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.200	U	0.500	0.200	mg/L			02/12/22 07:29	1
Fluoride	0.100	U	0.500	0.100	mg/L			02/12/22 07:29	1
Sulfate	0.208	J	0.500	0.109	mg/L			02/12/22 07:29	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0589	U	0.200	0.0589	mg/L		02/12/22 08:10	02/21/22 18:07	10
Arsenic	0.0550	U	0.100	0.0550	mg/L		02/12/22 08:10	02/21/22 18:07	10
Barium	0.0135	U	0.100	0.0135	mg/L		02/12/22 08:10	02/21/22 18:07	10
Beryllium	0.00490	U	0.0400	0.00490	mg/L		02/12/22 08:10	02/21/22 18:07	10
Boron	0.0343	U	0.500	0.0343	mg/L		02/12/22 08:10	02/21/22 18:07	10
Cadmium	0.0243	U	0.0500	0.0243	mg/L		02/12/22 08:10	02/21/22 18:07	10
Calcium	0.293	U	2.00	0.293	mg/L		02/12/22 08:10	02/21/22 18:07	10
Chromium	0.0124	J	0.100	0.00811	mg/L		02/12/22 08:10	02/21/22 18:07	10
Cobalt	0.00673	U	0.100	0.00673	mg/L		02/12/22 08:10	02/21/22 18:07	10

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Client Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20575-1

Client Sample ID: FB-03

Lab Sample ID: 860-20575-11

Date Collected: 02/08/22 12:50

Matrix: Water

Date Received: 02/09/22 09:03

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	0.500	U	2.00	0.500	mg/L		02/12/22 08:10	02/21/22 18:07	10
Lead	0.0237	U	0.100	0.0237	mg/L		02/12/22 08:10	02/21/22 18:07	10
Molybdenum	0.0123	U	0.100	0.0123	mg/L		02/12/22 08:10	02/21/22 18:07	10
Potassium	1.07	U	5.00	1.07	mg/L		02/12/22 08:10	02/21/22 18:07	10
Sodium	0.667	U	5.00	0.667	mg/L		02/12/22 08:10	02/21/22 18:07	10
Selenium	0.0439	U	0.300	0.0439	mg/L		02/12/22 08:10	02/21/22 18:07	10
Thallium	0.0621	U	0.200	0.0621	mg/L		02/12/22 08:10	02/21/22 18:07	10
Lithium	0.0448	U	0.200	0.0448	mg/L		02/12/22 08:10	02/21/22 18:07	10
SiO2	0.781	U	10.7	0.781	mg/L		02/12/22 08:10	02/21/22 18:07	10

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0000263	U	0.000200	0.0000263	mg/L		02/10/22 08:15	02/10/22 13:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	78.5		5.00	5.00	mg/L			02/15/22 10:08	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
Radium-228	0.253	U G	0.885	0.885	1.00	1.55	pCi/L	02/14/22 15:48	02/21/22 13:33	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>	64.3		40 - 110					02/14/22 15:48	02/21/22 13:33	1
<i>Y Carrier</i>	86.7		40 - 110					02/14/22 15:48	02/21/22 13:33	1

Method: SM7500 Ra B - Radium-226

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
Ra-226	-0.0500	U	0.0600		1.00	0.140	pCi/L	02/18/22 11:21	03/09/22 12:07	1

Client Sample ID: EB-02

Lab Sample ID: 860-20575-12

Date Collected: 02/08/22 11:05

Matrix: Water

Date Received: 02/09/22 09:03

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.200	U	0.500	0.200	mg/L			02/12/22 07:41	1
Fluoride	0.125	J	0.500	0.100	mg/L			02/12/22 07:41	1
Sulfate	0.311	J	0.500	0.109	mg/L			02/12/22 07:41	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0928	J	0.200	0.0589	mg/L		02/12/22 08:10	02/21/22 18:11	10
Arsenic	0.0550	U	0.100	0.0550	mg/L		02/12/22 08:10	02/21/22 18:11	10
Barium	0.0135	U	0.100	0.0135	mg/L		02/12/22 08:10	02/21/22 18:11	10
Beryllium	0.00490	U	0.0400	0.00490	mg/L		02/12/22 08:10	02/21/22 18:11	10
Boron	0.0343	U	0.500	0.0343	mg/L		02/12/22 08:10	02/21/22 18:11	10

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Client Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20575-1

Client Sample ID: EB-02

Lab Sample ID: 860-20575-12

Date Collected: 02/08/22 11:05

Matrix: Water

Date Received: 02/09/22 09:03

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0243	U	0.0500	0.0243	mg/L		02/12/22 08:10	02/21/22 18:11	10
Calcium	0.293	U	2.00	0.293	mg/L		02/12/22 08:10	02/21/22 18:11	10
Chromium	0.00811	U	0.100	0.00811	mg/L		02/12/22 08:10	02/21/22 18:11	10
Cobalt	0.00673	U	0.100	0.00673	mg/L		02/12/22 08:10	02/21/22 18:11	10
Magnesium	0.500	U	2.00	0.500	mg/L		02/12/22 08:10	02/21/22 18:11	10
Lead	0.0237	U	0.100	0.0237	mg/L		02/12/22 08:10	02/21/22 18:11	10
Molybdenum	0.0123	U	0.100	0.0123	mg/L		02/12/22 08:10	02/21/22 18:11	10
Potassium	1.07	U	5.00	1.07	mg/L		02/12/22 08:10	02/21/22 18:11	10
Sodium	0.667	U	5.00	0.667	mg/L		02/12/22 08:10	02/21/22 18:11	10
Selenium	0.0439	U	0.300	0.0439	mg/L		02/12/22 08:10	02/21/22 18:11	10
Thallium	0.0621	U	0.200	0.0621	mg/L		02/12/22 08:10	02/21/22 18:11	10
Lithium	0.0448	U	0.200	0.0448	mg/L		02/12/22 08:10	02/21/22 18:11	10
SiO2	0.781	U	10.7	0.781	mg/L		02/12/22 08:10	02/21/22 18:11	10

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0000263	U	0.000200	0.0000263	mg/L		02/10/22 08:15	02/10/22 13:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	97.0		5.00	5.00	mg/L			02/15/22 10:08	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Radium-228	0.970	U	0.639	0.646	1.00	0.979	pCi/L	02/14/22 15:48	02/21/22 13:33	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.0		40 - 110					02/14/22 15:48	02/21/22 13:33	1
Y Carrier	87.9		40 - 110					02/14/22 15:48	02/21/22 13:33	1

Method: SM7500 Ra B - Radium-226

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Ra-226	0.0300	U	0.110		1.00	0.150	pCi/L	02/18/22 11:21	03/09/22 12:07	1

Tracer/Carrier Summary

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20575-1

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Yield (Acceptance Limits)	
		Ba (40-110)	Y (40-110)
860-20575-1	EP-31	81.0	86.4
860-20575-1 MS	EP-31	80.5	86.7
860-20575-1 MSD	EP-31	94.8	89.3
860-20575-2	EP-32	86.3	88.2
860-20575-3	EP-33	94.8	89.3
860-20575-4	EP-34	93.3	85.6
860-20575-5	EP-35	88.8	86.7
860-20575-6	EP-36	92.5	83.7
860-20575-7	EP-37	95.0	86.4
860-20575-8	EP-38	92.8	87.5
860-20575-9	MW-04	94.5	84.5
860-20575-10	DUP-03	96.3	85.6
860-20575-11	FB-03	64.3	86.7
860-20575-12	EB-02	95.0	87.9
LCS 160-550463/1-A	Lab Control Sample	91.8	89.0
MB 160-550463/19-A	Method Blank	95.5	87.9

Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier

QC Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20575-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-41162/112
Matrix: Water
Analysis Batch: 41162

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			02/12/22 14:07	1
Fluoride	0.100	U	0.500	0.100	mg/L			02/12/22 14:07	1
Sulfate	0.109	U	0.500	0.109	mg/L			02/12/22 14:07	1

Lab Sample ID: MB 860-41162/49
Matrix: Water
Analysis Batch: 41162

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			02/12/22 01:50	1
Fluoride	0.100	U	0.500	0.100	mg/L			02/12/22 01:50	1
Sulfate	0.109	U	0.500	0.109	mg/L			02/12/22 01:50	1

Lab Sample ID: LCS 860-41162/113
Matrix: Water
Analysis Batch: 41162

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	10.12		mg/L		101	90 - 110
Sulfate	10.0	9.520		mg/L		95	90 - 110

Lab Sample ID: LCS 860-41162/50
Matrix: Water
Analysis Batch: 41162

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	10.39		mg/L		104	90 - 110
Sulfate	10.0	9.865		mg/L		99	90 - 110

Lab Sample ID: LCSD 860-41162/114
Matrix: Water
Analysis Batch: 41162

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	10.12		mg/L		101	90 - 110	0	20
Sulfate	10.0	9.517		mg/L		95	90 - 110	0	20

Lab Sample ID: LCSD 860-41162/51
Matrix: Water
Analysis Batch: 41162

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	10.40		mg/L		104	90 - 110	0	20
Sulfate	10.0	9.885		mg/L		99	90 - 110	0	20

QC Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20575-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 860-20575-1 MS
 Matrix: Water
 Analysis Batch: 41162

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

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier				
Chloride	196		10.0	203.1	4	mg/L		74	90 - 110
Fluoride	2.16	F1	10.0	13.08		mg/L		109	90 - 110
Sulfate	3250	E	10.0	3130	E 4	mg/L		-1202	90 - 110

Lab Sample ID: 860-20575-1 MSD
 Matrix: Water
 Analysis Batch: 41162

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

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Chloride	190		10.0	203.7	4	mg/L		141	90 - 110	0	20
Fluoride	1.58	J F1	10.0	13.18	F1	mg/L		116	90 - 110	1	20
Sulfate	3370		10.0	3196	E 4	mg/L		-1781	90 - 110	2	20

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 860-41270/1-A
 Matrix: Water
 Analysis Batch: 42360

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 41270

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	0.00589	U	0.0200	0.00589	mg/L		02/12/22 08:10	02/21/22 16:37	1
Arsenic	0.00550	U	0.0100	0.00550	mg/L		02/12/22 08:10	02/21/22 16:37	1
Barium	0.00135	U	0.0100	0.00135	mg/L		02/12/22 08:10	02/21/22 16:37	1
Beryllium	0.000490	U	0.00400	0.000490	mg/L		02/12/22 08:10	02/21/22 16:37	1
Boron	0.00343	U	0.0500	0.00343	mg/L		02/12/22 08:10	02/21/22 16:37	1
Cadmium	0.00243	U	0.00500	0.00243	mg/L		02/12/22 08:10	02/21/22 16:37	1
Calcium	0.1917	J	0.200	0.0293	mg/L		02/12/22 08:10	02/21/22 16:37	1
Chromium	0.000811	U	0.0100	0.000811	mg/L		02/12/22 08:10	02/21/22 16:37	1
Cobalt	0.000673	U	0.0100	0.000673	mg/L		02/12/22 08:10	02/21/22 16:37	1
Magnesium	0.1671	J	0.200	0.0500	mg/L		02/12/22 08:10	02/21/22 16:37	1
Lead	0.00237	U	0.0100	0.00237	mg/L		02/12/22 08:10	02/21/22 16:37	1
Molybdenum	0.00123	U	0.0100	0.00123	mg/L		02/12/22 08:10	02/21/22 16:37	1
Potassium	0.107	U	0.500	0.107	mg/L		02/12/22 08:10	02/21/22 16:37	1
Sodium	0.0667	U	0.500	0.0667	mg/L		02/12/22 08:10	02/21/22 16:37	1
Selenium	0.008626	J	0.0300	0.00439	mg/L		02/12/22 08:10	02/21/22 16:37	1
Thallium	0.009060	J	0.0200	0.00621	mg/L		02/12/22 08:10	02/21/22 16:37	1
Lithium	0.00448	U	0.0200	0.00448	mg/L		02/12/22 08:10	02/21/22 16:37	1
SiO2	0.0781	U	1.07	0.0781	mg/L		02/12/22 08:10	02/21/22 16:37	1

Lab Sample ID: LCS 860-41270/2-A
 Matrix: Water
 Analysis Batch: 42360

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 41270

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.
	Added	Result	Qualifier				
Antimony	1.00	0.9664		mg/L		97	80 - 120
Arsenic	1.00	0.9216		mg/L		92	80 - 120
Barium	1.00	0.8737		mg/L		87	80 - 120
Beryllium	1.00	0.9240		mg/L		92	80 - 120
Boron	1.00	0.9436		mg/L		94	80 - 120

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QC Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20575-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 860-41270/2-A

Matrix: Water

Analysis Batch: 42360

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 41270

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Cadmium	1.00	0.9271		mg/L		93	80 - 120
Calcium	25.0	24.20		mg/L		97	80 - 120
Chromium	1.00	0.9480		mg/L		95	80 - 120
Cobalt	1.00	0.9106		mg/L		91	80 - 120
Magnesium	25.0	23.98		mg/L		96	80 - 120
Lead	1.00	0.9441		mg/L		94	80 - 120
Molybdenum	1.00	0.9517		mg/L		95	80 - 120
Potassium	10.0	9.679		mg/L		97	80 - 120
Silicon	10.0	8.998		mg/L		90	80 - 120
Sodium	25.0	23.85		mg/L		95	80 - 120
Selenium	1.00	0.9156		mg/L		92	80 - 120
Thallium	1.00	0.9643		mg/L		96	80 - 120
Lithium	1.00	0.9401		mg/L		94	80 - 120

Lab Sample ID: LCSD 860-41270/3-A

Matrix: Water

Analysis Batch: 42360

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 41270

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	%Rec. Limits	RPD	
		Result	Qualifier					RPD	Limit
Antimony	1.00	1.005		mg/L		101	80 - 120	4	20
Arsenic	1.00	0.9588		mg/L		96	80 - 120	4	20
Barium	1.00	0.9221		mg/L		92	80 - 120	5	20
Beryllium	1.00	0.9662		mg/L		97	80 - 120	4	20
Boron	1.00	0.9886		mg/L		99	80 - 120	5	20
Cadmium	1.00	0.9716		mg/L		97	80 - 120	5	20
Calcium	25.0	25.07		mg/L		100	80 - 120	4	20
Chromium	1.00	0.9907		mg/L		99	80 - 120	4	20
Cobalt	1.00	0.9583		mg/L		96	80 - 120	5	20
Magnesium	25.0	24.87		mg/L		99	80 - 120	4	20
Lead	1.00	0.9896		mg/L		99	80 - 120	5	20
Molybdenum	1.00	0.9969		mg/L		100	80 - 120	5	20
Potassium	10.0	10.07		mg/L		101	80 - 120	4	20
Silicon	10.0	9.495		mg/L		95	80 - 120	5	20
Sodium	25.0	24.78		mg/L		99	80 - 120	4	20
Selenium	1.00	0.9614		mg/L		96	80 - 120	5	20
Thallium	1.00	1.008		mg/L		101	80 - 120	4	20
Lithium	1.00	0.9776		mg/L		98	80 - 120	4	20

Lab Sample ID: 860-20575-1 MS

Matrix: Water

Analysis Batch: 42360

Client Sample ID: EP-31

Prep Type: Total/NA

Prep Batch: 41270

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier		Result	Qualifier				
Antimony	0.00589	U	1.00	0.9616		mg/L		96	75 - 125
Arsenic	0.0353		1.00	1.012		mg/L		98	75 - 125
Barium	0.00135	U	1.00	0.9013		mg/L		90	75 - 125
Beryllium	0.0676		1.00	1.020		mg/L		95	75 - 125
Boron	5.49		1.00	6.280	4	mg/L		79	75 - 125
Cadmium	0.0162		1.00	1.009		mg/L		99	75 - 125

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QC Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20575-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 860-20575-1 MS

Matrix: Water

Analysis Batch: 42360

Client Sample ID: EP-31

Prep Type: Total/NA

Prep Batch: 41270

Analyte	Sample	Sample	Spike	MS		Unit	D	%Rec	%Rec.	
	Result	Qualifier		Result	Qualifier				Limits	
Chromium	0.000811	U	1.00	0.9315		mg/L		93	75 - 125	
Cobalt	0.111		1.00	1.060		mg/L		95	75 - 125	
Magnesium	43.5	B	25.0	65.52		mg/L		88	75 - 125	
Lead	0.00237	U	1.00	0.9346		mg/L		93	75 - 125	
Molybdenum	0.00726	J	1.00	0.9799		mg/L		97	75 - 125	
Potassium	43.2		10.0	51.87	4	mg/L		87	75 - 125	
Silicon	50.6		10.0	56.60	4	mg/L		60	75 - 125	
Selenium	0.00439	U	1.00	1.004		mg/L		100	75 - 125	
Thallium	0.00621	U	1.00	0.9086		mg/L		91	75 - 125	
Lithium	0.737		1.00	1.725		mg/L		99		

Lab Sample ID: 860-20575-1 MS

Matrix: Water

Analysis Batch: 42360

Client Sample ID: EP-31

Prep Type: Total/NA

Prep Batch: 41270

Analyte	Sample	Sample	Spike	MS		Unit	D	%Rec	%Rec.	
	Result	Qualifier		Result	Qualifier				Limits	
Calcium	430	B	25.0	454.4	4	mg/L		97	75 - 125	
Sodium	868		25.0	891.0	4	mg/L		91	75 - 125	

Lab Sample ID: 860-20575-1 MSD

Matrix: Water

Analysis Batch: 42360

Client Sample ID: EP-31

Prep Type: Total/NA

Prep Batch: 41270

Analyte	Sample	Sample	Spike	MSD		Unit	D	%Rec	%Rec.		RPD	
	Result	Qualifier		Result	Qualifier				Limits	RPD	Limit	
Antimony	0.00589	U	1.00	0.9295		mg/L		93	75 - 125	3	20	
Arsenic	0.0353		1.00	1.010		mg/L		98	75 - 125	0	20	
Barium	0.00135	U	1.00	0.8955		mg/L		90	75 - 125	1	20	
Beryllium	0.0676		1.00	1.011		mg/L		94	75 - 125	1	20	
Boron	5.49		1.00	6.364	4	mg/L		87	75 - 125	1	20	
Cadmium	0.0162		1.00	1.001		mg/L		98	75 - 125	1	20	
Chromium	0.000811	U	1.00	0.9253		mg/L		93	75 - 125	1	20	
Cobalt	0.111		1.00	1.046		mg/L		93	75 - 125	1	20	
Magnesium	43.5	B	25.0	65.08		mg/L		86	75 - 125	1	20	
Lead	0.00237	U	1.00	0.9193		mg/L		92	75 - 125	2	20	
Molybdenum	0.00726	J	1.00	0.9669		mg/L		96	75 - 125	1	20	
Potassium	43.2		10.0	52.20	4	mg/L		90	75 - 125	1	20	
Silicon	50.6		10.0	58.07	4	mg/L		75	75 - 125	3	20	
Selenium	0.00439	U	1.00	1.002		mg/L		100	75 - 125	0	20	
Thallium	0.00621	U	1.00	0.8967		mg/L		90	75 - 125	1	20	
Lithium	0.737		1.00	1.738		mg/L		100		1		

Lab Sample ID: 860-20575-1 MSD

Matrix: Water

Analysis Batch: 42360

Client Sample ID: EP-31

Prep Type: Total/NA

Prep Batch: 41270

Analyte	Sample	Sample	Spike	MSD		Unit	D	%Rec	%Rec.		RPD	
	Result	Qualifier		Result	Qualifier				Limits	RPD	Limit	
Calcium	430	B	25.0	461.4	4	mg/L		125	75 - 125	2	20	
Sodium	868		25.0	907.2	4	mg/L		156	75 - 125	2	20	

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QC Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20575-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 860-40929/10-A
Matrix: Water
Analysis Batch: 41071

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 40929

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0000263	U	0.000200	0.0000263	mg/L		02/10/22 08:15	02/10/22 13:14	1

Lab Sample ID: LCS 860-40929/11-A
Matrix: Water
Analysis Batch: 41071

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 40929

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00200	0.002029		mg/L		101	80 - 120

Lab Sample ID: LCSD 860-40929/12-A
Matrix: Water
Analysis Batch: 41071

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 40929

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.00200	0.002020		mg/L		101	80 - 120	0	20

Lab Sample ID: 860-20575-1 MS
Matrix: Water
Analysis Batch: 41071

Client Sample ID: EP-31
Prep Type: Total/NA
Prep Batch: 40929

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.0000263	U	0.00200	0.001998		mg/L		100	75 - 125

Lab Sample ID: 860-20575-1 MSD
Matrix: Water
Analysis Batch: 41071

Client Sample ID: EP-31
Prep Type: Total/NA
Prep Batch: 40929

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.0000263	U	0.00200	0.002007		mg/L		100	75 - 125	0	20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-41462/3
Matrix: Water
Analysis Batch: 41462

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			02/14/22 13:29	1
Bicarbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			02/14/22 13:29	1
Carbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			02/14/22 13:29	1
Hydroxide Alkalinity	4.00	U	4.00	4.00	mg/L			02/14/22 13:29	1

Lab Sample ID: LCS 860-41462/4
Matrix: Water
Analysis Batch: 41462

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	254.1		mg/L		102	85 - 115

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QC Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20575-1

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: LCSD 860-41462/5
Matrix: Water
Analysis Batch: 41462

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	256.7		mg/L		103	85 - 115	1	20

Lab Sample ID: MB 860-41584/3
Matrix: Water
Analysis Batch: 41584

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	4.00	U	4.00	4.00	mg/L			02/15/22 11:32	1
Bicarbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			02/15/22 11:32	1
Carbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			02/15/22 11:32	1
Hydroxide Alkalinity	4.00	U	4.00	4.00	mg/L			02/15/22 11:32	1

Lab Sample ID: LCS 860-41584/4
Matrix: Water
Analysis Batch: 41584

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	266.0		mg/L		106	85 - 115

Lab Sample ID: LCSD 860-41584/5
Matrix: Water
Analysis Batch: 41584

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	268.1		mg/L		107	85 - 115	1	20

Lab Sample ID: MB 860-41738/3
Matrix: Water
Analysis Batch: 41738

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	4.00	U	4.00	4.00	mg/L			02/16/22 10:19	1
Bicarbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			02/16/22 10:19	1
Carbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			02/16/22 10:19	1
Hydroxide Alkalinity	4.00	U	4.00	4.00	mg/L			02/16/22 10:19	1

Lab Sample ID: LCS 860-41738/4
Matrix: Water
Analysis Batch: 41738

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	244.3		mg/L		98	85 - 115

Lab Sample ID: LCSD 860-41738/5
Matrix: Water
Analysis Batch: 41738

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	246.6		mg/L		99	85 - 115	1	20

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QC Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20575-1

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

Lab Sample ID: MB 860-41301/1
 Matrix: Water
 Analysis Batch: 41301

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5.00	U	5.00	5.00	mg/L			02/12/22 15:38	1

Lab Sample ID: LCS 860-41301/2
 Matrix: Water
 Analysis Batch: 41301

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	1032		mg/L		103	80 - 120

Lab Sample ID: LCSD 860-41301/3
 Matrix: Water
 Analysis Batch: 41301

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	1074		mg/L		107	80 - 120	4	10

Lab Sample ID: MB 860-41496/1
 Matrix: Water
 Analysis Batch: 41496

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			02/15/22 10:08	1

Lab Sample ID: LCS 860-41496/2
 Matrix: Water
 Analysis Batch: 41496

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	1052		mg/L		105	80 - 120

Lab Sample ID: LCSD 860-41496/3
 Matrix: Water
 Analysis Batch: 41496

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	1029		mg/L		103	80 - 120	2	10

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-550463/19-A
 Matrix: Water
 Analysis Batch: 551609

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 550463

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.2854	U	0.228	0.229	1.00	0.360	pCi/L	02/14/22 15:48	02/21/22 13:33	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	95.5		40 - 110	02/14/22 15:48	02/21/22 13:33	1
Y Carrier	87.9		40 - 110	02/14/22 15:48	02/21/22 13:33	1

Eurofins Houston

QC Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20575-1

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: LCS 160-550463/1-A
Matrix: Water
Analysis Batch: 551785

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 550463

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	
									75	125
Radium-228	8.85	9.667		1.12	1.00	0.331	pCi/L	109	75 - 125	
LCS LCS										
Carrier	%Yield	Qualifier	Limits							
Ba Carrier	91.8		40 - 110							
Y Carrier	89.0		40 - 110							

Lab Sample ID: 860-20575-1 MS
Matrix: Water
Analysis Batch: 551785

Client Sample ID: EP-31
Prep Type: Total/NA
Prep Batch: 550463

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	
											60	140
Radium-228	0.477	U G	26.4	29.07		3.46	1.00	1.10	pCi/L	108	60 - 140	
MS MS												
Carrier	%Yield	Qualifier	Limits									
Ba Carrier	80.5		40 - 110									
Y Carrier	86.7		40 - 110									

Lab Sample ID: 860-20575-1 MSD
Matrix: Water
Analysis Batch: 551785

Client Sample ID: EP-31
Prep Type: Total/NA
Prep Batch: 550463

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		RER	Limit
											60	140	0.12	1
Radium-228	0.477	U G	26.4	28.25		3.26	1.00	1.06	pCi/L	105	60 - 140	0.12	1	
MSD MSD														
Carrier	%Yield	Qualifier	Limits											
Ba Carrier	94.8		40 - 110											
Y Carrier	89.3		40 - 110											

Method: SM7500 Ra B - Radium-226

Lab Sample ID: MB 810-13204/1-A
Matrix: Water
Analysis Batch: 14210

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 13204

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac

Lab Sample ID: LCS 810-13204/2-A
Matrix: Water
Analysis Batch: 14210

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 13204

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	
									90	110
Ra-226	9.89	9.870			1.00	0.140	pCi/L	100	90 - 110	

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QC Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20575-1

Method: SM7500 Ra B - Radium-226 (Continued)

Lab Sample ID: MB 810-13208/1-A
 Matrix: Water
 Analysis Batch: 14577

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 13208

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra-226	-0.09000	U	0.0700		1.00	0.170	pCi/L	02/18/22 11:21	03/09/22 12:07	1

- 1
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- 3
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- 14
- 15

QC Association Summary

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20575-1

HPLC/IC

Analysis Batch: 41162

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-20575-1	EP-31	Total/NA	Water	300.0	
860-20575-1 - DL	EP-31	Total/NA	Water	300.0	
860-20575-2 - DL	EP-32	Total/NA	Water	300.0	
860-20575-3 - DL	EP-33	Total/NA	Water	300.0	
860-20575-4 - DL	EP-34	Total/NA	Water	300.0	
860-20575-5 - DL	EP-35	Total/NA	Water	300.0	
860-20575-6 - DL	EP-36	Total/NA	Water	300.0	
860-20575-7 - DL	EP-37	Total/NA	Water	300.0	
860-20575-8 - DL	EP-38	Total/NA	Water	300.0	
860-20575-8	EP-38	Total/NA	Water	300.0	
860-20575-9	MW-04	Total/NA	Water	300.0	
860-20575-9 - DL	MW-04	Total/NA	Water	300.0	
860-20575-10 - DL	DUP-03	Total/NA	Water	300.0	
860-20575-11	FB-03	Total/NA	Water	300.0	
860-20575-12	EB-02	Total/NA	Water	300.0	
MB 860-41162/112	Method Blank	Total/NA	Water	300.0	
MB 860-41162/49	Method Blank	Total/NA	Water	300.0	
LCS 860-41162/113	Lab Control Sample	Total/NA	Water	300.0	
LCS 860-41162/50	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-41162/114	Lab Control Sample Dup	Total/NA	Water	300.0	
LCSD 860-41162/51	Lab Control Sample Dup	Total/NA	Water	300.0	
860-20575-1 MS	EP-31	Total/NA	Water	300.0	
860-20575-1 MSD	EP-31	Total/NA	Water	300.0	

Metals

Prep Batch: 40929

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-20575-1	EP-31	Total/NA	Water	7470A	
860-20575-2	EP-32	Total/NA	Water	7470A	
860-20575-3	EP-33	Total/NA	Water	7470A	
860-20575-4	EP-34	Total/NA	Water	7470A	
860-20575-5	EP-35	Total/NA	Water	7470A	
860-20575-6	EP-36	Total/NA	Water	7470A	
860-20575-7	EP-37	Total/NA	Water	7470A	
860-20575-8	EP-38	Total/NA	Water	7470A	
860-20575-9	MW-04	Total/NA	Water	7470A	
860-20575-10	DUP-03	Total/NA	Water	7470A	
860-20575-11	FB-03	Total/NA	Water	7470A	
860-20575-12	EB-02	Total/NA	Water	7470A	
MB 860-40929/10-A	Method Blank	Total/NA	Water	7470A	
LCS 860-40929/11-A	Lab Control Sample	Total/NA	Water	7470A	
LCSD 860-40929/12-A	Lab Control Sample Dup	Total/NA	Water	7470A	
860-20575-1 MS	EP-31	Total/NA	Water	7470A	
860-20575-1 MSD	EP-31	Total/NA	Water	7470A	

Analysis Batch: 41071

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-20575-1	EP-31	Total/NA	Water	7470A	40929
860-20575-2	EP-32	Total/NA	Water	7470A	40929
860-20575-3	EP-33	Total/NA	Water	7470A	40929

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QC Association Summary

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20575-1

Metals (Continued)

Analysis Batch: 41071 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-20575-4	EP-34	Total/NA	Water	7470A	40929
860-20575-5	EP-35	Total/NA	Water	7470A	40929
860-20575-6	EP-36	Total/NA	Water	7470A	40929
860-20575-7	EP-37	Total/NA	Water	7470A	40929
860-20575-8	EP-38	Total/NA	Water	7470A	40929
860-20575-9	MW-04	Total/NA	Water	7470A	40929
860-20575-10	DUP-03	Total/NA	Water	7470A	40929
860-20575-11	FB-03	Total/NA	Water	7470A	40929
860-20575-12	EB-02	Total/NA	Water	7470A	40929
MB 860-40929/10-A	Method Blank	Total/NA	Water	7470A	40929
LCS 860-40929/11-A	Lab Control Sample	Total/NA	Water	7470A	40929
LCSD 860-40929/12-A	Lab Control Sample Dup	Total/NA	Water	7470A	40929
860-20575-1 MS	EP-31	Total/NA	Water	7470A	40929
860-20575-1 MSD	EP-31	Total/NA	Water	7470A	40929

Prep Batch: 41270

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-20575-1	EP-31	Total/NA	Water	3010A	
860-20575-2	EP-32	Total/NA	Water	3010A	
860-20575-3	EP-33	Total/NA	Water	3010A	
860-20575-4	EP-34	Total/NA	Water	3010A	
860-20575-5	EP-35	Total/NA	Water	3010A	
860-20575-6	EP-36	Total/NA	Water	3010A	
860-20575-7	EP-37	Total/NA	Water	3010A	
860-20575-8	EP-38	Total/NA	Water	3010A	
860-20575-9	MW-04	Total/NA	Water	3010A	
860-20575-10	DUP-03	Total/NA	Water	3010A	
860-20575-11	FB-03	Total/NA	Water	3010A	
860-20575-12	EB-02	Total/NA	Water	3010A	
MB 860-41270/1-A	Method Blank	Total/NA	Water	3010A	
LCS 860-41270/2-A	Lab Control Sample	Total/NA	Water	3010A	
LCSD 860-41270/3-A	Lab Control Sample Dup	Total/NA	Water	3010A	
860-20575-1 MS	EP-31	Total/NA	Water	3010A	
860-20575-1 MSD	EP-31	Total/NA	Water	3010A	

Analysis Batch: 42360

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-20575-1	EP-31	Total/NA	Water	6010C	41270
860-20575-1	EP-31	Total/NA	Water	6010C	41270
860-20575-2	EP-32	Total/NA	Water	6010C	41270
860-20575-3	EP-33	Total/NA	Water	6010C	41270
860-20575-4	EP-34	Total/NA	Water	6010C	41270
860-20575-5	EP-35	Total/NA	Water	6010C	41270
860-20575-6	EP-36	Total/NA	Water	6010C	41270
860-20575-7	EP-37	Total/NA	Water	6010C	41270
860-20575-8	EP-38	Total/NA	Water	6010C	41270
860-20575-9	MW-04	Total/NA	Water	6010C	41270
860-20575-10	DUP-03	Total/NA	Water	6010C	41270
860-20575-11	FB-03	Total/NA	Water	6010C	41270
860-20575-12	EB-02	Total/NA	Water	6010C	41270
MB 860-41270/1-A	Method Blank	Total/NA	Water	6010C	41270

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QC Association Summary

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20575-1

Metals (Continued)

Analysis Batch: 42360 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 860-41270/2-A	Lab Control Sample	Total/NA	Water	6010C	41270
LCSD 860-41270/3-A	Lab Control Sample Dup	Total/NA	Water	6010C	41270
860-20575-1 MS	EP-31	Total/NA	Water	6010C	41270
860-20575-1 MS	EP-31	Total/NA	Water	6010C	41270
860-20575-1 MSD	EP-31	Total/NA	Water	6010C	41270
860-20575-1 MSD	EP-31	Total/NA	Water	6010C	41270

Analysis Batch: 42445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-20575-1	EP-31	Total/NA	Water	6010C	41270
860-20575-2	EP-32	Total/NA	Water	6010C	41270
860-20575-3	EP-33	Total/NA	Water	6010C	41270
860-20575-4	EP-34	Total/NA	Water	6010C	41270
860-20575-5	EP-35	Total/NA	Water	6010C	41270
860-20575-6	EP-36	Total/NA	Water	6010C	41270
860-20575-7	EP-37	Total/NA	Water	6010C	41270
860-20575-10	DUP-03	Total/NA	Water	6010C	41270

General Chemistry

Analysis Batch: 41301

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-20575-1	EP-31	Total/NA	Water	SM 2540C	
860-20575-2	EP-32	Total/NA	Water	SM 2540C	
860-20575-3	EP-33	Total/NA	Water	SM 2540C	
860-20575-4	EP-34	Total/NA	Water	SM 2540C	
MB 860-41301/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-41301/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-41301/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	

Analysis Batch: 41462

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-20575-8	EP-38	Total/NA	Water	SM 2320B	
860-20575-9	MW-04	Total/NA	Water	SM 2320B	
MB 860-41462/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-41462/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-41462/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Analysis Batch: 41496

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-20575-5	EP-35	Total/NA	Water	SM 2540C	
860-20575-6	EP-36	Total/NA	Water	SM 2540C	
860-20575-7	EP-37	Total/NA	Water	SM 2540C	
860-20575-8	EP-38	Total/NA	Water	SM 2540C	
860-20575-9	MW-04	Total/NA	Water	SM 2540C	
860-20575-10	DUP-03	Total/NA	Water	SM 2540C	
860-20575-11	FB-03	Total/NA	Water	SM 2540C	
860-20575-12	EB-02	Total/NA	Water	SM 2540C	
MB 860-41496/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-41496/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-41496/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	

QC Association Summary

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20575-1

General Chemistry

Analysis Batch: 41584

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-20575-2	EP-32	Total/NA	Water	SM 2320B	
860-20575-3	EP-33	Total/NA	Water	SM 2320B	
860-20575-4	EP-34	Total/NA	Water	SM 2320B	
860-20575-5	EP-35	Total/NA	Water	SM 2320B	
860-20575-6	EP-36	Total/NA	Water	SM 2320B	
860-20575-7	EP-37	Total/NA	Water	SM 2320B	
860-20575-10	DUP-03	Total/NA	Water	SM 2320B	
MB 860-41584/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-41584/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCS 860-41584/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Analysis Batch: 41738

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-20575-1	EP-31	Total/NA	Water	SM 2320B	
MB 860-41738/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-41738/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCS 860-41738/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Rad

Prep Batch: 13204

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-20575-5	EP-35	Total/NA	Water	RAD Prep	
860-20575-6	EP-36	Total/NA	Water	RAD Prep	
860-20575-7	EP-37	Total/NA	Water	RAD Prep	
860-20575-8	EP-38	Total/NA	Water	RAD Prep	
860-20575-9	MW-04	Total/NA	Water	RAD Prep	
MB 810-13204/1-A	Method Blank	Total/NA	Water	RAD Prep	
LCS 810-13204/2-A	Lab Control Sample	Total/NA	Water	RAD Prep	

Prep Batch: 13208

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-20575-1	EP-31	Total/NA	Water	RAD Prep	
860-20575-2	EP-32	Total/NA	Water	RAD Prep	
860-20575-3	EP-33	Total/NA	Water	RAD Prep	
860-20575-4	EP-34	Total/NA	Water	RAD Prep	
860-20575-10	DUP-03	Total/NA	Water	RAD Prep	
860-20575-11	FB-03	Total/NA	Water	RAD Prep	
860-20575-12	EB-02	Total/NA	Water	RAD Prep	
MB 810-13208/1-A	Method Blank	Total/NA	Water	RAD Prep	
LCS 810-13208/2-A	Lab Control Sample	Total/NA	Water	RAD Prep	
860-20575-1 MS	EP-31	Total/NA	Water	RAD Prep	
860-20575-1 MSD	EP-31	Total/NA	Water	RAD Prep	

Prep Batch: 550463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-20575-1	EP-31	Total/NA	Water	PrecSep_0	
860-20575-2	EP-32	Total/NA	Water	PrecSep_0	
860-20575-3	EP-33	Total/NA	Water	PrecSep_0	
860-20575-4	EP-34	Total/NA	Water	PrecSep_0	
860-20575-5	EP-35	Total/NA	Water	PrecSep_0	

Eurofins Houston

QC Association Summary

Client: GSI Environmental, Inc
Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20575-1

Rad (Continued)

Prep Batch: 550463 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-20575-6	EP-36	Total/NA	Water	PrecSep_0	
860-20575-7	EP-37	Total/NA	Water	PrecSep_0	
860-20575-8	EP-38	Total/NA	Water	PrecSep_0	
860-20575-9	MW-04	Total/NA	Water	PrecSep_0	
860-20575-10	DUP-03	Total/NA	Water	PrecSep_0	
860-20575-11	FB-03	Total/NA	Water	PrecSep_0	
860-20575-12	EB-02	Total/NA	Water	PrecSep_0	
MB 160-550463/19-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-550463/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
860-20575-1 MS	EP-31	Total/NA	Water	PrecSep_0	
860-20575-1 MSD	EP-31	Total/NA	Water	PrecSep_0	

Lab Chronicle

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20575-1

Client Sample ID: EP-31

Lab Sample ID: 860-20575-1

Date Collected: 02/08/22 11:55

Matrix: Water

Date Received: 02/09/22 09:03

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		1			41162	02/12/22 14:42	WP	XEN STF
Total/NA	Analysis	300.0	DL	10			41162	02/12/22 15:17	WP	XEN STF
Total/NA	Prep	3010A			50 mL	50 mL	41270	02/12/22 08:10	MD	XEN STF
Total/NA	Analysis	6010C		1			42360	02/21/22 16:48	AV	XEN STF
Total/NA	Prep	3010A			50 mL	50 mL	41270	02/12/22 08:10	MD	XEN STF
Total/NA	Analysis	6010C		10			42360	02/21/22 16:59	AV	XEN STF
Total/NA	Prep	3010A			50 mL	50 mL	41270	02/12/22 08:10	MD	XEN STF
Total/NA	Analysis	6010C		50			42445	02/22/22 11:16	AV	XEN STF
Total/NA	Prep	7470A			50 mL	50 mL	40929	02/10/22 08:15	AGR	XEN STF
Total/NA	Analysis	7470A		1			41071	02/10/22 13:18	SHZ	XEN STF
Total/NA	Analysis	SM 2320B		1			41738	02/16/22 12:14	TL	XEN STF
Total/NA	Analysis	SM 2540C		1	25 mL	200 mL	41301	02/12/22 15:38	ADL	XEN STF
Total/NA	Prep	PrecSep_0			332.01 mL	1.0 g	550463	02/14/22 15:48	BMP	TAL SL
Total/NA	Analysis	904.0		1			551785	02/21/22 13:26	FLC	TAL SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	13208	02/18/22 11:21	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			14577		SS	EA SB
							(Start)	03/09/22 12:07		
							(End)	03/09/22 12:37		

Client Sample ID: EP-32

Lab Sample ID: 860-20575-2

Date Collected: 02/08/22 10:40

Matrix: Water

Date Received: 02/09/22 09:03

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	DL	10			41162	02/12/22 15:42	WP	XEN STF
Total/NA	Prep	3010A			50 mL	50 mL	41270	02/12/22 08:10	MD	XEN STF
Total/NA	Analysis	6010C		10			42360	02/21/22 17:28	AV	XEN STF
Total/NA	Prep	3010A			50 mL	50 mL	41270	02/12/22 08:10	MD	XEN STF
Total/NA	Analysis	6010C		50			42445	02/22/22 10:33	AV	XEN STF
Total/NA	Prep	7470A			50 mL	50 mL	40929	02/10/22 08:15	AGR	XEN STF
Total/NA	Analysis	7470A		1			41071	02/10/22 13:28	SHZ	XEN STF
Total/NA	Analysis	SM 2320B		1			41584	02/15/22 12:48	TL	XEN STF
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	41301	02/12/22 15:38	ADL	XEN STF
Total/NA	Prep	PrecSep_0			382.97 mL	1.0 g	550463	02/14/22 15:48	BMP	TAL SL
Total/NA	Analysis	904.0		1			551785	02/21/22 13:26	FLC	TAL SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	13208	02/18/22 11:21	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			14577		SS	EA SB
							(Start)	03/09/22 12:07		
							(End)	03/09/22 12:37		

Lab Chronicle

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20575-1

Client Sample ID: EP-33

Lab Sample ID: 860-20575-3

Date Collected: 02/08/22 09:30

Matrix: Water

Date Received: 02/09/22 09:03

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	DL	10			41162	02/12/22 04:11	WP	XEN STF
Total/NA	Prep	3010A			50 mL	50 mL	41270	02/12/22 08:10	MD	XEN STF
Total/NA	Analysis	6010C		10			42360	02/21/22 17:31	AV	XEN STF
Total/NA	Prep	3010A			50 mL	50 mL	41270	02/12/22 08:10	MD	XEN STF
Total/NA	Analysis	6010C		50			42445	02/22/22 10:36	AV	XEN STF
Total/NA	Prep	7470A			50 mL	50 mL	40929	02/10/22 08:15	AGR	XEN STF
Total/NA	Analysis	7470A		1			41071	02/10/22 13:29	SHZ	XEN STF
Total/NA	Analysis	SM 2320B		1			41584	02/15/22 12:57	TL	XEN STF
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	41301	02/12/22 15:38	ADL	XEN STF
Total/NA	Prep	PrecSep_0			375.51 mL	1.0 g	550463	02/14/22 15:48	BMP	TAL SL
Total/NA	Analysis	904.0		1			551785	02/21/22 13:27	FLC	TAL SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	13208	02/18/22 11:21	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			14577		SS	EA SB
								(Start)	03/09/22 12:07	
								(End)	03/09/22 12:37	

Client Sample ID: EP-34

Lab Sample ID: 860-20575-4

Date Collected: 02/08/22 14:05

Matrix: Water

Date Received: 02/09/22 09:03

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	DL	10			41162	02/12/22 04:22	WP	XEN STF
Total/NA	Prep	3010A			50 mL	50 mL	41270	02/12/22 08:10	MD	XEN STF
Total/NA	Analysis	6010C		10			42360	02/21/22 17:35	AV	XEN STF
Total/NA	Prep	3010A			50 mL	50 mL	41270	02/12/22 08:10	MD	XEN STF
Total/NA	Analysis	6010C		50			42445	02/22/22 10:40	AV	XEN STF
Total/NA	Prep	7470A			50 mL	50 mL	40929	02/10/22 08:15	AGR	XEN STF
Total/NA	Analysis	7470A		1			41071	02/10/22 13:31	SHZ	XEN STF
Total/NA	Analysis	SM 2320B		1			41584	02/15/22 13:22	TL	XEN STF
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	41301	02/12/22 15:38	ADL	XEN STF
Total/NA	Prep	PrecSep_0			359.68 mL	1.0 g	550463	02/14/22 15:48	BMP	TAL SL
Total/NA	Analysis	904.0		1			551785	02/21/22 13:26	FLC	TAL SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	13208	02/18/22 11:21	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			14577		SS	EA SB
								(Start)	03/09/22 12:07	
								(End)	03/09/22 12:37	

Client Sample ID: EP-35

Lab Sample ID: 860-20575-5

Date Collected: 02/08/22 13:20

Matrix: Water

Date Received: 02/09/22 09:03

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	DL	10			41162	02/12/22 04:46	WP	XEN STF
Total/NA	Prep	3010A			50 mL	50 mL	41270	02/12/22 08:10	MD	XEN STF
Total/NA	Analysis	6010C		10			42360	02/21/22 17:38	AV	XEN STF

Eurofins Houston

Lab Chronicle

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20575-1

Client Sample ID: EP-35

Lab Sample ID: 860-20575-5

Date Collected: 02/08/22 13:20

Matrix: Water

Date Received: 02/09/22 09:03

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	41270	02/12/22 08:10	MD	XEN STF
Total/NA	Analysis	6010C		50			42445	02/22/22 10:44	AV	XEN STF
Total/NA	Prep	7470A			50 mL	50 mL	40929	02/10/22 08:15	AGR	XEN STF
Total/NA	Analysis	7470A		1			41071	02/10/22 13:32	SHZ	XEN STF
Total/NA	Analysis	SM 2320B		1			41584	02/15/22 13:30	TL	XEN STF
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	41496	02/15/22 10:08	ADL	XEN STF
Total/NA	Prep	PrecSep_0			499.41 mL	1.0 g	550463	02/14/22 15:48	BMP	TAL SL
Total/NA	Analysis	904.0		1			551785	02/21/22 13:26	FLC	TAL SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	13204	02/18/22 11:16	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			14210		SS	EA SB
							(Start)	03/02/22 11:04		
							(End)	03/02/22 11:34		

Client Sample ID: EP-36

Lab Sample ID: 860-20575-6

Date Collected: 02/08/22 12:30

Matrix: Water

Date Received: 02/09/22 09:03

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	DL	10			41162	02/12/22 05:09	WP	XEN STF
Total/NA	Prep	3010A			50 mL	50 mL	41270	02/12/22 08:10	MD	XEN STF
Total/NA	Analysis	6010C		10			42360	02/21/22 17:42	AV	XEN STF
Total/NA	Prep	3010A			50 mL	50 mL	41270	02/12/22 08:10	MD	XEN STF
Total/NA	Analysis	6010C		50			42445	02/22/22 10:47	AV	XEN STF
Total/NA	Prep	7470A			50 mL	50 mL	40929	02/10/22 08:15	AGR	XEN STF
Total/NA	Analysis	7470A		1			41071	02/10/22 13:34	SHZ	XEN STF
Total/NA	Analysis	SM 2320B		1			41584	02/15/22 13:37	TL	XEN STF
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	41496	02/15/22 10:08	ADL	XEN STF
Total/NA	Prep	PrecSep_0			376.96 mL	1.0 g	550463	02/14/22 15:48	BMP	TAL SL
Total/NA	Analysis	904.0		1			551785	02/21/22 13:27	FLC	TAL SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	13204	02/18/22 11:16	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			14210		SS	EA SB
							(Start)	03/02/22 11:04		
							(End)	03/02/22 11:34		

Client Sample ID: EP-37

Lab Sample ID: 860-20575-7

Date Collected: 02/08/22 11:40

Matrix: Water

Date Received: 02/09/22 09:03

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	DL	10			41162	02/12/22 05:32	WP	XEN STF
Total/NA	Prep	3010A			50 mL	50 mL	41270	02/12/22 08:10	MD	XEN STF
Total/NA	Analysis	6010C		10			42360	02/21/22 17:46	AV	XEN STF
Total/NA	Prep	3010A			50 mL	50 mL	41270	02/12/22 08:10	MD	XEN STF
Total/NA	Analysis	6010C		50			42445	02/22/22 10:51	AV	XEN STF

Lab Chronicle

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20575-1

Client Sample ID: EP-37

Lab Sample ID: 860-20575-7

Date Collected: 02/08/22 11:40

Matrix: Water

Date Received: 02/09/22 09:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			50 mL	50 mL	40929	02/10/22 08:15	AGR	XEN STF
Total/NA	Analysis	7470A		1			41071	02/10/22 13:35	SHZ	XEN STF
Total/NA	Analysis	SM 2320B		1			41584	02/15/22 13:45	TL	XEN STF
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	41496	02/15/22 10:08	ADL	XEN STF
Total/NA	Prep	PrecSep_0			371.23 mL	1.0 g	550463	02/14/22 15:48	BMP	TAL SL
Total/NA	Analysis	904.0		1			551785	02/21/22 13:27	FLC	TAL SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	13204	02/18/22 11:16	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			14210		SS	EA SB
							(Start)	03/02/22 11:04		
							(End)	03/02/22 11:34		

Client Sample ID: EP-38

Lab Sample ID: 860-20575-8

Date Collected: 02/08/22 09:40

Matrix: Water

Date Received: 02/09/22 09:03

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	DL	10			41162	02/12/22 05:56	WP	XEN STF
Total/NA	Analysis	300.0		1			41162	02/12/22 06:31	WP	XEN STF
Total/NA	Prep	3010A			50 mL	50 mL	41270	02/12/22 08:10	MD	XEN STF
Total/NA	Analysis	6010C		10			42360	02/21/22 17:49	AV	XEN STF
Total/NA	Prep	7470A			50 mL	50 mL	40929	02/10/22 08:15	AGR	XEN STF
Total/NA	Analysis	7470A		1			41071	02/10/22 13:36	SHZ	XEN STF
Total/NA	Analysis	SM 2320B		1			41462	02/14/22 15:40	TL	XEN STF
Total/NA	Analysis	SM 2540C		1	25 mL	200 mL	41496	02/15/22 10:08	ADL	XEN STF
Total/NA	Prep	PrecSep_0			349.54 mL	1.0 g	550463	02/14/22 15:48	BMP	TAL SL
Total/NA	Analysis	904.0		1			551785	02/21/22 13:27	FLC	TAL SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	13204	02/18/22 11:16	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			14210		SS	EA SB
							(Start)	03/02/22 11:04		
							(End)	03/02/22 11:34		

Client Sample ID: MW-04

Lab Sample ID: 860-20575-9

Date Collected: 02/08/22 10:40

Matrix: Water

Date Received: 02/09/22 09:03

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		1			41162	02/12/22 06:42	WP	XEN STF
Total/NA	Analysis	300.0	DL	10			41162	02/12/22 06:54	WP	XEN STF
Total/NA	Prep	3010A			50 mL	50 mL	41270	02/12/22 08:10	MD	XEN STF
Total/NA	Analysis	6010C		10			42360	02/21/22 17:53	AV	XEN STF
Total/NA	Prep	7470A			50 mL	50 mL	40929	02/10/22 08:15	AGR	XEN STF
Total/NA	Analysis	7470A		1			41071	02/10/22 13:38	SHZ	XEN STF
Total/NA	Analysis	SM 2320B		1			41462	02/14/22 15:47	TL	XEN STF
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	41496	02/15/22 10:08	ADL	XEN STF

Eurofins Houston

Lab Chronicle

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20575-1

Client Sample ID: MW-04

Lab Sample ID: 860-20575-9

Date Collected: 02/08/22 10:40

Matrix: Water

Date Received: 02/09/22 09:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			381.83 mL	1.0 g	550463	02/14/22 15:48	BMP	TAL SL
Total/NA	Analysis	904.0		1			551785	02/21/22 13:27	FLC	TAL SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	13204	02/18/22 11:16	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			14210		SS	EA SB
							(Start)	03/02/22 11:04		
							(End)	03/02/22 11:34		

Client Sample ID: DUP-03

Lab Sample ID: 860-20575-10

Date Collected: 02/08/22 10:00

Matrix: Water

Date Received: 02/09/22 09:03

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	DL	10			41162	02/12/22 07:06	WP	XEN STF
Total/NA	Prep	3010A			50 mL	50 mL	41270	02/12/22 08:10	MD	XEN STF
Total/NA	Analysis	6010C		10			42360	02/21/22 18:04	AV	XEN STF
Total/NA	Prep	3010A			50 mL	50 mL	41270	02/12/22 08:10	MD	XEN STF
Total/NA	Analysis	6010C		50			42445	02/22/22 10:54	AV	XEN STF
Total/NA	Prep	7470A			50 mL	50 mL	40929	02/10/22 08:15	AGR	XEN STF
Total/NA	Analysis	7470A		1			41071	02/10/22 13:39	SHZ	XEN STF
Total/NA	Analysis	SM 2320B		1			41584	02/15/22 14:10	TL	XEN STF
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	41496	02/15/22 10:08	ADL	XEN STF
Total/NA	Prep	PrecSep_0			389.70 mL	1.0 g	550463	02/14/22 15:48	BMP	TAL SL
Total/NA	Analysis	904.0		1			551785	02/21/22 13:27	FLC	TAL SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	13208	02/18/22 11:23	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			14577		SS	EA SB
							(Start)	03/09/22 12:07		
							(End)	03/09/22 12:37		

Client Sample ID: FB-03

Lab Sample ID: 860-20575-11

Date Collected: 02/08/22 12:50

Matrix: Water

Date Received: 02/09/22 09:03

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		1			41162	02/12/22 07:29	WP	XEN STF
Total/NA	Prep	3010A			50 mL	50 mL	41270	02/12/22 08:10	MD	XEN STF
Total/NA	Analysis	6010C		10			42360	02/21/22 18:07	AV	XEN STF
Total/NA	Prep	7470A			50 mL	50 mL	40929	02/10/22 08:15	AGR	XEN STF
Total/NA	Analysis	7470A		1			41071	02/10/22 13:43	SHZ	XEN STF
Total/NA	Analysis	SM 2540C		1	200 mL	200 mL	41496	02/15/22 10:08	ADL	XEN STF
Total/NA	Prep	PrecSep_0			370.18 mL	1.0 g	550463	02/14/22 15:48	BMP	TAL SL
Total/NA	Analysis	904.0		1			551609	02/21/22 13:33	FLC	TAL SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	13208	02/18/22 11:21	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			14577		SS	EA SB
							(Start)	03/09/22 12:07		
							(End)	03/09/22 12:37		

Eurofins Houston

Lab Chronicle

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20575-1

Client Sample ID: EB-02

Lab Sample ID: 860-20575-12

Date Collected: 02/08/22 11:05

Matrix: Water

Date Received: 02/09/22 09:03

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		1			41162	02/12/22 07:41	WP	XEN STF
Total/NA	Prep	3010A			50 mL	50 mL	41270	02/12/22 08:10	MD	XEN STF
Total/NA	Analysis	6010C		10			42360	02/21/22 18:11	AV	XEN STF
Total/NA	Prep	7470A			50 mL	50 mL	40929	02/10/22 08:15	AGR	XEN STF
Total/NA	Analysis	7470A		1			41071	02/10/22 13:45	SHZ	XEN STF
Total/NA	Analysis	SM 2540C		1	200 mL	200 mL	41496	02/15/22 10:08	ADL	XEN STF
Total/NA	Prep	PrecSep_0			362.97 mL	1.0 g	550463	02/14/22 15:48	BMP	TAL SL
Total/NA	Analysis	904.0		1			551609	02/21/22 13:33	FLC	TAL SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	13208	02/18/22 11:21	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			14577		SS	EA SB
							(Start)	03/09/22 12:07		
							(End)	03/09/22 12:37		

Laboratory References:

EA SB = Eurofins Eaton South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777
 TAL SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566
 XEN STF = 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 2H21 GW

Job ID: 860-20575-1

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	T104704215-21-44	06-30-22
<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
6010C	3010A	Water	SiO2
SM 2320B		Water	Bicarbonate Alkalinity as CaCO3
SM 2320B		Water	Carbonate Alkalinity as CaCO3
SM 2320B		Water	Hydroxide Alkalinity

Laboratory: Eurofins Eaton 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	07-31-22
Alabama	State	40700	06-30-22
Alaska	State	IN00035	06-30-22
Arizona	State	AZ0432	07-26-22
Arkansas (DW)	State	EPA IN00035	06-30-22
California	State	2920	06-30-22
Colorado	State	IN00035	02-28-22 *
Connecticut	State	PH-0132	03-31-22
Delaware (DW)	State	IN00035	06-30-22
Florida	NELAP	E87775	06-30-22
Georgia (DW)	State	929	06-30-22
Hawaii	State	IN035	06-30-22
Idaho (DW)	State	IN00035	12-31-22
IL Dept. of Public Health (Micro)	State	17767	06-30-22
Illinois	NELAP	200001	09-30-22
Indiana	State	C-71-01	12-31-22
Indiana (Micro)	State	M-76-07	12-31-22
Iowa	State	IA Lab #098	11-01-21 *
Kansas	NELAP	E-10233	10-31-22
Kentucky (DW)	State	KY90056	12-31-22
Louisiana (DW)	State	LA180008	12-31-22
Maine	State	IN00035	05-01-23
Maryland	State	209	03-31-22
Massachusetts	State	M-IN035	06-30-22
MI - RadChem Recognition	State	9926	06-30-22
Michigan	State	9926	03-22-22
Minnesota	NELAP	1989807	12-31-22
Mississippi	State	IN00035	06-30-22
Missouri	State	880	09-30-24
Montana (DW)	State	CERT0026	01-01-23
Nebraska	State	NE-OS-05-04	06-30-22
Nevada	State	IN000352021-1	08-01-22
New Hampshire	NELAP	2124	11-05-22
New Jersey	NELAP	IN598	06-30-22
New Mexico	State	IN00035	06-30-22
New York	NELAP	11398	04-01-22
North Carolina (DW)	State	18700	07-31-22

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

Accreditation/Certification Summary

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20575-1

Laboratory: Eurofins Eaton South Bend (Continued)

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

Authority	Program	Identification Number	Expiration Date
North Dakota	State	R-035	06-30-22
Ohio	State	87775	06-30-22
Oklahoma	NELAP	D9508	08-31-22
Oregon	NELAP	4156	09-16-22
Pennsylvania	NELAP	68-00466	04-30-22
Puerto Rico	State	IN00035	04-02-22
Rhode Island	State	LAO00343	12-31-21 *
South Carolina	State	95005001	06-30-22
South Dakota (DW)	State	IN00035	12-31-22
Tennessee	State	TN02973	06-30-22
Texas	NELAP	T104704187-20-4	12-31-22
Texas	TCEQ Water Supply	TX207	06-30-22
USEPA Reg X SDWA	US Federal Programs	IN00035	08-20-22
Utah	NELAP	IN000352021-14	07-31-22
Vermont	State	VT-8775	11-15-22
Virginia	NELAP	460275	03-14-22
Washington	State	C837	01-01-23
West Virginia (DW)	State	9927 C	12-31-22
Wisconsin	State	999766900	08-31-22
Wisconsin (Micro)	State	10121	12-31-22
Wyoming	State	8TMS-L	08-23-22

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	07-31-22

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

Analysis Method	Prep Method	Matrix	Analyte
904.0	PrecSep_0	Water	Radium-228

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

Method Summary

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20575-1

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	XEN STF
6010C	Metals (ICP)	SW846	XEN STF
7470A	Mercury (CVAA)	SW846	XEN STF
SM 2320B	Alkalinity	SM	XEN STF
SM 2540C	Solids, Total Dissolved (TDS)	SM	XEN STF
904.0	Radium-228 (GFPC)	EPA	TAL SL
SM7500 Ra B	Radium-226	SM	EA SB
3010A	Preparation, Total Metals	SW846	XEN STF
7470A	Preparation, Mercury	SW846	XEN STF
PrecSep_0	Preparation, Precipitate Separation	None	TAL SL
RAD Prep	Preparation, Radiologicals	None	EA SB

Protocol References:

- EPA = US Environmental Protection Agency
- MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
- 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 South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777
- TAL SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566
- XEN STF = 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 2H21 GW

Job ID: 860-20575-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-20575-1	EP-31	Water	02/08/22 11:55	02/09/22 09:03
860-20575-2	EP-32	Water	02/08/22 10:40	02/09/22 09:03
860-20575-3	EP-33	Water	02/08/22 09:30	02/09/22 09:03
860-20575-4	EP-34	Water	02/08/22 14:05	02/09/22 09:03
860-20575-5	EP-35	Water	02/08/22 13:20	02/09/22 09:03
860-20575-6	EP-36	Water	02/08/22 12:30	02/09/22 09:03
860-20575-7	EP-37	Water	02/08/22 11:40	02/09/22 09:03
860-20575-8	EP-38	Water	02/08/22 09:40	02/09/22 09:03
860-20575-9	MW-04	Water	02/08/22 10:40	02/09/22 09:03
860-20575-10	DUP-03	Water	02/08/22 10:00	02/09/22 09:03
860-20575-11	FB-03	Water	02/08/22 12:50	02/09/22 09:03
860-20575-12	EB-02	Water	02/08/22 11:05	02/09/22 09:03

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Chain of Custody Record

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: mlschofield@gsi-net.com
 Project Name: 1422 San Miguel Electrical Co-Op #2424 GW
 Site: Equalization Pond

Sampler
 Scott Wdc + HMI Team
 Phone: 832-347-4521
 Lab PM: Kudchadkar Sachin G
 E-Mail: Sachin.Kudchadkar@Eurofins.com

Analysis Requested
 228 P 151500 RA B M
 228 P 151500 RA B M
 228 P 151500 RA B M

Sample Identification	Sample Date	Sample Time	Sample Type (C-comp, G-grab)	Preservation Code	Field Filtered Sample (Yes or No)	220B Alkalinity	TI:Hg	300-Cl, F, SO4	354-M Rad 228/228	Analysis Requested	Carrier Tracking No(s)	COC No:
EP-31	2/8/22	1155	G	Water	Y	✓	✓	✓	✓	✓	TX	860-3614-1220.1
EP-31 (MS)				Water	Y	✓	✓	✓	✓	✓		
EP-31 (MSD)				Water	Y	✓	✓	✓	✓	✓		
EP-32		1040		Water	✓	✓	✓	✓	✓	✓		
EP-33		930		Water	✓	✓	✓	✓	✓	✓		
EP-34		1405		Water	✓	✓	✓	✓	✓	✓		
EP-35		1320		Water	✓	✓	✓	✓	✓	✓		
EP-36		1230		Water	✓	✓	✓	✓	✓	✓		
EP-37		1140		Water	✓	✓	✓	✓	✓	✓		
EP-38		940		Water	✓	✓	✓	✓	✓	✓		
MW-04		1040		Water	✓	✓	✓	✓	✓	✓		

Special Instructions/Note:
 Temp. 08 IR ID:HOU-323
 C/F +0.2 Corrected Temp: 10
 Temp. 14 IR ID:HOU-323
 C/F +0.2 Corrected Temp: 16
 Temp. 11 IR ID:HOU-323
 C/F +0.2 Corrected Temp: 13
 Temp. 06 IR ID:HOU-323
 C/F +0.2 Corrected Temp: 08

Preservation Codes:
 A HCL M Hexane
 B NaOH N None
 C Zn Acetate O AsHClO2
 D Nitric Acid P Na2OAS
 E NaHSO4 Q Na2SO3
 F MeOH R Na2S2O3
 G Amchlor S H2SO4
 H Ascorbic Acid T TSP Dodecalhydrate
 I Ice U Acetone
 J DI Water V MCAA
 K EDTA W pH 4-5
 L EDA X other (specify)
 Other

Special Instructions/Note:
 Total Number of containers: 10
 860-20575 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: _____
 Relinquished by: _____
 Relinquished by: _____
 Relinquished by: _____

Received by: _____
 Received by: _____
 Received by: _____

Date: 2/9/22 903
 Date/Time: 2/9/22 903
 Date/Time: _____
 Date/Time: _____

Company: HMI
 Company: HMI
 Company: _____
 Company: _____

Method of Shipment: Cons. Dispatch
 Date/Time: 2/9/22 903
 Date/Time: _____
 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:

Custody Seals Intact
 Δ Yes Δ No _____
 Custody Seal No. _____

Ver 01/16/2010

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

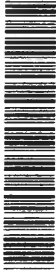
Chain of Custody Record

eurofins Environment Testing
 America

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@gssi-net.com Project Name: San Miguel Electrical Co-Op 2121 1122 GW Site:		Sampler: Scott Wade + HMI Team Lab PM: Kudchadkar Sachin G E-Mail: Sachin.Kudchadkar@Eurofins.com Phone: 832-347-4521 PWSID:	Carrier Tracking No(s): State of Origin: TX COC No: 860-3614-122D.1 Page: 2 of 2 Job #:
Due Date Requested: TAT Requested (days): Compliance Project: Δ Yes ▲ No PO #: WO #: Project #: 86001746 SSOW#:	Analysis Requested	Preservation Codes: A HCL B NaOH C Zn Acetate D Nitric Acid E NaHSO4 F MeOH G Ascorbic Acid H Ascorbic Acid TSP Dodecylhydrate I Ice J DI Water K EDTA L EDA Other	
Sample Identification DUP-03 FB-03 EB-02	Sample Date: 2/18/22 Sample Time: 1000 Sample Type (C=Comp, G=grab): G Sample Time: 1250 Sample Time: 1105	Field Filtered Sample (Yes or No): [X] 2220B Alkalinity: N 69100 -7471-B, Ca, Sb, As, Ba, Be, Bi, Br, Cd, Cr, Co, Pb, Li, Mo, Se, Ti, Hg: N 2540C, TDS: N 300-Cl, F, SO4: N 5044-76- Rad 228/228 Eurofins St Louis: N	Special Instructions/Notes: Loc 860 20575
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			
Empty Kit Relinquished by:		Method of Shipment: <i>GenS. Dropoff</i>	
Relinquished by: <i>[Signature]</i>	Date/Time: 2-24-22 903	Received by: <i>[Signature]</i>	Date/Time: 2/29/22 903
Relinquished by:	Date/Time:	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:
Custody Seals Intact: Δ Yes ▲ No		Temperature (s) °C and Other Remarks:	
Var 01/16/2019			

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Chain of Custody Record



Client Information (Sub Contract Lab)		Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-10141.1
Client Contact: Shipping/Receiving		E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 860-20575-1
Address: 13715 Rider Trail North, Earth City, MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)				
Email:				
Project Name: San Miguel Electrical Co-Op 2H21 GW				
Site:				
Due Date Requested: 3/9/2022		Analysis Requested		
TAT Requested (days):				
PO #		Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	90.4/PreSep. 0 Standard Target List
WO #		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)
Project #	86001746	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)
SSOW#		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)
EP-31 (860-20575-1)		2/8/22	11:55 Central	Water
EP-31 (860-20575-1MS)		2/8/22	11:55 Central	Water
EP-31 (860-20575-1MSD)		2/8/22	11:55 Central	Water
EP-32 (860-20575-2)		2/8/22	10:40 Central	Water
EP-33 (860-20575-3)		2/8/22	09:30 Central	Water
EP-34 (860-20575-4)		2/8/22	14:05 Central	Water
EP-35 (860-20575-5)		2/8/22	13:20 Central	Water
EP-36 (860-20575-6)		2/8/22	12:30 Central	Water
EP-37 (860-20575-7)		2/8/22	11:40 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 out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/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				
<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Special Instructions/QC Requirements:				
Deliverable Requested: I, II, III, IV, Other (specify) _____ Primary Deliverable Rank: 2 Empty Kit Relinquished by: _____ Date: _____ Time: _____ Relinquished by: <i>YCAPS</i> Date/Time: 2/9/22 1700 Relinquished by: _____ Date/Time: _____ Relinquished by: _____ Date/Time: _____ Custody Seals Intact: _____ Custody Seal No. _____ Δ Yes Δ No				
Received by: _____ Date/Time: _____ Company: _____ Received by: <i>Jana Worthington</i> Date/Time: 2-10-22 10:35 Company: <i>EPASR</i> Received by: _____ Date/Time: _____ Company: _____ 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:		Phone:	Kudchadkar, Sachin G	860-10141.2	860-10141.2					
Shipping/Receiving:		E-Mail:	Sachin.Kudchadkar@Eurofinset.com	State of Origin:	Page:					
Company:		Accreditations Required (See note):	NELAP - Texas	Texas	Page 2 of 2					
TestAmerica Laboratories, Inc.		Preservation Codes:								
Address:		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:		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)								
State, Zip:		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)								
MO, 63045		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)								
Phone:		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)								
314-298-8566(Tel) 314-298-8757(Fax)		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:		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)								
Project Name:		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)								
San Miguel Electrical Co-Op 2H21 GW		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)								
Site:		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)								
Due Date Requested:		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)								
3/9/2022		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)								
TAT Requested (days):		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)								
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)								
WO #:		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)								
Project #:		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)								
86001746		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)								
SSOW#:		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)								
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=Water, S=Soil, O=MetSed, I=I-tissue, A=Air)	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:
EP-38 (860-20575-8)	2/8/22	09:40 Central	Water	X	X	1				
MW-04 (860-20575-9)	2/8/22	10:40 Central	Water	X	X	1				
DUP-03 (860-20575-10)	2/8/22	10:00 Central	Water	X	X	1				
FB-03 (860-20575-11)	2/8/22	12:50 Central	Water	X	X	1				
EB-02 (860-20575-12)	2/8/22	11:05 Central	Water	X	X	1				
<p>Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/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</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>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</p> <p>Received by: FEDEX Date/Time: Company:</p> <p>Received by: <i>Suma Worthington</i> Date/Time: 2-10-22 1035 Company: GTNR</p> <p>Received by: Date/Time: Company:</p> <p>Cooler Temperature(s) °C and Other Remarks:</p>										
<p>Empty Kit Relinquished by: Date: Time: Method of Shipment:</p> <p>Relinquished by: <i>JCIPR</i> Date/Time: 2/9/22 1700 Company:</p> <p>Relinquished by: FEDEX Date/Time: Company:</p> <p>Relinquished by: Date/Time: Company:</p> <p>Custody Seals Intact: Custody Seal No.:</p> <p>Δ Yes Δ No</p>										



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

Chain of Custody Record



Env
Am
Testing



Client Information (Sub Contract Lab)		Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-10140.1	
Client Contact:		E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 1 of 2	
Shipping/Receiving		Company: Eurofins Eaton Analytical	Accreditations Required (See note): NELAP - Texas	Job #: 860-20575-1	
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: 3/9/2022 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 - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)		
Project Name: San Miguel Electrical Co-Op 2H21 GW Site:		PO #: WO #: Project #: 86001746 SSOW#:	Analysis Requested		
Sample Identification - Client ID (Lab ID)		Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Total Number of Containers	Special Instructions/Note:
EP-31 (860-20575-1)	2/8/22	11:55 Central	X	1	
EP-31 (860-20575-1MS)	2/8/22	11:55 Central	X	1	
EP-31 (860-20575-1MSD)	2/8/22	11:55 Central	X	1	
EP-32 (860-20575-2)	2/8/22	10:40 Central	X	1	
EP-33 (860-20575-3)	2/8/22	09:30 Central	X	1	
EP-34 (860-20575-4)	2/8/22	14:05 Central	X	1	
EP-35 (860-20575-5)	2/8/22	13:20 Central	X	1	
EP-36 (860-20575-6)	2/8/22	12:30 Central	X	1	
EP-37 (860-20575-7)	2/8/22	11:40 Central	X	1	
<p>Note: Since laboratory accreditations are subject to change, Eurofins Environment, Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/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:					
Relinquished by: <i>YCARS</i> Date: 2/9/22 1700					
Relinquished by: <i>YCARS</i> Date: 2/9/22 1700					
Relinquished by: <i>YCARS</i> Date: 2/9/22 1700					
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No					
Custody Seal No.:					
Cooler Temperature(s) °C and Other Remarks: <i>1000 Ambient</i>					
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:					
Time:					
Received by: _____ Date/Time: _____					
Received by: _____ Date/Time: _____					
Received by: _____ Date/Time: _____					
Method of Shipment:					
Primary Deliverable Rank: 2					



Chain of Custody Record



Client Information (Sub Contract Lab)		Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s): 860-10140.2						
Shipping/Receiving		E-Mail: Sachin.Kudchadkar@Eurofins.com	Page: Page 2 of 2						
Company: Eurofins Eaton Analytical		Accreditations Required (See note): NELAP - Texas	Job #: 860-20575-1						
Address: 110 S Hill Street, City: South Bend State, Zip: IN, 46617		Due Date Requested: 3/9/2022	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:						
Phone: 574-233-4777 (Tel) 574-233-8207 (Fax)		TAT Requested (days):	M - Hexane N - None O - AsNaO2 P - Na2OAS Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - NCA4 W - pH 4-5 Z - other (specify)						
Email: 574-233-4777 (Tel) 574-233-8207 (Fax)		PO #:							
Project Name: San Miguel Electrical Co-Op 2H21 GW		WO #:							
Site: San Miguel Electrical Co-Op 2H21 GW		Project #: 86001746							
		SSOW#:							
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=water, B=biological, T=tissue, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SM7500_Ra_BRad_Prep Radium Z26	Total Number of Containers	Special Instructions/Note:
EP-38 (860-20575-8)	2/8/22	09:40 Central		Water	X	X	X	1	
MW-04 (860-20575-9)	2/8/22	10:40 Central		Water	X	X	X	1	
DUP-03 (860-20575-10)	2/8/22	10:00 Central		Water	X	X	X	1	
FB-03 (860-20575-11)	2/8/22	12:50 Central		Water	X	X	X	1	
EB-02 (860-20575-12)	2/8/22	11:05 Central		Water	X	X	X	1	
<p>Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/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									
Date:									
Relinquished by: YCPRS									
Date/Time: 2/9/22 1700									
Relinquished by:									
Date/Time:									
Relinquished by:									
Date/Time:									
Custody Seal No.:									
Custody Seal No.:									
Cooler Temperature(s) °C and Other Remarks: 2-10-2022-1006 AMBIXNT									



Login Sample Receipt Checklist

Client: GSI Environmental, Inc

Job Number: 860-20575-1

Login Number: 20575

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: 860-20575-1

Login Number: 20575

List Number: 3

Creator: DePriest, Kellie

List Source: Eurofins Eaton South Bend

List Creation: 02/14/22 04:31 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Samples do not require splitting or compositing.	True	
Container provided by EEA	False	Client provided containers



Login Sample Receipt Checklist

Client: GSI Environmental, Inc

Job Number: 860-20575-1

Login Number: 20575

List Number: 2

Creator: Worthington, Sierra M

List Source: Eurofins St. Louis

List Creation: 02/11/22 09:30 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	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 2022 Sampling Event (Job ID: 860-20580-1)

OVERVIEW

GSI Environmental Inc. (GSI) reviewed one data package from Eurofins Xenco located in Stafford, Texas (XEN STF) for the analysis of **fourteen groundwater samples collected from the Ash Ponds on 08 February 2022** at the San Miguel Electric Cooperative, Inc., Christine, Atascosa County, Texas site. XEN STF sent the samples to Eurofins TestAmerica located in St. Louis, Missouri (TAL SL) for Radium-226 analysis and Eurofins Eaton located in South Bend, Indiana (EA SB) for Radium-228 analysis. 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, XEN STF, TAL SL and EA SB were National Environmental Laboratory Accreditation Program (NELAP)-accredited under the Texas Laboratory Accreditation Program (Certification Number: T104704215-21-44, T104704193 and T104704187-20-4, respectively) for the matrices, analytes, and methods of analysis requested on the chain-of-custody documentation, with the following exceptions. XEN STF is not certified for silicon dioxide (SiO₂) analysis by method 6010C or Bicarbonate Alkalinity as calcium carbonate (CaCO₃), Carbonate Alkalinity as CaCO₃ or Hydroxide Alkalinity by Method 2320B. TAL SL is not certified for Radium-228 by Method 904.0. A copy of XEN STF's NELAP certificate applicable to the period during which the laboratory generated the data in this report is included in Appendix A.

Intended Use of Data

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

- Method 6010C - Metals (Inductively Coupled Plasma (ICP))
- Method 300.0 – Anions, Ion Chromatography
- Method SM2320B - Alkalinity
- Method SM2540C - Total Dissolved Solids (TDS)
- Method 7470A – Mercury (Cold Vapor Atomic Absorption (CVAA) Spectroscopy)
- Method 904.0 – Radium-228 (GFPC)
- Method 7500 Ra B – Radium-226

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

- the reportable data (i.e., results provided in the laboratory data package),
- the laboratory review checklists and associated exception reports, and

- the field notes with respect to field instrument calibrations, filtering procedures (if applicable), and sampling procedures.

The results of supporting quality control (QC) analyses were summarized in the laboratory case narrative (LCN), which was included in this review. The LCN 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	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 sample detection limit (SDL). Results between the SDL and sample quantitation limit (SQL) 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 C-O-C. The samples were received by the laboratory in the appropriate containers and in good condition. The receipt temperature of the samples was below the acceptance criteria of 2°C - 6°C, at concentrations ranging from 0.5°C to 1.4°C. Samples were prepared and analyzed within method-specified holding times, and field preservation was done as specified in the Sampling and Analysis Plan [SAP] (GSI,2019). Items related to the preservation, holding times and sample dilution are listed below.

- Several samples were diluted due to the nature of the sample matrix. These included PZ-02, AP-31, AP-32, AP-33, AP-34, AP-35, AP-36, MW-03, PZ-05, PZ-06, DUP-02, FB-02 and EB-01. Elevated reporting limits (RLs) were provided by the laboratory.

Finding: No additional qualifiers were added per this evaluation.

Radium Results

According to the LCN, 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 the LCN. Radium 228 sample results in batch 552748 are reported with the count date/time applied as the Activity Reference Date.

Finding: No qualifiers were added per this evaluation.

Calibrations

No calibration issues were identified in the laboratory report narrative or during review of the laboratory data package.

Finding: No qualifiers were added per this evaluation.

Blanks

Method Blanks

- The method blank for analytical batch 860-41279 contained Sulfate above the method detection limit (MDL). The target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed by the laboratory. The laboratory qualified affected samples with a "B". Additional qualifiers were added as noted below.
- The method blank for preparation batch 860-41270 and analytical batch 860-42360 contained Calcium, Magnesium, Selenium and Thallium above the MDL. The target analyte concentrations were less than the RL; therefore, re-extraction and/or re-analysis of the samples was not performed by the laboratory. The laboratory qualified affected samples with a "B". No additional qualifiers were added because none of the affected samples were detected at concentrations that were <5X the blank concentration.
- The method blank for preparation batch 860-41271 and analytical batch 860-42360 contained Chromium above the MDL. The target analyte concentration was less than the RL; therefore, re-extraction and/or re-analysis of the samples was not performed by the laboratory. The laboratory qualified affected samples with a "B". No additional qualifiers were added because none of the affected samples were detected at concentrations that were <5X the blank concentration.

Field Blanks

- One field blank, FB-02, was collected during sampling activities at the same location as PZ-05 and analyzed for the same parameters as "normal" sample. Chloride, Fluoride, Sulfate, Antimony, Lithium and Total Dissolved Solids (TDS) were detected at concentrations above the MDL. However, none of these analytes were detected in PZ-05 at concentrations that were within 5X of the field blank concentrations

Equipment Blanks

- One equipment blank, EB-01, was collected during sampling activities at the same location as PZ-06 and analyzed for the same parameters as "normal" sample. Sulfate, Antimony, Lithium and TDS were detected at concentrations above the MDL. However, none of these

analytes were detected in PZ-06 at concentrations that were within 5X of the equipment blank concentrations.

Finding: In addition to the “B” qualifiers added by the laboratory for method blank detections, GSI added “U” qualifiers to detected Sulfate results in samples FB-02 and EB-01 because they were detected at concentrations that were less than five times (<5X) the blank concentration.

Internal Standard and Surrogate Recoveries (VOCs and SVOCs Only)

Not applicable.

Laboratory Control Samples

The LCN indicated the following issues with Laboratory Control Sample (LCS)/Laboratory Control Sample Duplicate (LCSD) recoveries and Relative Percent Differences (RPDs):

- The LCS was outside acceptance criteria for Radium 228 in batch 552748. Re-extraction and/or re-analysis could not be performed due to insufficient sample volume; therefore, the data were reported by the laboratory. The batch MS/MSD (which was run on sample PZ-3) was within acceptance limits and may be used to evaluate matrix performance. The laboratory qualified affected results with an asterisk. Additional qualifiers were added as noted below.

Finding: “JH” qualifiers were added to detected Radium-228 results in samples PZ-02, PZ-05, PZ-06, DUP-02, PZ-03, AP-31, AP-32, AP-33, AP-34, AP-35, AP-36, and MW-03 because the LCS percent recovery (%R) was above specifications.

Matrix Spike/Matrix Spike Duplicates and Laboratory Duplicates

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

- The MS/MSD recoveries for sample PZ-03 in preparation batch 860-41271 and analytical batch 860-42360 were outside control limits for Antimony, Barium, Beryllium, Boron, Cadmium, Chromium, Cobalt, Lead, Magnesium, Molybdenum, Silicon, Sodium and Thallium. Sample matrix interference and/or non-homogeneity are suspected because the associated LCS recovery was within acceptance limits.
 - The spiking amount was less than four times (4X) the result in the un-spiked parent sample for Boron, Calcium, Cobalt, Magnesium, Silicon and Sodium; therefore, the MS/MSD recoveries for these analytes do not represent the matrix effect.
 - The spiking amount was greater than 4X the result in the un-spiked parent sample for Antimony, Barium, Beryllium, Chromium, Lead, Molybdenum, and Thallium and sample matrix interference and/or high target concentration is suspected.
- The MS/MSD recoveries for sample PZ-03 in preparation batch 13202 and analytical batch 15604 were outside control limits for Radium-226. The spiking amount was greater than 4X the un-spiked parent sample, and sample matrix interference is suspected. The LCN indicated that the MS/MSD had a dirty sample matrix which resulted in a high biased barium carrier recovery and that results may be biased low.

Findings: GSI added “JL” qualifiers to detected results and “UJL” qualifiers to non-detected results of Antimony, Barium, Beryllium, Chromium, Lead, Molybdenum and Thallium in sample

PZ-03 and the associated MS/MSD sample because the Percent Recovery (%R) was below specifications and greater than 30%.

GSI added “JL” qualifiers to detected results and “UJL” qualifiers to non-detected results of the Barium Carrier in sample PZ-03 and the associated MS/MSD sample because the %R was below specifications and greater than 30%.

Field Duplicates (Field Precision)

A field duplicate identified as DUP-02 was collected for sample MW-03 during the field event. Field precision was calculated and the RPD was within the project-defined QC acceptance criteria for all analytes. A comparison of the field sample and the duplicate sample is 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. No data were rejected based on this review and validation. However, a limited number of qualifiers were added to affected samples.

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
02/082022	XEN STF	860-20580-1	PZ-02	Water
02/082022	XEN STF	860-20580-2	PZ-03	Water
02/082022	XEN STF	860-20580-3	AP-31	Water
02/082022	XEN STF	860-20580-4	AP-32	Water
02/082022	XEN STF	860-20580-5	AP-33	Water
02/082022	XEN STF	860-20580-6	AP-34	Water
02/082022	XEN STF	860-20580-7	AP-35	Water
02/082022	XEN STF	860-20580-8	AP-36	Water
02/082022	XEN STF	860-20580-9	MW-03	Water
02/082022	XEN STF	860-20580-10	PZ-05	Water
02/082022	XEN STF	860-20580-11	PZ-06	Water
02/082022	XEN STF	860-20580-12	DUP-02	Water
02/082022	XEN STF	860-20580-13	FB-02	Water
02/082022	XEN STF	860-20580-14	EB-01	Water

Notes:
 XEN STF: Eurofins Xenco, Stafford, Texas

TABLE 2
Qualifiers Added During Data Usability Review

Sample ID	Analyte	Lab Result	Unit	DUS Qualifier or Bias Code	Reason for Qualification	Batch Number	Report Number
PZ-02	Radium-228	2.97 *	pCi/L	JH	LCS %R above specifications	160-553147	860-20581-1
PZ-05	Radium-228	2.71 *	pCi/L	JH	LCS %R above specifications	160-553278	860-20581-1
PZ-06	Radium-228	2.1 *	pCi/L	JH	LCS %R above specifications	160-553278	860-20581-1
DUP-02	Radium-228	4.22 *	pCi/L	JH	LCS %R above specifications	160-553278	860-20581-1
FB-02	Sulfate	0.589 B	mg/L	U	Concentration < 5X MB	860-41279	860-20580-1
EB-01	Sulfate	0.248 JB	mg/L	U	Concentration < 5X MB	860-41279	860-20580-1
PZ-03	Antimony	0.00589 U F1	mg/L	UJL	MS/MSD %R above specifications and >30%	860-42360	860-20580-1
PZ-03	Barium	0.00941 J F1	mg/L	JL	MS/MSD %R above specifications and >30%	860-42360	860-20580-1
PZ-03	Beryllium	0.199 F1	mg/L	JL	MS/MSD %R above specifications and >30%	860-42360	860-20580-1
PZ-03	Chromium	0.0188 F1 B	mg/L	JL	MS/MSD %R above specifications and >30%	860-42360	860-20580-1
PZ-03	Lead	0.0109 F1	mg/L	JL	MS/MSD %R above specifications and >30%	860-42360	860-20580-1
PZ-03	Molybdenum	0.00687 J F1	mg/L	JL	MS/MSD %R above specifications and >30%	860-42360	860-20580-1
PZ-03	Thallium	0.00621 U F1	mg/L	UJL	MS/MSD %R above specifications and >30%	860-42360	860-20580-1
PZ-03	Radium-228	3.54 *	pCi/L	JH	LCS %R above specifications	160-553147	860-20581-1
PZ-03	Ba Carrier	0.039	g	JL	MS/MSD %R above specifications and >30%	160-553147	860-20581-1
PZ-03 MS	Antimony	0.7742	mg/L	JL	MS/MSD %R above specifications and >30%	860-42360	860-20580-1
PZ-03 MS	Barium	0.7346 F1	mg/L	JL	MS/MSD %R above specifications and >30%	860-42360	860-20580-1
PZ-03 MS	Beryllium	0.9375 F1	mg/L	JL	MS/MSD %R above specifications and >30%	860-42360	860-20580-1
PZ-03 MS	Chromium	0.7434 F1	mg/L	JL	MS/MSD %R above specifications and >30%	860-42360	860-20580-1
PZ-03 MS	Lead	0.7295	F1mg/L	JL	MS/MSD %R above specifications and >30%	860-42360	860-20580-1
PZ-03 MS	Molybdenum	0.7716	mg/L	JL	MS/MSD %R above specifications and >30%	860-42360	860-20580-1
PZ-03 MS	Thallium	0.6825 F1	mg/L	UJL	MS/MSD %R above specifications and >30%	860-42360	860-20580-1
PZ-03 MS	Ba Carrier	0.0364	g	JL	MS/MSD %R above specifications and >30%	160-553147	860-20581-1

TABLE 2 (continued)
Qualifiers Added During Data Usability Review

Sample ID	Analyte	Lab Result	Unit	DUS Qualifier or Bias Code	Reason for Qualification	Batch Number	Report Number
PZ-03 MSD	Antimony	0.7664	mg/L	JL	MS/MSD %R above specifications and >30%	860-42360	860-20580-1
PZ-03 MSD	Barium	0.7333 F1	mg/L	JL	MS/MSD %R above specifications and >30%	860-42360	860-20580-1
PZ-03 MSD	Beryllium	0.9368 F1	mg/L	JL	MS/MSD %R above specifications and >30%	860-42360	860-20580-1
PZ-03 MSD	Chromium	0.7387 F1	mg/L	JL	MS/MSD %R above specifications and >30%	860-42360	860-20580-1
PZ-03 MSD	Lead	0.7207 F1	mg/L	JL	MS/MSD %R above specifications and >30%	860-42360	860-20580-1
PZ-03 MSD	Thallium	0.6845 F1	mg/L	UJL	MS/MSD %R above specifications and >30%	860-42360	860-20580-1
PZ-03 MSD	Ba Carrier	0.0364	g	JL	MS/MSD %R above specifications and >30%	160-553147	860-20581-1
AP-31	Radium-228	1.29 *	pCi/L	JH	LCS %R above specifications	160-553147	860-20581-1
AP-32	Radium-228	10.2 *	pCi/L	JH	LCS %R above specifications	160-553147	860-20581-1
AP-33	Radium-228	7.83 *	pCi/L	JH	LCS %R above specifications	160-553147	860-20581-1
AP-34	Radium-228	3.88 *	pCi/L	JH	LCS %R above specifications	160-553147	860-20581-1
AP-35	Radium-228	24.7 *	pCi/L	JH	LCS %R above specifications	160-553147	860-20581-1
AP-36	Radium-228	3.66 *	pCi/L	JH	LCS %R above specifications	160-553147	860-20581-1
MW-03	Radium-228	5.53 *	pCi/L	JH	LCS %R above specifications	160-553147	860-20581-1

Notes:

1. *:LCS or LCSD is outside acceptance limits
2. F1: MS and/or MSD recovery exceeds control limits
3. B: The compound was found in the blank and sample
4. pCi/L:picocuries per liter
5. mg/L: milligrams per liter.
6. g: grams
7. U: Not detected.
8. UJL: Not detected, biased low
9. JH: Estimated value, biased high
10. JL: Estimated value, biased low
11. 5X: Five times
12. >30%: Greater than 30 percent
13. LCS: Laboratory Control Sample
14. MS: Matrix Spike
15. MSD: Matrix Spike Duplicate
16. MB: Method Blank

TABLE 3
Field Duplicate Detections

Analyte	MQL (MDL) (mg/L)	Primary Sample Result (mg/L)	Field Duplicate Result (mg/L)	Relative Percent Difference	Notes
MW-03 and DUP-02					
Chloride	2.0	1950	1990	2.03 %	A
Fluoride	1.00	1.00 U	1.13 J		< 5X MQL; A
Sulfate	1.09	4190 B	4390 B	4.67 %	A
Beryllium	0.00490	0.0208 J	0.0240 J		< 5X MQL; A
Boron	0.0343	10.9	12.3	12.07 %	A
Cadmium	0.0243	0.0458 J	0.0519	12.49 %	A
Calcium	0.293	508	497	2.19 %	A
Chromium	0.00811	0.00811 U	0.0412 JB		< 5X MQL; A
Cobalt	0.00673	0.290	0.332	13.51 %	A
Magnesium	0.500	93.1	90.4	2.94 %	A
Potassium	1.07	34.1	32.9	3.59 %	A
Sodium	3.33	2400	1960	20.18 %	A
Lithium	0.0448	1.76	1.74	1.14 %	A
SiO ₂	0.781	116	115	0.87 %	A
Mercury	0.0000263	0.0000340 J	0.0000350 J		< 5X MQL; A
TDS	100	10500	10200	2.90 %	A

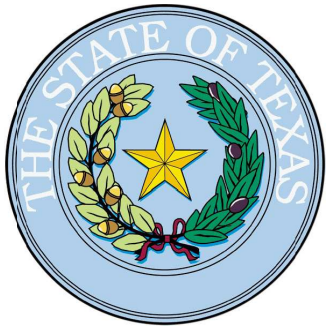
Notes:

1. MQL: Method Quantitation Limit
2. MDL: Method Detection Limit
3. J: The result is less than the RL but greater than or equal to the MDL and the result is estimated
4. B: Compound was found in the blank and sample
5. mg/L: milligrams per liter
6. $RPD = (PR - FD) / AVERAGE(PR + FD) * 100$, where PR is the Primary Sample and FD is the Field Duplicate
7. A = Acceptable RPD.
8. <5MQL; The sample result is less than five times the MQL/MDL.

Attachment A

Eurofins Xenco, Stafford

TCEQ NELAP-Recognized Laboratory Accreditation Certificate



Texas Commission on Environmental Quality

NELAP-Recognized Laboratory Accreditation is hereby awarded to



Eurofins Xenco, LLC - Houston

4147 Greenbriar Drive
Stafford, TX 77477-3907

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: T104704215-21-44

Effective Date: 7/14/2021

Expiration Date: 6/30/2022

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

**Executive Director Texas Commission on
Environmental Quality**

Attachment B
Eurofins Xenco, Stafford
Analytical Report
Job ID.: 860-20580-1

ANALYTICAL REPORT

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Tel: (281)240-4200

Laboratory Job ID: 860-20580-1

Client Project/Site: San Miguel Electrical Co-Op 2H21 GW

For:

GSI Environmental, Inc
9600 Great Hills Trail
Suite 350E
Austin, Texas 78759

Attn: Mike Schofield



Authorized for release by:
3/28/2022 9:25:41 AM

Sachin Kudchadkar, Senior Project Manager
(281)748-9025
Sachin.Kudchadkar@Eurofinset.com

LINKS

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results through
TotalAccess

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www.eurofinsus.com/Env

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

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



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Definitions/Glossary

Client: GSI Environmental, Inc
Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20580-1

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.
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
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.
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

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

Rad

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
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

Eurofins Houston

Definitions/Glossary

Client: GSI Environmental, Inc
Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20580-1

Glossary (Continued)

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

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Case Narrative

Client: GSI Environmental, Inc
Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20580-1

Job ID: 860-20580-1

Laboratory: Eurofins Houston

Narrative

Job Narrative 860-20580-1

Receipt

The samples were received on 2/9/2022 9:03 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 5 coolers at receipt time were 0.5°C, 0.6°C, 1.1°C, 1.3°C and 1.4°C

HPLC/IC

Method 300_ORGFM_28D: The method blank for analytical batch 860-41279 contained 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.

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

Metals

Method 6010C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 860-41271 and analytical batch 860-42360 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 6010C: The following samples were diluted due to the nature of the sample matrix: PZ-02 (860-20580-1), AP-31 (860-20580-3), AP-32 (860-20580-4), AP-33 (860-20580-5), AP-34 (860-20580-6), AP-35 (860-20580-7), AP-36 (860-20580-8), MW-03 (860-20580-9), PZ-05 (860-20580-10), PZ-06 (860-20580-11), DUP-02 (860-20580-12), FB-02 (860-20580-13) and EB-01 (860-20580-14). Elevated reporting limits (RLs) are provided.

Method 6010C: The method blank for preparation batch 860-41270 and analytical batch 860-42360 contained Calcium, Magnesium, Selenium and Zinc 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 6010C: The method blank for preparation batch 860-41271 and analytical batch 860-42360 contained Chromium 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.

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 552748The laboratory control sample (LCS) was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed due to insufficient sample volume; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance. PZ-03 (860-20580-2[MS]), PZ-03 (860-20580-2[MSD]) and (LCS 160-552748/1-A)

Method 904.0: Radium 228 batch 552748Any 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 (860-20580-1), PZ-03 (860-20580-2), PZ-03 (860-20580-2[MS]), PZ-03 (860-20580-2[MSD]), AP-31 (860-20580-3), AP-32 (860-20580-4), AP-33 (860-20580-5), AP-34 (860-20580-6), AP-35 (860-20580-7), AP-36 (860-20580-8), MW-03 (860-20580-9), PZ-05 (860-20580-10), PZ-06 (860-20580-11), DUP-02 (860-20580-12), FB-02 (860-20580-13), EB-01 (860-20580-14), (LCS 160-552748/1-A) and (MB 160-552748/20-A)

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

Rad

Case Narrative

Client: GSI Environmental, Inc
Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20580-1

Job ID: 860-20580-1 (Continued)

Laboratory: Eurofins Houston (Continued)

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 22.7-69.1 mg. The sample barium precipitate is 130.0 mg, MS 114.0, and MSD 70.1.

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 22.7-69.1 mg. The sample barium precipitate is 74.8 mg.

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 22.7-69.1 mg. The sample barium precipitate is 79.1 mg.

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 22.7-69.1 mg. The sample barium precipitate is 87.0 mg.

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 22.7-69.1 mg. The sample barium precipitate is 91.4 mg.

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 22.7-69.1 mg. The sample barium precipitate is 141.4 mg.

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 2H21 GW

Job ID: 860-20580-1

Client Sample ID: PZ-02

Lab Sample ID: 860-20580-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride - DL	4100		5.00	2.00	mg/L	10		300.0	Total/NA
Fluoride - DL	1.35	J	5.00	1.00	mg/L	10		300.0	Total/NA
Sulfate - DL	3090		5.00	1.09	mg/L	10		300.0	Total/NA
Barium	0.0164	J	0.100	0.0135	mg/L	10		6010C	Total/NA
Boron	7.18		0.500	0.0343	mg/L	10		6010C	Total/NA
Calcium	790	B	2.00	0.293	mg/L	10		6010C	Total/NA
Magnesium	122	B	2.00	0.500	mg/L	10		6010C	Total/NA
Potassium	50.4		5.00	1.07	mg/L	10		6010C	Total/NA
Sodium	2810		25.0	3.33	mg/L	50		6010C	Total/NA
Lithium	2.08		0.200	0.0448	mg/L	10		6010C	Total/NA
SiO2	73.1		10.7	0.781	mg/L	10		6010C	Total/NA
Total Alkalinity	81.8		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	81.8		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	9330		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: PZ-03

Lab Sample ID: 860-20580-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride - DL	5410	E	5.00	2.00	mg/L	10		300.0	Total/NA
Fluoride - DL	6.85	F1	5.00	1.00	mg/L	10		300.0	Total/NA
Sulfate - DL	4300		5.00	1.09	mg/L	10		300.0	Total/NA
Arsenic	0.0468		0.0100	0.00550	mg/L	1		6010C	Total/NA
Barium	0.00941	J F1	0.0100	0.00135	mg/L	1		6010C	Total/NA
Beryllium	0.199	F1	0.00400	0.000490	mg/L	1		6010C	Total/NA
Boron	7.95		0.0500	0.00343	mg/L	1		6010C	Total/NA
Cadmium	0.426		0.00500	0.00243	mg/L	1		6010C	Total/NA
Calcium	693		2.00	0.293	mg/L	10		6010C	Total/NA
Chromium	0.0118	F1 B	0.0100	0.000811	mg/L	1		6010C	Total/NA
Cobalt	1.13	F1	0.0100	0.000673	mg/L	1		6010C	Total/NA
Magnesium	227		2.00	0.500	mg/L	10		6010C	Total/NA
Lead	0.0109	F1	0.0100	0.00237	mg/L	1		6010C	Total/NA
Molybdenum	0.00687	J F1	0.0100	0.00123	mg/L	1		6010C	Total/NA
Potassium	24.5		0.500	0.107	mg/L	1		6010C	Total/NA
Sodium	3460		25.0	3.33	mg/L	50		6010C	Total/NA
Lithium	2.12		0.0200	0.00448	mg/L	1		6010C	Total/NA
SiO2	102		1.07	0.0781	mg/L	1		6010C	Total/NA
Total Dissolved Solids	12700		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: AP-31

Lab Sample ID: 860-20580-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride - DL	2080		5.00	2.00	mg/L	10		300.0	Total/NA
Sulfate - DL	3210		5.00	1.09	mg/L	10		300.0	Total/NA
Arsenic	0.0830	J	0.100	0.0550	mg/L	10		6010C	Total/NA
Beryllium	0.0120	J	0.0400	0.00490	mg/L	10		6010C	Total/NA
Boron	52.6		0.500	0.0343	mg/L	10		6010C	Total/NA
Calcium	584	B	2.00	0.293	mg/L	10		6010C	Total/NA
Cobalt	0.251		0.100	0.00673	mg/L	10		6010C	Total/NA
Magnesium	61.9	B	2.00	0.500	mg/L	10		6010C	Total/NA
Potassium	10.6		5.00	1.07	mg/L	10		6010C	Total/NA
Sodium	1760		5.00	0.667	mg/L	10		6010C	Total/NA
Lithium	0.790		0.200	0.0448	mg/L	10		6010C	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 2H21 GW

Job ID: 860-20580-1

Client Sample ID: AP-31 (Continued)

Lab Sample ID: 860-20580-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
SiO2	95.0		10.7	0.781	mg/L	10		6010C	Total/NA
Mercury	0.000234		0.000200	0.0000263	mg/L	1		7470A	Total/NA
Total Dissolved Solids	10600		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: AP-32

Lab Sample ID: 860-20580-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride - DL	2920		5.00	2.00	mg/L	10		300.0	Total/NA
Fluoride - DL	1.38	J	5.00	1.00	mg/L	10		300.0	Total/NA
Sulfate - DL	3520		5.00	1.09	mg/L	10		300.0	Total/NA
Arsenic	0.145		0.100	0.0550	mg/L	10		6010C	Total/NA
Beryllium	0.0560		0.0400	0.00490	mg/L	10		6010C	Total/NA
Boron	22.1		0.500	0.0343	mg/L	10		6010C	Total/NA
Cadmium	0.0809		0.0500	0.0243	mg/L	10		6010C	Total/NA
Calcium	644	B	2.00	0.293	mg/L	10		6010C	Total/NA
Cobalt	0.591		0.100	0.00673	mg/L	10		6010C	Total/NA
Magnesium	86.1	B	2.00	0.500	mg/L	10		6010C	Total/NA
Potassium	37.5		5.00	1.07	mg/L	10		6010C	Total/NA
Sodium	2400		25.0	3.33	mg/L	50		6010C	Total/NA
Lithium	1.62		0.200	0.0448	mg/L	10		6010C	Total/NA
SiO2	127		10.7	0.781	mg/L	10		6010C	Total/NA
Mercury	0.00233		0.000200	0.0000263	mg/L	1		7470A	Total/NA
Total Dissolved Solids	7330		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: AP-33

Lab Sample ID: 860-20580-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride - DL	13.6		5.00	1.00	mg/L	10		300.0	Total/NA
Chloride - DL2	8200		50.0	20.0	mg/L	100		300.0	Total/NA
Sulfate - DL2	7010		50.0	10.9	mg/L	100		300.0	Total/NA
Beryllium	0.250		0.0400	0.00490	mg/L	10		6010C	Total/NA
Boron	56.2		0.500	0.0343	mg/L	10		6010C	Total/NA
Cadmium	0.109		0.0500	0.0243	mg/L	10		6010C	Total/NA
Calcium	688	B	2.00	0.293	mg/L	10		6010C	Total/NA
Cobalt	1.32		0.100	0.00673	mg/L	10		6010C	Total/NA
Magnesium	174	B	2.00	0.500	mg/L	10		6010C	Total/NA
Potassium	25.4		5.00	1.07	mg/L	10		6010C	Total/NA
Sodium	2830		25.0	3.33	mg/L	50		6010C	Total/NA
Lithium	1.19		0.200	0.0448	mg/L	10		6010C	Total/NA
SiO2	122		10.7	0.781	mg/L	10		6010C	Total/NA
Mercury	0.00531		0.000200	0.0000263	mg/L	1		7470A	Total/NA
Total Dissolved Solids	8490		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: AP-34

Lab Sample ID: 860-20580-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride - DL	2930		5.00	2.00	mg/L	10		300.0	Total/NA
Fluoride - DL	8.70		5.00	1.00	mg/L	10		300.0	Total/NA
Sulfate - DL	3520		5.00	1.09	mg/L	10		300.0	Total/NA
Antimony	0.102	J	0.200	0.0589	mg/L	10		6010C	Total/NA
Beryllium	0.271		0.0400	0.00490	mg/L	10		6010C	Total/NA
Boron	22.3		0.500	0.0343	mg/L	10		6010C	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 2H21 GW

Job ID: 860-20580-1

Client Sample ID: AP-34 (Continued)

Lab Sample ID: 860-20580-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	647	B	2.00	0.293	mg/L	10		6010C	Total/NA
Cobalt	1.15		0.100	0.00673	mg/L	10		6010C	Total/NA
Magnesium	134	B	2.00	0.500	mg/L	10		6010C	Total/NA
Potassium	14.7		5.00	1.07	mg/L	10		6010C	Total/NA
Sodium	1620		5.00	0.667	mg/L	10		6010C	Total/NA
Lithium	1.36		0.200	0.0448	mg/L	10		6010C	Total/NA
SiO2	124		10.7	0.781	mg/L	10		6010C	Total/NA
Mercury	0.00319		0.000200	0.0000263	mg/L	1		7470A	Total/NA
Total Dissolved Solids	10200		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: AP-35

Lab Sample ID: 860-20580-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride - DL	2400		5.00	2.00	mg/L	10		300.0	Total/NA
Fluoride - DL	13.3		5.00	1.00	mg/L	10		300.0	Total/NA
Sulfate - DL	3630		5.00	1.09	mg/L	10		300.0	Total/NA
Arsenic	0.124		0.100	0.0550	mg/L	10		6010C	Total/NA
Beryllium	0.317		0.0400	0.00490	mg/L	10		6010C	Total/NA
Boron	5.65		0.500	0.0343	mg/L	10		6010C	Total/NA
Calcium	573	B	2.00	0.293	mg/L	10		6010C	Total/NA
Chromium	0.0101	J	0.100	0.00811	mg/L	10		6010C	Total/NA
Cobalt	0.0681	J	0.100	0.00673	mg/L	10		6010C	Total/NA
Magnesium	155	B	2.00	0.500	mg/L	10		6010C	Total/NA
Potassium	51.1		5.00	1.07	mg/L	10		6010C	Total/NA
Sodium	1600		5.00	0.667	mg/L	10		6010C	Total/NA
Lithium	1.61		0.200	0.0448	mg/L	10		6010C	Total/NA
SiO2	112		10.7	0.781	mg/L	10		6010C	Total/NA
Mercury	0.000530		0.000200	0.0000263	mg/L	1		7470A	Total/NA
Total Dissolved Solids	7540		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: AP-36

Lab Sample ID: 860-20580-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	0.747		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 - DL	2890	B	5.00	1.09	mg/L	10		300.0	Total/NA
Beryllium	0.0102	J	0.0400	0.00490	mg/L	10		6010C	Total/NA
Boron	2.21		0.500	0.0343	mg/L	10		6010C	Total/NA
Calcium	591		2.00	0.293	mg/L	10		6010C	Total/NA
Cobalt	0.0536	J	0.100	0.00673	mg/L	10		6010C	Total/NA
Magnesium	94.3		2.00	0.500	mg/L	10		6010C	Total/NA
Potassium	35.5		5.00	1.07	mg/L	10		6010C	Total/NA
Sodium	1260		5.00	0.667	mg/L	10		6010C	Total/NA
Lithium	1.04		0.200	0.0448	mg/L	10		6010C	Total/NA
SiO2	92.7		10.7	0.781	mg/L	10		6010C	Total/NA
Total Dissolved Solids	8290		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-03

Lab Sample ID: 860-20580-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride - DL	1950		5.00	2.00	mg/L	10		300.0	Total/NA
Sulfate - DL	4190	B	5.00	1.09	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 2H21 GW

Job ID: 860-20580-1

Client Sample ID: MW-03 (Continued)

Lab Sample ID: 860-20580-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	0.0208	J	0.0400	0.00490	mg/L	10		6010C	Total/NA
Boron	10.9		0.500	0.0343	mg/L	10		6010C	Total/NA
Cadmium	0.0458	J	0.0500	0.0243	mg/L	10		6010C	Total/NA
Calcium	508		2.00	0.293	mg/L	10		6010C	Total/NA
Cobalt	0.290		0.100	0.00673	mg/L	10		6010C	Total/NA
Magnesium	93.1		2.00	0.500	mg/L	10		6010C	Total/NA
Potassium	34.1		5.00	1.07	mg/L	10		6010C	Total/NA
Sodium	2400		25.0	3.33	mg/L	50		6010C	Total/NA
Lithium	1.76		0.200	0.0448	mg/L	10		6010C	Total/NA
SiO2	116		10.7	0.781	mg/L	10		6010C	Total/NA
Mercury	0.0000340	J	0.000200	0.0000263	mg/L	1		7470A	Total/NA
Total Dissolved Solids	10500		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: PZ-05

Lab Sample ID: 860-20580-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride - DL	2510		5.00	2.00	mg/L	10		300.0	Total/NA
Fluoride - DL	4.62	J	5.00	1.00	mg/L	10		300.0	Total/NA
Sulfate - DL	3230	B	5.00	1.09	mg/L	10		300.0	Total/NA
Beryllium	0.184		0.0400	0.00490	mg/L	10		6010C	Total/NA
Boron	24.2		0.500	0.0343	mg/L	10		6010C	Total/NA
Cadmium	0.0716		0.0500	0.0243	mg/L	10		6010C	Total/NA
Calcium	601		2.00	0.293	mg/L	10		6010C	Total/NA
Chromium	0.0113	J B	0.100	0.00811	mg/L	10		6010C	Total/NA
Cobalt	0.882		0.100	0.00673	mg/L	10		6010C	Total/NA
Magnesium	107		2.00	0.500	mg/L	10		6010C	Total/NA
Potassium	19.8		5.00	1.07	mg/L	10		6010C	Total/NA
Sodium	1580		5.00	0.667	mg/L	10		6010C	Total/NA
Selenium	0.125	J	0.300	0.0439	mg/L	10		6010C	Total/NA
Lithium	1.01		0.200	0.0448	mg/L	10		6010C	Total/NA
SiO2	114		10.7	0.781	mg/L	10		6010C	Total/NA
Mercury	0.000472		0.000200	0.0000263	mg/L	1		7470A	Total/NA
Total Dissolved Solids	8200		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: PZ-06

Lab Sample ID: 860-20580-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride - DL	1960		5.00	2.00	mg/L	10		300.0	Total/NA
Sulfate - DL	3130	B	5.00	1.09	mg/L	10		300.0	Total/NA
Arsenic	0.0570	J	0.100	0.0550	mg/L	10		6010C	Total/NA
Boron	2.67		0.500	0.0343	mg/L	10		6010C	Total/NA
Calcium	638		2.00	0.293	mg/L	10		6010C	Total/NA
Magnesium	94.9		2.00	0.500	mg/L	10		6010C	Total/NA
Potassium	40.5		5.00	1.07	mg/L	10		6010C	Total/NA
Sodium	1450		5.00	0.667	mg/L	10		6010C	Total/NA
Lithium	0.953		0.200	0.0448	mg/L	10		6010C	Total/NA
SiO2	79.8		10.7	0.781	mg/L	10		6010C	Total/NA
Total Alkalinity	90.2		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	90.2		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	8800		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: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20580-1

Client Sample ID: DUP-02

Lab Sample ID: 860-20580-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride - DL	1990		5.00	2.00	mg/L	10		300.0	Total/NA
Fluoride - DL	1.13	J	5.00	1.00	mg/L	10		300.0	Total/NA
Sulfate - DL	4390	B	5.00	1.09	mg/L	10		300.0	Total/NA
Beryllium	0.0240	J	0.0400	0.00490	mg/L	10		6010C	Total/NA
Boron	12.3		0.500	0.0343	mg/L	10		6010C	Total/NA
Cadmium	0.0519		0.0500	0.0243	mg/L	10		6010C	Total/NA
Calcium	497		2.00	0.293	mg/L	10		6010C	Total/NA
Chromium	0.0412	J B	0.100	0.00811	mg/L	10		6010C	Total/NA
Cobalt	0.332		0.100	0.00673	mg/L	10		6010C	Total/NA
Magnesium	90.4		2.00	0.500	mg/L	10		6010C	Total/NA
Potassium	32.9		5.00	1.07	mg/L	10		6010C	Total/NA
Sodium	1980		5.00	0.667	mg/L	10		6010C	Total/NA
Lithium	1.74		0.200	0.0448	mg/L	10		6010C	Total/NA
SiO2	115		10.7	0.781	mg/L	10		6010C	Total/NA
Mercury	0.0000350	J	0.000200	0.0000263	mg/L	1		7470A	Total/NA
Total Dissolved Solids	10200		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: FB-02

Lab Sample ID: 860-20580-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	0.349	J	0.500	0.200	mg/L	1		300.0	Total/NA
Fluoride	0.175	J	0.500	0.100	mg/L	1		300.0	Total/NA
Sulfate	0.589	B	0.500	0.109	mg/L	1		300.0	Total/NA
Antimony	0.183	J	0.200	0.0589	mg/L	10		6010C	Total/NA
Lithium	0.111	J	0.200	0.0448	mg/L	10		6010C	Total/NA
Total Dissolved Solids	172		5.00	5.00	mg/L	1		SM 2540C	Total/NA

Client Sample ID: EB-01

Lab Sample ID: 860-20580-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	0.248	J B	0.500	0.109	mg/L	1		300.0	Total/NA
Antimony	0.136	J	0.200	0.0589	mg/L	10		6010C	Total/NA
Lithium	0.107	J	0.200	0.0448	mg/L	10		6010C	Total/NA
Total Dissolved Solids	15.0		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 2H21 GW

Job ID: 860-20580-1

Client Sample ID: PZ-02

Lab Sample ID: 860-20580-1

Date Collected: 02/08/22 09:45

Matrix: Water

Date Received: 02/09/22 09:03

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4100		5.00	2.00	mg/L			02/12/22 08:51	10
Fluoride	1.35	J	5.00	1.00	mg/L			02/12/22 08:51	10
Sulfate	3090		5.00	1.09	mg/L			02/12/22 08:51	10

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0589	U	0.200	0.0589	mg/L		02/12/22 08:10	02/21/22 18:18	10
Arsenic	0.0550	U	0.100	0.0550	mg/L		02/12/22 08:10	02/21/22 18:18	10
Barium	0.0164	J	0.100	0.0135	mg/L		02/12/22 08:10	02/21/22 18:18	10
Beryllium	0.00490	U	0.0400	0.00490	mg/L		02/12/22 08:10	02/21/22 18:18	10
Boron	7.18		0.500	0.0343	mg/L		02/12/22 08:10	02/21/22 18:18	10
Cadmium	0.0243	U	0.0500	0.0243	mg/L		02/12/22 08:10	02/21/22 18:18	10
Calcium	790	B	2.00	0.293	mg/L		02/12/22 08:10	02/21/22 18:18	10
Chromium	0.00811	U	0.100	0.00811	mg/L		02/12/22 08:10	02/21/22 18:18	10
Cobalt	0.00673	U	0.100	0.00673	mg/L		02/12/22 08:10	02/21/22 18:18	10
Magnesium	122	B	2.00	0.500	mg/L		02/12/22 08:10	02/21/22 18:18	10
Lead	0.0237	U	0.100	0.0237	mg/L		02/12/22 08:10	02/21/22 18:18	10
Molybdenum	0.0123	U	0.100	0.0123	mg/L		02/12/22 08:10	02/21/22 18:18	10
Potassium	50.4		5.00	1.07	mg/L		02/12/22 08:10	02/21/22 18:18	10
Sodium	2810		25.0	3.33	mg/L		02/12/22 08:10	02/22/22 10:58	50
Selenium	0.0439	U	0.300	0.0439	mg/L		02/12/22 08:10	02/21/22 18:18	10
Thallium	0.0621	U	0.200	0.0621	mg/L		02/12/22 08:10	02/21/22 18:18	10
Lithium	2.08		0.200	0.0448	mg/L		02/12/22 08:10	02/21/22 18:18	10
SiO2	73.1		10.7	0.781	mg/L		02/12/22 08:10	02/21/22 18:18	10

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0000263	U	0.000200	0.0000263	mg/L		02/14/22 12:45	02/14/22 15:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	81.8		4.00	4.00	mg/L			02/14/22 14:39	1
Bicarbonate Alkalinity as CaCO3	81.8		4.00	4.00	mg/L			02/14/22 14:39	1
Carbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			02/14/22 14:39	1
Hydroxide Alkalinity	4.00	U	4.00	4.00	mg/L			02/14/22 14:39	1
Total Dissolved Solids	9330		100	100	mg/L			02/15/22 10:08	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	2.97	*	0.554	0.618	1.00	0.596	pCi/L	02/28/22 13:58	03/03/22 12:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.3		40 - 110					02/28/22 13:58	03/03/22 12:54	1
Y Carrier	83.7		40 - 110					02/28/22 13:58	03/03/22 12:54	1

Client Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20580-1

Client Sample ID: PZ-02

Lab Sample ID: 860-20580-1

Date Collected: 02/08/22 09:45

Matrix: Water

Date Received: 02/09/22 09:03

Method: SM7500 Ra B - Radium-226

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra-226	0.550		0.190		1.00	0.100	pCi/L	02/18/22 11:21	03/09/22 12:07	1

Client Sample ID: PZ-03

Lab Sample ID: 860-20580-2

Date Collected: 02/08/22 10:40

Matrix: Water

Date Received: 02/09/22 09:03

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5410	E	5.00	2.00	mg/L			02/12/22 09:03	10
Fluoride	6.85	F1	5.00	1.00	mg/L			02/12/22 09:03	10
Sulfate	4300		5.00	1.09	mg/L			02/12/22 09:03	10

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00589	U F1	0.0200	0.00589	mg/L		02/12/22 08:10	02/21/22 18:58	1
Arsenic	0.0468		0.0100	0.00550	mg/L		02/12/22 08:10	02/21/22 18:58	1
Barium	0.00941	J F1	0.0100	0.00135	mg/L		02/12/22 08:10	02/21/22 18:58	1
Beryllium	0.199	F1	0.00400	0.000490	mg/L		02/12/22 08:10	02/21/22 18:58	1
Boron	7.95		0.0500	0.00343	mg/L		02/12/22 08:10	02/21/22 18:58	1
Cadmium	0.426		0.00500	0.00243	mg/L		02/12/22 08:10	02/21/22 18:58	1
Calcium	693		2.00	0.293	mg/L		02/12/22 08:10	02/21/22 19:09	10
Chromium	0.0118	F1 B	0.0100	0.000811	mg/L		02/12/22 08:10	02/21/22 18:58	1
Cobalt	1.13	F1	0.0100	0.000673	mg/L		02/12/22 08:10	02/21/22 18:58	1
Magnesium	227		2.00	0.500	mg/L		02/12/22 08:10	02/21/22 19:09	10
Lead	0.0109	F1	0.0100	0.00237	mg/L		02/12/22 08:10	02/21/22 18:58	1
Molybdenum	0.00687	J F1	0.0100	0.00123	mg/L		02/12/22 08:10	02/21/22 18:58	1
Potassium	24.5		0.500	0.107	mg/L		02/12/22 08:10	02/21/22 18:58	1
Sodium	3460		25.0	3.33	mg/L		02/12/22 08:10	02/22/22 11:12	50
Selenium	0.00439	U	0.0300	0.00439	mg/L		02/12/22 08:10	02/21/22 18:58	1
Thallium	0.00621	U F1	0.0200	0.00621	mg/L		02/12/22 08:10	02/21/22 18:58	1
Lithium	2.12		0.0200	0.00448	mg/L		02/12/22 08:10	02/21/22 18:58	1
SiO2	102		1.07	0.0781	mg/L		02/12/22 08:10	02/21/22 18:58	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0000263	U	0.000200	0.0000263	mg/L		02/14/22 12:45	02/14/22 15:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	4.00	U	4.00	4.00	mg/L			02/14/22 14:44	1
Bicarbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			02/14/22 14:44	1
Carbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			02/14/22 14:44	1
Hydroxide Alkalinity	4.00	U	4.00	4.00	mg/L			02/14/22 14:44	1
Total Dissolved Solids	12700		100	100	mg/L			02/15/22 10:08	1

Client Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20580-1

Client Sample ID: PZ-03

Lab Sample ID: 860-20580-2

Date Collected: 02/08/22 10:40

Matrix: Water

Date Received: 02/09/22 09:03

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	3.54	*	0.523	0.616	1.00	0.472	pCi/L	02/28/22 13:58	03/03/22 12:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.3		40 - 110					02/28/22 13:58	03/03/22 12:54	1
Y Carrier	84.5		40 - 110					02/28/22 13:58	03/03/22 12:54	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	0.740		0.200		1.00	0.0800	pCi/L	02/18/22 11:09	03/25/22 09:35	1

Client Sample ID: AP-31

Lab Sample ID: 860-20580-3

Date Collected: 02/08/22 09:50

Matrix: Water

Date Received: 02/09/22 09:03

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2080		5.00	2.00	mg/L			02/12/22 09:49	10
Fluoride	1.00	U	5.00	1.00	mg/L			02/12/22 09:49	10
Sulfate	3210		5.00	1.09	mg/L			02/12/22 09:49	10

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0589	U	0.200	0.0589	mg/L		02/12/22 08:10	02/21/22 18:22	10
Arsenic	0.0830	J	0.100	0.0550	mg/L		02/12/22 08:10	02/21/22 18:22	10
Barium	0.0135	U	0.100	0.0135	mg/L		02/12/22 08:10	02/21/22 18:22	10
Beryllium	0.0120	J	0.0400	0.00490	mg/L		02/12/22 08:10	02/21/22 18:22	10
Boron	52.6		0.500	0.0343	mg/L		02/12/22 08:10	02/21/22 18:22	10
Cadmium	0.0243	U	0.0500	0.0243	mg/L		02/12/22 08:10	02/21/22 18:22	10
Calcium	584	B	2.00	0.293	mg/L		02/12/22 08:10	02/21/22 18:22	10
Chromium	0.00811	U	0.100	0.00811	mg/L		02/12/22 08:10	02/21/22 18:22	10
Cobalt	0.251		0.100	0.00673	mg/L		02/12/22 08:10	02/21/22 18:22	10
Magnesium	61.9	B	2.00	0.500	mg/L		02/12/22 08:10	02/21/22 18:22	10
Lead	0.0237	U	0.100	0.0237	mg/L		02/12/22 08:10	02/21/22 18:22	10
Molybdenum	0.0123	U	0.100	0.0123	mg/L		02/12/22 08:10	02/21/22 18:22	10
Potassium	10.6		5.00	1.07	mg/L		02/12/22 08:10	02/21/22 18:22	10
Sodium	1760		5.00	0.667	mg/L		02/12/22 08:10	02/21/22 18:22	10
Selenium	0.0439	U	0.300	0.0439	mg/L		02/12/22 08:10	02/21/22 18:22	10
Thallium	0.0621	U	0.200	0.0621	mg/L		02/12/22 08:10	02/21/22 18:22	10
Lithium	0.790		0.200	0.0448	mg/L		02/12/22 08:10	02/21/22 18:22	10
SiO2	95.0		10.7	0.781	mg/L		02/12/22 08:10	02/21/22 18:22	10

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000234		0.000200	0.0000263	mg/L		02/14/22 12:45	02/14/22 16:00	1

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Client Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20580-1

Client Sample ID: AP-31
 Date Collected: 02/08/22 09:50
 Date Received: 02/09/22 09:03

Lab Sample ID: 860-20580-3
 Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	4.00	U	4.00	4.00	mg/L			02/14/22 15:06	1
Bicarbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			02/14/22 15:06	1
Carbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			02/14/22 15:06	1
Hydroxide Alkalinity	4.00	U	4.00	4.00	mg/L			02/14/22 15:06	1
Total Dissolved Solids	10600		100	100	mg/L			02/15/22 10:08	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.29	*	0.336	0.356	1.00	0.412	pCi/L	02/28/22 13:58	03/03/22 12:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.8		40 - 110					02/28/22 13:58	03/03/22 12:56	1
Y Carrier	83.4		40 - 110					02/28/22 13:58	03/03/22 12:56	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	0.560		0.220		1.00	0.130	pCi/L	02/18/22 11:09	03/25/22 09:35	1

Client Sample ID: AP-32
 Date Collected: 02/08/22 11:45
 Date Received: 02/09/22 09:03

Lab Sample ID: 860-20580-4
 Matrix: Water

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2920		5.00	2.00	mg/L			02/12/22 10:01	10
Fluoride	1.38	J	5.00	1.00	mg/L			02/12/22 10:01	10
Sulfate	3520		5.00	1.09	mg/L			02/12/22 10:01	10

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0589	U	0.200	0.0589	mg/L		02/12/22 08:10	02/21/22 18:25	10
Arsenic	0.145		0.100	0.0550	mg/L		02/12/22 08:10	02/21/22 18:25	10
Barium	0.0135	U	0.100	0.0135	mg/L		02/12/22 08:10	02/21/22 18:25	10
Beryllium	0.0560		0.0400	0.00490	mg/L		02/12/22 08:10	02/21/22 18:25	10
Boron	22.1		0.500	0.0343	mg/L		02/12/22 08:10	02/21/22 18:25	10
Cadmium	0.0809		0.0500	0.0243	mg/L		02/12/22 08:10	02/21/22 18:25	10
Calcium	644	B	2.00	0.293	mg/L		02/12/22 08:10	02/21/22 18:25	10
Chromium	0.00811	U	0.100	0.00811	mg/L		02/12/22 08:10	02/21/22 18:25	10
Cobalt	0.591		0.100	0.00673	mg/L		02/12/22 08:10	02/21/22 18:25	10
Magnesium	86.1	B	2.00	0.500	mg/L		02/12/22 08:10	02/21/22 18:25	10
Lead	0.0237	U	0.100	0.0237	mg/L		02/12/22 08:10	02/21/22 18:25	10
Molybdenum	0.0123	U	0.100	0.0123	mg/L		02/12/22 08:10	02/21/22 18:25	10
Potassium	37.5		5.00	1.07	mg/L		02/12/22 08:10	02/21/22 18:25	10
Sodium	2400		25.0	3.33	mg/L		02/12/22 08:10	02/22/22 11:20	50
Selenium	0.0439	U	0.300	0.0439	mg/L		02/12/22 08:10	02/21/22 18:25	10
Thallium	0.0621	U	0.200	0.0621	mg/L		02/12/22 08:10	02/21/22 18:25	10
Lithium	1.62		0.200	0.0448	mg/L		02/12/22 08:10	02/21/22 18:25	10

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Client Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20580-1

Client Sample ID: AP-32
 Date Collected: 02/08/22 11:45
 Date Received: 02/09/22 09:03

Lab Sample ID: 860-20580-4
 Matrix: Water

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
SiO2	127		10.7	0.781	mg/L		02/12/22 08:10	02/21/22 18:25	10

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00233		0.000200	0.0000263	mg/L		02/14/22 12:45	02/14/22 16:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	4.00	U	4.00	4.00	mg/L			02/14/22 15:11	1
Bicarbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			02/14/22 15:11	1
Carbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			02/14/22 15:11	1
Hydroxide Alkalinity	4.00	U	4.00	4.00	mg/L			02/14/22 15:11	1
Total Dissolved Solids	7330		100	100	mg/L			02/15/22 10:08	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	10.2	*	0.742	1.20	1.00	0.389	pCi/L	02/28/22 13:58	03/03/22 12:56	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>	91.3		40 - 110					02/28/22 13:58	03/03/22 12:56	1
<i>Y Carrier</i>	83.4		40 - 110					02/28/22 13:58	03/03/22 12:56	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	0.800		0.220		1.00	0.100	pCi/L	02/18/22 11:09	03/25/22 09:35	1

Client Sample ID: AP-33
 Date Collected: 02/08/22 12:35
 Date Received: 02/09/22 09:03

Lab Sample ID: 860-20580-5
 Matrix: Water

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	13.6		5.00	1.00	mg/L			02/12/22 10:24	10

Method: 300.0 - Anions, Ion Chromatography - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8200		50.0	20.0	mg/L			02/12/22 10:36	100
Sulfate	7010		50.0	10.9	mg/L			02/12/22 10:36	100

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0589	U	0.200	0.0589	mg/L		02/12/22 08:10	02/21/22 18:29	10
Arsenic	0.0550	U	0.100	0.0550	mg/L		02/12/22 08:10	02/21/22 18:29	10
Barium	0.0135	U	0.100	0.0135	mg/L		02/12/22 08:10	02/21/22 18:29	10
Beryllium	0.250		0.0400	0.00490	mg/L		02/12/22 08:10	02/21/22 18:29	10
Boron	56.2		0.500	0.0343	mg/L		02/12/22 08:10	02/21/22 18:29	10
Cadmium	0.109		0.0500	0.0243	mg/L		02/12/22 08:10	02/21/22 18:29	10
Calcium	688	B	2.00	0.293	mg/L		02/12/22 08:10	02/21/22 18:29	10

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Client Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20580-1

Client Sample ID: AP-33
 Date Collected: 02/08/22 12:35
 Date Received: 02/09/22 09:03

Lab Sample ID: 860-20580-5
 Matrix: Water

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	0.00811	U	0.100	0.00811	mg/L		02/12/22 08:10	02/21/22 18:29	10
Cobalt	1.32		0.100	0.00673	mg/L		02/12/22 08:10	02/21/22 18:29	10
Magnesium	174	B	2.00	0.500	mg/L		02/12/22 08:10	02/21/22 18:29	10
Lead	0.0237	U	0.100	0.0237	mg/L		02/12/22 08:10	02/21/22 18:29	10
Molybdenum	0.0123	U	0.100	0.0123	mg/L		02/12/22 08:10	02/21/22 18:29	10
Potassium	25.4		5.00	1.07	mg/L		02/12/22 08:10	02/21/22 18:29	10
Sodium	2830		25.0	3.33	mg/L		02/12/22 08:10	02/22/22 11:02	50
Selenium	0.0439	U	0.300	0.0439	mg/L		02/12/22 08:10	02/21/22 18:29	10
Thallium	0.0621	U	0.200	0.0621	mg/L		02/12/22 08:10	02/21/22 18:29	10
Lithium	1.19		0.200	0.0448	mg/L		02/12/22 08:10	02/21/22 18:29	10
SiO2	122		10.7	0.781	mg/L		02/12/22 08:10	02/21/22 18:29	10

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00531		0.000200	0.0000263	mg/L		02/14/22 12:45	02/14/22 16:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	4.00	U	4.00	4.00	mg/L			02/14/22 15:17	1
Bicarbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			02/14/22 15:17	1
Carbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			02/14/22 15:17	1
Hydroxide Alkalinity	4.00	U	4.00	4.00	mg/L			02/14/22 15:17	1
Total Dissolved Solids	8490		100	100	mg/L			02/15/22 10:08	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	7.83	*	0.660	0.977	1.00	0.468	pCi/L	02/28/22 13:58	03/03/22 12:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.8		40 - 110					02/28/22 13:58	03/03/22 12:56	1
Y Carrier	81.9		40 - 110					02/28/22 13:58	03/03/22 12:56	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	1.20		0.280		1.00	0.120	pCi/L	02/18/22 11:09	03/25/22 09:35	1

Client Sample ID: AP-34
 Date Collected: 02/08/22 14:25
 Date Received: 02/09/22 09:03

Lab Sample ID: 860-20580-6
 Matrix: Water

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2930		5.00	2.00	mg/L			02/12/22 11:11	10
Fluoride	8.70		5.00	1.00	mg/L			02/12/22 11:11	10
Sulfate	3520		5.00	1.09	mg/L			02/12/22 11:11	10

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Client Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20580-1

Client Sample ID: AP-34
 Date Collected: 02/08/22 14:25
 Date Received: 02/09/22 09:03

Lab Sample ID: 860-20580-6
 Matrix: Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.102	J	0.200	0.0589	mg/L		02/12/22 08:10	02/21/22 18:33	10
Arsenic	0.0550	U	0.100	0.0550	mg/L		02/12/22 08:10	02/21/22 18:33	10
Barium	0.0135	U	0.100	0.0135	mg/L		02/12/22 08:10	02/21/22 18:33	10
Beryllium	0.271		0.0400	0.00490	mg/L		02/12/22 08:10	02/21/22 18:33	10
Boron	22.3		0.500	0.0343	mg/L		02/12/22 08:10	02/21/22 18:33	10
Cadmium	0.0243	U	0.0500	0.0243	mg/L		02/12/22 08:10	02/21/22 18:33	10
Calcium	647	B	2.00	0.293	mg/L		02/12/22 08:10	02/21/22 18:33	10
Chromium	0.00811	U	0.100	0.00811	mg/L		02/12/22 08:10	02/21/22 18:33	10
Cobalt	1.15		0.100	0.00673	mg/L		02/12/22 08:10	02/21/22 18:33	10
Magnesium	134	B	2.00	0.500	mg/L		02/12/22 08:10	02/21/22 18:33	10
Lead	0.0237	U	0.100	0.0237	mg/L		02/12/22 08:10	02/21/22 18:33	10
Molybdenum	0.0123	U	0.100	0.0123	mg/L		02/12/22 08:10	02/21/22 18:33	10
Potassium	14.7		5.00	1.07	mg/L		02/12/22 08:10	02/21/22 18:33	10
Sodium	1620		5.00	0.667	mg/L		02/12/22 08:10	02/21/22 18:33	10
Selenium	0.0439	U	0.300	0.0439	mg/L		02/12/22 08:10	02/21/22 18:33	10
Thallium	0.0621	U	0.200	0.0621	mg/L		02/12/22 08:10	02/21/22 18:33	10
Lithium	1.36		0.200	0.0448	mg/L		02/12/22 08:10	02/21/22 18:33	10
SiO2	124		10.7	0.781	mg/L		02/12/22 08:10	02/21/22 18:33	10

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00319		0.000200	0.0000263	mg/L		02/14/22 12:45	02/14/22 16:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	4.00	U	4.00	4.00	mg/L			02/14/22 15:22	1
Bicarbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			02/14/22 15:22	1
Carbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			02/14/22 15:22	1
Hydroxide Alkalinity	4.00	U	4.00	4.00	mg/L			02/14/22 15:22	1
Total Dissolved Solids	10200		100	100	mg/L			02/15/22 10:08	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	3.88	*	0.604	0.701	1.00	0.587	pCi/L	02/28/22 13:58	03/03/22 12:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.5		40 - 110					02/28/22 13:58	03/03/22 12:56	1
Y Carrier	84.5		40 - 110					02/28/22 13:58	03/03/22 12:56	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	0.760		0.230		1.00	0.110	pCi/L	02/18/22 11:09	03/25/22 09:35	1

Client Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20580-1

Client Sample ID: AP-35
 Date Collected: 02/08/22 14:40
 Date Received: 02/09/22 09:03

Lab Sample ID: 860-20580-7
 Matrix: Water

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2400		5.00	2.00	mg/L			02/12/22 11:35	10
Fluoride	13.3		5.00	1.00	mg/L			02/12/22 11:35	10
Sulfate	3630		5.00	1.09	mg/L			02/12/22 11:35	10

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0589	U	0.200	0.0589	mg/L		02/12/22 08:10	02/21/22 18:36	10
Arsenic	0.124		0.100	0.0550	mg/L		02/12/22 08:10	02/21/22 18:36	10
Barium	0.0135	U	0.100	0.0135	mg/L		02/12/22 08:10	02/21/22 18:36	10
Beryllium	0.317		0.0400	0.00490	mg/L		02/12/22 08:10	02/21/22 18:36	10
Boron	5.65		0.500	0.0343	mg/L		02/12/22 08:10	02/21/22 18:36	10
Cadmium	0.0243	U	0.0500	0.0243	mg/L		02/12/22 08:10	02/21/22 18:36	10
Calcium	573	B	2.00	0.293	mg/L		02/12/22 08:10	02/21/22 18:36	10
Chromium	0.0101	J	0.100	0.00811	mg/L		02/12/22 08:10	02/21/22 18:36	10
Cobalt	0.0681	J	0.100	0.00673	mg/L		02/12/22 08:10	02/21/22 18:36	10
Magnesium	155	B	2.00	0.500	mg/L		02/12/22 08:10	02/21/22 18:36	10
Lead	0.0237	U	0.100	0.0237	mg/L		02/12/22 08:10	02/21/22 18:36	10
Molybdenum	0.0123	U	0.100	0.0123	mg/L		02/12/22 08:10	02/21/22 18:36	10
Potassium	51.1		5.00	1.07	mg/L		02/12/22 08:10	02/21/22 18:36	10
Sodium	1600		5.00	0.667	mg/L		02/12/22 08:10	02/21/22 18:36	10
Selenium	0.0439	U	0.300	0.0439	mg/L		02/12/22 08:10	02/21/22 18:36	10
Thallium	0.0621	U	0.200	0.0621	mg/L		02/12/22 08:10	02/21/22 18:36	10
Lithium	1.61		0.200	0.0448	mg/L		02/12/22 08:10	02/21/22 18:36	10
SiO2	112		10.7	0.781	mg/L		02/12/22 08:10	02/21/22 18:36	10

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000530		0.000200	0.0000263	mg/L		02/14/22 12:45	02/14/22 16:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	4.00	U	4.00	4.00	mg/L			02/14/22 15:27	1
Bicarbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			02/14/22 15:27	1
Carbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			02/14/22 15:27	1
Hydroxide Alkalinity	4.00	U	4.00	4.00	mg/L			02/14/22 15:27	1
Total Dissolved Solids	7540		100	100	mg/L			02/15/22 10:08	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	24.7	*	1.09	2.52	1.00	0.376	pCi/L	02/28/22 13:58	03/03/22 12:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.5		40 - 110					02/28/22 13:58	03/03/22 12:56	1
Y Carrier	84.9		40 - 110					02/28/22 13:58	03/03/22 12:56	1

Client Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20580-1

Client Sample ID: AP-35
 Date Collected: 02/08/22 14:40
 Date Received: 02/09/22 09:03

Lab Sample ID: 860-20580-7
 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	6.68		0.720		1.00	0.150	pCi/L	02/18/22 11:09	03/25/22 09:35	1

Client Sample ID: AP-36
 Date Collected: 02/08/22 14:50
 Date Received: 02/09/22 09:03

Lab Sample ID: 860-20580-8
 Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.747		0.500	0.100	mg/L			02/12/22 17:50	1

Method: 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			02/12/22 18:02	10
Sulfate	2890	B	5.00	1.09	mg/L			02/12/22 18:02	10

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0589	U	0.200	0.0589	mg/L		02/12/22 08:10	02/21/22 19:34	10
Arsenic	0.0550	U	0.100	0.0550	mg/L		02/12/22 08:10	02/21/22 19:34	10
Barium	0.0135	U	0.100	0.0135	mg/L		02/12/22 08:10	02/21/22 19:34	10
Beryllium	0.0102	J	0.0400	0.00490	mg/L		02/12/22 08:10	02/21/22 19:34	10
Boron	2.21		0.500	0.0343	mg/L		02/12/22 08:10	02/21/22 19:34	10
Cadmium	0.0243	U	0.0500	0.0243	mg/L		02/12/22 08:10	02/21/22 19:34	10
Calcium	591		2.00	0.293	mg/L		02/12/22 08:10	02/21/22 19:34	10
Chromium	0.00811	U	0.100	0.00811	mg/L		02/12/22 08:10	02/21/22 19:34	10
Cobalt	0.0536	J	0.100	0.00673	mg/L		02/12/22 08:10	02/21/22 19:34	10
Magnesium	94.3		2.00	0.500	mg/L		02/12/22 08:10	02/21/22 19:34	10
Lead	0.0237	U	0.100	0.0237	mg/L		02/12/22 08:10	02/21/22 19:34	10
Molybdenum	0.0123	U	0.100	0.0123	mg/L		02/12/22 08:10	02/21/22 19:34	10
Potassium	35.5		5.00	1.07	mg/L		02/12/22 08:10	02/21/22 19:34	10
Sodium	1260		5.00	0.667	mg/L		02/12/22 08:10	02/21/22 19:34	10
Selenium	0.0439	U	0.300	0.0439	mg/L		02/12/22 08:10	02/21/22 19:34	10
Thallium	0.0621	U	0.200	0.0621	mg/L		02/12/22 08:10	02/21/22 19:34	10
Lithium	1.04		0.200	0.0448	mg/L		02/12/22 08:10	02/21/22 19:34	10
SiO2	92.7		10.7	0.781	mg/L		02/12/22 08:10	02/21/22 19:34	10

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0000263	U	0.000200	0.0000263	mg/L		02/14/22 12:45	02/14/22 16:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	4.00	U	4.00	4.00	mg/L			02/15/22 14:15	1
Bicarbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			02/15/22 14:15	1
Carbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			02/15/22 14:15	1
Hydroxide Alkalinity	4.00	U	4.00	4.00	mg/L			02/15/22 14:15	1
Total Dissolved Solids	8290		100	100	mg/L			02/15/22 10:08	1

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Client Sample Results

Client: GSI Environmental, Inc
Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20580-1

Client Sample ID: AP-36

Date Collected: 02/08/22 14:50

Date Received: 02/09/22 09:03

Lab Sample ID: 860-20580-8

Matrix: Water

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	3.66	*	0.460	0.570	1.00	0.362	pCi/L	02/28/22 13:58	03/03/22 12:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.5		40 - 110					02/28/22 13:58	03/03/22 12:56	1
Y Carrier	84.9		40 - 110					02/28/22 13:58	03/03/22 12:56	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	0.620		0.210		1.00	0.120	pCi/L	02/18/22 11:09	03/25/22 09:35	1

Client Sample ID: MW-03

Date Collected: 02/08/22 10:40

Date Received: 02/09/22 09:03

Lab Sample ID: 860-20580-9

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1950		5.00	2.00	mg/L			02/12/22 18:14	10
Fluoride	1.00	U	5.00	1.00	mg/L			02/12/22 18:14	10
Sulfate	4190	B	5.00	1.09	mg/L			02/12/22 18:14	10

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0589	U	0.200	0.0589	mg/L		02/12/22 08:10	02/21/22 19:38	10
Arsenic	0.0550	U	0.100	0.0550	mg/L		02/12/22 08:10	02/21/22 19:38	10
Barium	0.0135	U	0.100	0.0135	mg/L		02/12/22 08:10	02/21/22 19:38	10
Beryllium	0.0208	J	0.0400	0.00490	mg/L		02/12/22 08:10	02/21/22 19:38	10
Boron	10.9		0.500	0.0343	mg/L		02/12/22 08:10	02/21/22 19:38	10
Cadmium	0.0458	J	0.0500	0.0243	mg/L		02/12/22 08:10	02/21/22 19:38	10
Calcium	508		2.00	0.293	mg/L		02/12/22 08:10	02/21/22 19:38	10
Chromium	0.00811	U	0.100	0.00811	mg/L		02/12/22 08:10	02/21/22 19:38	10
Cobalt	0.290		0.100	0.00673	mg/L		02/12/22 08:10	02/21/22 19:38	10
Magnesium	93.1		2.00	0.500	mg/L		02/12/22 08:10	02/21/22 19:38	10
Lead	0.0237	U	0.100	0.0237	mg/L		02/12/22 08:10	02/21/22 19:38	10
Molybdenum	0.0123	U	0.100	0.0123	mg/L		02/12/22 08:10	02/21/22 19:38	10
Potassium	34.1		5.00	1.07	mg/L		02/12/22 08:10	02/21/22 19:38	10
Sodium	2400		25.0	3.33	mg/L		02/12/22 08:10	02/22/22 11:23	50
Selenium	0.0439	U	0.300	0.0439	mg/L		02/12/22 08:10	02/21/22 19:38	10
Thallium	0.0621	U	0.200	0.0621	mg/L		02/12/22 08:10	02/21/22 19:38	10
Lithium	1.76		0.200	0.0448	mg/L		02/12/22 08:10	02/21/22 19:38	10
SiO2	116		10.7	0.781	mg/L		02/12/22 08:10	02/21/22 19:38	10

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0000340	J	0.000200	0.0000263	mg/L		02/14/22 12:45	02/14/22 16:08	1

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Client Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20580-1

Client Sample ID: MW-03
 Date Collected: 02/08/22 10:40
 Date Received: 02/09/22 09:03

Lab Sample ID: 860-20580-9
 Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	4.00	U	4.00	4.00	mg/L			02/15/22 14:21	1
Bicarbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			02/15/22 14:21	1
Carbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			02/15/22 14:21	1
Hydroxide Alkalinity	4.00	U	4.00	4.00	mg/L			02/15/22 14:21	1
Total Dissolved Solids	10500		100	100	mg/L			02/15/22 11:10	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	5.53	*	0.641	0.818	1.00	0.586	pCi/L	02/28/22 13:58	03/03/22 12:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.3		40 - 110					02/28/22 13:58	03/03/22 12:56	1
Y Carrier	86.7		40 - 110					02/28/22 13:58	03/03/22 12:56	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	0.770		0.250		1.00	0.130	pCi/L	02/18/22 11:09	03/25/22 09:35	1

Client Sample ID: PZ-05

Date Collected: 02/08/22 13:30
 Date Received: 02/09/22 09:03

Lab Sample ID: 860-20580-10
 Matrix: Water

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2510		5.00	2.00	mg/L			02/12/22 18:37	10
Fluoride	4.62	J	5.00	1.00	mg/L			02/12/22 18:37	10
Sulfate	3230	B	5.00	1.09	mg/L			02/12/22 18:37	10

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0589	U	0.200	0.0589	mg/L		02/12/22 08:10	02/21/22 19:41	10
Arsenic	0.0550	U	0.100	0.0550	mg/L		02/12/22 08:10	02/21/22 19:41	10
Barium	0.0135	U	0.100	0.0135	mg/L		02/12/22 08:10	02/21/22 19:41	10
Beryllium	0.184		0.0400	0.00490	mg/L		02/12/22 08:10	02/21/22 19:41	10
Boron	24.2		0.500	0.0343	mg/L		02/12/22 08:10	02/21/22 19:41	10
Cadmium	0.0716		0.0500	0.0243	mg/L		02/12/22 08:10	02/21/22 19:41	10
Calcium	601		2.00	0.293	mg/L		02/12/22 08:10	02/21/22 19:41	10
Chromium	0.0113	J B	0.100	0.00811	mg/L		02/12/22 08:10	02/21/22 19:41	10
Cobalt	0.882		0.100	0.00673	mg/L		02/12/22 08:10	02/21/22 19:41	10
Magnesium	107		2.00	0.500	mg/L		02/12/22 08:10	02/21/22 19:41	10
Lead	0.0237	U	0.100	0.0237	mg/L		02/12/22 08:10	02/21/22 19:41	10
Molybdenum	0.0123	U	0.100	0.0123	mg/L		02/12/22 08:10	02/21/22 19:41	10
Potassium	19.8		5.00	1.07	mg/L		02/12/22 08:10	02/21/22 19:41	10
Sodium	1580		5.00	0.667	mg/L		02/12/22 08:10	02/21/22 19:41	10
Selenium	0.125	J	0.300	0.0439	mg/L		02/12/22 08:10	02/21/22 19:41	10
Thallium	0.0621	U	0.200	0.0621	mg/L		02/12/22 08:10	02/21/22 19:41	10
Lithium	1.01		0.200	0.0448	mg/L		02/12/22 08:10	02/21/22 19:41	10

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Client Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20580-1

Client Sample ID: PZ-05
 Date Collected: 02/08/22 13:30
 Date Received: 02/09/22 09:03

Lab Sample ID: 860-20580-10
 Matrix: Water

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
SiO2	114		10.7	0.781	mg/L		02/12/22 08:10	02/21/22 19:41	10

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000472		0.000200	0.0000263	mg/L		02/14/22 12:45	02/14/22 16:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	4.00	U	4.00	4.00	mg/L			02/14/22 15:53	1
Bicarbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			02/14/22 15:53	1
Carbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			02/14/22 15:53	1
Hydroxide Alkalinity	4.00	U	4.00	4.00	mg/L			02/14/22 15:53	1
Total Dissolved Solids	8200		100	100	mg/L			02/15/22 11:10	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	2.71	*	0.427	0.494	1.00	0.434	pCi/L	02/28/22 13:58	03/03/22 12:47	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>	89.8		40 - 110					02/28/22 13:58	03/03/22 12:47	1
<i>Y Carrier</i>	86.7		40 - 110					02/28/22 13:58	03/03/22 12:47	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		0.230		1.00	0.120	pCi/L	02/18/22 11:09	03/25/22 09:35	1

Client Sample ID: PZ-06
 Date Collected: 02/08/22 13:30
 Date Received: 02/09/22 09:03

Lab Sample ID: 860-20580-11
 Matrix: Water

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1960		5.00	2.00	mg/L			02/12/22 19:00	10
Fluoride	1.00	U	5.00	1.00	mg/L			02/12/22 19:00	10
Sulfate	3130	B	5.00	1.09	mg/L			02/12/22 19:00	10

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0589	U	0.200	0.0589	mg/L		02/12/22 08:10	02/21/22 19:45	10
Arsenic	0.0570	J	0.100	0.0550	mg/L		02/12/22 08:10	02/21/22 19:45	10
Barium	0.0135	U	0.100	0.0135	mg/L		02/12/22 08:10	02/21/22 19:45	10
Beryllium	0.00490	U	0.0400	0.00490	mg/L		02/12/22 08:10	02/21/22 19:45	10
Boron	2.67		0.500	0.0343	mg/L		02/12/22 08:10	02/21/22 19:45	10
Cadmium	0.0243	U	0.0500	0.0243	mg/L		02/12/22 08:10	02/21/22 19:45	10
Calcium	638		2.00	0.293	mg/L		02/12/22 08:10	02/21/22 19:45	10
Chromium	0.00811	U	0.100	0.00811	mg/L		02/12/22 08:10	02/21/22 19:45	10
Cobalt	0.00673	U	0.100	0.00673	mg/L		02/12/22 08:10	02/21/22 19:45	10

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Client Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20580-1

Client Sample ID: PZ-06
 Date Collected: 02/08/22 13:30
 Date Received: 02/09/22 09:03

Lab Sample ID: 860-20580-11
 Matrix: Water

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	94.9		2.00	0.500	mg/L		02/12/22 08:10	02/21/22 19:45	10
Lead	0.0237	U	0.100	0.0237	mg/L		02/12/22 08:10	02/21/22 19:45	10
Molybdenum	0.0123	U	0.100	0.0123	mg/L		02/12/22 08:10	02/21/22 19:45	10
Potassium	40.5		5.00	1.07	mg/L		02/12/22 08:10	02/21/22 19:45	10
Sodium	1450		5.00	0.667	mg/L		02/12/22 08:10	02/21/22 19:45	10
Selenium	0.0439	U	0.300	0.0439	mg/L		02/12/22 08:10	02/21/22 19:45	10
Thallium	0.0621	U	0.200	0.0621	mg/L		02/12/22 08:10	02/21/22 19:45	10
Lithium	0.953		0.200	0.0448	mg/L		02/12/22 08:10	02/21/22 19:45	10
SiO2	79.8		10.7	0.781	mg/L		02/12/22 08:10	02/21/22 19:45	10

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0000263	U	0.000200	0.0000263	mg/L		02/14/22 12:45	02/14/22 16:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	90.2		4.00	4.00	mg/L			02/14/22 16:00	1
Bicarbonate Alkalinity as CaCO3	90.2		4.00	4.00	mg/L			02/14/22 16:00	1
Carbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			02/14/22 16:00	1
Hydroxide Alkalinity	4.00	U	4.00	4.00	mg/L			02/14/22 16:00	1
Total Dissolved Solids	8800		100	100	mg/L			02/15/22 11:10	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	2.10	*	0.374	0.421	1.00	0.398	pCi/L	02/28/22 13:58	03/03/22 12:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.8		40 - 110					02/28/22 13:58	03/03/22 12:47	1
Y Carrier	86.4		40 - 110					02/28/22 13:58	03/03/22 12:47	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		0.180		1.00	0.100	pCi/L	02/18/22 11:16	03/02/22 11:04	1

Client Sample ID: DUP-02
 Date Collected: 02/08/22 13:00
 Date Received: 02/09/22 09:03

Lab Sample ID: 860-20580-12
 Matrix: Water

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1990		5.00	2.00	mg/L			02/12/22 19:35	10
Fluoride	1.13	J	5.00	1.00	mg/L			02/12/22 19:35	10
Sulfate	4390	B	5.00	1.09	mg/L			02/12/22 19:35	10

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0589	U	0.200	0.0589	mg/L		02/12/22 08:10	02/21/22 19:48	10

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Client Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20580-1

Client Sample ID: DUP-02

Lab Sample ID: 860-20580-12

Date Collected: 02/08/22 13:00

Matrix: Water

Date Received: 02/09/22 09:03

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0550	U	0.100	0.0550	mg/L		02/12/22 08:10	02/21/22 19:48	10
Barium	0.0135	U	0.100	0.0135	mg/L		02/12/22 08:10	02/21/22 19:48	10
Beryllium	0.0240	J	0.0400	0.00490	mg/L		02/12/22 08:10	02/21/22 19:48	10
Boron	12.3		0.500	0.0343	mg/L		02/12/22 08:10	02/21/22 19:48	10
Cadmium	0.0519		0.0500	0.0243	mg/L		02/12/22 08:10	02/21/22 19:48	10
Calcium	497		2.00	0.293	mg/L		02/12/22 08:10	02/21/22 19:48	10
Chromium	0.0412	J B	0.100	0.00811	mg/L		02/12/22 08:10	02/21/22 19:48	10
Cobalt	0.332		0.100	0.00673	mg/L		02/12/22 08:10	02/21/22 19:48	10
Magnesium	90.4		2.00	0.500	mg/L		02/12/22 08:10	02/21/22 19:48	10
Lead	0.0237	U	0.100	0.0237	mg/L		02/12/22 08:10	02/21/22 19:48	10
Molybdenum	0.0123	U	0.100	0.0123	mg/L		02/12/22 08:10	02/21/22 19:48	10
Potassium	32.9		5.00	1.07	mg/L		02/12/22 08:10	02/21/22 19:48	10
Sodium	1980		5.00	0.667	mg/L		02/12/22 08:10	02/21/22 19:48	10
Selenium	0.0439	U	0.300	0.0439	mg/L		02/12/22 08:10	02/21/22 19:48	10
Thallium	0.0621	U	0.200	0.0621	mg/L		02/12/22 08:10	02/21/22 19:48	10
Lithium	1.74		0.200	0.0448	mg/L		02/12/22 08:10	02/21/22 19:48	10
SiO2	115		10.7	0.781	mg/L		02/12/22 08:10	02/21/22 19:48	10

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0000350	J	0.000200	0.0000263	mg/L		02/14/22 12:45	02/14/22 16:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	4.00	U	4.00	4.00	mg/L			02/14/22 16:21	1
Bicarbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			02/14/22 16:21	1
Carbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			02/14/22 16:21	1
Hydroxide Alkalinity	4.00	U	4.00	4.00	mg/L			02/14/22 16:21	1
Total Dissolved Solids	10200		100	100	mg/L			02/15/22 11:10	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	4.22	*	0.473	0.612	1.00	0.373	pCi/L	02/28/22 13:58	03/03/22 12:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.0		40 - 110					02/28/22 13:58	03/03/22 12:47	1
Y Carrier	86.4		40 - 110					02/28/22 13:58	03/03/22 12:47	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	1.19		0.250		1.00	0.0700	pCi/L	02/18/22 11:16	03/02/22 11:04	1

Client Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20580-1

Client Sample ID: FB-02

Lab Sample ID: 860-20580-13

Date Collected: 02/08/22 13:35

Matrix: Water

Date Received: 02/09/22 09:03

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.349	J	0.500	0.200	mg/L			02/12/22 19:47	1
Fluoride	0.175	J	0.500	0.100	mg/L			02/12/22 19:47	1
Sulfate	0.589	B	0.500	0.109	mg/L			02/12/22 19:47	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.183	J	0.200	0.0589	mg/L		02/12/22 08:10	02/21/22 19:52	10
Arsenic	0.0550	U	0.100	0.0550	mg/L		02/12/22 08:10	02/21/22 19:52	10
Barium	0.0135	U	0.100	0.0135	mg/L		02/12/22 08:10	02/21/22 19:52	10
Beryllium	0.00490	U	0.0400	0.00490	mg/L		02/12/22 08:10	02/21/22 19:52	10
Boron	0.0343	U	0.500	0.0343	mg/L		02/12/22 08:10	02/21/22 19:52	10
Cadmium	0.0243	U	0.0500	0.0243	mg/L		02/12/22 08:10	02/21/22 19:52	10
Calcium	0.293	U	2.00	0.293	mg/L		02/12/22 08:10	02/21/22 19:52	10
Chromium	0.00811	U	0.100	0.00811	mg/L		02/12/22 08:10	02/21/22 19:52	10
Cobalt	0.00673	U	0.100	0.00673	mg/L		02/12/22 08:10	02/21/22 19:52	10
Magnesium	0.500	U	2.00	0.500	mg/L		02/12/22 08:10	02/21/22 19:52	10
Lead	0.0237	U	0.100	0.0237	mg/L		02/12/22 08:10	02/21/22 19:52	10
Molybdenum	0.0123	U	0.100	0.0123	mg/L		02/12/22 08:10	02/21/22 19:52	10
Potassium	1.07	U	5.00	1.07	mg/L		02/12/22 08:10	02/21/22 19:52	10
Sodium	0.667	U	5.00	0.667	mg/L		02/12/22 08:10	02/21/22 19:52	10
Selenium	0.0439	U	0.300	0.0439	mg/L		02/12/22 08:10	02/21/22 19:52	10
Thallium	0.0621	U	0.200	0.0621	mg/L		02/12/22 08:10	02/21/22 19:52	10
Lithium	0.111	J	0.200	0.0448	mg/L		02/12/22 08:10	02/21/22 19:52	10
SiO2	0.781	U	10.7	0.781	mg/L		02/12/22 08:10	02/21/22 19:52	10

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0000263	U	0.000200	0.0000263	mg/L		02/14/22 12:45	02/14/22 16:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	172		5.00	5.00	mg/L			02/15/22 11:10	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.225	U *	0.241	0.242	1.00	0.394	pCi/L	02/28/22 13:58	03/03/22 12:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.0		40 - 110					02/28/22 13:58	03/03/22 12:47	1
Y Carrier	84.1		40 - 110					02/28/22 13:58	03/03/22 12:47	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	0.130	U	0.170		1.00	0.190	pCi/L	02/18/22 11:16	03/02/22 11:04	1

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Client Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20580-1

Client Sample ID: EB-01

Lab Sample ID: 860-20580-14

Date Collected: 02/08/22 13:50

Matrix: Water

Date Received: 02/09/22 09:03

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.200	U	0.500	0.200	mg/L			02/12/22 19:59	1
Fluoride	0.100	U	0.500	0.100	mg/L			02/12/22 19:59	1
Sulfate	0.248	J B	0.500	0.109	mg/L			02/12/22 19:59	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.136	J	0.200	0.0589	mg/L		02/12/22 08:10	02/21/22 19:56	10
Arsenic	0.0550	U	0.100	0.0550	mg/L		02/12/22 08:10	02/21/22 19:56	10
Barium	0.0135	U	0.100	0.0135	mg/L		02/12/22 08:10	02/21/22 19:56	10
Beryllium	0.00490	U	0.0400	0.00490	mg/L		02/12/22 08:10	02/21/22 19:56	10
Boron	0.0343	U	0.500	0.0343	mg/L		02/12/22 08:10	02/21/22 19:56	10
Cadmium	0.0243	U	0.0500	0.0243	mg/L		02/12/22 08:10	02/21/22 19:56	10
Calcium	0.293	U	2.00	0.293	mg/L		02/12/22 08:10	02/21/22 19:56	10
Chromium	0.00811	U	0.100	0.00811	mg/L		02/12/22 08:10	02/21/22 19:56	10
Cobalt	0.00673	U	0.100	0.00673	mg/L		02/12/22 08:10	02/21/22 19:56	10
Magnesium	0.500	U	2.00	0.500	mg/L		02/12/22 08:10	02/21/22 19:56	10
Lead	0.0237	U	0.100	0.0237	mg/L		02/12/22 08:10	02/21/22 19:56	10
Molybdenum	0.0123	U	0.100	0.0123	mg/L		02/12/22 08:10	02/21/22 19:56	10
Potassium	1.07	U	5.00	1.07	mg/L		02/12/22 08:10	02/21/22 19:56	10
Sodium	0.667	U	5.00	0.667	mg/L		02/12/22 08:10	02/21/22 19:56	10
Selenium	0.0439	U	0.300	0.0439	mg/L		02/12/22 08:10	02/21/22 19:56	10
Thallium	0.0621	U	0.200	0.0621	mg/L		02/12/22 08:10	02/21/22 19:56	10
Lithium	0.107	J	0.200	0.0448	mg/L		02/12/22 08:10	02/21/22 19:56	10
SiO2	0.781	U	10.7	0.781	mg/L		02/12/22 08:10	02/21/22 19:56	10

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0000263	U	0.000200	0.0000263	mg/L		02/14/22 12:45	02/14/22 16:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	15.0		5.00	5.00	mg/L			02/15/22 11:10	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0290	U *	0.237	0.237	1.00	0.431	pCi/L	02/28/22 13:58	03/03/22 12:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.3		40 - 110					02/28/22 13:58	03/03/22 12:47	1
Y Carrier	87.5		40 - 110					02/28/22 13:58	03/03/22 12:47	1

Method: SM7500 Ra B - Radium-226

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra-226	0.0400	U	0.0900		1.00	0.120	pCi/L	02/18/22 11:16	03/02/22 11:04	1

Eurofins Houston

Tracer/Carrier Summary

Client: GSI Environmental, Inc
Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20580-1

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

Percent Yield (Acceptance Limits)

Lab Sample ID	Client Sample ID	Ba	Y
		(40-110)	(40-110)
860-20580-1	PZ-02	89.3	83.7
860-20580-2	PZ-03	97.3	84.5
860-20580-2 MS	PZ-03	90.8	84.1
860-20580-2 MSD	PZ-03	90.8	83.0
860-20580-3	AP-31	93.8	83.4
860-20580-4	AP-32	91.3	83.4
860-20580-5	AP-33	97.8	81.9
860-20580-6	AP-34	87.5	84.5
860-20580-7	AP-35	94.5	84.9
860-20580-8	AP-36	91.5	84.9
860-20580-9	MW-03	77.3	86.7
860-20580-10	PZ-05	89.8	86.7
860-20580-11	PZ-06	94.8	86.4
860-20580-12	DUP-02	96.0	86.4
860-20580-13	FB-02	89.0	84.1
860-20580-14	EB-01	84.3	87.5
LCS 160-552748/1-A	Lab Control Sample	77.1	85.6
MB 160-552748/20-A	Method Blank	82.8	87.9

Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier

QC Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20580-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-41162/49
Matrix: Water
Analysis Batch: 41162

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			02/12/22 01:50	1
Fluoride	0.100	U	0.500	0.100	mg/L			02/12/22 01:50	1
Sulfate	0.109	U	0.500	0.109	mg/L			02/12/22 01:50	1

Lab Sample ID: LCS 860-41162/50
Matrix: Water
Analysis Batch: 41162

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	10.39		mg/L		104	90 - 110
Sulfate	10.0	9.865		mg/L		99	90 - 110

Lab Sample ID: LCSD 860-41162/51
Matrix: Water
Analysis Batch: 41162

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	10.40		mg/L		104	90 - 110	0	20
Sulfate	10.0	9.885		mg/L		99	90 - 110	0	20

Lab Sample ID: MB 860-41279/3
Matrix: Water
Analysis Batch: 41279

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			02/12/22 17:04	1
Fluoride	0.100	U	0.500	0.100	mg/L			02/12/22 17:04	1
Sulfate	0.1351	J	0.500	0.109	mg/L			02/12/22 17:04	1

Lab Sample ID: LCS 860-41279/4
Matrix: Water
Analysis Batch: 41279

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	9.982		mg/L		100	90 - 110
Sulfate	10.0	9.398		mg/L		94	90 - 110

Lab Sample ID: LCSD 860-41279/5
Matrix: Water
Analysis Batch: 41279

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	10.00		mg/L		100	90 - 110	0	20
Sulfate	10.0	9.363		mg/L		94	90 - 110	0	20

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QC Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20580-1

Method: 300.0 - Anions, Ion Chromatography - DL

Lab Sample ID: 860-20580-2 MS
Matrix: Water
Analysis Batch: 41162

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 - DL	5410	E	100	5443	E 4	mg/L		31	90 - 110
Fluoride - DL	6.85	F1	100	117.6	F1	mg/L		111	90 - 110
Sulfate - DL	4300		100	4360	4	mg/L		55	90 - 110

Lab Sample ID: 860-20580-2 MSD
Matrix: Water
Analysis Batch: 41162

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 - DL	5410	E	100	5451	E 4	mg/L		39	90 - 110	0	20
Fluoride - DL	6.85	F1	100	113.0		mg/L		106	90 - 110	4	20
Sulfate - DL	4300		100	4368	4	mg/L		64	90 - 110	0	20

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 860-41270/1-A
Matrix: Water
Analysis Batch: 42360

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 41270

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00589	U	0.0200	0.00589	mg/L		02/12/22 08:10	02/21/22 16:37	1
Arsenic	0.00550	U	0.0100	0.00550	mg/L		02/12/22 08:10	02/21/22 16:37	1
Barium	0.00135	U	0.0100	0.00135	mg/L		02/12/22 08:10	02/21/22 16:37	1
Beryllium	0.000490	U	0.00400	0.000490	mg/L		02/12/22 08:10	02/21/22 16:37	1
Boron	0.00343	U	0.0500	0.00343	mg/L		02/12/22 08:10	02/21/22 16:37	1
Cadmium	0.00243	U	0.00500	0.00243	mg/L		02/12/22 08:10	02/21/22 16:37	1
Calcium	0.1917	J	0.200	0.0293	mg/L		02/12/22 08:10	02/21/22 16:37	1
Chromium	0.000811	U	0.0100	0.000811	mg/L		02/12/22 08:10	02/21/22 16:37	1
Cobalt	0.000673	U	0.0100	0.000673	mg/L		02/12/22 08:10	02/21/22 16:37	1
Magnesium	0.1671	J	0.200	0.0500	mg/L		02/12/22 08:10	02/21/22 16:37	1
Lead	0.00237	U	0.0100	0.00237	mg/L		02/12/22 08:10	02/21/22 16:37	1
Molybdenum	0.00123	U	0.0100	0.00123	mg/L		02/12/22 08:10	02/21/22 16:37	1
Potassium	0.107	U	0.500	0.107	mg/L		02/12/22 08:10	02/21/22 16:37	1
Sodium	0.0667	U	0.500	0.0667	mg/L		02/12/22 08:10	02/21/22 16:37	1
Selenium	0.008626	J	0.0300	0.00439	mg/L		02/12/22 08:10	02/21/22 16:37	1
Thallium	0.009060	J	0.0200	0.00621	mg/L		02/12/22 08:10	02/21/22 16:37	1
Lithium	0.00448	U	0.0200	0.00448	mg/L		02/12/22 08:10	02/21/22 16:37	1
SiO2	0.0781	U	1.07	0.0781	mg/L		02/12/22 08:10	02/21/22 16:37	1

Lab Sample ID: LCS 860-41270/2-A
Matrix: Water
Analysis Batch: 42360

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 41270

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	1.00	0.9664		mg/L		97	80 - 120
Arsenic	1.00	0.9216		mg/L		92	80 - 120
Barium	1.00	0.8737		mg/L		87	80 - 120
Beryllium	1.00	0.9240		mg/L		92	80 - 120
Boron	1.00	0.9436		mg/L		94	80 - 120

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QC Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20580-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 860-41270/2-A
Matrix: Water
Analysis Batch: 42360

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 41270

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	1.00	0.9271		mg/L		93	80 - 120
Calcium	25.0	24.20		mg/L		97	80 - 120
Chromium	1.00	0.9480		mg/L		95	80 - 120
Cobalt	1.00	0.9106		mg/L		91	80 - 120
Magnesium	25.0	23.98		mg/L		96	80 - 120
Lead	1.00	0.9441		mg/L		94	80 - 120
Molybdenum	1.00	0.9517		mg/L		95	80 - 120
Potassium	10.0	9.679		mg/L		97	80 - 120
Silicon	10.0	8.998		mg/L		90	80 - 120
Sodium	25.0	23.85		mg/L		95	80 - 120
Selenium	1.00	0.9156		mg/L		92	80 - 120
Thallium	1.00	0.9643		mg/L		96	80 - 120
Lithium	1.00	0.9401		mg/L		94	80 - 120

Lab Sample ID: LCSD 860-41270/3-A
Matrix: Water
Analysis Batch: 42360

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 41270

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	1.00	1.005		mg/L		101	80 - 120	4	20
Arsenic	1.00	0.9588		mg/L		96	80 - 120	4	20
Barium	1.00	0.9221		mg/L		92	80 - 120	5	20
Beryllium	1.00	0.9662		mg/L		97	80 - 120	4	20
Boron	1.00	0.9886		mg/L		99	80 - 120	5	20
Cadmium	1.00	0.9716		mg/L		97	80 - 120	5	20
Calcium	25.0	25.07		mg/L		100	80 - 120	4	20
Chromium	1.00	0.9907		mg/L		99	80 - 120	4	20
Cobalt	1.00	0.9583		mg/L		96	80 - 120	5	20
Magnesium	25.0	24.87		mg/L		99	80 - 120	4	20
Lead	1.00	0.9896		mg/L		99	80 - 120	5	20
Molybdenum	1.00	0.9969		mg/L		100	80 - 120	5	20
Potassium	10.0	10.07		mg/L		101	80 - 120	4	20
Silicon	10.0	9.495		mg/L		95	80 - 120	5	20
Sodium	25.0	24.78		mg/L		99	80 - 120	4	20
Selenium	1.00	0.9614		mg/L		96	80 - 120	5	20
Thallium	1.00	1.008		mg/L		101	80 - 120	4	20
Lithium	1.00	0.9776		mg/L		98	80 - 120	4	20

Lab Sample ID: MB 860-41271/1-A
Matrix: Water
Analysis Batch: 42360

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 41271

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00589	U	0.0200	0.00589	mg/L		02/12/22 08:10	02/21/22 18:47	1
Arsenic	0.00550	U	0.0100	0.00550	mg/L		02/12/22 08:10	02/21/22 18:47	1
Barium	0.00135	U	0.0100	0.00135	mg/L		02/12/22 08:10	02/21/22 18:47	1
Beryllium	0.000490	U	0.00400	0.000490	mg/L		02/12/22 08:10	02/21/22 18:47	1
Boron	0.00343	U	0.0500	0.00343	mg/L		02/12/22 08:10	02/21/22 18:47	1
Cadmium	0.00243	U	0.00500	0.00243	mg/L		02/12/22 08:10	02/21/22 18:47	1

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QC Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20580-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 860-41271/1-A
Matrix: Water
Analysis Batch: 42360

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 41271

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	0.0293	U	0.200	0.0293	mg/L		02/12/22 08:10	02/21/22 18:47	1
Chromium	0.001503	J	0.0100	0.000811	mg/L		02/12/22 08:10	02/21/22 18:47	1
Cobalt	0.000673	U	0.0100	0.000673	mg/L		02/12/22 08:10	02/21/22 18:47	1
Magnesium	0.0500	U	0.200	0.0500	mg/L		02/12/22 08:10	02/21/22 18:47	1
Lead	0.00237	U	0.0100	0.00237	mg/L		02/12/22 08:10	02/21/22 18:47	1
Molybdenum	0.00123	U	0.0100	0.00123	mg/L		02/12/22 08:10	02/21/22 18:47	1
Potassium	0.107	U	0.500	0.107	mg/L		02/12/22 08:10	02/21/22 18:47	1
Sodium	0.0667	U	0.500	0.0667	mg/L		02/12/22 08:10	02/21/22 18:47	1
Selenium	0.00439	U	0.0300	0.00439	mg/L		02/12/22 08:10	02/21/22 18:47	1
Thallium	0.00621	U	0.0200	0.00621	mg/L		02/12/22 08:10	02/21/22 18:47	1
Lithium	0.00448	U	0.0200	0.00448	mg/L		02/12/22 08:10	02/21/22 18:47	1
SiO2	0.0781	U	1.07	0.0781	mg/L		02/12/22 08:10	02/21/22 18:47	1

Lab Sample ID: LCS 860-41271/2-A
Matrix: Water
Analysis Batch: 42360

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 41271

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	1.00	1.047		mg/L		105	80 - 120
Arsenic	1.00	1.010		mg/L		101	80 - 120
Barium	1.00	0.9682		mg/L		97	80 - 120
Beryllium	1.00	1.012		mg/L		101	80 - 120
Boron	1.00	1.037		mg/L		104	80 - 120
Cadmium	1.00	1.021		mg/L		102	80 - 120
Calcium	25.0	26.22		mg/L		105	80 - 120
Chromium	1.00	1.042		mg/L		104	80 - 120
Cobalt	1.00	1.005		mg/L		101	80 - 120
Magnesium	25.0	25.97		mg/L		104	80 - 120
Lead	1.00	1.033		mg/L		103	80 - 120
Molybdenum	1.00	1.046		mg/L		105	80 - 120
Potassium	10.0	10.49		mg/L		105	80 - 120
Silicon	10.0	9.941		mg/L		99	80 - 120
Sodium	25.0	25.93		mg/L		104	80 - 120
Selenium	1.00	1.009		mg/L		101	80 - 120
Thallium	1.00	1.062		mg/L		106	80 - 120
Lithium	1.00	1.037		mg/L		104	80 - 120

Lab Sample ID: LCSD 860-41271/3-A
Matrix: Water
Analysis Batch: 42360

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 41271

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	1.00	1.008		mg/L		101	80 - 120	4	20
Arsenic	1.00	1.010		mg/L		101	80 - 120	0	20
Barium	1.00	0.9746		mg/L		97	80 - 120	1	20
Beryllium	1.00	1.011		mg/L		101	80 - 120	0	20
Boron	1.00	1.037		mg/L		104	80 - 120	0	20
Cadmium	1.00	1.014		mg/L		101	80 - 120	1	20
Calcium	25.0	26.06		mg/L		104	80 - 120	1	20

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QC Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20580-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCSD 860-41271/3-A
Matrix: Water
Analysis Batch: 42360

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 41271

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chromium	1.00	1.037		mg/L		104	80 - 120	0	20
Cobalt	1.00	1.010		mg/L		101	80 - 120	1	20
Magnesium	25.0	25.85		mg/L		103	80 - 120	0	20
Lead	1.00	1.028		mg/L		103	80 - 120	0	20
Molybdenum	1.00	1.038		mg/L		104	80 - 120	1	20
Potassium	10.0	10.37		mg/L		104	80 - 120	1	20
Silicon	10.0	9.946		mg/L		99	80 - 120	0	20
Sodium	25.0	25.75		mg/L		103	80 - 120	1	20
Selenium	1.00	1.022		mg/L		102	80 - 120	1	20
Thallium	1.00	1.061		mg/L		106	80 - 120	0	20
Lithium	1.00	1.021		mg/L		102	80 - 120	2	20

Lab Sample ID: 860-20580-2 MS
Matrix: Water
Analysis Batch: 42360

Client Sample ID: PZ-03
Prep Type: Total/NA
Prep Batch: 41271

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.00589	U F1	1.00	0.7742		mg/L		77	75 - 125
Arsenic	0.0468		1.00	0.8467		mg/L		80	75 - 125
Barium	0.00941	J F1	1.00	0.7346	F1	mg/L		73	75 - 125
Beryllium	0.199	F1	1.00	0.9375	F1	mg/L		74	75 - 125
Boron	7.95		1.00	8.586	4	mg/L		63	75 - 125
Cadmium	0.426		1.00	1.235		mg/L		81	75 - 125
Chromium	0.0118	F1 B	1.00	0.7435	F1	mg/L		73	75 - 125
Cobalt	1.13	F1	1.00	1.833	F1	mg/L		71	75 - 125
Lead	0.0109	F1	1.00	0.7295	F1	mg/L		72	75 - 125
Molybdenum	0.00687	J F1	1.00	0.7716		mg/L		76	75 - 125
Potassium	24.5		10.0	32.46		mg/L		79	75 - 125
Silicon	47.8		10.0	54.88	4	mg/L		71	75 - 125
Selenium	0.00439	U	1.00	0.8331		mg/L		83	75 - 125
Thallium	0.00621	U F1	1.00	0.6825	F1	mg/L		68	75 - 125
Lithium	2.12		1.00	2.919		mg/L		80	

Lab Sample ID: 860-20580-2 MS
Matrix: Water
Analysis Batch: 42360

Client Sample ID: PZ-03
Prep Type: Total/NA
Prep Batch: 41271

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	693		5.00	736.9	4	mg/L		878	75 - 125
Magnesium	227		5.00	256.8	4	mg/L		599	75 - 125
Sodium	2870	E	5.00	2974	E 4	mg/L		2108	75 - 125

Lab Sample ID: 860-20580-2 MSD
Matrix: Water
Analysis Batch: 42360

Client Sample ID: PZ-03
Prep Type: Total/NA
Prep Batch: 41271

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	0.00589	U F1	1.00	0.7664		mg/L		77	75 - 125	1	20
Arsenic	0.0468		1.00	0.8622		mg/L		82	75 - 125	2	20

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QC Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20580-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 860-20580-2 MSD
Matrix: Water
Analysis Batch: 42360

Client Sample ID: PZ-03
Prep Type: Total/NA
Prep Batch: 41271

Analyte	Sample	Sample	Spike	MSD		Unit	D	%Rec	%Rec.		RPD	Limit
	Result	Qualifier		Result	Qualifier				Limits	RPD		
Barium	0.00941	J F1	1.00	0.7333	F1	mg/L		72	75 - 125	0	20	
Beryllium	0.199	F1	1.00	0.9368	F1	mg/L		74	75 - 125	0	20	
Boron	7.95		1.00	8.657	4	mg/L		71	75 - 125	1	20	
Cadmium	0.426		1.00	1.228		mg/L		80	75 - 125	1	20	
Chromium	0.0118	F1 B	1.00	0.7387	F1	mg/L		73	75 - 125	1	20	
Cobalt	1.13	F1	1.00	1.832	F1	mg/L		71	75 - 125	0	20	
Lead	0.0109	F1	1.00	0.7207	F1	mg/L		71	75 - 125	1	20	
Molybdenum	0.00687	J F1	1.00	0.7644		mg/L		76	75 - 125	1	20	
Potassium	24.5		10.0	32.92		mg/L		84	75 - 125	1	20	
Silicon	47.8		10.0	55.37	4	mg/L		75	75 - 125	1	20	
Selenium	0.00439	U	1.00	0.8336		mg/L		83	75 - 125	0	20	
Thallium	0.00621	U F1	1.00	0.6845	F1	mg/L		68	75 - 125	0	20	
Lithium	2.12		1.00	2.937		mg/L		82		1		

Lab Sample ID: 860-20580-2 MSD
Matrix: Water
Analysis Batch: 42360

Client Sample ID: PZ-03
Prep Type: Total/NA
Prep Batch: 41271

Analyte	Sample	Sample	Spike	MSD		Unit	D	%Rec	%Rec.		RPD	Limit
	Result	Qualifier		Result	Qualifier				Limits	RPD		
Calcium	693		5.00	748.2	4	mg/L		1103	75 - 125	2	20	
Magnesium	227		5.00	261.1	4	mg/L		683	75 - 125	2	20	
Sodium	2870	E	5.00	3010	E 4	mg/L		2832	75 - 125	1	20	

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 860-41390/10-A
Matrix: Water
Analysis Batch: 41448

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 41390

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	0.0000263	U	0.000200	0.0000263	mg/L		02/14/22 12:45	02/14/22 15:44	1

Lab Sample ID: LCS 860-41390/11-A
Matrix: Water
Analysis Batch: 41448

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 41390

Analyte	Spike	Added	LCS	LCS	Unit	D	%Rec	%Rec.	
								Result	Qualifier
Mercury	0.00200		0.002084		mg/L		104	80 - 120	

Lab Sample ID: LCSD 860-41390/12-A
Matrix: Water
Analysis Batch: 41448

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 41390

Analyte	Spike	Added	LCSD	LCSD	Unit	D	%Rec	%Rec.		RPD	Limit
								Result	Qualifier		
Mercury	0.00200		0.002104		mg/L		105	80 - 120	1	20	

QC Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20580-1

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

Lab Sample ID: 860-20580-2 MS
Matrix: Water
Analysis Batch: 41448

Client Sample ID: PZ-03
Prep Type: Total/NA
Prep Batch: 41390

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.0000263	U	0.00200	0.001846		mg/L		92	75 - 125

Lab Sample ID: 860-20580-2 MSD
Matrix: Water
Analysis Batch: 41448

Client Sample ID: PZ-03
Prep Type: Total/NA
Prep Batch: 41390

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Mercury	0.0000263	U	0.00200	0.001832		mg/L		92	75 - 125	1	20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-41462/3
Matrix: Water
Analysis Batch: 41462

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			02/14/22 13:29	1
Bicarbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			02/14/22 13:29	1
Carbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			02/14/22 13:29	1
Hydroxide Alkalinity	4.00	U	4.00	4.00	mg/L			02/14/22 13:29	1

Lab Sample ID: LCS 860-41462/4
Matrix: Water
Analysis Batch: 41462

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	254.1		mg/L		102	85 - 115

Lab Sample ID: LCSD 860-41462/5
Matrix: Water
Analysis Batch: 41462

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Total Alkalinity	250	256.7		mg/L		103	85 - 115	1	20

Lab Sample ID: 860-20580-7 DU
Matrix: Water
Analysis Batch: 41462

Client Sample ID: AP-35
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	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

QC Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20580-1

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: MB 860-41584/3
Matrix: Water
Analysis Batch: 41584

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			02/15/22 11:32	1
Bicarbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			02/15/22 11:32	1
Carbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			02/15/22 11:32	1
Hydroxide Alkalinity	4.00	U	4.00	4.00	mg/L			02/15/22 11:32	1

Lab Sample ID: LCS 860-41584/4
Matrix: Water
Analysis Batch: 41584

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 Alkalinity	250	266.0		mg/L		106	85 - 115		

Lab Sample ID: LCSD 860-41584/5
Matrix: Water
Analysis Batch: 41584

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	268.1		mg/L		107	85 - 115	1	20

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

Lab Sample ID: MB 860-41496/1
Matrix: Water
Analysis Batch: 41496

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			02/15/22 10:08	1

Lab Sample ID: LCS 860-41496/2
Matrix: Water
Analysis Batch: 41496

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	1052		mg/L		105	80 - 120		

Lab Sample ID: LCSD 860-41496/3
Matrix: Water
Analysis Batch: 41496

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	1029		mg/L		103	80 - 120	2	10

Lab Sample ID: MB 860-41515/1
Matrix: Water
Analysis Batch: 41515

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			02/15/22 11:10	1

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QC Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20580-1

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

Lab Sample ID: LCS 860-41515/2
 Matrix: Water
 Analysis Batch: 41515

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	1063		mg/L		106	80 - 120

Lab Sample ID: LCSD 860-41515/3
 Matrix: Water
 Analysis Batch: 41515

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	1003		mg/L		100	80 - 120	6	10

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-552748/20-A
 Matrix: Water
 Analysis Batch: 553278

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 552748

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared		Analyzed		Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)				02/28/22 13:58	03/03/22 12:47			
Radium-228	0.1585	U	0.253	0.253	1.00	0.427	pCi/L	02/28/22 13:58	03/03/22 12:47		1	
Carrier	MB MB		Limits			Prepared		Analyzed		Dil Fac		
Ba Carrier	%Yield	Qualifier	40 - 110			02/28/22 13:58	03/03/22 12:47		1			
Y Carrier	82.8		40 - 110			02/28/22 13:58	03/03/22 12:47		1			
	87.9		40 - 110									

Lab Sample ID: LCS 160-552748/1-A
 Matrix: Water
 Analysis Batch: 553147

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 552748

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec.
				Uncert. (2σ+/-)					Limits
Radium-228	8.82	12.46	*	1.43	1.00	0.428	pCi/L	141	75 - 125
Carrier	LCS LCS		Limits						
Ba Carrier	%Yield	Qualifier	40 - 110						
Y Carrier	77.1		40 - 110						
	85.6		40 - 110						

Lab Sample ID: 860-20580-2 MS
 Matrix: Water
 Analysis Batch: 553147

Client Sample ID: PZ-03
 Prep Type: Total/NA
 Prep Batch: 552748

Analyte	Sample	Sample	Spike Added	MS	MS	Total	RL	MDC	Unit	%Rec	%Rec.
	Result	Qual		Result	Qual	Uncert. (2σ+/-)					Limits
Radium-228	3.54	*	11.7	18.83		2.08	1.00	0.543	pCi/L	131	60 - 140
Carrier	MS MS		Limits								
Ba Carrier	%Yield	Qualifier	40 - 110								
Y Carrier	90.8		40 - 110								
	84.1		40 - 110								

QC Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20580-1

Method: 904.0 - Radium-228 (GFPC) (Continued)

Lab Sample ID: 860-20580-2 MSD
Matrix: Water
Analysis Batch: 553147

Client Sample ID: PZ-03
Prep Type: Total/NA
Prep Batch: 552748

Analyte	Sample	Sample	Spike Added	MSD	MSD	Total	RL	MDC	Unit	%Rec	%Rec.	RER	RER
	Result	Qual		Result	Qual	Uncert. (2σ+/-)					Limits		Limit
Radium-228	3.54	*	11.7	18.10		2.01	1.00	0.579	pCi/L	125	60 - 140	0.18	1
Carrier	MSD	MSD	Limits										
	%Yield	Qualifier											
Ba Carrier	90.8		40 - 110										
Y Carrier	83.0		40 - 110										

Method: SM7500 Ra B - Radium-226

Lab Sample ID: MB 810-13202/1-A
Matrix: Water
Analysis Batch: 15604

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 13202

Analyte	MB	MB	Count Uncert. (2σ+/-)	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier		Uncert. (2σ+/-)						
Ra-226	-0.1100	U	0.0800		1.00	0.190	pCi/L	02/18/22 11:09	03/25/22 09:35	1

Lab Sample ID: LCS 810-13202/2-A
Matrix: Water
Analysis Batch: 15604

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 13202

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec.
				Uncert. (2σ+/-)					Limits
Ra-226	9.89	10.56			1.00	0.250	pCi/L	107	90 - 110

Lab Sample ID: 860-20580-2 MS
Matrix: Water
Analysis Batch: 15604

Client Sample ID: PZ-03
Prep Type: Total/NA
Prep Batch: 13202

Analyte	Sample	Sample	Spike Added	MS	MS	Total	RL	MDC	Unit	%Rec	%Rec.
	Result	Qual		Result	Qual	Uncert. (2σ+/-)					Limits
Ra-226	0.740		10.8	5.520	F1		1.00	0.100	pCi/L	51	80 - 120

Lab Sample ID: 860-20580-2 MSD
Matrix: Water
Analysis Batch: 15604

Client Sample ID: PZ-03
Prep Type: Total/NA
Prep Batch: 13202

Analyte	Sample	Sample	Spike Added	MSD	MSD	Total	RL	MDC	Unit	%Rec	%Rec.	RER	RER
	Result	Qual		Result	Qual	Uncert. (2σ+/-)					Limits	Limit	
Ra-226	0.740		10.4	7.810	F1		1.00	0.110	pCi/L	76	80 - 120	NaN	

Lab Sample ID: MB 810-13204/1-A
Matrix: Water
Analysis Batch: 14210

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 13204

Analyte	MB	MB	Count Uncert. (2σ+/-)	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier		Uncert. (2σ+/-)						
Ra-226	0.1000	U	0.180		1.00	0.220	pCi/L	02/18/22 11:16	03/02/22 11:04	1

QC Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20580-1

Method: SM7500 Ra B - Radium-226 (Continued)

Lab Sample ID: LCS 810-13204/2-A
Matrix: Water
Analysis Batch: 14210

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 13204

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Ra-226	9.89	9.870			1.00	0.140	pCi/L	100	90 - 110

Lab Sample ID: MB 810-13208/1-A
Matrix: Water
Analysis Batch: 14577

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 13208

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra-226	-0.09000	U	0.0700		1.00	0.170	pCi/L	02/18/22 11:21	03/09/22 12:07	1

QC Association Summary

Client: GSI Environmental, Inc
Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20580-1

HPLC/IC

Analysis Batch: 41162

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-20580-1 - DL	PZ-02	Total/NA	Water	300.0	
860-20580-2 - DL	PZ-03	Total/NA	Water	300.0	
860-20580-3 - DL	AP-31	Total/NA	Water	300.0	
860-20580-4 - DL	AP-32	Total/NA	Water	300.0	
860-20580-5 - DL	AP-33	Total/NA	Water	300.0	
860-20580-5 - DL2	AP-33	Total/NA	Water	300.0	
860-20580-6 - DL	AP-34	Total/NA	Water	300.0	
860-20580-7 - DL	AP-35	Total/NA	Water	300.0	
MB 860-41162/49	Method Blank	Total/NA	Water	300.0	
LCS 860-41162/50	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-41162/51	Lab Control Sample Dup	Total/NA	Water	300.0	
860-20580-2 MS - DL	PZ-03	Total/NA	Water	300.0	
860-20580-2 MSD - DL	PZ-03	Total/NA	Water	300.0	

Analysis Batch: 41279

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-20580-8	AP-36	Total/NA	Water	300.0	
860-20580-8 - DL	AP-36	Total/NA	Water	300.0	
860-20580-9 - DL	MW-03	Total/NA	Water	300.0	
860-20580-10 - DL	PZ-05	Total/NA	Water	300.0	
860-20580-11 - DL	PZ-06	Total/NA	Water	300.0	
860-20580-12 - DL	DUP-02	Total/NA	Water	300.0	
860-20580-13	FB-02	Total/NA	Water	300.0	
860-20580-14	EB-01	Total/NA	Water	300.0	
MB 860-41279/3	Method Blank	Total/NA	Water	300.0	
LCS 860-41279/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-41279/5	Lab Control Sample Dup	Total/NA	Water	300.0	

Metals

Prep Batch: 41270

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-20580-1	PZ-02	Total/NA	Water	3010A	
860-20580-3	AP-31	Total/NA	Water	3010A	
860-20580-4	AP-32	Total/NA	Water	3010A	
860-20580-5	AP-33	Total/NA	Water	3010A	
860-20580-6	AP-34	Total/NA	Water	3010A	
860-20580-7	AP-35	Total/NA	Water	3010A	
MB 860-41270/1-A	Method Blank	Total/NA	Water	3010A	
LCS 860-41270/2-A	Lab Control Sample	Total/NA	Water	3010A	
LCSD 860-41270/3-A	Lab Control Sample Dup	Total/NA	Water	3010A	

Prep Batch: 41271

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-20580-2	PZ-03	Total/NA	Water	3010A	
860-20580-8	AP-36	Total/NA	Water	3010A	
860-20580-9	MW-03	Total/NA	Water	3010A	
860-20580-10	PZ-05	Total/NA	Water	3010A	
860-20580-11	PZ-06	Total/NA	Water	3010A	
860-20580-12	DUP-02	Total/NA	Water	3010A	
860-20580-13	FB-02	Total/NA	Water	3010A	

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QC Association Summary

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20580-1

Metals (Continued)

Prep Batch: 41271 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-20580-14	EB-01	Total/NA	Water	3010A	
MB 860-41271/1-A	Method Blank	Total/NA	Water	3010A	
LCS 860-41271/2-A	Lab Control Sample	Total/NA	Water	3010A	
LCSD 860-41271/3-A	Lab Control Sample Dup	Total/NA	Water	3010A	
860-20580-2 MS	PZ-03	Total/NA	Water	3010A	
860-20580-2 MSD	PZ-03	Total/NA	Water	3010A	

Prep Batch: 41390

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-20580-1	PZ-02	Total/NA	Water	7470A	
860-20580-2	PZ-03	Total/NA	Water	7470A	
860-20580-3	AP-31	Total/NA	Water	7470A	
860-20580-4	AP-32	Total/NA	Water	7470A	
860-20580-5	AP-33	Total/NA	Water	7470A	
860-20580-6	AP-34	Total/NA	Water	7470A	
860-20580-7	AP-35	Total/NA	Water	7470A	
860-20580-8	AP-36	Total/NA	Water	7470A	
860-20580-9	MW-03	Total/NA	Water	7470A	
860-20580-10	PZ-05	Total/NA	Water	7470A	
860-20580-11	PZ-06	Total/NA	Water	7470A	
860-20580-12	DUP-02	Total/NA	Water	7470A	
860-20580-13	FB-02	Total/NA	Water	7470A	
860-20580-14	EB-01	Total/NA	Water	7470A	
MB 860-41390/10-A	Method Blank	Total/NA	Water	7470A	
LCS 860-41390/11-A	Lab Control Sample	Total/NA	Water	7470A	
LCSD 860-41390/12-A	Lab Control Sample Dup	Total/NA	Water	7470A	
860-20580-2 MS	PZ-03	Total/NA	Water	7470A	
860-20580-2 MSD	PZ-03	Total/NA	Water	7470A	

Analysis Batch: 41448

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-20580-1	PZ-02	Total/NA	Water	7470A	41390
860-20580-2	PZ-03	Total/NA	Water	7470A	41390
860-20580-3	AP-31	Total/NA	Water	7470A	41390
860-20580-4	AP-32	Total/NA	Water	7470A	41390
860-20580-5	AP-33	Total/NA	Water	7470A	41390
860-20580-6	AP-34	Total/NA	Water	7470A	41390
860-20580-7	AP-35	Total/NA	Water	7470A	41390
860-20580-8	AP-36	Total/NA	Water	7470A	41390
860-20580-9	MW-03	Total/NA	Water	7470A	41390
860-20580-10	PZ-05	Total/NA	Water	7470A	41390
860-20580-11	PZ-06	Total/NA	Water	7470A	41390
860-20580-12	DUP-02	Total/NA	Water	7470A	41390
860-20580-13	FB-02	Total/NA	Water	7470A	41390
860-20580-14	EB-01	Total/NA	Water	7470A	41390
MB 860-41390/10-A	Method Blank	Total/NA	Water	7470A	41390
LCS 860-41390/11-A	Lab Control Sample	Total/NA	Water	7470A	41390
LCSD 860-41390/12-A	Lab Control Sample Dup	Total/NA	Water	7470A	41390
860-20580-2 MS	PZ-03	Total/NA	Water	7470A	41390
860-20580-2 MSD	PZ-03	Total/NA	Water	7470A	41390

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QC Association Summary

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20580-1

Metals

Analysis Batch: 42360

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-20580-1	PZ-02	Total/NA	Water	6010C	41270
860-20580-2	PZ-03	Total/NA	Water	6010C	41271
860-20580-2	PZ-03	Total/NA	Water	6010C	41271
860-20580-3	AP-31	Total/NA	Water	6010C	41270
860-20580-4	AP-32	Total/NA	Water	6010C	41270
860-20580-5	AP-33	Total/NA	Water	6010C	41270
860-20580-6	AP-34	Total/NA	Water	6010C	41270
860-20580-7	AP-35	Total/NA	Water	6010C	41270
860-20580-8	AP-36	Total/NA	Water	6010C	41271
860-20580-9	MW-03	Total/NA	Water	6010C	41271
860-20580-10	PZ-05	Total/NA	Water	6010C	41271
860-20580-11	PZ-06	Total/NA	Water	6010C	41271
860-20580-12	DUP-02	Total/NA	Water	6010C	41271
860-20580-13	FB-02	Total/NA	Water	6010C	41271
860-20580-14	EB-01	Total/NA	Water	6010C	41271
MB 860-41270/1-A	Method Blank	Total/NA	Water	6010C	41270
MB 860-41271/1-A	Method Blank	Total/NA	Water	6010C	41271
LCS 860-41270/2-A	Lab Control Sample	Total/NA	Water	6010C	41270
LCS 860-41271/2-A	Lab Control Sample	Total/NA	Water	6010C	41271
LCSD 860-41270/3-A	Lab Control Sample Dup	Total/NA	Water	6010C	41270
LCSD 860-41271/3-A	Lab Control Sample Dup	Total/NA	Water	6010C	41271
860-20580-2 MS	PZ-03	Total/NA	Water	6010C	41271
860-20580-2 MS	PZ-03	Total/NA	Water	6010C	41271
860-20580-2 MSD	PZ-03	Total/NA	Water	6010C	41271
860-20580-2 MSD	PZ-03	Total/NA	Water	6010C	41271

Analysis Batch: 42445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-20580-1	PZ-02	Total/NA	Water	6010C	41270
860-20580-2	PZ-03	Total/NA	Water	6010C	41271
860-20580-4	AP-32	Total/NA	Water	6010C	41270
860-20580-5	AP-33	Total/NA	Water	6010C	41270
860-20580-9	MW-03	Total/NA	Water	6010C	41271

General Chemistry

Analysis Batch: 41462

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-20580-1	PZ-02	Total/NA	Water	SM 2320B	
860-20580-2	PZ-03	Total/NA	Water	SM 2320B	
860-20580-3	AP-31	Total/NA	Water	SM 2320B	
860-20580-4	AP-32	Total/NA	Water	SM 2320B	
860-20580-5	AP-33	Total/NA	Water	SM 2320B	
860-20580-6	AP-34	Total/NA	Water	SM 2320B	
860-20580-7	AP-35	Total/NA	Water	SM 2320B	
860-20580-10	PZ-05	Total/NA	Water	SM 2320B	
860-20580-11	PZ-06	Total/NA	Water	SM 2320B	
860-20580-12	DUP-02	Total/NA	Water	SM 2320B	
MB 860-41462/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-41462/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-41462/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

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QC Association Summary

Client: GSI Environmental, Inc
Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20580-1

General Chemistry (Continued)

Analysis Batch: 41462 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-20580-7 DU	AP-35	Total/NA	Water	SM 2320B	

Analysis Batch: 41496

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-20580-1	PZ-02	Total/NA	Water	SM 2540C	
860-20580-2	PZ-03	Total/NA	Water	SM 2540C	
860-20580-3	AP-31	Total/NA	Water	SM 2540C	
860-20580-4	AP-32	Total/NA	Water	SM 2540C	
860-20580-5	AP-33	Total/NA	Water	SM 2540C	
860-20580-6	AP-34	Total/NA	Water	SM 2540C	
860-20580-7	AP-35	Total/NA	Water	SM 2540C	
860-20580-8	AP-36	Total/NA	Water	SM 2540C	
MB 860-41496/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-41496/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-41496/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	

Analysis Batch: 41515

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-20580-9	MW-03	Total/NA	Water	SM 2540C	
860-20580-10	PZ-05	Total/NA	Water	SM 2540C	
860-20580-11	PZ-06	Total/NA	Water	SM 2540C	
860-20580-12	DUP-02	Total/NA	Water	SM 2540C	
860-20580-13	FB-02	Total/NA	Water	SM 2540C	
860-20580-14	EB-01	Total/NA	Water	SM 2540C	
MB 860-41515/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-41515/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-41515/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	

Analysis Batch: 41584

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-20580-8	AP-36	Total/NA	Water	SM 2320B	
860-20580-9	MW-03	Total/NA	Water	SM 2320B	
MB 860-41584/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-41584/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-41584/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Rad

Prep Batch: 13202

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-20580-2	PZ-03	Total/NA	Water	RAD Prep	
860-20580-3	AP-31	Total/NA	Water	RAD Prep	
860-20580-4	AP-32	Total/NA	Water	RAD Prep	
860-20580-5	AP-33	Total/NA	Water	RAD Prep	
860-20580-6	AP-34	Total/NA	Water	RAD Prep	
860-20580-7	AP-35	Total/NA	Water	RAD Prep	
860-20580-8	AP-36	Total/NA	Water	RAD Prep	
860-20580-9	MW-03	Total/NA	Water	RAD Prep	
860-20580-10	PZ-05	Total/NA	Water	RAD Prep	
MB 810-13202/1-A	Method Blank	Total/NA	Water	RAD Prep	
LCS 810-13202/2-A	Lab Control Sample	Total/NA	Water	RAD Prep	

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QC Association Summary

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20580-1

Rad (Continued)

Prep Batch: 13202 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-20580-2 MS	PZ-03	Total/NA	Water	RAD Prep	
860-20580-2 MSD	PZ-03	Total/NA	Water	RAD Prep	

Prep Batch: 13204

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-20580-11	PZ-06	Total/NA	Water	RAD Prep	
860-20580-12	DUP-02	Total/NA	Water	RAD Prep	
860-20580-13	FB-02	Total/NA	Water	RAD Prep	
860-20580-14	EB-01	Total/NA	Water	RAD Prep	
MB 810-13204/1-A	Method Blank	Total/NA	Water	RAD Prep	
LCS 810-13204/2-A	Lab Control Sample	Total/NA	Water	RAD Prep	

Prep Batch: 13208

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-20580-1	PZ-02	Total/NA	Water	RAD Prep	
MB 810-13208/1-A	Method Blank	Total/NA	Water	RAD Prep	
LCS 810-13208/2-A	Lab Control Sample	Total/NA	Water	RAD Prep	

Prep Batch: 552748

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-20580-1	PZ-02	Total/NA	Water	PrecSep_0	
860-20580-2	PZ-03	Total/NA	Water	PrecSep_0	
860-20580-3	AP-31	Total/NA	Water	PrecSep_0	
860-20580-4	AP-32	Total/NA	Water	PrecSep_0	
860-20580-5	AP-33	Total/NA	Water	PrecSep_0	
860-20580-6	AP-34	Total/NA	Water	PrecSep_0	
860-20580-7	AP-35	Total/NA	Water	PrecSep_0	
860-20580-8	AP-36	Total/NA	Water	PrecSep_0	
860-20580-9	MW-03	Total/NA	Water	PrecSep_0	
860-20580-10	PZ-05	Total/NA	Water	PrecSep_0	
860-20580-11	PZ-06	Total/NA	Water	PrecSep_0	
860-20580-12	DUP-02	Total/NA	Water	PrecSep_0	
860-20580-13	FB-02	Total/NA	Water	PrecSep_0	
860-20580-14	EB-01	Total/NA	Water	PrecSep_0	
MB 160-552748/20-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-552748/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
860-20580-2 MS	PZ-03	Total/NA	Water	PrecSep_0	
860-20580-2 MSD	PZ-03	Total/NA	Water	PrecSep_0	

Lab Chronicle

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20580-1

Client Sample ID: PZ-02
Date Collected: 02/08/22 09:45
Date Received: 02/09/22 09:03

Lab Sample ID: 860-20580-1
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	10			41162	02/12/22 08:51	WP	XEN STF
Total/NA	Prep	3010A			50 mL	50 mL	41270	02/12/22 08:10	MD	XEN STF
Total/NA	Analysis	6010C		10			42360	02/21/22 18:18	AV	XEN STF
Total/NA	Prep	3010A			50 mL	50 mL	41270	02/12/22 08:10	MD	XEN STF
Total/NA	Analysis	6010C		50			42445	02/22/22 10:58	AV	XEN STF
Total/NA	Prep	7470A			50 mL	50 mL	41390	02/14/22 12:45	AGR	XEN STF
Total/NA	Analysis	7470A		1			41448	02/14/22 15:58	SHZ	XEN STF
Total/NA	Analysis	SM 2320B		1			41462	02/14/22 14:39	TL	XEN STF
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	41496	02/15/22 10:08	ADL	XEN STF
Total/NA	Prep	PrecSep_0			745.01 mL	1.0 g	552748	02/28/22 13:58	LPS	TAL SL
Total/NA	Analysis	904.0		1			553147	03/03/22 12:54	ANW	TAL SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	13208	02/18/22 11:21	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			14577		SS	EA SB
								(Start) 03/09/22 12:07		
								(End) 03/09/22 12:37		

Client Sample ID: PZ-03
Date Collected: 02/08/22 10:40
Date Received: 02/09/22 09:03

Lab Sample ID: 860-20580-2
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	10			41162	02/12/22 09:03	WP	XEN STF
Total/NA	Prep	3010A			50 mL	50 mL	41271	02/12/22 08:10	MD	XEN STF
Total/NA	Analysis	6010C		1			42360	02/21/22 18:58	AV	XEN STF
Total/NA	Prep	3010A			50 mL	50 mL	41271	02/12/22 08:10	MD	XEN STF
Total/NA	Analysis	6010C		10			42360	02/21/22 19:09	AV	XEN STF
Total/NA	Prep	3010A			50 mL	50 mL	41271	02/12/22 08:10	MD	XEN STF
Total/NA	Analysis	6010C		50			42445	02/22/22 11:12	AV	XEN STF
Total/NA	Prep	7470A			50 mL	50 mL	41390	02/14/22 12:45	AGR	XEN STF
Total/NA	Analysis	7470A		1			41448	02/14/22 15:49	SHZ	XEN STF
Total/NA	Analysis	SM 2320B		1			41462	02/14/22 14:44	TL	XEN STF
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	41496	02/15/22 10:08	ADL	XEN STF
Total/NA	Prep	PrecSep_0			755.77 mL	1.0 g	552748	02/28/22 13:58	LPS	TAL SL
Total/NA	Analysis	904.0		1			553147	03/03/22 12:54	ANW	TAL SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	13202	02/18/22 11:09	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			15604		SS	EA SB
								(Start) 03/25/22 09:35		
								(End) 03/25/22 10:05		

Client Sample ID: AP-31
Date Collected: 02/08/22 09:50
Date Received: 02/09/22 09:03

Lab Sample ID: 860-20580-3
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			41162	02/12/22 09:49	WP	XEN STF

Eurofins Houston

Lab Chronicle

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20580-1

Client Sample ID: AP-31
Date Collected: 02/08/22 09:50
Date Received: 02/09/22 09:03

Lab Sample ID: 860-20580-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			50 mL	50 mL	41270	02/12/22 08:10	MD	XEN STF
Total/NA	Analysis	6010C		10			42360	02/21/22 18:22	AV	XEN STF
Total/NA	Prep	7470A			50 mL	50 mL	41390	02/14/22 12:45	AGR	XEN STF
Total/NA	Analysis	7470A		1			41448	02/14/22 16:00	SHZ	XEN STF
Total/NA	Analysis	SM 2320B		1			41462	02/14/22 15:06	TL	XEN STF
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	41496	02/15/22 10:08	ADL	XEN STF
Total/NA	Prep	PrecSep_0			991.24 mL	1.0 g	552748	02/28/22 13:58	LPS	TAL SL
Total/NA	Analysis	904.0		1			553147	03/03/22 12:56	ANW	TAL SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	13202	02/18/22 11:09	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			15604		SS	EA SB
								(Start)	03/25/22 09:35	
								(End)	03/25/22 10:05	

Client Sample ID: AP-32
Date Collected: 02/08/22 11:45
Date Received: 02/09/22 09:03

Lab Sample ID: 860-20580-4
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	DL	10			41162	02/12/22 10:01	WP	XEN STF
Total/NA	Prep	3010A			50 mL	50 mL	41270	02/12/22 08:10	MD	XEN STF
Total/NA	Analysis	6010C		10			42360	02/21/22 18:25	AV	XEN STF
Total/NA	Prep	3010A			50 mL	50 mL	41270	02/12/22 08:10	MD	XEN STF
Total/NA	Analysis	6010C		50			42445	02/22/22 11:20	AV	XEN STF
Total/NA	Prep	7470A			50 mL	50 mL	41390	02/14/22 12:45	AGR	XEN STF
Total/NA	Analysis	7470A		1			41448	02/14/22 16:01	SHZ	XEN STF
Total/NA	Analysis	SM 2320B		1			41462	02/14/22 15:11	TL	XEN STF
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	41496	02/15/22 10:08	ADL	XEN STF
Total/NA	Prep	PrecSep_0			994.40 mL	1.0 g	552748	02/28/22 13:58	LPS	TAL SL
Total/NA	Analysis	904.0		1			553147	03/03/22 12:56	ANW	TAL SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	13202	02/18/22 11:09	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			15604		SS	EA SB
								(Start)	03/25/22 09:35	
								(End)	03/25/22 10:05	

Client Sample ID: AP-33
Date Collected: 02/08/22 12:35
Date Received: 02/09/22 09:03

Lab Sample ID: 860-20580-5
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	DL	10			41162	02/12/22 10:24	WP	XEN STF
Total/NA	Analysis	300.0	DL2	100			41162	02/12/22 10:36	WP	XEN STF
Total/NA	Prep	3010A			50 mL	50 mL	41270	02/12/22 08:10	MD	XEN STF
Total/NA	Analysis	6010C		10			42360	02/21/22 18:29	AV	XEN STF
Total/NA	Prep	3010A			50 mL	50 mL	41270	02/12/22 08:10	MD	XEN STF
Total/NA	Analysis	6010C		50			42445	02/22/22 11:02	AV	XEN STF

Eurofins Houston

Lab Chronicle

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20580-1

Client Sample ID: AP-33
Date Collected: 02/08/22 12:35
Date Received: 02/09/22 09:03

Lab Sample ID: 860-20580-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			50 mL	50 mL	41390	02/14/22 12:45	AGR	XEN STF
Total/NA	Analysis	7470A		1			41448	02/14/22 16:02	SHZ	XEN STF
Total/NA	Analysis	SM 2320B		1			41462	02/14/22 15:17	TL	XEN STF
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	41496	02/15/22 10:08	ADL	XEN STF
Total/NA	Prep	PrecSep_0			995.82 mL	1.0 g	552748	02/28/22 13:58	LPS	TAL SL
Total/NA	Analysis	904.0		1			553147	03/03/22 12:56	ANW	TAL SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	13202	02/18/22 11:09	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			15604		SS	EA SB
								(Start)	03/25/22 09:35	
								(End)	03/25/22 10:05	

Client Sample ID: AP-34
Date Collected: 02/08/22 14:25
Date Received: 02/09/22 09:03

Lab Sample ID: 860-20580-6
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	DL	10			41162	02/12/22 11:11	WP	XEN STF
Total/NA	Prep	3010A			50 mL	50 mL	41270	02/12/22 08:10	MD	XEN STF
Total/NA	Analysis	6010C		10			42360	02/21/22 18:33	AV	XEN STF
Total/NA	Prep	7470A			50 mL	50 mL	41390	02/14/22 12:45	AGR	XEN STF
Total/NA	Analysis	7470A		1			41448	02/14/22 16:04	SHZ	XEN STF
Total/NA	Analysis	SM 2320B		1			41462	02/14/22 15:22	TL	XEN STF
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	41496	02/15/22 10:08	ADL	XEN STF
Total/NA	Prep	PrecSep_0			745.02 mL	1.0 g	552748	02/28/22 13:58	LPS	TAL SL
Total/NA	Analysis	904.0		1			553147	03/03/22 12:56	ANW	TAL SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	13202	02/18/22 11:09	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			15604		SS	EA SB
								(Start)	03/25/22 09:35	
								(End)	03/25/22 10:05	

Client Sample ID: AP-35
Date Collected: 02/08/22 14:40
Date Received: 02/09/22 09:03

Lab Sample ID: 860-20580-7
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	DL	10			41162	02/12/22 11:35	WP	XEN STF
Total/NA	Prep	3010A			50 mL	50 mL	41270	02/12/22 08:10	MD	XEN STF
Total/NA	Analysis	6010C		10			42360	02/21/22 18:36	AV	XEN STF
Total/NA	Prep	7470A			50 mL	50 mL	41390	02/14/22 12:45	AGR	XEN STF
Total/NA	Analysis	7470A		1			41448	02/14/22 16:05	SHZ	XEN STF
Total/NA	Analysis	SM 2320B		1			41462	02/14/22 15:27	TL	XEN STF
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	41496	02/15/22 10:08	ADL	XEN STF
Total/NA	Prep	PrecSep_0			997.11 mL	1.0 g	552748	02/28/22 13:58	LPS	TAL SL
Total/NA	Analysis	904.0		1			553147	03/03/22 12:56	ANW	TAL SL

Lab Chronicle

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20580-1

Client Sample ID: AP-35
Date Collected: 02/08/22 14:40
Date Received: 02/09/22 09:03

Lab Sample ID: 860-20580-7
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	13202	02/18/22 11:09	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			15604		SS	EA SB
							(Start)	03/25/22 09:35		
							(End)	03/25/22 10:05		

Client Sample ID: AP-36
Date Collected: 02/08/22 14:50
Date Received: 02/09/22 09:03

Lab Sample ID: 860-20580-8
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			41279	02/12/22 17:50	WP	XEN STF
Total/NA	Analysis	300.0	DL	10			41279	02/12/22 18:02	WP	XEN STF
Total/NA	Prep	3010A			50 mL	50 mL	41271	02/12/22 08:10	MD	XEN STF
Total/NA	Analysis	6010C		10			42360	02/21/22 19:34	AV	XEN STF
Total/NA	Prep	7470A			50 mL	50 mL	41390	02/14/22 12:45	AGR	XEN STF
Total/NA	Analysis	7470A		1			41448	02/14/22 16:06	SHZ	XEN STF
Total/NA	Analysis	SM 2320B		1			41584	02/15/22 14:15	TL	XEN STF
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	41496	02/15/22 10:08	ADL	XEN STF
Total/NA	Prep	PrecSep_0			997.80 mL	1.0 g	552748	02/28/22 13:58	LPS	TAL SL
Total/NA	Analysis	904.0		1			553147	03/03/22 12:56	ANW	TAL SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	13202	02/18/22 11:09	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			15604		SS	EA SB
							(Start)	03/25/22 09:35		
							(End)	03/25/22 10:05		

Client Sample ID: MW-03
Date Collected: 02/08/22 10:40
Date Received: 02/09/22 09:03

Lab Sample ID: 860-20580-9
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	DL	10			41279	02/12/22 18:14	WP	XEN STF
Total/NA	Prep	3010A			50 mL	50 mL	41271	02/12/22 08:10	MD	XEN STF
Total/NA	Analysis	6010C		10			42360	02/21/22 19:38	AV	XEN STF
Total/NA	Prep	3010A			50 mL	50 mL	41271	02/12/22 08:10	MD	XEN STF
Total/NA	Analysis	6010C		50			42445	02/22/22 11:23	AV	XEN STF
Total/NA	Prep	7470A			50 mL	50 mL	41390	02/14/22 12:45	AGR	XEN STF
Total/NA	Analysis	7470A		1			41448	02/14/22 16:08	SHZ	XEN STF
Total/NA	Analysis	SM 2320B		1			41584	02/15/22 14:21	TL	XEN STF
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	41515	02/15/22 11:10	ADL	XEN STF
Total/NA	Prep	PrecSep_0			998.05 mL	1.0 g	552748	02/28/22 13:58	LPS	TAL SL
Total/NA	Analysis	904.0		1			553147	03/03/22 12:56	ANW	TAL SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	13202	02/18/22 11:09	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			15604		SS	EA SB
							(Start)	03/25/22 09:35		
							(End)	03/25/22 10:05		

Eurofins Houston

Lab Chronicle

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20580-1

Client Sample ID: PZ-05

Lab Sample ID: 860-20580-10

Date Collected: 02/08/22 13:30

Matrix: Water

Date Received: 02/09/22 09:03

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	DL	10			41279	02/12/22 18:37	WP	XEN STF
Total/NA	Prep	3010A			50 mL	50 mL	41271	02/12/22 08:10	MD	XEN STF
Total/NA	Analysis	6010C		10			42360	02/21/22 19:41	AV	XEN STF
Total/NA	Prep	7470A			50 mL	50 mL	41390	02/14/22 12:45	AGR	XEN STF
Total/NA	Analysis	7470A		1			41448	02/14/22 16:09	SHZ	XEN STF
Total/NA	Analysis	SM 2320B		1			41462	02/14/22 15:53	TL	XEN STF
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	41515	02/15/22 11:10	ADL	XEN STF
Total/NA	Prep	PrecSep_0			996.83 mL	1.0 g	552748	02/28/22 13:58	LPS	TAL SL
Total/NA	Analysis	904.0		1			553278	03/03/22 12:47	MLK	TAL SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	13202	02/18/22 11:09	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			15604		SS	EA SB
								(Start)	03/25/22 09:35	
								(End)	03/25/22 10:05	

Client Sample ID: PZ-06

Lab Sample ID: 860-20580-11

Date Collected: 02/08/22 13:30

Matrix: Water

Date Received: 02/09/22 09:03

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	DL	10			41279	02/12/22 19:00	WP	XEN STF
Total/NA	Prep	3010A			50 mL	50 mL	41271	02/12/22 08:10	MD	XEN STF
Total/NA	Analysis	6010C		10			42360	02/21/22 19:45	AV	XEN STF
Total/NA	Prep	7470A			50 mL	50 mL	41390	02/14/22 12:45	AGR	XEN STF
Total/NA	Analysis	7470A		1			41448	02/14/22 16:13	SHZ	XEN STF
Total/NA	Analysis	SM 2320B		1			41462	02/14/22 16:00	TL	XEN STF
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	41515	02/15/22 11:10	ADL	XEN STF
Total/NA	Prep	PrecSep_0			992.96 mL	1.0 g	552748	02/28/22 13:58	LPS	TAL SL
Total/NA	Analysis	904.0		1			553278	03/03/22 12:47	MLK	TAL SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	13204	02/18/22 11:16	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			14210		SS	EA SB
								(Start)	03/02/22 11:04	
								(End)	03/02/22 11:34	

Client Sample ID: DUP-02

Lab Sample ID: 860-20580-12

Date Collected: 02/08/22 13:00

Matrix: Water

Date Received: 02/09/22 09:03

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	DL	10			41279	02/12/22 19:35	WP	XEN STF
Total/NA	Prep	3010A			50 mL	50 mL	41271	02/12/22 08:10	MD	XEN STF
Total/NA	Analysis	6010C		10			42360	02/21/22 19:48	AV	XEN STF
Total/NA	Prep	7470A			50 mL	50 mL	41390	02/14/22 12:45	AGR	XEN STF
Total/NA	Analysis	7470A		1			41448	02/14/22 16:15	SHZ	XEN STF
Total/NA	Analysis	SM 2320B		1			41462	02/14/22 16:21	TL	XEN STF

Eurofins Houston

Lab Chronicle

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20580-1

Client Sample ID: DUP-02
Date Collected: 02/08/22 13:00
Date Received: 02/09/22 09:03

Lab Sample ID: 860-20580-12
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	SM 2540C		1	10 mL	200 mL	41515	02/15/22 11:10	ADL	XEN STF
Total/NA	Prep	PrecSep_0			991.11 mL	1.0 g	552748	02/28/22 13:58	LPS	TAL SL
Total/NA	Analysis	904.0		1			553278	03/03/22 12:47	MLK	TAL SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	13204	02/18/22 11:16	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			14210		SS	EA SB
								(Start) 03/02/22 11:04		
								(End) 03/02/22 11:34		

Client Sample ID: FB-02
Date Collected: 02/08/22 13:35
Date Received: 02/09/22 09:03

Lab Sample ID: 860-20580-13
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			41279	02/12/22 19:47	WP	XEN STF
Total/NA	Prep	3010A			50 mL	50 mL	41271	02/12/22 08:10	MD	XEN STF
Total/NA	Analysis	6010C		10			42360	02/21/22 19:52	AV	XEN STF
Total/NA	Prep	7470A			50 mL	50 mL	41390	02/14/22 12:45	AGR	XEN STF
Total/NA	Analysis	7470A		1			41448	02/14/22 16:16	SHZ	XEN STF
Total/NA	Analysis	SM 2540C		1	200 mL	200 mL	41515	02/15/22 11:10	ADL	XEN STF
Total/NA	Prep	PrecSep_0			993.89 mL	1.0 g	552748	02/28/22 13:58	LPS	TAL SL
Total/NA	Analysis	904.0		1			553278	03/03/22 12:47	MLK	TAL SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	13204	02/18/22 11:16	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			14210		SS	EA SB
								(Start) 03/02/22 11:04		
								(End) 03/02/22 11:34		

Client Sample ID: EB-01
Date Collected: 02/08/22 13:50
Date Received: 02/09/22 09:03

Lab Sample ID: 860-20580-14
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			41279	02/12/22 19:59	WP	XEN STF
Total/NA	Prep	3010A			50 mL	50 mL	41271	02/12/22 08:10	MD	XEN STF
Total/NA	Analysis	6010C		10			42360	02/21/22 19:56	AV	XEN STF
Total/NA	Prep	7470A			50 mL	50 mL	41390	02/14/22 12:45	AGR	XEN STF
Total/NA	Analysis	7470A		1			41448	02/14/22 16:17	SHZ	XEN STF
Total/NA	Analysis	SM 2540C		1	200 mL	200 mL	41515	02/15/22 11:10	ADL	XEN STF
Total/NA	Prep	PrecSep_0			1000.47 mL	1.0 g	552748	02/28/22 13:58	LPS	TAL SL
Total/NA	Analysis	904.0		1			553278	03/03/22 12:47	MLK	TAL SL
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	13204	02/18/22 11:16	SS	EA SB
Total/NA	Analysis	SM7500 Ra B		1			14210		SS	EA SB
								(Start) 03/02/22 11:04		
								(End) 03/02/22 11:34		

Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20580-1

Laboratory References:

EA SB = Eurofins Eaton South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777
TAL SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566
XEN STF = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

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Accreditation/Certification Summary

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20580-1

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	T104704215-21-44	06-30-22
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
6010C	3010A	Water	SiO2
SM 2320B		Water	Bicarbonate Alkalinity as CaCO3
SM 2320B		Water	Carbonate Alkalinity as CaCO3
SM 2320B		Water	Hydroxide Alkalinity

Laboratory: Eurofins Eaton 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	07-31-22
Alabama	State	40700	06-30-22
Alaska	State	IN00035	06-30-22
Arizona	State	AZ0432	07-26-22
Arkansas (DW)	State	EPA IN00035	06-30-22
California	State	2920	06-30-22
Colorado	State	IN00035	02-28-22 *
Connecticut	State	PH-0132	03-31-22
Delaware (DW)	State	IN00035	06-30-22
Florida	NELAP	E87775	06-30-22
Georgia (DW)	State	929	06-30-22
Hawaii	State	IN035	06-30-22
Idaho (DW)	State	IN00035	12-31-22
IL Dept. of Public Health (Micro)	State	17767	06-30-22
Illinois	NELAP	200001	09-30-22
Indiana	State	C-71-01	12-31-22
Indiana (Micro)	State	M-76-07	12-31-22
Iowa	State	IA Lab #098	11-01-23
Kansas	NELAP	E-10233	10-31-22
Kentucky (DW)	State	KY90056	12-31-22
Louisiana (DW)	State	LA180008	12-31-22
Maine	State	IN00035	05-01-23
Maryland	State	209	03-31-22
Massachusetts	State	M-IN035	06-30-22
MI - RadChem Recognition	State	9926	06-30-22
Minnesota	NELAP	1989807	12-31-22
Mississippi	State	IN00035	06-30-22
Missouri	State	880	09-30-24
Montana (DW)	State	CERT0026	01-01-23
Nebraska	State	NE-OS-05-04	06-30-22
Nevada	State	IN000352021-1	08-01-22
New Hampshire	NELAP	2124	11-05-22
New Jersey	NELAP	IN598	06-30-22
New Mexico	State	IN00035	06-30-22
New York	NELAP	11398	04-01-22
North Carolina (DW)	State	18700	07-31-22
North Dakota	State	R-035	06-30-22

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

Accreditation/Certification Summary

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20580-1

Laboratory: Eurofins Eaton 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	06-30-22
Oklahoma	NELAP	D9508	08-31-22
Oregon	NELAP	4156	09-16-22
Pennsylvania	NELAP	68-00466	04-30-22
Puerto Rico	State	IN00035	04-02-22
Rhode Island	State	LAO00343	12-30-22
South Carolina	State	95005001	06-30-22
South Dakota (DW)	State	IN00035	12-31-22
Tennessee	State	TN02973	06-30-22
Texas	NELAP	T104704187-20-4	12-31-22
Texas	TCEQ Water Supply	TX207	06-30-22
USEPA Reg X SDWA	US Federal Programs	IN00035	08-20-22
Utah	NELAP	IN000352021-14	07-31-22
Vermont	State	VT-8775	11-15-22
Virginia	NELAP	460275	03-14-22 *
Washington	State	C837	01-01-23
West Virginia (DW)	State	9927 C	12-31-22
Wisconsin	State	999766900	08-31-22
Wisconsin (Micro)	State	10121	12-31-22
Wyoming	State	8TMS-L	08-23-22

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	07-31-22

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

Analysis Method	Prep Method	Matrix	Analyte
904.0	PrecSep_0	Water	Radium-228

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

Method Summary

Client: GSI Environmental, Inc
Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20580-1

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	XEN STF
6010C	Metals (ICP)	SW846	XEN STF
7470A	Mercury (CVAA)	SW846	XEN STF
SM 2320B	Alkalinity	SM	XEN STF
SM 2540C	Solids, Total Dissolved (TDS)	SM	XEN STF
904.0	Radium-228 (GFPC)	EPA	TAL SL
SM7500 Ra B	Radium-226	SM	EA SB
3010A	Preparation, Total Metals	SW846	XEN STF
7470A	Preparation, Mercury	SW846	XEN STF
PrecSep_0	Preparation, Precipitate Separation	None	TAL SL
RAD Prep	Preparation, Radiologicals	None	EA SB

Protocol References:

EPA = US Environmental Protection Agency

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

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 South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777

TAL SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

XEN STF = 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 2H21 GW

Job ID: 860-20580-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-20580-1	PZ-02	Water	02/08/22 09:45	02/09/22 09:03
860-20580-2	PZ-03	Water	02/08/22 10:40	02/09/22 09:03
860-20580-3	AP-31	Water	02/08/22 09:50	02/09/22 09:03
860-20580-4	AP-32	Water	02/08/22 11:45	02/09/22 09:03
860-20580-5	AP-33	Water	02/08/22 12:35	02/09/22 09:03
860-20580-6	AP-34	Water	02/08/22 14:25	02/09/22 09:03
860-20580-7	AP-35	Water	02/08/22 14:40	02/09/22 09:03
860-20580-8	AP-36	Water	02/08/22 14:50	02/09/22 09:03
860-20580-9	MW-03	Water	02/08/22 10:40	02/09/22 09:03
860-20580-10	PZ-05	Water	02/08/22 13:30	02/09/22 09:03
860-20580-11	PZ-06	Water	02/08/22 13:30	02/09/22 09:03
860-20580-12	DUP-02	Water	02/08/22 13:00	02/09/22 09:03
860-20580-13	FB-02	Water	02/08/22 13:35	02/09/22 09:03
860-20580-14	EB-01	Water	02/08/22 13:50	02/09/22 09:03

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

Chain of Custody Record

eurofins | Environment Testing
 America

Client Information		Sampler: Scott Wade + HMV Team		Lab PM: Kudhachkar Sachin G	
Client Contact: Mike Schofield		Phone: 832-347-4521		E-Mail: Sachin.Kudhachkar@Eurofinset.com	
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-net.com	
Project Name: 1422 San Miguel Electrical Co-Op - Ash Pond GW		Site: Ash Ponds		Project #: 86001746	
SSOW#:		Sample Date		Sample Time	
Sample Identification		Sample Date		Sample Time	
PZ-02		2/8/22		945	
PZ-03				1040	
PZ-03 (MS)				↓	
PZ-03 (MSD)				950	
AP-31				1145	
AP-32				1235	
AP-33				1425	
AP-34				1440	
AP-35				1450	
MW-03				1040	
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)	
Empty Kit Relinquished by: <i>MSM</i>		Date/Time: 2-9-22 903		Company: HMT	
Relinquished by: <i>MSM</i>		Date/Time:		Company:	
Relinquished by:		Date/Time:		Company:	
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.		Cooler Temperature(s) °C and Other Remarks:	

Samp. Tracking No(s):		Lab No: 860-3614-1220.1	
State of Origin: TX		Page: 1 of 2	
Job #:		Job #:	
Analysis Requested		Preservation Codes:	
2320B Alkalinity 2540C TDS 300-Cl, F, SO4 860-20580 Chain of Custody		A HCl B NaOH C Zn Acetate D Nitric Acid E NaHSO4 F MeOH G Amalifer H Ascorbic Acid I Ice J DI Water K EDTA L EDA Other:	
226 = M1500 RA BM 228 = E504 O		M Hexane N Nona O Acetone P Na2O4S Q Na2SO3 R Na2SO3 S H2SO4 T TSP Dodecahydrate U Acetone V MCAA W pH 4-5 X other (specify)	
860-20580 Chain of Custody 		Special Instructions/Note:	
Temp: 09 IR ID:HOU-323		C/F+0.2 Corrected Temp: 11	
Temp: 1.2 IR ID:HOU-323		C/F+0.2 Corrected Temp: 14	
Temp: 03 IR ID:HOU-323		C/F+0.2 Corrected Temp: 0.5	
Temp: 04 IR ID:HOU-323		C/F+0.2 Corrected Temp: 0.6	
Temp: 1.1 IR ID:HOU-323		C/F+0.2 Corrected Temp: 1.3	
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:		Method of Shipment: <i>Cons Express</i>	
Received by: <i>MSM</i>		Date/Time: 2/9/22 903	
Received by: <i>MSM</i>		Date/Time:	
Received by: <i>MSM</i>		Date/Time:	



Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler	Lab PM	Carrier Tracking No(s)	COC No
Client Contact: Kudchadkar, Sachin G		Phone:	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	860-10141.1
Shipping/Receiving Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Page: Page 1 of 2	Job #: 860-20580-1
Address: 13715 Rider Trail North, Earth City, MO, 63045		Due Date Requested: 3/9/2022	Analysis Requested		
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #	TAT Requested (days):	904.0/PrecSep_0 Standard Target List		
Email:	WO #		Perform MS/MSD (Yes or No)		
Project Name: San Miguel Electrical Co-Op 2H21 GW	Project #: 86001746		Field Filtered Sample (Yes or No)		
Site:	SSOW#		Total Number of Containers		
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastewater, BT=tissue, A=air)	Preservation Code:
PZ-02 (860-20580-1)	2/8/22	09:45 Central		Water	
PZ-03 (860-20580-2)	2/8/22	10:40 Central		Water	
PZ-03 (860-20580-2MS)	2/8/22	10:40 Central	MS	Water	
PZ-03 (860-20580-2MSD)	2/8/22	10:40 Central	MSD	Water	
AP-31 (860-20580-3)	2/8/22	09:50 Central		Water	
AP-32 (860-20580-4)	2/8/22	11:45 Central		Water	
AP-33 (860-20580-5)	2/8/22	12:35 Central		Water	
AP-34 (860-20580-6)	2/8/22	14:25 Central		Water	
AP-35 (860-20580-7)	2/8/22	14:40 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>					
Possible Hazard Identification					
Unconfirmed					
Deliverable Requested: I, II, III, IV, Other (specify) _____ Primary Deliverable Rank: 2					
Empty Kit Relinquished by: _____ Date: _____					
Relinquished by: <i>JCAR</i> Date: 2/9/22 Time: 1700					
Relinquished by: _____ Date: _____ Time: _____					
Relinquished by: _____ Date: _____ Time: _____					
Custody Seals Intact: _____ Custody Seal No. _____					
<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Special Instructions/QC Requirements:					
Received by: <i>Serna Worthington</i> Date/Time: 2-16-22 1035 Received by: _____ Date/Time: _____ Received by: _____ Date/Time: _____ Cooler Temperature(s) °C and Other Remarks:					



Chain of Custody Record

Client Information (Sub Contract Lab)		Lab P.M. Kuchadkar, Sachin G	Carrier Tracking No(s)	COC No. 860-10141.2
Client Contact: Kuchadkar, Sachin G		E-Mail: Sachin.Kuchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 2 of 2
Shipping/Receiving: Sachin.Kuchadkar@Eurofinset.com		Accreditations Required (See note): NELAP - Texas		
Company: TestAmerica Laboratories, Inc.		Job #: 860-20580-1		
Address: 13715 Rider Trail North, Earth City, MO, 63045		Preservation Codes:		
City: Earth City		A - HCL		
State, Zip: MO, 63045		B - NaOH		
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		C - Zn Acetate		
Email:		D - AsNaO2		
Project Name: San Miguel Electrical Co-Op 2H21 GW		E - Nitric Acid		
Site: 86001746		F - NaHSO4		
		G - Amchlor		
		H - Ascorbic Acid		
		I - Ice		
		J - DI Water		
		K - EDTA		
		L - EDA		
		M - Hexane		
		N - None		
		O - AsNaO2		
		P - Na2O4S		
		Q - Na2SO3		
		R - Na2SO3		
		S - H2SO4		
		T - TSP Dodecahydrate		
		U - Acetone		
		V - MCAA		
		W - pH 4-5		
		Z - other (specify)		
		Other:		

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastewater, BT=tissue, A=air)	Preservation Code	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	904/PreSep, 0 Standard Target List	Analysis Requested								Total Number of Containers	Special Instructions/Note:						
AP-36 (860-20580-8)	2/8/22	14:50 Central	Water	Water	X	X	X	1																
MW-03 (860-20580-9)	2/8/22	10:40 Central	Water	Water	X	X	X	1																
PZ-05 (860-20580-10)	2/8/22	13:30 Central	Water	Water	X	X	X	1																
PZ-06 (860-20580-11)	2/8/22	13:30 Central	Water	Water	X	X	X	1																
DUP-02 (860-20580-12)	2/8/22	13:00 Central	Water	Water	X	X	X	1																
FB-02 (860-20580-13)	2/8/22	13:35 Central	Water	Water	X	X	X	1																
EB-01 (860-20580-14)	2/8/22	13:50 Central	Water	Water	X	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 out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/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

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

Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2

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

Relinquished by: <i>YCP/S</i>	Date/Time: 2/9/22	Time: 1700	Company: FEDEX	Received by: FEDEX	Date/Time: _____	Company: _____
Relinquished by: _____	Date/Time: _____	Time: _____	Company: _____	Received by: <i>Sina Washington</i>	Date/Time: 2-10-22	Company: 1035
Relinquished by: _____	Date/Time: _____	Time: _____	Company: _____	Received by: _____	Date/Time: _____	Company: _____

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

Chain of Custody Record



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

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: 86001746

Lab Pmt: Kuchhadkar, Sachin G
E-Mail: Sachin.Kuchhadkar@Eurofins.com
Accreditations Required (See note): NELAP - Texas

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

COG No.: 860-10140-1
Page: Page 1 of 2
Job #: 860-20580-1
Preservation Codes:

Due Date Requested: 3/9/2022
TAT Requested (days):
Project #: 86001746
SSDW#:
Project Name: San Miguel Electrical Co-Op 2H21 GW
Site:

Analysis Requested

Field Filtered Sample (Yes or No):
Perform MS/MSD (Yes or No):
SM7500_Ra_B/Rad_Pre Radium 226

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 - AshKzO2
P - Na2OAS
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecyl/glyate
U - Acetone
V - MCAA
W - PH 4.5
Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)

Sample ID	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Seawater, On-wastewater, Bristle, Anal)	Preservation Code	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SM7500_Ra_B/Rad_Pre Radium 226	Total Number of containers	Special Instructions/Note:
PZ-02 (860-20580-1)	2/8/22	08:45	Central	Water		X			1	
PZ-03 (860-20580-2)	2/8/22	10:40	Central	Water		X			1	
PZ-03 (860-20580-2MS)	2/8/22	10:40	Central	Water		X			1	
PZ-03 (860-20580-2MSD)	2/8/22	10:40	Central	Water	MSD	X			1	
AP-31 (860-20580-3)	2/8/22	09:50	Central	Water		X			1	
AP-32 (860-20580-4)	2/8/22	11:45	Central	Water		X			1	
AP-33 (860-20580-5)	2/8/22	12:35	Central	Water		X			1	
AP-34 (860-20580-6)	2/8/22	14:25	Central	Water		X			1	
AP-35 (860-20580-7)	2/8/22	14:40	Central	Water		X			1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyze & accreditation compliance upon out 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/analyte 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: _____ Method of Shipment: _____

Relinquished by: _____ Date/Time: 2/9/22 1700 Company: _____ Received by: _____ Date/Time: _____ Company: _____

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

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

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

Client Cont ID

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

Chain of Custody Record



Environment Testing
 America

Client Information (Sub Contract Lab)	Sampler:	Lab Pkt:	Carrier Tracking No(s):	COC No:
Client Contact:	Phone:	Kudchadkar, Sachin G		860-10140.2
Shipping/Receiving:		E-Mail:	State of Origin:	Page:
Company:		Sachin.Kudchadkar@Eurofins.com	Texas	Page 2 of 2
Eurofins Eaton Analytical		Accreditations Required (See note):		Lab #:
		NELAP - Texas		860-20580-1
Address:	Due Date Requested:			Preservation Codes:
110 S Hill Street,	3/9/2022			A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amthior H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDTA M - Hexane N - None O - AsHClO2 P - Na2OAS Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4.5 Z - other (specify)
City:	TAT Requested (days):	Analysis Requested		
South Bend				
State Zip:				
IN, 46617				
Phone:	PO #:			
574-233-4777 (Tel) 574-233-8207 (Fax)				
Email:	WO #:			
Project Name:	Project #:			
San Miguel Electrical Co-Op 2H21 GW	86001746			
Site:	SSOW#:			

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix (Water, Soil, Oil, etc.)	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 (860-20580-8)	2/8/22	14:50	Central	Water	X			1	
MMW-03 (860-20580-9)	2/8/22	10:40	Central	Water	X			1	
PZ-05 (860-20580-10)	2/8/22	13:30	Central	Water	X			1	
PZ-06 (860-20580-11)	2/8/22	13:30	Central	Water	X			1	
DUP-02 (860-20580-12)	2/8/22	13:00	Central	Water	X			1	
FB-02 (860-20580-13)	2/8/22	13:35	Central	Water	X			1	
EB-01 (860-20580-14)	2/8/22	13:50	Central	Water	X			1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analytes/methods 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

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: <i>YCRS</i>	2/9/22	1700	
Relinquished by:	Date/Time:	Company:	Received by:
			<i>DM</i>
Relinquished by:	Date/Time:	Company:	Cooler Temperature(s) °C and Other Remarks:
			<i>AMBIONT</i>
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No.:		
			<i>1000</i>

Login Sample Receipt Checklist

Client: GSI Environmental, Inc

Job Number: 860-20580-1

Login Number: 20580

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: 860-20580-1

Login Number: 20580
List Number: 3
Creator: DePriest, Kellie

List Source: Eurofins Eaton South Bend
List Creation: 02/14/22 04:34 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Samples do not require splitting or compositing.	True	
Container provided by EEA	False	Client provided containers

Login Sample Receipt Checklist

Client: GSI Environmental, Inc

Job Number: 860-20580-1

Login Number: 20580
List Number: 2
Creator: Worthington, Sierra M

List Source: Eurofins St. Louis
List Creation: 02/11/22 09:30 AM

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	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 2022 Sampling Event (Job ID: 860-20586-1)

OVERVIEW

GSI Environmental Inc. (GSI) reviewed one data package from Eurofins Xenco located in Stafford, Texas (XEN STF) for the analysis of **six groundwater samples and one equipment blank collected at the Ash Pile on 8 February 2022** 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, XEN STF was National Environmental Laboratory Accreditation Program (NELAP)-accredited under the Texas Laboratory Accreditation Program (Certification Number: T104704215-21-44) for the matrices, analytes, and methods of analysis requested on the chain-of-custody documentation. A copy of XEN STF's 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. Analyses requested included:

- Method 6010C - Metals (Inductively Coupled Plasma (ICP))
- Method 300.0 – Anions, Ion Chromatography
- Method SM2320 B - 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 case narrative, 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

Six (6) groundwater samples and one (1) equipment blank 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 sample detection limit (SDL). Results between the SDL and sample quantitation limit (SQL) 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.

Finding: No qualifiers were added per these criteria.

Calibrations

The laboratory data package included “^+” qualifiers on Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD) results for calcium in preparation batch 860-41170 and analytical batch 860-41520. The qualifier was defined as meaning that the Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.

Finding: “J” qualifiers were added to detected calcium results and “UJ” qualifiers were added to non-detected calcium results because the CCV was outside specifications.

Blanks

Method (Laboratory) Blanks

- The method blank for analytical batch 860-41279 contained sulfate above the method detection limit (MDL). This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or reanalysis of samples was not performed by the laboratory. The laboratory flagged affected samples with a “B” Qualifier.
- The method blank for preparation batch 860-41170 and analytical batch 860-41520 contained boron above the MDL. This target analyte concentration was less than the RL; therefore, re-extraction and/or re-analysis of samples was not performed by the laboratory. The laboratory flagged affected samples with a “B” qualifier.

Equipment (Field) blank

- Sulfate, boron, and total dissolved solids (TDS) were detected in the equipment blank at concentrations above the MDL.

Finding: No additional qualifiers were added per this evaluation because the concentration in all affected samples was greater than five times (>5X) the concentration in the associated blank.

Internal Standard and Surrogate Recoveries (VOCs and SVOCs Only)

Not applicable.

Laboratory Control Samples

As noted above, the laboratory data package included “^+” qualifiers on LCS and LCSD results for calcium in preparation batch 41170 and analytical batch 41520. The qualifier was defined as meaning that the CCV is outside acceptance limits, high biased.

Finding: “J” qualifiers were added to detected calcium results and “UJ” qualifiers were added to non-detected calcium results because the CCV was outside specifications. As a result, no additional qualifiers were added per this evaluation.

Matrix Spike/Matrix Spike Duplicates and Laboratory Duplicates

The LRC indicated the following issues with matrix spike (MS)/matrix spike duplicate (MSD) data:

- The MS/MSD recoveries for sample SP-34 associated with analytical batch 860-41279 were outside control limits for chloride, fluoride, and sulfate. The associated LCS recovery met acceptance criteria, the spiking amount for chloride and sulfate is less than four times the result in the un-spiked parent sample, and only the MSD was marginally outside control limits for fluoride.
- Due to the high concentration of calcium, the MS/MSD for preparation batch 860-41504 and analytical batch 860-41960 could not be evaluated for accuracy and precision. The associated LCS met acceptance criteria and the spiking amount is less than four times the result in the un-spiked parent sample.

Findings: No qualifiers were added per this evaluation because the associated LCS recoveries met acceptance criteria and nearly all spiking amounts are less than four times the result in the un-spiked parent sample.

Field Duplicates (Field Precision)

A field duplicate identified as DUP-1 was collected for sample SP-02 during the field event. Field precision was calculated and the RPD was within the project-defined QC acceptance criteria, with the exception of calcium. A comparison of the field sample and the duplicate sample is shown in Table 3.

Finding: No additional qualifiers were added per these criteria because calcium results were already qualified due to the CCV that was outside specifications.

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 data were rejected based on this review and validation. However, a limited number of qualifiers were added to affected samples.

REFERENCES

- GSI Environmental, Inc., 2019, Groundwater Sampling and Analysis Plan, San Miguel Electric Cooperative, Inc., December 26.
- TCEQ 2010. Review and Reporting of COC Concentration Data under TRRP, RG-366/TRRP-13 https://www.tceq.texas.gov/assets/public/comm_exec/pubs/rg/rg-366-trrp-13.pdf

TABLES

TABLE 1
Cross-Reference Field Sample and Laboratory Identifications

Sample Date	Lab	Lab Sample ID	Field Sample ID	Matrix
02/08/2022	XEN STF	860-20586-1	SP-34	Water
02/08/2022	XEN STF	860-20586-2	SP-01	Water
02/08/2022	XEN STF	860-20586-3	SP-02	Water
02/08/2022	XEN STF	860-20586-4	SP-03	Water
02/08/2022	XEN STF	860-20586-5	SP-32	Water
02/08/2022	XEN STF	860-20586-6	DUP-1	Water
02/08/2022	XEN STF	860-20586-7	FB-01	Water

Notes:

1. XEN STF: Eurofins Xenco, Stafford, Texas

TABLE 2
Qualifiers Added During Data Usability Review

Sample ID	Analyte	Lab Result	Unit	DUS Qualifier or Bias Code	Reason for Qualification	Batch Number	Report Number
SP-34	Calcium	812	mg/L	J	CCV outside specifications	860-41960	860-20586
SP-01	Calcium	553	mg/L	J	CCV outside specifications	860-42269	860-20586
SP-02	Calcium	1010	mg/L	J	CCV outside specifications	860-42269	860-20586
SP-03	Calcium	2360	mg/L	J	CCV outside specifications	860-41871	860-20586
SP-32	Calcium	1260	mg/L	J	CCV outside specifications	860-41871	860-20586
DUP-01	Calcium	2730	mg/L	J	CCV outside specifications	860-41871	860-20586
FB-01	Calcium	1.47 U	mg/L	UJ	CCV outside specifications	860-41871	860-20586

Notes:

1. mg/L: milligrams per liter.
2. J: Estimated value.
3. U:: The result was not detected.
4. CCV: Continuing Calibration Verification

TABLE 3
Field Duplicate Detections

Analyte	MQL (MDL) (mg/L)	Primary Sample Result (mg/L)	Field Duplicate Result (mg/L)	Relative Percent Difference	Notes
SP-02 and DUP-01					
Chloride	2.0	3590	3500	2.54 %	A
Sulfate	1.09	2030 B	1980 B	2.50%	A
Boron	0.00343	10.7	11 B	2.77 %	A
Calcium	1.47	1010	2730	91.98 %	"J" flags issued
Total Alkalinity	4.0	48.2	44.2	8.66 %	A
Bicarbonate Alkalinity as CaCO ₃	4.0	48.2	44.2	8.66 %	A
Total Dissolved Solids	100	6660	7250	8.48 %	A

Notes:

1. MQL: Method Quantitation Limit
2. MDL: Method Detection Limit
3. mg/L: milligrams per liter
4. $RPD = (PR - FD) / AVERAGE(PR + FD) * 100$, where PR is the Primary Sample and FD is the Field Duplicate
5. A = Acceptable RPD.
6. B = The analyte was detected in the associated blank sample.
7. "J" flags = the RPD is outside specifications, detected results are estimated.
8. CaCO₃: Calcium carbonate

Attachment A

Eurofins Xenco, Stafford

TCEQ NELAP-Recognized Laboratory Accreditation Certificate



Texas Commission on Environmental Quality

NELAP-Recognized Laboratory Accreditation is hereby awarded to



Eurofins Xenco, LLC - Houston
4147 Greenbriar Drive
Stafford, TX 77477-3907

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: T104704215-21-44
Effective Date: 7/14/2021
Expiration Date: 6/30/2022

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

**Executive Director Texas Commission on
Environmental Quality**

Attachment B
Eurofins Xenco, Stafford
Analytical Report
Job ID.: 860-20586-1

ANALYTICAL REPORT

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Tel: (281)240-4200

Laboratory Job ID: 860-20586-1

Client Project/Site: San Miguel Electrical Co-Op 2H21 GW

For:

GSI Environmental, Inc
9600 Great Hills Trail
Suite 350E
Austin, Texas 78759

Attn: Mike Schofield



Authorized for release by:
2/28/2022 2:04:06 PM

Sachin Kudchadkar, Senior Project Manager
(713)690-4444
Sachin.Kudchadkar@Eurofinset.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:

www.eurofinsus.com/Env

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

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



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Definitions/Glossary

Client: GSI Environmental, Inc
Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20586-1

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.
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.
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

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)

Eurofins Houston

Definitions/Glossary

Client: GSI Environmental, Inc
Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20586-1

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

1

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14

Case Narrative

Client: GSI Environmental, Inc
Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20586-1

Job ID: 860-20586-1

Laboratory: Eurofins Houston

Narrative

Job Narrative 860-20586-1

Receipt

The samples were received on 2/9/2022 9:03 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 0.4°C

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for the following sample associated with analytical batch 860-41279 were outside control limits: SP-34 (860-20586-1) and SP-34 (860-20586-1[MSD]). The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method 300_ORGFM_28D: The method blank for analytical batch 860-41279 contained 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.

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

Metals

Method 6010C: The method blank for preparation batch 860-41170 and analytical batch 860-41520 contained aluminum and barium 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 6010C: Due to the high concentration of calcium, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 860-41504 and analytical batch 860-41960 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Method 6010C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 860-41504 and analytical batch 860-42269 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

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 2H21 GW

Job ID: 860-20586-1

Client Sample ID: SP-34

Lab Sample ID: 860-20586-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride - DL	3000		5.00	2.00	mg/L	10		300.0	Total/NA
Fluoride - DL	6.39	F1	5.00	1.00	mg/L	10		300.0	Total/NA
Sulfate - DL	2930	B	5.00	1.09	mg/L	10		300.0	Total/NA
Boron	10.7		0.0500	0.00343	mg/L	1		6010C	Total/NA
Calcium	812		10.0	1.47	mg/L	50		6010C	Total/NA
Total Dissolved Solids	9390		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SP-01

Lab Sample ID: 860-20586-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride - DL	3290		5.00	2.00	mg/L	10		300.0	Total/NA
Fluoride - DL	16.4		5.00	1.00	mg/L	10		300.0	Total/NA
Sulfate - DL2	7430	B	50.0	10.9	mg/L	100		300.0	Total/NA
Boron	4.85		0.0500	0.00343	mg/L	1		6010C	Total/NA
Calcium	553		10.0	1.47	mg/L	50		6010C	Total/NA
Total Dissolved Solids	15600		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SP-02

Lab Sample ID: 860-20586-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride - DL	3590		5.00	2.00	mg/L	10		300.0	Total/NA
Sulfate - DL	2030	B	5.00	1.09	mg/L	10		300.0	Total/NA
Boron	10.7		0.0500	0.00343	mg/L	1		6010C	Total/NA
Calcium	1010		10.0	1.47	mg/L	50		6010C	Total/NA
Total Alkalinity	48.2		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	48.2		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	6660		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SP-03

Lab Sample ID: 860-20586-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride - DL	4850		5.00	2.00	mg/L	10		300.0	Total/NA
Fluoride - DL	1.31	J	5.00	1.00	mg/L	10		300.0	Total/NA
Sulfate - DL	2750	B	5.00	1.09	mg/L	10		300.0	Total/NA
Boron	7.11	B	0.0500	0.00343	mg/L	1		6010C	Total/NA
Calcium	2360		10.0	1.47	mg/L	50		6010C	Total/NA
Total Dissolved Solids	9150		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SP-32

Lab Sample ID: 860-20586-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride - DL	1510		5.00	2.00	mg/L	10		300.0	Total/NA
Fluoride - DL	10.3		5.00	1.00	mg/L	10		300.0	Total/NA
Sulfate - DL2	6380	B	50.0	10.9	mg/L	100		300.0	Total/NA
Boron	6.22	B	0.0500	0.00343	mg/L	1		6010C	Total/NA
Calcium	1260		10.0	1.47	mg/L	50		6010C	Total/NA
Total Dissolved Solids	10000		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: DUP-01

Lab Sample ID: 860-20586-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride - DL	3500		5.00	2.00	mg/L	10		300.0	Total/NA
Sulfate - DL	1980	B	5.00	1.09	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 2H21 GW

Job ID: 860-20586-1

Client Sample ID: DUP-01 (Continued)

Lab Sample ID: 860-20586-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	11.0	B	0.0500	0.00343	mg/L	1		6010C	Total/NA
Calcium	2730		10.0	1.47	mg/L	50		6010C	Total/NA
Total Alkalinity	44.2		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	44.2		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	7250		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: FB-01

Lab Sample ID: 860-20586-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	0.231	J B	0.500	0.109	mg/L	1		300.0	Total/NA
Boron	0.00522	J B	0.0500	0.00343	mg/L	1		6010C	Total/NA
Total Dissolved Solids	149		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 2H21 GW

Job ID: 860-20586-1

Client Sample ID: SP-34

Lab Sample ID: 860-20586-1

Date Collected: 02/08/22 12:50

Matrix: Water

Date Received: 02/09/22 09:03

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3000		5.00	2.00	mg/L			02/12/22 20:11	10
Fluoride	6.39	F1	5.00	1.00	mg/L			02/12/22 20:11	10
Sulfate	2930	B	5.00	1.09	mg/L			02/12/22 20:11	10

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	10.7		0.0500	0.00343	mg/L		02/15/22 10:30	02/17/22 14:15	1
Calcium	812		10.0	1.47	mg/L		02/15/22 10:30	02/17/22 14:36	50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	4.00	U	4.00	4.00	mg/L			02/14/22 16:27	1
Bicarbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			02/14/22 16:27	1
Carbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			02/14/22 16:27	1
Hydroxide Alkalinity	4.00	U	4.00	4.00	mg/L			02/14/22 16:27	1
Total Dissolved Solids	9390		100	100	mg/L			02/15/22 11:10	1

Client Sample ID: SP-01

Lab Sample ID: 860-20586-2

Date Collected: 02/08/22 11:15

Matrix: Water

Date Received: 02/09/22 09:03

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3290		5.00	2.00	mg/L			02/12/22 20:58	10
Fluoride	16.4		5.00	1.00	mg/L			02/12/22 20:58	10

Method: 300.0 - Anions, Ion Chromatography - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	7430	B	50.0	10.9	mg/L			02/12/22 21:09	100

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	4.85		0.0500	0.00343	mg/L		02/15/22 10:30	02/21/22 10:10	1
Calcium	553		10.0	1.47	mg/L		02/15/22 10:30	02/21/22 12:28	50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	4.00	U	4.00	4.00	mg/L			02/15/22 14:52	1
Bicarbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			02/15/22 14:52	1
Carbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			02/15/22 14:52	1
Hydroxide Alkalinity	4.00	U	4.00	4.00	mg/L			02/15/22 14:52	1
Total Dissolved Solids	15600		100	100	mg/L			02/14/22 14:59	1

Client Sample ID: SP-02

Lab Sample ID: 860-20586-3

Date Collected: 02/08/22 12:00

Matrix: Water

Date Received: 02/09/22 09:03

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3590		5.00	2.00	mg/L			02/12/22 21:56	10
Fluoride	1.00	U	5.00	1.00	mg/L			02/12/22 21:56	10
Sulfate	2030	B	5.00	1.09	mg/L			02/12/22 21:56	10

Eurofins Houston

Client Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20586-1

Client Sample ID: SP-02

Lab Sample ID: 860-20586-3

Date Collected: 02/08/22 12:00

Matrix: Water

Date Received: 02/09/22 09:03

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	10.7		0.0500	0.00343	mg/L		02/15/22 10:30	02/21/22 10:14	1
Calcium	1010		10.0	1.47	mg/L		02/15/22 10:30	02/21/22 12:31	50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	48.2		4.00	4.00	mg/L			02/15/22 14:59	1
Bicarbonate Alkalinity as CaCO3	48.2		4.00	4.00	mg/L			02/15/22 14:59	1
Carbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			02/15/22 14:59	1
Hydroxide Alkalinity	4.00	U	4.00	4.00	mg/L			02/15/22 14:59	1
Total Dissolved Solids	6660		100	100	mg/L			02/14/22 14:59	1

Client Sample ID: SP-03

Lab Sample ID: 860-20586-4

Date Collected: 02/08/22 09:45

Matrix: Water

Date Received: 02/09/22 09:03

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4850		5.00	2.00	mg/L			02/12/22 22:08	10
Fluoride	1.31	J	5.00	1.00	mg/L			02/12/22 22:08	10
Sulfate	2750	B	5.00	1.09	mg/L			02/12/22 22:08	10

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	7.11	B	0.0500	0.00343	mg/L		02/11/22 11:00	02/15/22 01:58	1
Calcium	2360		10.0	1.47	mg/L		02/11/22 11:00	02/17/22 04:50	50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	4.00	U	4.00	4.00	mg/L			02/16/22 11:00	1
Bicarbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			02/16/22 11:00	1
Carbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			02/16/22 11:00	1
Hydroxide Alkalinity	4.00	U	4.00	4.00	mg/L			02/16/22 11:00	1
Total Dissolved Solids	9150		100	100	mg/L			02/14/22 14:59	1

Client Sample ID: SP-32

Lab Sample ID: 860-20586-5

Date Collected: 02/08/22 10:30

Matrix: Water

Date Received: 02/09/22 09:03

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1510		5.00	2.00	mg/L			02/12/22 22:31	10
Fluoride	10.3		5.00	1.00	mg/L			02/12/22 22:31	10

Method: 300.0 - Anions, Ion Chromatography - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	6380	B	50.0	10.9	mg/L			02/12/22 22:43	100

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	6.22	B	0.0500	0.00343	mg/L		02/11/22 11:00	02/15/22 02:02	1
Calcium	1260		10.0	1.47	mg/L		02/11/22 11:00	02/17/22 05:01	50

Eurofins Houston

Client Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20586-1

Client Sample ID: SP-32

Lab Sample ID: 860-20586-5

Date Collected: 02/08/22 10:30

Matrix: Water

Date Received: 02/09/22 09:03

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	4.00	U	4.00	4.00	mg/L			02/16/22 11:06	1
Bicarbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			02/16/22 11:06	1
Carbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			02/16/22 11:06	1
Hydroxide Alkalinity	4.00	U	4.00	4.00	mg/L			02/16/22 11:06	1
Total Dissolved Solids	10000		100	100	mg/L			02/14/22 14:59	1

Client Sample ID: DUP-01

Lab Sample ID: 860-20586-6

Date Collected: 02/08/22 11:00

Matrix: Water

Date Received: 02/09/22 09:03

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3500		5.00	2.00	mg/L			02/12/22 22:54	10
Fluoride	1.00	U	5.00	1.00	mg/L			02/12/22 22:54	10
Sulfate	1980	B	5.00	1.09	mg/L			02/12/22 22:54	10

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	11.0	B	0.0500	0.00343	mg/L		02/11/22 11:00	02/15/22 02:06	1
Calcium	2730		10.0	1.47	mg/L		02/11/22 11:00	02/17/22 05:05	50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	44.2		4.00	4.00	mg/L			02/16/22 11:12	1
Bicarbonate Alkalinity as CaCO3	44.2		4.00	4.00	mg/L			02/16/22 11:12	1
Carbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			02/16/22 11:12	1
Hydroxide Alkalinity	4.00	U	4.00	4.00	mg/L			02/16/22 11:12	1
Total Dissolved Solids	7250		100	100	mg/L			02/14/22 14:59	1

Client Sample ID: FB-01

Lab Sample ID: 860-20586-7

Date Collected: 02/08/22 09:55

Matrix: Water

Date Received: 02/09/22 09:03

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.200	U	0.500	0.200	mg/L			02/12/22 23:18	1
Fluoride	0.100	U	0.500	0.100	mg/L			02/12/22 23:18	1
Sulfate	0.231	J B	0.500	0.109	mg/L			02/12/22 23:18	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.00522	J B	0.0500	0.00343	mg/L		02/11/22 11:00	02/15/22 02:10	1
Calcium	1.47	U	10.0	1.47	mg/L		02/11/22 11:00	02/17/22 05:09	50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	149		5.00	5.00	mg/L			02/15/22 11:10	1

QC Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20586-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-41279/3
 Matrix: Water
 Analysis Batch: 41279

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			02/12/22 17:04	1
Fluoride	0.100	U	0.500	0.100	mg/L			02/12/22 17:04	1
Sulfate	0.1351	J	0.500	0.109	mg/L			02/12/22 17:04	1

Lab Sample ID: LCS 860-41279/4
 Matrix: Water
 Analysis Batch: 41279

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	9.729		mg/L		97	90 - 110
Fluoride	10.0	9.982		mg/L		100	90 - 110
Sulfate	10.0	9.398		mg/L		94	90 - 110

Lab Sample ID: LCSD 860-41279/5
 Matrix: Water
 Analysis Batch: 41279

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	9.784		mg/L		98	90 - 110	1	20
Fluoride	10.0	10.00		mg/L		100	90 - 110	0	20
Sulfate	10.0	9.363		mg/L		94	90 - 110	0	20

Method: 300.0 - Anions, Ion Chromatography - DL

Lab Sample ID: 860-20586-1 MS
 Matrix: Water
 Analysis Batch: 41279

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
Chloride - DL	3000		100	3140	4	mg/L		143	90 - 110
Fluoride - DL	6.39	F1	100	116.7		mg/L		110	90 - 110
Sulfate - DL	2930	B	100	3077	4	mg/L		148	90 - 110

Lab Sample ID: 860-20586-1 MSD
 Matrix: Water
 Analysis Batch: 41279

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 - DL	3000		100	3137	4	mg/L		141	90 - 110	0	20
Fluoride - DL	6.39	F1	100	117.6	F1	mg/L		111	90 - 110	1	20
Sulfate - DL	2930	B	100	3085	4	mg/L		156	90 - 110	0	20

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 860-40919/6-B
 Matrix: Water
 Analysis Batch: 41871

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 41170

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.00343	U	0.0500	0.00343	mg/L		02/11/22 11:00	02/17/22 05:12	1

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QC Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20586-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 860-40919/6-B
Matrix: Water
Analysis Batch: 41871

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 41170

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Calcium	0.0293	U	0.200	0.0293	mg/L		02/11/22 11:00	02/17/22 05:12	1

Lab Sample ID: MB 860-41170/1-A
Matrix: Water
Analysis Batch: 41520

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 41170

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Boron	0.004728	J	0.0500	0.00343	mg/L		02/11/22 11:00	02/15/22 00:36	1

Lab Sample ID: LCS 860-40919/7-B
Matrix: Water
Analysis Batch: 41871

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 41170

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD
Calcium	25.0	26.50		mg/L		106	80 - 120	

Lab Sample ID: LCS 860-41170/2-A
Matrix: Water
Analysis Batch: 41520

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 41170

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD
Calcium	25.0	25.44	^+	mg/L		102	80 - 120	

Lab Sample ID: LCSD 860-40919/8-B
Matrix: Water
Analysis Batch: 41871

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 41170

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Calcium	25.0	26.47		mg/L		106	80 - 120	0	20

Lab Sample ID: LCSD 860-41170/3-A
Matrix: Water
Analysis Batch: 41520

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 41170

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Calcium	25.0	25.71	^+	mg/L		103	80 - 120	1	20

Lab Sample ID: MB 860-41504/1-A
Matrix: Water
Analysis Batch: 41960

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 41504

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Boron	0.00343	U	0.0500	0.00343	mg/L		02/15/22 10:29	02/17/22 14:04	1
Calcium	0.0293	U	0.200	0.0293	mg/L		02/15/22 10:29	02/17/22 14:04	1

QC Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20586-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 860-41504/1-A
Matrix: Water
Analysis Batch: 42269

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 41504

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Boron	0.00343	U	0.0500	0.00343	mg/L		02/15/22 10:29	02/21/22 09:49	1
Calcium	0.0293	U	0.200	0.0293	mg/L		02/15/22 10:29	02/21/22 09:49	1

Lab Sample ID: LCS 860-41504/2-A
Matrix: Water
Analysis Batch: 41960

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 41504

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	
							Limits	
Boron	1.00	0.9820		mg/L		98	80 - 120	
Calcium	25.0	24.59		mg/L		98	80 - 120	

Lab Sample ID: LCS 860-41504/2-A
Matrix: Water
Analysis Batch: 42269

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 41504

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	
							Limits	
Boron	1.00	0.9913		mg/L		99	80 - 120	
Calcium	25.0	24.91		mg/L		100	80 - 120	

Lab Sample ID: LCSD 860-41504/3-A
Matrix: Water
Analysis Batch: 41960

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 41504

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	
							Limits		RPD	Limit
Boron	1.00	0.9818		mg/L		98	80 - 120	0	20	
Calcium	25.0	24.39		mg/L		98	80 - 120	1	20	

Lab Sample ID: LCSD 860-41504/3-A
Matrix: Water
Analysis Batch: 42269

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 41504

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	
							Limits		RPD	Limit
Boron	1.00	1.007		mg/L		101	80 - 120	2	20	
Calcium	25.0	25.37		mg/L		101	80 - 120	2	20	

Lab Sample ID: 860-20586-1 MS
Matrix: Water
Analysis Batch: 41960

Client Sample ID: SP-34
Prep Type: Total/NA
Prep Batch: 41504

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec.	
									Limits	
Boron	10.7		1.00	10.74	4	mg/L		5	75 - 125	
Calcium	713	E	25.0	672.9	E 4	mg/L		-159	75 - 125	

Lab Sample ID: 860-20586-1 MSD
Matrix: Water
Analysis Batch: 41960

Client Sample ID: SP-34
Prep Type: Total/NA
Prep Batch: 41504

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec.		RPD	
									Limits		RPD	Limit
Boron	10.7		1.00	10.93	4	mg/L		23	75 - 125	2	20	
Calcium	713	E	25.0	679.1	E 4	mg/L		-134	75 - 125	1	20	

Eurofins Houston

QC Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20586-1

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-41462/3
Matrix: Water
Analysis Batch: 41462

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			02/14/22 13:29	1
Bicarbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			02/14/22 13:29	1
Carbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			02/14/22 13:29	1
Hydroxide Alkalinity	4.00	U	4.00	4.00	mg/L			02/14/22 13:29	1

Lab Sample ID: LCS 860-41462/4
Matrix: Water
Analysis Batch: 41462

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 Alkalinity	250	254.1		mg/L		102	85 - 115		

Lab Sample ID: LCSD 860-41462/5
Matrix: Water
Analysis Batch: 41462

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	256.7		mg/L		103	85 - 115	1	20

Lab Sample ID: MB 860-41584/3
Matrix: Water
Analysis Batch: 41584

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			02/15/22 11:32	1
Bicarbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			02/15/22 11:32	1
Carbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			02/15/22 11:32	1
Hydroxide Alkalinity	4.00	U	4.00	4.00	mg/L			02/15/22 11:32	1

Lab Sample ID: LCS 860-41584/4
Matrix: Water
Analysis Batch: 41584

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 Alkalinity	250	266.0		mg/L		106	85 - 115		

Lab Sample ID: LCSD 860-41584/5
Matrix: Water
Analysis Batch: 41584

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	268.1		mg/L		107	85 - 115	1	20

Lab Sample ID: MB 860-41738/3
Matrix: Water
Analysis Batch: 41738

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			02/16/22 10:19	1
Bicarbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			02/16/22 10:19	1

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QC Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20586-1

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: MB 860-41738/3
Matrix: Water
Analysis Batch: 41738

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Carbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			02/16/22 10:19	1
Hydroxide Alkalinity	4.00	U	4.00	4.00	mg/L			02/16/22 10:19	1

Lab Sample ID: LCS 860-41738/4
Matrix: Water
Analysis Batch: 41738

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Total Alkalinity	250	244.3		mg/L		98	85 - 115		

Lab Sample ID: LCSD 860-41738/5
Matrix: Water
Analysis Batch: 41738

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Total Alkalinity	250	246.6		mg/L		99	85 - 115	1	20

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

Lab Sample ID: MB 860-41424/1
Matrix: Water
Analysis Batch: 41424

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			02/14/22 14:59	1

Lab Sample ID: LCS 860-41424/2
Matrix: Water
Analysis Batch: 41424

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Total Dissolved Solids	1000	1100		mg/L		110	80 - 120		

Lab Sample ID: LCSD 860-41424/3
Matrix: Water
Analysis Batch: 41424

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Total Dissolved Solids	1000	1102		mg/L		110	80 - 120	0	10

Lab Sample ID: MB 860-41515/1
Matrix: Water
Analysis Batch: 41515

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			02/15/22 11:10	1

QC Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20586-1

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

Lab Sample ID: LCS 860-41515/2
Matrix: Water
Analysis Batch: 41515

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	1063		mg/L		106	80 - 120

Lab Sample ID: LCSD 860-41515/3
Matrix: Water
Analysis Batch: 41515

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	1003		mg/L		100	80 - 120	6	10

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

QC Association Summary

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20586-1

HPLC/IC

Analysis Batch: 41279

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-20586-1 - DL	SP-34	Total/NA	Water	300.0	
860-20586-2 - DL	SP-01	Total/NA	Water	300.0	
860-20586-2 - DL2	SP-01	Total/NA	Water	300.0	
860-20586-3 - DL	SP-02	Total/NA	Water	300.0	
860-20586-4 - DL	SP-03	Total/NA	Water	300.0	
860-20586-5 - DL	SP-32	Total/NA	Water	300.0	
860-20586-5 - DL2	SP-32	Total/NA	Water	300.0	
860-20586-6 - DL	DUP-01	Total/NA	Water	300.0	
860-20586-7	FB-01	Total/NA	Water	300.0	
MB 860-41279/3	Method Blank	Total/NA	Water	300.0	
LCS 860-41279/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-41279/5	Lab Control Sample Dup	Total/NA	Water	300.0	
860-20586-1 MS - DL	SP-34	Total/NA	Water	300.0	
860-20586-1 MSD - DL	SP-34	Total/NA	Water	300.0	

Metals

Filtration Batch: 40919

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-40919/6-B	Method Blank	Total/NA	Water	Filtration	
LCS 860-40919/7-B	Lab Control Sample	Total/NA	Water	Filtration	
LCSD 860-40919/8-B	Lab Control Sample Dup	Total/NA	Water	Filtration	

Prep Batch: 41170

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-20586-4	SP-03	Total/NA	Water	3010A	
860-20586-5	SP-32	Total/NA	Water	3010A	
860-20586-6	DUP-01	Total/NA	Water	3010A	
860-20586-7	FB-01	Total/NA	Water	3010A	
MB 860-40919/6-B	Method Blank	Total/NA	Water	3010A	40919
MB 860-41170/1-A	Method Blank	Total/NA	Water	3010A	
LCS 860-40919/7-B	Lab Control Sample	Total/NA	Water	3010A	40919
LCS 860-41170/2-A	Lab Control Sample	Total/NA	Water	3010A	
LCSD 860-40919/8-B	Lab Control Sample Dup	Total/NA	Water	3010A	40919
LCSD 860-41170/3-A	Lab Control Sample Dup	Total/NA	Water	3010A	

Prep Batch: 41504

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-20586-1	SP-34	Total/NA	Water	3010A	
860-20586-2	SP-01	Total/NA	Water	3010A	
860-20586-3	SP-02	Total/NA	Water	3010A	
MB 860-41504/1-A	Method Blank	Total/NA	Water	3010A	
LCS 860-41504/2-A	Lab Control Sample	Total/NA	Water	3010A	
LCSD 860-41504/3-A	Lab Control Sample Dup	Total/NA	Water	3010A	
860-20586-1 MS	SP-34	Total/NA	Water	3010A	
860-20586-1 MSD	SP-34	Total/NA	Water	3010A	

Analysis Batch: 41520

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-20586-4	SP-03	Total/NA	Water	6010C	41170
860-20586-5	SP-32	Total/NA	Water	6010C	41170

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QC Association Summary

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20586-1

Metals (Continued)

Analysis Batch: 41520 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-20586-6	DUP-01	Total/NA	Water	6010C	41170
860-20586-7	FB-01	Total/NA	Water	6010C	41170
MB 860-41170/1-A	Method Blank	Total/NA	Water	6010C	41170
LCS 860-41170/2-A	Lab Control Sample	Total/NA	Water	6010C	41170
LCSD 860-41170/3-A	Lab Control Sample Dup	Total/NA	Water	6010C	41170

Analysis Batch: 41871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-20586-4	SP-03	Total/NA	Water	6010C	41170
860-20586-5	SP-32	Total/NA	Water	6010C	41170
860-20586-6	DUP-01	Total/NA	Water	6010C	41170
860-20586-7	FB-01	Total/NA	Water	6010C	41170
MB 860-40919/6-B	Method Blank	Total/NA	Water	6010C	41170
LCS 860-40919/7-B	Lab Control Sample	Total/NA	Water	6010C	41170
LCSD 860-40919/8-B	Lab Control Sample Dup	Total/NA	Water	6010C	41170

Analysis Batch: 41960

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-20586-1	SP-34	Total/NA	Water	6010C	41504
860-20586-1	SP-34	Total/NA	Water	6010C	41504
MB 860-41504/1-A	Method Blank	Total/NA	Water	6010C	41504
LCS 860-41504/2-A	Lab Control Sample	Total/NA	Water	6010C	41504
LCSD 860-41504/3-A	Lab Control Sample Dup	Total/NA	Water	6010C	41504
860-20586-1 MS	SP-34	Total/NA	Water	6010C	41504
860-20586-1 MSD	SP-34	Total/NA	Water	6010C	41504

Analysis Batch: 42269

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-20586-2	SP-01	Total/NA	Water	6010C	41504
860-20586-2	SP-01	Total/NA	Water	6010C	41504
860-20586-3	SP-02	Total/NA	Water	6010C	41504
860-20586-3	SP-02	Total/NA	Water	6010C	41504
MB 860-41504/1-A	Method Blank	Total/NA	Water	6010C	41504
LCS 860-41504/2-A	Lab Control Sample	Total/NA	Water	6010C	41504
LCSD 860-41504/3-A	Lab Control Sample Dup	Total/NA	Water	6010C	41504

General Chemistry

Analysis Batch: 41424

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-20586-2	SP-01	Total/NA	Water	SM 2540C	
860-20586-3	SP-02	Total/NA	Water	SM 2540C	
860-20586-4	SP-03	Total/NA	Water	SM 2540C	
860-20586-5	SP-32	Total/NA	Water	SM 2540C	
860-20586-6	DUP-01	Total/NA	Water	SM 2540C	
MB 860-41424/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-41424/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-41424/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	

QC Association Summary

Client: GSI Environmental, Inc
Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20586-1

General Chemistry

Analysis Batch: 41462

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-20586-1	SP-34	Total/NA	Water	SM 2320B	
MB 860-41462/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-41462/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-41462/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Analysis Batch: 41515

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-20586-1	SP-34	Total/NA	Water	SM 2540C	
860-20586-7	FB-01	Total/NA	Water	SM 2540C	
MB 860-41515/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-41515/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-41515/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	

Analysis Batch: 41584

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-20586-2	SP-01	Total/NA	Water	SM 2320B	
860-20586-3	SP-02	Total/NA	Water	SM 2320B	
MB 860-41584/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-41584/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-41584/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Analysis Batch: 41738

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-20586-4	SP-03	Total/NA	Water	SM 2320B	
860-20586-5	SP-32	Total/NA	Water	SM 2320B	
860-20586-6	DUP-01	Total/NA	Water	SM 2320B	
MB 860-41738/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-41738/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-41738/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Lab Chronicle

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20586-1

Client Sample ID: SP-34

Lab Sample ID: 860-20586-1

Date Collected: 02/08/22 12:50

Matrix: Water

Date Received: 02/09/22 09:03

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	DL	10			41279	02/12/22 20:11	WP	XEN STF
Total/NA	Prep	3010A			50 mL	50 mL	41504	02/15/22 10:30	PB	XEN STF
Total/NA	Analysis	6010C		1			41960	02/17/22 14:15	AV	XEN STF
Total/NA	Prep	3010A			50 mL	50 mL	41504	02/15/22 10:30	PB	XEN STF
Total/NA	Analysis	6010C		50			41960	02/17/22 14:36	AV	XEN STF
Total/NA	Analysis	SM 2320B		1			41462	02/14/22 16:27	TL	XEN STF
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	41515	02/15/22 11:10	ADL	XEN STF

Client Sample ID: SP-01

Lab Sample ID: 860-20586-2

Date Collected: 02/08/22 11:15

Matrix: Water

Date Received: 02/09/22 09:03

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	DL	10			41279	02/12/22 20:58	WP	XEN STF
Total/NA	Analysis	300.0	DL2	100			41279	02/12/22 21:09	WP	XEN STF
Total/NA	Prep	3010A			50 mL	50 mL	41504	02/15/22 10:30	PB	XEN STF
Total/NA	Analysis	6010C		1			42269	02/21/22 10:10	AV	XEN STF
Total/NA	Prep	3010A			50 mL	50 mL	41504	02/15/22 10:30	PB	XEN STF
Total/NA	Analysis	6010C		50			42269	02/21/22 12:28	AV	XEN STF
Total/NA	Analysis	SM 2320B		1			41584	02/15/22 14:52	TL	XEN STF
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	41424	02/14/22 14:59	ADL	XEN STF

Client Sample ID: SP-02

Lab Sample ID: 860-20586-3

Date Collected: 02/08/22 12:00

Matrix: Water

Date Received: 02/09/22 09:03

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	DL	10			41279	02/12/22 21:56	WP	XEN STF
Total/NA	Prep	3010A			50 mL	50 mL	41504	02/15/22 10:30	PB	XEN STF
Total/NA	Analysis	6010C		1			42269	02/21/22 10:14	AV	XEN STF
Total/NA	Prep	3010A			50 mL	50 mL	41504	02/15/22 10:30	PB	XEN STF
Total/NA	Analysis	6010C		50			42269	02/21/22 12:31	AV	XEN STF
Total/NA	Analysis	SM 2320B		1			41584	02/15/22 14:59	TL	XEN STF
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	41424	02/14/22 14:59	ADL	XEN STF

Client Sample ID: SP-03

Lab Sample ID: 860-20586-4

Date Collected: 02/08/22 09:45

Matrix: Water

Date Received: 02/09/22 09:03

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	DL	10			41279	02/12/22 22:08	WP	XEN STF
Total/NA	Prep	3010A			50 mL	50 mL	41170	02/11/22 11:00	MD	XEN STF
Total/NA	Analysis	6010C		1			41520	02/15/22 01:58	AV	XEN STF

Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20586-1

Client Sample ID: SP-03

Lab Sample ID: 860-20586-4

Date Collected: 02/08/22 09:45

Matrix: Water

Date Received: 02/09/22 09:03

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	41170	02/11/22 11:00	MD	XEN STF
Total/NA	Analysis	6010C		50			41871	02/17/22 04:50	AV	XEN STF
Total/NA	Analysis	SM 2320B		1			41738	02/16/22 11:00	TL	XEN STF
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	41424	02/14/22 14:59	ADL	XEN STF

Client Sample ID: SP-32

Lab Sample ID: 860-20586-5

Date Collected: 02/08/22 10:30

Matrix: Water

Date Received: 02/09/22 09:03

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	DL	10			41279	02/12/22 22:31	WP	XEN STF
Total/NA	Analysis	300.0	DL2	100			41279	02/12/22 22:43	WP	XEN STF
Total/NA	Prep	3010A			50 mL	50 mL	41170	02/11/22 11:00	MD	XEN STF
Total/NA	Analysis	6010C		1			41520	02/15/22 02:02	AV	XEN STF
Total/NA	Prep	3010A			50 mL	50 mL	41170	02/11/22 11:00	MD	XEN STF
Total/NA	Analysis	6010C		50			41871	02/17/22 05:01	AV	XEN STF
Total/NA	Analysis	SM 2320B		1			41738	02/16/22 11:06	TL	XEN STF
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	41424	02/14/22 14:59	ADL	XEN STF

Client Sample ID: DUP-01

Lab Sample ID: 860-20586-6

Date Collected: 02/08/22 11:00

Matrix: Water

Date Received: 02/09/22 09:03

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	DL	10			41279	02/12/22 22:54	WP	XEN STF
Total/NA	Prep	3010A			50 mL	50 mL	41170	02/11/22 11:00	MD	XEN STF
Total/NA	Analysis	6010C		1			41520	02/15/22 02:06	AV	XEN STF
Total/NA	Prep	3010A			50 mL	50 mL	41170	02/11/22 11:00	MD	XEN STF
Total/NA	Analysis	6010C		50			41871	02/17/22 05:05	AV	XEN STF
Total/NA	Analysis	SM 2320B		1			41738	02/16/22 11:12	TL	XEN STF
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	41424	02/14/22 14:59	ADL	XEN STF

Client Sample ID: FB-01

Lab Sample ID: 860-20586-7

Date Collected: 02/08/22 09:55

Matrix: Water

Date Received: 02/09/22 09:03

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		1			41279	02/12/22 23:18	WP	XEN STF
Total/NA	Prep	3010A			50 mL	50 mL	41170	02/11/22 11:00	MD	XEN STF
Total/NA	Analysis	6010C		1			41520	02/15/22 02:10	AV	XEN STF
Total/NA	Prep	3010A			50 mL	50 mL	41170	02/11/22 11:00	MD	XEN STF
Total/NA	Analysis	6010C		50			41871	02/17/22 05:09	AV	XEN STF
Total/NA	Analysis	SM 2540C		1	200 mL	200 mL	41515	02/15/22 11:10	ADL	XEN STF

Eurofins Houston

Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20586-1

Laboratory References:

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

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Accreditation/Certification Summary

Client: GSI Environmental, Inc
Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20586-1

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	T104704215-21-44	06-30-22

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 CaCO ₃
SM 2320B		Water	Carbonate Alkalinity as CaCO ₃
SM 2320B		Water	Hydroxide Alkalinity

Method Summary

Client: GSI Environmental, Inc
Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-20586-1

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	XEN STF
6010C	Metals (ICP)	SW846	XEN STF
SM 2320B	Alkalinity	SM	XEN STF
SM 2540C	Solids, Total Dissolved (TDS)	SM	XEN STF
3010A	Preparation, Total Metals	SW846	XEN STF

Protocol References:

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

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

XEN STF = 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 2H21 GW

Job ID: 860-20586-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-20586-1	SP-34	Water	02/08/22 12:50	02/09/22 09:03
860-20586-2	SP-01	Water	02/08/22 11:15	02/09/22 09:03
860-20586-3	SP-02	Water	02/08/22 12:00	02/09/22 09:03
860-20586-4	SP-03	Water	02/08/22 09:45	02/09/22 09:03
860-20586-5	SP-32	Water	02/08/22 10:30	02/09/22 09:03
860-20586-6	DUP-01	Water	02/08/22 11:00	02/09/22 09:03
860-20586-7	FB-01	Water	02/08/22 09:55	02/09/22 09:03

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Chain of Custody Record

Client Information		Sampler: <i>Scott Wade + HMI Team</i>		Lab PM: Kutchadkar Sachin G	Carrier Tracking No(s): 860-3614-1220.1	
Client Contact: Mike Schofield		Phone: 832-347-4521		E-Mail: Sachin.Kutchadkar@Eurofins.com	Pages: 1 of 1	
Company: GSI Environmental, Inc		PWSID:		Job #:		
Address: 9600 Great Hills Trail Suite 350E		Due Date Requested:		Preservation Codes:		
City: Austin		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		
State, Zip: TX, 78759		Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		M Hexane N None O AsNaO2 P Na2OAS Q Na2SO3 R H2SO4 S H2SO4 T TSP Dodecylhydrate U Acetone V MCAA W PH 4-5 Z other (specify)		
Phone: 512-346-4474 (Tel) 512-346-4476 (Fax)		PO #:		Total Number of Containers: <input checked="" type="checkbox"/>		
Email: mlschofield@gsi-net.com		WO #:		Special Instructions/Note:		
Project Name: 1122 G.W San Miguel Electrical Co-Op PH 4-5		Project #: 86001746		Temp 0 2 IR ID HOU-323 C/F +0.2 Corrected Temp: 04		
Site: Ash Pile		SSOW#: _____		Barcode: 860-20586 Chain of Custody		
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=water/soil, etc.)	Field Filtered Sample (Yes or No)	Analysis Requested
SP-34	2/18/22	1250	G	Water	N	2220B, Alkalinity
SP-34 (MS)		↓		Water	Y	2640C, TDS
SP-34 (MSD)		↓		Water	Y	5010C, B, Ca
SP-01		1115		Water	✓	300-O, F, SO4
SP-02		1200		Water	✓	
SP-03		945		Water	✓	
SP-32		1030		Water	✓	
DUP-01		1100		Water	✓	
FB-01		955		Water	✓	
				Water	✓	
				Water	✓	

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological
 Deliverable Requested: I III, IV Other (specify)

Empty Kit Relinquished by: _____
 Relinquished by: *Michael* Date: 2-24-22
 Relinquished by: _____ Date: 9-03
 Relinquished by: _____ Date: _____

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:

Method of Shipment: *Cons Drop-off*
 Received by: *Y. C. P.* Date/Time: 2/19/22 903-EX
 Received by: _____ Date/Time: _____
 Received by: _____ Date/Time: _____

Cooler Temperature(s) °C and Other Remarks:



Login Sample Receipt Checklist

Client: GSI Environmental, Inc

Job Number: 860-20586-1

Login Number: 20586

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	

DATA USABILITY SUMMARY

April 2022 Resampling Event (Job ID: 860-24845-1)

OVERVIEW

GSI Environmental Inc. (GSI) reviewed one data package from Eurofins Xenco located in Stafford, Texas (XEN STF) for the analysis of **three groundwater samples and collected at the Ash Pile on 20 April 2022** 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, XEN STF was National Environmental Laboratory Accreditation Program (NELAP)-accredited under the Texas Laboratory Accreditation Program (Certification Number: T104704215-21-44) for the matrices, analytes, and methods of analysis requested on the chain-of-custody documentation. A copy of XEN STF's 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. Analyses requested included:

- Method 6020A - Metals [Inductively Coupled Plasma (ICP)/Mass Spectrometry (MS)], and
- 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 LCN and reportable data included in this review are attached to this DUS as Attachment B.

INTRODUCTION

Three (3) groundwater 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 sample detection limit (SDL). Results between the SDL and sample quantitation limit (SQL) 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.

Finding: No qualifiers were added per this evaluation.

Calibrations

No calibration issues were identified in the LCN or during review of the laboratory data package.

Finding: No qualifiers were added per this evaluation.

Blanks

Method (Laboratory) Blanks

- The method blank for preparation batch 860-49934 and analytical batch 860-50105 contained Calcium above the MDL. This target analyte concentration was less than half the reporting limit; therefore, re-analysis of samples was not performed by the laboratory. No qualifiers were added because none of the affected samples were detected at concentrations that were less than five times the blank concentration.

Finding: No qualifiers were added per this evaluation.

Internal Standard and Surrogate Recoveries (VOCs and SVOCs Only)

Not applicable.

Laboratory Control Samples

No issues with Laboratory Control Samples (LCS) or Laboratory Control Sample Duplicates (LCSD) were identified in the LCN or during review of the laboratory data package

Finding: No qualifiers were added per this evaluation.

Matrix Spike/Matrix Spike Duplicates and Laboratory Duplicates

No issues with matrix spike (MS)/matrix spike duplicate (MSD) data were identified in the LCN or during review of the laboratory data package.

Findings: No qualifiers were added per this evaluation.

Field Duplicates (Field Precision)

No field duplicates were collected with samples from this data package.

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, and no data were qualified.

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
04/20/2022	XEN STF	860-24845-1	SP-03	Water
04/20/2022	XEN STF	860-24845-2	SP-32	Water
04/20/2022	XEN STF	860-24845-3	SP-34	Water

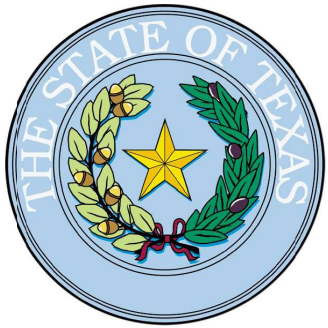
Notes:

1. XEN STF: Eurofins Xenco, Stafford, Texas

Attachment A

Eurofins Xenco, Stafford

TCEQ NELAP-Recognized Laboratory Accreditation Certificate



Texas Commission on Environmental Quality

NELAP-Recognized Laboratory Accreditation is hereby awarded to



Eurofins Xenco, LLC - Houston
4147 Greenbriar Drive
Stafford, TX 77477-3907

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: T104704215-21-44
Effective Date: 7/14/2021
Expiration Date: 6/30/2022

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

**Executive Director Texas Commission on
Environmental Quality**

Attachment B

Eurofins Xenco, Stafford

Analytical Report

Job ID.: 860-24845-1

ANALYTICAL REPORT

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Tel: (281)240-4200

Laboratory Job ID: 860-24845-1

Client Project/Site: San Miguel Electrical Co-Op 2H21 GW

For:

GSI Environmental, Inc
9600 Great Hills Trail
Suite 350E
Austin, Texas 78759

Attn: Mike Schofield



Authorized for release by:
4/28/2022 3:03:55 PM

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

LINKS

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www.eurofinsus.com/Env

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

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



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Definitions/Glossary

Client: GSI Environmental, Inc
Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-24845-1

Qualifiers

Metals

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.

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 2H21 GW

Job ID: 860-24845-1

Job ID: 860-24845-1

Laboratory: Eurofins Houston

Narrative

**Job Narrative
860-24845-1**

Receipt

The samples were received on 4/21/2022 9:14 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.1°C

Metals

Method 6020A: The method blank for preparation batch 860-49934 and analytical batch 860-50105 contained Calcium above the method detection limit. This target analyte concentration was less than half the reporting limit (1/2RL); therefore re-analysis of samples was not performed.

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 2H21 GW

Job ID: 860-24845-1

Client Sample ID: SP-03

Lab Sample ID: 860-24845-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	828		5.00	0.862	mg/L	50		6020A	Total/NA

Client Sample ID: SP-32

Lab Sample ID: 860-24845-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	453		5.00	0.862	mg/L	50		6020A	Total/NA

Client Sample ID: SP-34

Lab Sample ID: 860-24845-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	8080		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 2H21 GW

Job ID: 860-24845-1

Client Sample ID: SP-03

Lab Sample ID: 860-24845-1

Date Collected: 04/20/22 14:55

Matrix: Water

Date Received: 04/21/22 09:14

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	828		5.00	0.862	mg/L		04/22/22 10:00	04/23/22 17:18	50

Client Sample ID: SP-32

Lab Sample ID: 860-24845-2

Date Collected: 04/20/22 14:30

Matrix: Water

Date Received: 04/21/22 09:14

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	453		5.00	0.862	mg/L		04/22/22 10:00	04/23/22 17:22	50

Client Sample ID: SP-34

Lab Sample ID: 860-24845-3

Date Collected: 04/20/22 13:50

Matrix: Water

Date Received: 04/21/22 09:14

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	8080		100	100	mg/L			04/27/22 12:46	1



QC Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-24845-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 860-49934/1-A
 Matrix: Water
 Analysis Batch: 50105

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 49934

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	0.01942	J	0.100	0.0172	mg/L		04/22/22 10:00	04/22/22 22:22	1

Lab Sample ID: LCS 860-49934/2-A
 Matrix: Water
 Analysis Batch: 50105

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 49934

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	2.50	2.698		mg/L		108	80 - 120

Lab Sample ID: LCSD 860-49934/3-A
 Matrix: Water
 Analysis Batch: 50105

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 49934

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	2.50	2.769		mg/L		111	80 - 120	3	20

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

Lab Sample ID: MB 860-50574/1
 Matrix: Water
 Analysis Batch: 50574

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			04/27/22 12:46	1

Lab Sample ID: LCS 860-50574/2
 Matrix: Water
 Analysis Batch: 50574

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	1134		mg/L		113	80 - 120

Lab Sample ID: LCSD 860-50574/3
 Matrix: Water
 Analysis Batch: 50574

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	1178		mg/L		118	80 - 120	4	10

Lab Sample ID: LLCS 860-50574/4
 Matrix: Water
 Analysis Batch: 50574

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: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-24845-1

Metals

Prep Batch: 49934

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-24845-1	SP-03	Total/NA	Water	3010A	
860-24845-2	SP-32	Total/NA	Water	3010A	
MB 860-49934/1-A	Method Blank	Total/NA	Water	3010A	
LCS 860-49934/2-A	Lab Control Sample	Total/NA	Water	3010A	
LCSD 860-49934/3-A	Lab Control Sample Dup	Total/NA	Water	3010A	

Analysis Batch: 50105

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-49934/1-A	Method Blank	Total/NA	Water	6020A	49934
LCS 860-49934/2-A	Lab Control Sample	Total/NA	Water	6020A	49934
LCSD 860-49934/3-A	Lab Control Sample Dup	Total/NA	Water	6020A	49934

Analysis Batch: 50207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-24845-1	SP-03	Total/NA	Water	6020A	49934
860-24845-2	SP-32	Total/NA	Water	6020A	49934

General Chemistry

Analysis Batch: 50574

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-24845-3	SP-34	Total/NA	Water	SM 2540C	
MB 860-50574/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-50574/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-50574/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
LLCS 860-50574/4	Lab Control Sample	Total/NA	Water	SM 2540C	

Lab Chronicle

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-24845-1

Client Sample ID: SP-03

Lab Sample ID: 860-24845-1

Date Collected: 04/20/22 14:55

Matrix: Water

Date Received: 04/21/22 09:14

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			50 mL	50 mL	49934	04/22/22 10:00	MD	XEN STF
Total/NA	Analysis	6020A		50			50207	04/23/22 17:18	SHZ	XEN STF

Client Sample ID: SP-32

Lab Sample ID: 860-24845-2

Date Collected: 04/20/22 14:30

Matrix: Water

Date Received: 04/21/22 09:14

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			50 mL	50 mL	49934	04/22/22 10:00	MD	XEN STF
Total/NA	Analysis	6020A		50			50207	04/23/22 17:22	SHZ	XEN STF

Client Sample ID: SP-34

Lab Sample ID: 860-24845-3

Date Collected: 04/20/22 13:50

Matrix: Water

Date Received: 04/21/22 09:14

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	50574	04/27/22 12:46	MCA	XEN STF

Laboratory References:

XEN STF = 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 2H21 GW

Job ID: 860-24845-1

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	T104704215-21-44	06-30-22

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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- 10
- 11
- 12
- 13
- 14

Method Summary

Client: GSI Environmental, Inc
Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-24845-1

Method	Method Description	Protocol	Laboratory
6020A	Metals (ICP/MS)	SW846	XEN STF
SM 2540C	Solids, Total Dissolved (TDS)	SM	XEN STF
3010A	Preparation, Total Metals	SW846	XEN STF

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:

XEN STF = 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 2H21 GW


Job ID: 860-24845-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-24845-1	SP-03	Water	04/20/22 14:55	04/21/22 09:14
860-24845-2	SP-32	Water	04/20/22 14:30	04/21/22 09:14
860-24845-3	SP-34	Water	04/20/22 13:50	04/21/22 09:14

- 1
- 2
- 3
- 4
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- 6
- 7
- 8
- 9
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- 13
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Chain of Custody Record

Client Information		Sampler: <u>Brandon Hill</u>		Lab PIN: <u>Kudchadkar Sachin G</u>		Carrier Tracking No(s):		COC No: <u>860-3614-1220.1</u>	
Client Contact: <u>Mike Schofield</u>		Phone: <u>713-653-3127</u>		E-Mail: <u>Sachin.Kudchadkar@Eurofinset.com</u>		State of Origin:		Page: <u>1</u> of <u>1</u>	
Company: <u>GSI Environmental, Inc</u>		PWSID:		Analysis Requested					
Address: <u>9600 Great Hills Trail Suite 360E</u>		Due Date Requested:		<input checked="" type="checkbox"/> Field Filtered Sample (Yes or No)		<input checked="" type="checkbox"/> Potentially Contaminated		Total Number of Containers	
City: <u>Austin</u>		TAT Requested (days):		<input checked="" type="checkbox"/> N <input checked="" type="checkbox"/> D		<input checked="" type="checkbox"/> N <input checked="" type="checkbox"/> D		<input checked="" type="checkbox"/> X	
State/Zip: <u>TX, 78759</u>		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No		2320B, Alkalinity		60100 - B, Ca		2640C, TDS	
Phone: <u>512-346-4474(Tel) 512-346-4476(Fax)</u>		PO #:		2320B, Alkalinity		60100 - B, Ca		2640C, TDS	
Email: <u>mschofield@ggsi-net.com</u>		WO #:		2320B, Alkalinity		60100 - B, Ca		2640C, TDS	
Project Name: <u>1422 San Miguel Electrical Co-Op 2444-GW Resample</u>		Project #: <u>86001746</u>		2320B, Alkalinity		60100 - B, Ca		2640C, TDS	
Site: <u>Ash Pile</u>		SSOW#:		2320B, Alkalinity		60100 - B, Ca		2640C, TDS	

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Preservation Code	Matrix (Water, Solid, On-water, etc)	Field Filtered Sample (Yes or No)	2320B, Alkalinity	60100 - B, Ca	2640C, TDS	300 - Cl, F, SO4	TDS - m2540C	Calcium - 6020A	Special Instructions/Note:
SP-03	4-20-22	1455	G	Water	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: 22.0 IR ID:HOU-323 C/F -0.9 Corrected Temp: 11
SP-32	↓	1430	↓	Water	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"/>		
SP-34	↓	1350	↓	Water	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"/>		
 860-24845 Chain of Custody													

Possible Hazard Identification		Return To Client: <input type="checkbox"/>		Archive For: _____ Months	
<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)					
Empty Kit Relinquished by: _____		Date: _____		Method of Shipment: _____	
Relinquished by: _____		Date/Time: <u>4-21-22 914</u>		Received by: _____	
Relinquished by: _____		Date/Time: _____		Received by: _____	
Relinquished by: _____		Date/Time: _____		Received by: _____	
Custody Seal Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No. _____		Cooler Temperature(s) °C and Other Remarks: <u>2.6</u>	



Login Sample Receipt Checklist

Client: GSI Environmental, Inc

Job Number: 860-24845-1

Login Number: 24845

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	



DATA USABILITY SUMMARY

March 2022 Confirmation Sampling Event (Job ID: 860-22865-1)

OVERVIEW

GSI Environmental Inc. (GSI) reviewed one data package from Eurofins Xenco located in Stafford, Texas (XEN STF) for the analysis of **four groundwater samples collected at the Ash Pile on 17 March 2022** 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, XEN STF was National Environmental Laboratory Accreditation Program (NELAP)-accredited under the Texas Laboratory Accreditation Program (Certification Number: T104704215-21-44) for the matrices, analytes, and methods of analysis requested on the chain-of-custody documentation. A copy of XEN STF's 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. 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 case narrative, 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. To confirm results from sampling conducted on 8 February 2022, SP-03 was analyzed for calcium and chloride; SP-02 and SP-32 were analyzed for calcium; and SP-34 was analyzed for TDS. 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 sample detection limit (SDL). Results between the SDL and sample quantitation limit (SQL) 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.

Finding: No qualifiers were added per these criteria.

Calibrations

No calibration issues were identified in the laboratory report narrative or during review of the laboratory data package.

Finding: No qualifiers were added per this evaluation.

Blanks

Method (Laboratory) Blanks

- No issues with laboratory blanks were identified in the case narrative or during review of the laboratory data package.

Finding: No qualifiers were added per this evaluation.

Internal Standard and Surrogate Recoveries (VOCs and SVOCs Only)

Not applicable.

Laboratory Control Samples

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

Finding: No qualifiers were added per this evaluation.

Matrix Spike/Matrix Spike Duplicates and Laboratory Duplicates

No issues with matrix spike (MS) or matrix spike duplicate (MSD) data were identified in the case narrative or during review of the laboratory data package.

Findings: No qualifiers were added per this evaluation.

Field Duplicates (Field Precision)

Field precision was not calculated because a field duplicate was not collected during the sampling event.

Finding: Not evaluated.

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 data were rejected or qualified based on this review and validation.

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
03/17/2022	XEN STF	860-22865-1	SP-34	Water
03/17/2022	XEN STF	860-22865-2	SP-02	Water
03/17/2022	XEN STF	860-22865-3	SP-03	Water
03/17/2022	XEN STF	860-22865-4	SP-32	Water

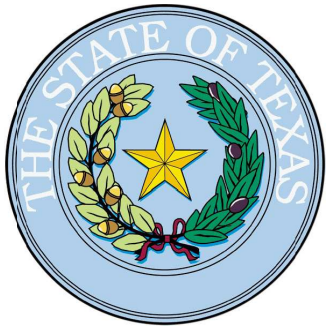
Notes:

1. XEN STF: Eurofins Xenco, Stafford, Texas

Attachment A

Eurofins Xenco, Stafford

TCEQ NELAP-Recognized Laboratory Accreditation Certificate



Texas Commission on Environmental Quality

NELAP-Recognized Laboratory Accreditation is hereby awarded to



Eurofins Xenco, LLC - Houston

4147 Greenbriar Drive
Stafford, TX 77477-3907

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: T104704215-21-44

Effective Date: 7/14/2021

Expiration Date: 6/30/2022

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

**Executive Director Texas Commission on
Environmental Quality**

Attachment B
Eurofins Xenco, Stafford
Analytical Report
Job ID.: 860-22865-1

ANALYTICAL REPORT

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Tel: (281)240-4200

Laboratory Job ID: 860-22865-1

Client Project/Site: San Miguel Electrical Co-Op 2H21 GW

For:

GSI Environmental, Inc
9600 Great Hills Trail
Suite 350E
Austin, Texas 78759

Attn: Mike Schofield



Authorized for release by:
3/28/2022 5:26:21 PM

Sachin Kudchadkar, Senior Project Manager
(281)748-9025
Sachin.Kudchadkar@Eurofinset.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:

www.eurofinsus.com/Env

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

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



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Sample Summary	13
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Definitions/Glossary

Client: GSI Environmental, Inc
Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-22865-1

Qualifiers

HPLC/IC

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

Metals

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

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 2H21 GW

Job ID: 860-22865-1

Job ID: 860-22865-1

Laboratory: Eurofins Houston

Narrative

Job Narrative
860-22865-1

Receipt

The samples were received on 3/18/2022 9:37 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 0.6°C

HPLC/IC

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

Metals

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

General Chemistry

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

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Detection Summary

Client: GSI Environmental, Inc
Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-22865-1

Client Sample ID: SP-34

Lab Sample ID: 860-22865-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	11200		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SP-02

Lab Sample ID: 860-22865-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	1210		50.0	8.62	mg/L	500		6020A	Total/NA

Client Sample ID: SP-03

Lab Sample ID: 860-22865-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	4780		5.00	2.00	mg/L	10		300.0	Total/NA
Calcium	975		5.00	0.862	mg/L	50		6020A	Total/NA

Client Sample ID: SP-32

Lab Sample ID: 860-22865-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	537		20.0	3.45	mg/L	200		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 2H21 GW

Job ID: 860-22865-1

Client Sample ID: SP-34

Lab Sample ID: 860-22865-1

Date Collected: 03/17/22 13:10

Matrix: Water

Date Received: 03/18/22 09:37

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	11200		100	100	mg/L			03/23/22 17:29	1

Client Sample ID: SP-02

Lab Sample ID: 860-22865-2

Date Collected: 03/17/22 12:40

Matrix: Water

Date Received: 03/18/22 09:37

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	1210		50.0	8.62	mg/L		03/21/22 10:30	03/22/22 22:29	500

Client Sample ID: SP-03

Lab Sample ID: 860-22865-3

Date Collected: 03/17/22 11:40

Matrix: Water

Date Received: 03/18/22 09:37

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4780		5.00	2.00	mg/L			03/26/22 23:52	10

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	975		5.00	0.862	mg/L		03/23/22 08:30	03/23/22 22:06	50

Client Sample ID: SP-32

Lab Sample ID: 860-22865-4

Date Collected: 03/17/22 11:10

Matrix: Water

Date Received: 03/18/22 09:37

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	537		20.0	3.45	mg/L		03/21/22 10:30	03/22/22 22:32	200

QC Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-22865-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-46528/3
 Matrix: Water
 Analysis Batch: 46528

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			03/26/22 15:34	1

Lab Sample ID: LCS 860-46528/6
 Matrix: Water
 Analysis Batch: 46528

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	9.674		mg/L		97	90 - 110

Lab Sample ID: LCSD 860-46528/7
 Matrix: Water
 Analysis Batch: 46528

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	9.752		mg/L		98	90 - 110	1	20

Lab Sample ID: LLCS 860-46528/5
 Matrix: Water
 Analysis Batch: 46528

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	0.5754		mg/L		115	50 - 150

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 860-45704/1-A
 Matrix: Water
 Analysis Batch: 46080

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 45704

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	0.0172	U	0.100	0.0172	mg/L		03/21/22 10:30	03/22/22 21:15	1

Lab Sample ID: LCS 860-45704/2-A
 Matrix: Water
 Analysis Batch: 46080

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 45704

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	2.50	2.735		mg/L		109	80 - 120

Lab Sample ID: LCSD 860-45704/3-A
 Matrix: Water
 Analysis Batch: 46080

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 45704

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	2.50	2.734		mg/L		109	80 - 120	0	20

QC Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-22865-1

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

Lab Sample ID: MB 860-46007/1-A
Matrix: Water
Analysis Batch: 46221

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 46007

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	0.0172	U	0.100	0.0172	mg/L		03/23/22 08:30	03/23/22 21:15	1

Lab Sample ID: LCS 860-46007/2-A
Matrix: Water
Analysis Batch: 46221

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 46007

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	2.50	2.738		mg/L		110	80 - 120

Lab Sample ID: LCSD 860-46007/3-A
Matrix: Water
Analysis Batch: 46221

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 46007

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	2.50	2.708		mg/L		108	80 - 120	1	20

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

Lab Sample ID: MB 860-46155/1
Matrix: Water
Analysis Batch: 46155

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			03/23/22 17:29	1

Lab Sample ID: LCS 860-46155/2
Matrix: Water
Analysis Batch: 46155

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	1110		mg/L		111	80 - 120

Lab Sample ID: LCSD 860-46155/3
Matrix: Water
Analysis Batch: 46155

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	1119		mg/L		112	80 - 120	1	10

QC Association Summary

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-22865-1

HPLC/IC

Analysis Batch: 46528

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-22865-3	SP-03	Total/NA	Water	300.0	
MB 860-46528/3	Method Blank	Total/NA	Water	300.0	
LCS 860-46528/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-46528/7	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-46528/5	Lab Control Sample	Total/NA	Water	300.0	

Metals

Prep Batch: 45704

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-22865-2	SP-02	Total/NA	Water	3010A	
860-22865-4	SP-32	Total/NA	Water	3010A	
MB 860-45704/1-A	Method Blank	Total/NA	Water	3010A	
LCS 860-45704/2-A	Lab Control Sample	Total/NA	Water	3010A	
LCSD 860-45704/3-A	Lab Control Sample Dup	Total/NA	Water	3010A	

Prep Batch: 46007

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-22865-3	SP-03	Total/NA	Water	3010A	
MB 860-46007/1-A	Method Blank	Total/NA	Water	3010A	
LCS 860-46007/2-A	Lab Control Sample	Total/NA	Water	3010A	
LCSD 860-46007/3-A	Lab Control Sample Dup	Total/NA	Water	3010A	

Analysis Batch: 46080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-22865-2	SP-02	Total/NA	Water	6020A	45704
860-22865-4	SP-32	Total/NA	Water	6020A	45704
MB 860-45704/1-A	Method Blank	Total/NA	Water	6020A	45704
LCS 860-45704/2-A	Lab Control Sample	Total/NA	Water	6020A	45704
LCSD 860-45704/3-A	Lab Control Sample Dup	Total/NA	Water	6020A	45704

Analysis Batch: 46221

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-22865-3	SP-03	Total/NA	Water	6020A	46007
MB 860-46007/1-A	Method Blank	Total/NA	Water	6020A	46007
LCS 860-46007/2-A	Lab Control Sample	Total/NA	Water	6020A	46007
LCSD 860-46007/3-A	Lab Control Sample Dup	Total/NA	Water	6020A	46007

General Chemistry

Analysis Batch: 46155

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-22865-1	SP-34	Total/NA	Water	SM 2540C	
MB 860-46155/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-46155/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-46155/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	

Lab Chronicle

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-22865-1

Client Sample ID: SP-34

Lab Sample ID: 860-22865-1

Date Collected: 03/17/22 13:10

Matrix: Water

Date Received: 03/18/22 09:37

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	46155	03/23/22 17:29	ADL	XEN STF

Client Sample ID: SP-02

Lab Sample ID: 860-22865-2

Date Collected: 03/17/22 12:40

Matrix: Water

Date Received: 03/18/22 09:37

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	45704	03/21/22 10:30	MD	XEN STF
Total/NA	Analysis	6020A		500			46080	03/22/22 22:29	SHZ	XEN STF

Client Sample ID: SP-03

Lab Sample ID: 860-22865-3

Date Collected: 03/17/22 11:40

Matrix: Water

Date Received: 03/18/22 09:37

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			46528	03/26/22 23:52	A1S	XEN STF
Total/NA	Prep	3010A			50 mL	50 mL	46007	03/23/22 08:30	MD	XEN STF
Total/NA	Analysis	6020A		50			46221	03/23/22 22:06	SHZ	XEN STF

Client Sample ID: SP-32

Lab Sample ID: 860-22865-4

Date Collected: 03/17/22 11:10

Matrix: Water

Date Received: 03/18/22 09:37

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	45704	03/21/22 10:30	MD	XEN STF
Total/NA	Analysis	6020A		200			46080	03/22/22 22:32	SHZ	XEN STF

Laboratory References:

XEN STF = 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 2H21 GW

Job ID: 860-22865-1

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	T104704215-21-44	06-30-22

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

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

Method Summary

Client: GSI Environmental, Inc
Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-22865-1

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	XEN STF
6020A	Metals (ICP/MS)	SW846	XEN STF
SM 2540C	Solids, Total Dissolved (TDS)	SM	XEN STF
3010A	Preparation, Total Metals	SW846	XEN STF

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
SM = "Standard Methods For The Examination Of Water And Wastewater"
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

XEN STF = 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 2H21 GW

Job ID: 860-22865-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-22865-1	SP-34	Water	03/17/22 13:10	03/18/22 09:37
860-22865-2	SP-02	Water	03/17/22 12:40	03/18/22 09:37
860-22865-3	SP-03	Water	03/17/22 11:40	03/18/22 09:37
860-22865-4	SP-32	Water	03/17/22 11:10	03/18/22 09:37

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

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: mlesch@gsi-net.com
 Project Name: Murch 22 Resample
 San Miguel Electrical Co-Op #124-SW
 Site: Ash Pile


Sampler: Brian Hiller
 Phone: 713-653-3127
 Lab P#: Kudchadkar Sachin G
 E-Mail: Sachin.Kudchadkar@Eurofins.com
 Carrier Tracking No(s):
 State of Origin:
 Page: 1 of 1

Due Date Requested:
 TAT Requested (days):
 Compliance Project: Yes No
 PO #:
 WO #:
 Project #: 86001746
 SSO#: SSOW#:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (liquid, solid, or residual)	Preservation Code:	Field Filtered Sample (Yes or No)	Analysis Requested	Special Instructions/Note:
SP-34	3-17-22	1310	G	Water		<input checked="" type="checkbox"/> Yes	2320B, Alkalinity 36100-0-0-0 Calcium (SW6020A) 25400-100-0 TDS (M2540C) 3600-0-10-0 Chloride (E300)	1
SP-02		1240		Water		<input checked="" type="checkbox"/> Yes		1
SP-03		1140		Water		<input checked="" type="checkbox"/> Yes		2
SP-32		1110		Water		<input checked="" type="checkbox"/> Yes		1
				Water				
				Water				
				Water				
				Water				
				Water				

Temp: 6-9 IR ID: HOU-323
 C/F: +0.2
 Corrected Temp: 0.6

860-22865 Chain of Custody



Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological
 Deliverable Requested: I, II, III, IV Other (specify):
 Special Instructions/QC Requirements:

Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: [Signature] Date/Time: 3/18/22 937 Company: HWI
 Relinquished by: _____ Date/Time: _____ Company: _____

Custody Seals Intact: Yes No
 Custody Seal No.:
 Cooler Temperature(s) °C and Other Remarks:
 Received by: [Signature] Date/Time: 3/18/22 937 Company: _____
 Received by: _____ Date/Time: _____ Company: _____

Login Sample Receipt Checklist

Client: GSI Environmental, Inc

Job Number: 860-22865-1

Login Number: 22865

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	

2022 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

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

Appendix B.2 Data Usability Summaries – September 2022

DATA USABILITY SUMMARY

September 2022 Sampling Event (Job ID: 860-34150-1)

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 28 September 2022** 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: T104704215-22-47) for the matrices, analytes, and methods of analysis requested on the chain-of-custody documentation. A copy of EET HOU's 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. 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.

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.

- Sample SP-34 by Method 300.0 was diluted to bring the concentration of target analytes within the calibration range. Elevated RLs are provided.
- Samples SP-34, SP-01, SP-02, SP-03, SP-32 and DUP-01 by Method 6020A were diluted to bring the concentration of target analytes within the calibration range. Elevated RLs are provided.
- The sample identified as DUP-01 on the C-O-C is a field duplicate of sample SP-02.

Finding: No qualifiers were added per these criteria.

Calibrations

No calibration issues were identified in the laboratory report narrative or during review of the laboratory data package.

Finding: No qualifiers were added per this evaluation.

Blanks

Method (Laboratory) Blanks

The LCN indicated the following issues with the method blanks:

- The method blank for analytical batch 860-72178 contained Chloride above the MDL. This target analyte concentration was less than the RL; therefore, re-extraction and/or re-analysis 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.
- The method blank for analytical batch 860-72355 contained Sulfate above the MDL. This target analyte concentration was less than the RL; therefore, re-extraction and/or re-analysis 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 5X the method blank concentration. Therefore, no additional qualifiers were issued to affected results.

Field Blanks

The LCN indicated the following issues with the blanks collected in the field:

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

Finding: “JH” qualifiers were added to Fluoride concentrations of SP-03 because it was detected at a concentration that was less than 5X the blank concentration.

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 indicated the following issues with matrix spike (MS)/matrix spike duplicate (MSD) data:

- The MS/MSD recoveries for analytical batch 860-72178 analyzed using sample SP-34 were outside control limits and the LCN indicated that sample matrix interference is suspected because the associated LCS recovery was within acceptance limits. The affected analytes included Chloride, Fluoride and Sulfate; with Chloride recovering above

specifications, and Fluoride and Sulfate recovering below specifications and >30%. However, the spiking amounts for all three analytes were less than 4X times the result in the unspiked parent samples and, based on professional judgement, do not represent the matrix effect. As a result, no additional qualifiers were added as part of this evaluation.

- The MS/MSD recoveries for analytical batch 860-72178 analyzed using sample FB-01 were outside control limits and the LCN indicated that sample matrix interference is suspected because the associated LCS recovery was within acceptance limits. The affected analyte included Chloride, which was below specifications and >30%. The spiking amount was greater than 4X times the result in the unspiked parent sample and therefore does represent the matrix effect. Additional qualifiers were added as part of this evaluation as noted below.
- The MS/MSD recoveries for preparation batch 860-71727 and analytical batch 860-72088 analyzed using sample SP-34 were outside control limits. The affected analyte included Boron, which recovered below 30%. However, the spiking amount was less than 4X times the result in the unspiked parent samples and, based on professional judgement, does not represent the matrix effect. As a result, no additional qualifiers were added as part of this evaluation.
- The MS/MSD recoveries for preparation batch 860-71727 and analytical batch 860-72408 analyzed using sample SP-34 were outside control limits. The affected analyte included Calcium, which recovered below 30%. However, the spiking amount was less than 4X times the result in the unspiked parent samples and, based on professional judgement, does not represent the matrix effect. As a result, no additional qualifiers were added as part of this evaluation.
- The LCN stated that due to the high concentration of Chloride and Sulfate, the MS/MSD for analytical batch 860-72802 could not be evaluated for accuracy and precision. The associated LCS/LCSD met acceptance criteria.
- The LCN stated that due to the high concentration of Chloride and Sulfate, the MS/MSD for analytical batch 860-73378 could not be evaluated for accuracy and precision. The associated LCS met acceptance criteria

Findings: Detected results of Chloride in samples FB-01 were qualified with a “JL” because the %R was below specifications and >30%.

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
09/28/2022	EET HOU	860-34150-1	SP-34	Water
09/28/2022	EET HOU	860-34150-2	SP-01	Water
09/28/2022	EET HOU	860-34150-3	Sp-02	Water
09/28/2022	EET HOU	860-34150-4	SP-03	Water
09/28/2022	EET HOU	860-34150-5	SP-32	Water
09/28/2022	EET HOU	860-34150-6	DUP-01	Water
09/28/2022	EET HOU	860-34150-7	FB-01	Water

Notes:

1. EET HOU: Eurofins Houston, Stafford, Texas

TABLE 2
Qualifiers Added During Data Usability Review

Sample ID	Analyte	Lab Result	Unit	DUS Qualifier or Bias Code	Reason for Qualification	Batch Number	Report Number
FB-01	Chloride	1.34	mg/L	JL	MS/MSD %R below specifications and >30%	860-72178	860-34150-1
SP-03	Fluoride	1.24	mg/L	JH	Detected within 5X of FB concentration	860-72355	860-34150-1

Notes:

1. mg/L: milligrams per liter.
2. JL: Estimated value, biased low
3. JH: Estimated value, biased high
4. MS/MSD: Matrix Spike/Matrix Spike Duplicate
5. %R: Percent Recovery
6. >30%: Greater than thirty percent
7. 5X: five times
8. FB: Field Blank

TABLE 3
Field Duplicate Detections

Analyte	MDL	Primary Sample Result (mg/L)	Field Duplicate Result (mg/L)	Relative Percent Difference	Notes
SP-02 and DUP-01					
Sulfate	1.09	2000 B	2000 B	0.00 %	A
Chloride - DL	2.00	3210 B	3220 B	0.31 %	A
Calcium	15.0	923	952	3.09 %	A
Boron	0.401	9.16	9.20	0.44 %	A
Total Alkalinity	4.00	46.8	46.8	0.00 %	A
Bicarbonate Alkalinity as CaCO ₃	4.00	46.8	46.8	0.00 %	A
Total Dissolved Solids	100	8380	7920	5.64 %	A

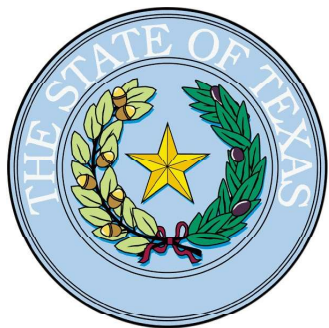
Notes:

1. MDL: Method Detection Limit
2. mg/L: milligrams per liter
3. $RPD = (PR - FD) / \text{AVERAGE}(PR + FD) * 100$, where PR is the Primary Sample and FD is the Field Duplicate
4. A = Acceptable Relative Percent Difference (RPD).
5. B = The analyte was detected in the associated blank sample.
6. CaCO₃: Calcium carbonate

Attachment A

Eurofins Houston – Stafford, Texas

TCEQ NELAP-Recognized Laboratory Accreditation Certificate



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.

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

Certificate Number: T104704215-22-47
Effective Date: 7/18/2022
Expiration Date: 6/30/2023

**Executive Director Texas Commission on
Environmental Quality**

Attachment B

Eurofins Houston – Stafford, Texas

Analytical Report

Job ID.: 860-34150-1

ANALYTICAL REPORT

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Tel: (281)240-4200

Laboratory Job ID: 860-34150-1

Client Project/Site: San Miguel Electrical Co-Op 2H22 GW

For:

GSI Environmental, Inc
9600 Great Hills Trail
Suite 350E
Austin, Texas 78759

Attn: Mike Schofield



Authorized for release by:
10/20/2022 9:42:06 AM

Sachin Kudchadkar, Senior Project Manager
(281)748-9025

Sachin.Kudchadkar@et.eurofinsus.com

LINKS

Review your project
results through



Have a Question?



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

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



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Definitions/Glossary

Client: GSI Environmental, Inc
Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34150-1

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.
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
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.
▫	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 2H22 GW

Job ID: 860-34150-1

Job ID: 860-34150-1

Laboratory: Eurofins Houston

Narrative

Job Narrative 860-34150-1

Receipt

The samples were received on 9/29/2022 9:57 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 time was 1.8°C

HPLC/IC

Method 300_ORGFM_28D: The method blank for analytical batch 860-72178 contained Chloride 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 matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-72178 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 300_ORGFM_28D: The method blank for analytical batch 860-72355 contained 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: Due to the high concentration of Chloride and Sulfate, the matrix spike / matrix spike duplicate (MS/MSD) for analytical batch 860-72802 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 following sample was diluted to bring the concentration of target analytes within the calibration range: SP-34 (860-34150-1). 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 860-73378 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.

Metals

Method 6020A: The following samples were diluted to bring the concentration of target analytes within the calibration range: SP-34 (860-34150-1), SP-01 (860-34150-2), SP-02 (860-34150-3), SP-03 (860-34150-4), SP-32 (860-34150-5) and DUP-01 (860-34150-6). Elevated reporting limits (RLs) are provided.

Method 6020A: The following samples were diluted to bring the concentration of target analytes within the calibration range: SP-34 (860-34150-1), SP-01 (860-34150-2), SP-02 (860-34150-3), SP-03 (860-34150-4), SP-32 (860-34150-5) and DUP-01 (860-34150-6). Elevated reporting limits (RLs) are provided.

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

General Chemistry

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 2H22 GW

Job ID: 860-34150-1

Client Sample ID: SP-34

Lab Sample ID: 860-34150-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	5.30	F1	0.500	0.100	mg/L	1		300.0	Total/NA
Chloride - DL	2910	B	5.00	2.00	mg/L	10		300.0	Total/NA
Sulfate - DL	2830		5.00	1.09	mg/L	10		300.0	Total/NA
Calcium	874		50.0	15.0	mg/L	500		6020A	Total/NA
Boron	10.0		1.00	0.401	mg/L	100		6020A	Total/NA
Total Dissolved Solids	7260		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SP-01

Lab Sample ID: 860-34150-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	16.1		5.00	1.00	mg/L	10		300.0	Total/NA
Sulfate	7220	B	50.0	10.9	mg/L	100		300.0	Total/NA
Chloride - DL	3070	B	5.00	2.00	mg/L	10		300.0	Total/NA
Calcium	555		50.0	15.0	mg/L	500		6020A	Total/NA
Boron	6.71		1.00	0.401	mg/L	100		6020A	Total/NA
Total Dissolved Solids	13800		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SP-02

Lab Sample ID: 860-34150-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	2000	B	5.00	1.09	mg/L	10		300.0	Total/NA
Chloride - DL	3210	B	5.00	2.00	mg/L	10		300.0	Total/NA
Calcium	923		50.0	15.0	mg/L	500		6020A	Total/NA
Boron	9.16		1.00	0.401	mg/L	100		6020A	Total/NA
Total Alkalinity	46.8		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	46.8		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	8380		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SP-03

Lab Sample ID: 860-34150-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	1.24	J	5.00	1.00	mg/L	10		300.0	Total/NA
Sulfate	2720	B	5.00	1.09	mg/L	10		300.0	Total/NA
Chloride - DL	4320	B	5.00	2.00	mg/L	10		300.0	Total/NA
Calcium	852		50.0	15.0	mg/L	500		6020A	Total/NA
Boron	5.55		1.00	0.401	mg/L	100		6020A	Total/NA
Total Dissolved Solids	9910		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SP-32

Lab Sample ID: 860-34150-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	6.57		5.00	1.00	mg/L	10		300.0	Total/NA
Sulfate	5670	B	50.0	10.9	mg/L	100		300.0	Total/NA
Chloride - DL	1460	B	5.00	2.00	mg/L	10		300.0	Total/NA
Calcium	534		20.0	6.01	mg/L	200		6020A	Total/NA
Boron	11.8		1.00	0.401	mg/L	100		6020A	Total/NA
Total Dissolved Solids	9410		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: DUP-01

Lab Sample ID: 860-34150-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	2000	B	5.00	1.09	mg/L	10		300.0	Total/NA
Chloride - DL	3220	B	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 2H22 GW

Job ID: 860-34150-1

Client Sample ID: DUP-01 (Continued)

Lab Sample ID: 860-34150-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	952		50.0	15.0	mg/L	500		6020A	Total/NA
Boron	9.20		1.00	0.401	mg/L	100		6020A	Total/NA
Total Alkalinity	46.8		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	46.8		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	7920		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: FB-01

Lab Sample ID: 860-34150-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1.34	B F1	0.500	0.200	mg/L	1		300.0	Total/NA
Fluoride	0.817		0.500	0.100	mg/L	1		300.0	Total/NA
Sulfate	0.394	J B	0.500	0.109	mg/L	1		300.0	Total/NA
Total Dissolved Solids	28.0		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 2H22 GW

Job ID: 860-34150-1

Client Sample ID: SP-34

Lab Sample ID: 860-34150-1

Date Collected: 09/28/22 11:40

Matrix: Water

Date Received: 09/29/22 09:57

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	5.30	F1	0.500	0.100	mg/L			10/07/22 01:48	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2910	B	5.00	2.00	mg/L			10/07/22 02:22	10
Sulfate	2830		5.00	1.09	mg/L			10/12/22 09:03	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	874		50.0	15.0	mg/L		10/04/22 08:30	10/07/22 19:42	500
Boron	10.0		1.00	0.401	mg/L		10/04/22 08:30	10/05/22 20:21	100

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			10/07/22 12:03	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			10/07/22 12:03	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			10/07/22 12:03	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			10/07/22 12:03	1
Total Dissolved Solids (SM 2540C)	7260		100	100	mg/L			10/04/22 09:23	1

Client Sample ID: SP-01

Lab Sample ID: 860-34150-2

Date Collected: 09/28/22 10:20

Matrix: Water

Date Received: 09/29/22 09:57

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	16.1		5.00	1.00	mg/L			10/07/22 20:51	10
Sulfate	7220	B	50.0	10.9	mg/L			10/07/22 21:03	100

Method: MCAWW 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3070	B	5.00	2.00	mg/L			10/07/22 03:08	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	555		50.0	15.0	mg/L		10/04/22 08:30	10/07/22 19:50	500
Boron	6.71		1.00	0.401	mg/L		10/04/22 08:30	10/05/22 20:29	100

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			10/08/22 12:16	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			10/08/22 12:16	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			10/08/22 12:16	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			10/08/22 12:16	1
Total Dissolved Solids (SM 2540C)	13800		100	100	mg/L			10/05/22 11:00	1

Eurofins Houston

Client Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34150-1

Client Sample ID: SP-02

Lab Sample ID: 860-34150-3

Date Collected: 09/28/22 11:05

Matrix: Water

Date Received: 09/29/22 09:57

Method: MCAWW 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			10/07/22 21:48	10
Sulfate	2000	B	5.00	1.09	mg/L			10/07/22 21:48	10

Method: MCAWW 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3210	B	5.00	2.00	mg/L			10/07/22 03:30	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	923		50.0	15.0	mg/L		10/04/22 08:30	10/07/22 19:53	500
Boron	9.16		1.00	0.401	mg/L		10/04/22 08:30	10/05/22 20:32	100

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	46.8		4.00	4.00	mg/L			10/07/22 13:38	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	46.8		4.00	4.00	mg/L			10/07/22 13:38	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			10/07/22 13:38	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			10/07/22 13:38	1
Total Dissolved Solids (SM 2540C)	8380		100	100	mg/L			10/05/22 11:00	1

Client Sample ID: SP-03

Lab Sample ID: 860-34150-4

Date Collected: 09/28/22 09:35

Matrix: Water

Date Received: 09/29/22 09:57

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	1.24	J	5.00	1.00	mg/L			10/07/22 22:00	10
Sulfate	2720	B	5.00	1.09	mg/L			10/07/22 22:00	10

Method: MCAWW 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4320	B	5.00	2.00	mg/L			10/07/22 03:53	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	852		50.0	15.0	mg/L		10/04/22 08:30	10/07/22 19:56	500
Boron	5.55		1.00	0.401	mg/L		10/04/22 08:30	10/05/22 20:35	100

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			10/08/22 12:16	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			10/08/22 12:16	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			10/08/22 12:16	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			10/08/22 12:16	1
Total Dissolved Solids (SM 2540C)	9910		100	100	mg/L			10/05/22 11:00	1

Eurofins Houston

Client Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34150-1

Client Sample ID: SP-32

Lab Sample ID: 860-34150-5

Date Collected: 09/28/22 09:05

Matrix: Water

Date Received: 09/29/22 09:57

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	6.57		5.00	1.00	mg/L			10/07/22 22:12	10
Sulfate	5670	B	50.0	10.9	mg/L			10/07/22 22:24	100

Method: MCAWW 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1460	B	5.00	2.00	mg/L			10/07/22 04:16	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	534		20.0	6.01	mg/L		10/04/22 08:30	10/07/22 20:04	200
Boron	11.8		1.00	0.401	mg/L		10/04/22 08:30	10/05/22 20:43	100

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			10/08/22 15:15	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			10/08/22 15:15	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			10/08/22 15:15	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			10/08/22 15:15	1
Total Dissolved Solids (SM 2540C)	9410		100	100	mg/L			10/05/22 11:00	1

Client Sample ID: DUP-01

Lab Sample ID: 860-34150-6

Date Collected: 09/28/22 11:40

Matrix: Water

Date Received: 09/29/22 09:57

Method: MCAWW 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			10/07/22 22:36	1
Sulfate	2000	B	5.00	1.09	mg/L			10/07/22 22:49	10

Method: MCAWW 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3220	B	5.00	2.00	mg/L			10/07/22 04:38	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	952		50.0	15.0	mg/L		10/04/22 08:30	10/07/22 20:07	500
Boron	9.20		1.00	0.401	mg/L		10/04/22 08:30	10/05/22 20:46	100

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	46.8		4.00	4.00	mg/L			10/08/22 12:07	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	46.8		4.00	4.00	mg/L			10/08/22 12:07	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			10/08/22 12:07	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			10/08/22 12:07	1
Total Dissolved Solids (SM 2540C)	7920		100	100	mg/L			10/05/22 11:00	1

Eurofins Houston

Client Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34150-1

Client Sample ID: FB-01

Lab Sample ID: 860-34150-7

Date Collected: 09/28/22 09:45

Matrix: Water

Date Received: 09/29/22 09:57

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.34	B F1	0.500	0.200	mg/L			10/07/22 01:03	1
Fluoride	0.817		0.500	0.100	mg/L			10/07/22 01:03	1
Sulfate	0.394	J B	0.500	0.109	mg/L			10/07/22 20:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	0.0301	U	0.100	0.0301	mg/L		10/04/22 08:30	10/04/22 23:04	1
Boron	0.00401	U	0.0100	0.00401	mg/L		10/04/22 08:30	10/05/22 20:48	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			10/08/22 12:15	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			10/08/22 12:15	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			10/08/22 12:15	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			10/08/22 12:15	1
Total Dissolved Solids (SM 2540C)	28.0		5.00	5.00	mg/L			10/05/22 11:00	1

QC Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34150-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-72178/3
Matrix: Water
Analysis Batch: 72178

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			10/06/22 10:59	1
Fluoride	0.100	U	0.500	0.100	mg/L			10/06/22 10:59	1
Sulfate	0.109	U	0.500	0.109	mg/L			10/06/22 10:59	1

Lab Sample ID: MB 860-72178/49
Matrix: Water
Analysis Batch: 72178

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	0.2208	J	0.500	0.200	mg/L			10/06/22 22:24	1
Fluoride	0.100	U	0.500	0.100	mg/L			10/06/22 22:24	1
Sulfate	0.109	U	0.500	0.109	mg/L			10/06/22 22:24	1

Lab Sample ID: LCS 860-72178/50
Matrix: Water
Analysis Batch: 72178

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	10.17		mg/L		102	90 - 110

Lab Sample ID: LCSD 860-72178/51
Matrix: Water
Analysis Batch: 72178

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	10.25		mg/L		102	90 - 110	1	20
Sulfate	10.0	9.370		mg/L		94	90 - 110	6	20

Lab Sample ID: LLCS 860-72178/7
Matrix: Water
Analysis Batch: 72178

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	0.4624	J	mg/L		92	50 - 150
Sulfate	0.500	0.4838	J	mg/L		97	50 - 150

Lab Sample ID: 860-34150-1 MS
Matrix: Water
Analysis Batch: 72178

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

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier		Result	Qualifier				
Chloride	2760	E B	10.0	2775	E 4	mg/L		187	90 - 110
Fluoride	5.30	F1	10.0	12.62	F1	mg/L		73	90 - 110
Sulfate	2730	E *-	10.0	2731	E 4	mg/L		50	90 - 110

QC Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34150-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 860-34150-1 MSD
Matrix: Water
Analysis Batch: 72178

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

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Chloride	2760	E B	10.0	2775	E 4	mg/L		187	90 - 110	0	20
Fluoride	5.30	F1	10.0	12.89	F1	mg/L		76	90 - 110	2	20
Sulfate	2730	E *-	10.0	2728	E 4	mg/L		22	90 - 110	0	20

Lab Sample ID: 860-34150-7 MS
Matrix: Water
Analysis Batch: 72178

Client Sample ID: FB-01
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Chloride	1.34	B F1	10.0	10.19	F1	mg/L		88	90 - 110		
Fluoride	0.817		10.0	10.15		mg/L		93	90 - 110		
Sulfate	0.311	J *-	10.0	9.327		mg/L		90	90 - 110		

Lab Sample ID: 860-34150-7 MSD
Matrix: Water
Analysis Batch: 72178

Client Sample ID: FB-01
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Chloride	1.34	B F1	10.0	10.26	F1	mg/L		89	90 - 110	1	20
Fluoride	0.817		10.0	10.23		mg/L		94	90 - 110	1	20
Sulfate	0.311	J *-	10.0	9.549		mg/L		92	90 - 110	2	20

Lab Sample ID: MB 860-72355/13
Matrix: Water
Analysis Batch: 72355

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			10/07/22 13:40	1
Fluoride	0.100	U	0.500	0.100	mg/L			10/07/22 13:40	1
Sulfate	0.1742	J	0.500	0.109	mg/L			10/07/22 13:40	1

Lab Sample ID: MB 860-72355/77
Matrix: Water
Analysis Batch: 72355

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			10/08/22 04:31	1
Fluoride	0.100	U	0.500	0.100	mg/L			10/08/22 04:31	1
Sulfate	0.109	U	0.500	0.109	mg/L			10/08/22 04:31	1

Lab Sample ID: LCS 860-72355/14
Matrix: Water
Analysis Batch: 72355

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

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec	RPD	Limit
							Result		
Chloride	10.0	10.07		mg/L		101	90 - 110		
Fluoride	10.0	10.57		mg/L		106	90 - 110		
Sulfate	10.0	9.965		mg/L		100	90 - 110		

QC Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34150-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 860-72355/78
Matrix: Water
Analysis Batch: 72355

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	9.935		mg/L		99	90 - 110
Fluoride	10.0	10.62		mg/L		106	90 - 110
Sulfate	10.0	9.831		mg/L		98	90 - 110

Lab Sample ID: LCSD 860-72355/15
Matrix: Water
Analysis Batch: 72355

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	10.09		mg/L		101	90 - 110	0	20
Fluoride	10.0	10.59		mg/L		106	90 - 110	0	20
Sulfate	10.0	10.29		mg/L		103	90 - 110	3	20

Lab Sample ID: LCSD 860-72355/79
Matrix: Water
Analysis Batch: 72355

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	9.979		mg/L		100	90 - 110	0	20
Fluoride	10.0	10.64		mg/L		106	90 - 110	0	20
Sulfate	10.0	10.02		mg/L		100	90 - 110	2	20

Lab Sample ID: LLCS 860-72355/17
Matrix: Water
Analysis Batch: 72355

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

Analyte	Spike Added	LLCS	LLCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Chloride	0.500	0.4609	J	mg/L		92	50 - 150
Fluoride	0.500	0.5002		mg/L		100	50 - 150
Sulfate	0.500	0.5109		mg/L		102	50 - 150

Lab Sample ID: MB 860-72802/3
Matrix: Water
Analysis Batch: 72802

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			10/12/22 04:56	1
Fluoride	0.100	U	0.500	0.100	mg/L			10/12/22 04:56	1
Sulfate	0.109	U	0.500	0.109	mg/L			10/12/22 04:56	1

Lab Sample ID: LCS 860-72802/4
Matrix: Water
Analysis Batch: 72802

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	9.755		mg/L		98	90 - 110
Fluoride	10.0	10.56		mg/L		106	90 - 110
Sulfate	10.0	10.07		mg/L		101	90 - 110

QC Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34150-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-72802/5
Matrix: Water
Analysis Batch: 72802

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	9.804		mg/L		98	90 - 110	0	20
Fluoride	10.0	10.62		mg/L		106	90 - 110	1	20
Sulfate	10.0	10.10		mg/L		101	90 - 110	0	20

Lab Sample ID: LLCS 860-72802/7
Matrix: Water
Analysis Batch: 72802

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

Analyte	Spike Added	LLCS	LLCS	Unit	D	%Rec	%Rec	RPD	Limit
		Result	Qualifier				Limits		
Chloride	0.500	0.4906	J	mg/L		98	50 - 150		
Fluoride	0.500	0.4603	J	mg/L		92	50 - 150		
Sulfate	0.500	0.3233	J	mg/L		65	50 - 150		

Lab Sample ID: MB 860-73378/3
Matrix: Water
Analysis Batch: 73378

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			10/15/22 13:32	1
Fluoride	0.100	U	0.500	0.100	mg/L			10/15/22 13:32	1
Sulfate	0.109	U	0.500	0.109	mg/L			10/15/22 13:32	1

Lab Sample ID: LCS 860-73378/4
Matrix: Water
Analysis Batch: 73378

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

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec	RPD	Limit
		Result	Qualifier				Limits		
Chloride	10.0	10.06		mg/L		101	90 - 110		
Fluoride	10.0	10.79		mg/L		108	90 - 110		
Sulfate	10.0	9.923		mg/L		99	90 - 110		

Lab Sample ID: LCSD 860-73378/5
Matrix: Water
Analysis Batch: 73378

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	10.07		mg/L		101	90 - 110	0	20
Fluoride	10.0	10.78		mg/L		108	90 - 110	0	20
Sulfate	10.0	10.02		mg/L		100	90 - 110	1	20

Lab Sample ID: LLCS 860-73378/7
Matrix: Water
Analysis Batch: 73378

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

Analyte	Spike Added	LLCS	LLCS	Unit	D	%Rec	%Rec	RPD	Limit
		Result	Qualifier				Limits		
Chloride	0.500	0.4866	J	mg/L		97	50 - 150		
Fluoride	0.500	0.5391		mg/L		108	50 - 150		
Sulfate	0.500	0.5283		mg/L		106	50 - 150		

QC Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34150-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 860-71727/1-A
Matrix: Water
Analysis Batch: 72088

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 71727

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.00401	U	0.0100	0.00401	mg/L		10/04/22 08:30	10/05/22 20:12	1

Lab Sample ID: MB 860-71727/1-A
Matrix: Water
Analysis Batch: 72408

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 71727

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	0.0301	U	0.100	0.0301	mg/L		10/04/22 08:30	10/07/22 19:34	1

Lab Sample ID: LCS 860-71727/2-A
Matrix: Water
Analysis Batch: 72088

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 71727

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	0.100	0.1009		mg/L		101	80 - 120

Lab Sample ID: LCS 860-71727/2-A
Matrix: Water
Analysis Batch: 72408

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 71727

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	2.50	2.633		mg/L		105	80 - 120

Lab Sample ID: LCSD 860-71727/3-A
Matrix: Water
Analysis Batch: 72088

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 71727

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	0.100	0.1008		mg/L		101	80 - 120	0	20

Lab Sample ID: LCSD 860-71727/3-A
Matrix: Water
Analysis Batch: 72408

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 71727

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	2.50	2.722		mg/L		109	80 - 120	3	20

Lab Sample ID: 860-34150-1 MS
Matrix: Water
Analysis Batch: 72088

Client Sample ID: SP-34
Prep Type: Total/NA
Prep Batch: 71727

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	10.0		0.100	10.01	4	mg/L		-19	75 - 125

Lab Sample ID: 860-34150-1 MS
Matrix: Water
Analysis Batch: 72408

Client Sample ID: SP-34
Prep Type: Total/NA
Prep Batch: 71727

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	874		2.50	845.8	4	mg/L		-1110	75 - 125

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QC Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34150-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: 860-34150-1 MSD
 Matrix: Water
 Analysis Batch: 72088

Client Sample ID: SP-34
 Prep Type: Total/NA
 Prep Batch: 71727

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD	Limit
Boron	10.0		0.100	9.561	4	mg/L		-472	75 - 125	5	20

Lab Sample ID: 860-34150-1 MSD
 Matrix: Water
 Analysis Batch: 72408

Client Sample ID: SP-34
 Prep Type: Total/NA
 Prep Batch: 71727

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD	Limit
Calcium	874		2.50	795.3	4	mg/L		-3134	75 - 125	6	20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-72330/1
 Matrix: Water
 Analysis Batch: 72330

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			10/07/22 12:03	1
Bicarbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			10/07/22 12:03	1
Carbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			10/07/22 12:03	1
Hydroxide Alkalinity	4.00	U	4.00	4.00	mg/L			10/07/22 12:03	1

Lab Sample ID: LCS 860-72330/2
 Matrix: Water
 Analysis Batch: 72330

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

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec
							Added
Total Alkalinity	250	250.0		mg/L		100	85 - 115

Lab Sample ID: LCSD 860-72330/3
 Matrix: Water
 Analysis Batch: 72330

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

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	
							Added	Result	Qualifier
Total Alkalinity	250	250.0		mg/L		100	85 - 115	0	20

Lab Sample ID: MB 860-72395/4
 Matrix: Water
 Analysis Batch: 72395

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			10/07/22 11:55	1
Bicarbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			10/07/22 11:55	1
Carbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			10/07/22 11:55	1
Hydroxide Alkalinity	4.00	U	4.00	4.00	mg/L			10/07/22 11:55	1

QC Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34150-1

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: LCS 860-72395/5
Matrix: Water
Analysis Batch: 72395

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	237.6		mg/L		95	85 - 115

Lab Sample ID: LCSD 860-72395/6
Matrix: Water
Analysis Batch: 72395

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Alkalinity	250	238.8		mg/L		96	85 - 115	1	20

Lab Sample ID: MB 860-72414/1
Matrix: Water
Analysis Batch: 72414

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			10/08/22 12:16	1
Bicarbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			10/08/22 12:16	1
Carbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			10/08/22 12:16	1
Hydroxide Alkalinity	4.00	U	4.00	4.00	mg/L			10/08/22 12:16	1

Lab Sample ID: LCS 860-72414/2
Matrix: Water
Analysis Batch: 72414

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	249.0		mg/L		100	85 - 115

Lab Sample ID: LCSD 860-72414/3
Matrix: Water
Analysis Batch: 72414

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	0	20

Lab Sample ID: 860-34150-2 DU
Matrix: Water
Analysis Batch: 72414

Client Sample ID: SP-01
Prep Type: Total/NA

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

Lab Sample ID: MB 860-72431/4
Matrix: Water
Analysis Batch: 72431

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			10/08/22 11:04	1
Bicarbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			10/08/22 11:04	1

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QC Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34150-1

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: MB 860-72431/4
Matrix: Water
Analysis Batch: 72431

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Carbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			10/08/22 11:04	1
Hydroxide Alkalinity	4.00	U	4.00	4.00	mg/L			10/08/22 11:04	1

Lab Sample ID: LCS 860-72431/5
Matrix: Water
Analysis Batch: 72431

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

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

Lab Sample ID: LCSD 860-72431/6
Matrix: Water
Analysis Batch: 72431

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit

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

Lab Sample ID: MB 860-71741/1
Matrix: Water
Analysis Batch: 71741

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			10/04/22 09:23	1

Lab Sample ID: LCS 860-71741/2
Matrix: Water
Analysis Batch: 71741

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

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

Lab Sample ID: LCSD 860-71741/3
Matrix: Water
Analysis Batch: 71741

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit

Lab Sample ID: LLCS 860-71741/4
Matrix: Water
Analysis Batch: 71741

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit

QC Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34150-1

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

Lab Sample ID: MB 860-71961/1
Matrix: Water
Analysis Batch: 71961

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			10/05/22 11:00	1

Lab Sample ID: LCS 860-71961/2
Matrix: Water
Analysis Batch: 71961

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	963.0		mg/L		96	80 - 120

Lab Sample ID: LCSD 860-71961/3
Matrix: Water
Analysis Batch: 71961

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	950.0		mg/L		95	80 - 120	1	10

Lab Sample ID: 860-34150-4 DU
Matrix: Water
Analysis Batch: 71961

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

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	9910		10810		mg/L		9	10

QC Association Summary

Client: GSI Environmental, Inc
Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34150-1

HPLC/IC

Analysis Batch: 72178

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-34150-1	SP-34	Total/NA	Water	300.0	
860-34150-1 - DL	SP-34	Total/NA	Water	300.0	
860-34150-2 - DL	SP-01	Total/NA	Water	300.0	
860-34150-3 - DL	SP-02	Total/NA	Water	300.0	
860-34150-4 - DL	SP-03	Total/NA	Water	300.0	
860-34150-5 - DL	SP-32	Total/NA	Water	300.0	
860-34150-6 - DL	DUP-01	Total/NA	Water	300.0	
860-34150-7	FB-01	Total/NA	Water	300.0	
MB 860-72178/3	Method Blank	Total/NA	Water	300.0	
MB 860-72178/49	Method Blank	Total/NA	Water	300.0	
LCS 860-72178/50	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-72178/51	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-72178/7	Lab Control Sample	Total/NA	Water	300.0	
860-34150-1 MS	SP-34	Total/NA	Water	300.0	
860-34150-1 MSD	SP-34	Total/NA	Water	300.0	
860-34150-7 MS	FB-01	Total/NA	Water	300.0	
860-34150-7 MSD	FB-01	Total/NA	Water	300.0	

Analysis Batch: 72355

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-34150-2	SP-01	Total/NA	Water	300.0	
860-34150-2	SP-01	Total/NA	Water	300.0	
860-34150-3	SP-02	Total/NA	Water	300.0	
860-34150-4	SP-03	Total/NA	Water	300.0	
860-34150-5	SP-32	Total/NA	Water	300.0	
860-34150-5	SP-32	Total/NA	Water	300.0	
860-34150-6	DUP-01	Total/NA	Water	300.0	
860-34150-6	DUP-01	Total/NA	Water	300.0	
860-34150-7	FB-01	Total/NA	Water	300.0	
MB 860-72355/13	Method Blank	Total/NA	Water	300.0	
MB 860-72355/77	Method Blank	Total/NA	Water	300.0	
LCS 860-72355/14	Lab Control Sample	Total/NA	Water	300.0	
LCS 860-72355/78	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-72355/15	Lab Control Sample Dup	Total/NA	Water	300.0	
LCSD 860-72355/79	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-72355/17	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 72802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-34150-1 - DL	SP-34	Total/NA	Water	300.0	
MB 860-72802/3	Method Blank	Total/NA	Water	300.0	
LCS 860-72802/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-72802/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-72802/7	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 73378

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-73378/3	Method Blank	Total/NA	Water	300.0	
LCS 860-73378/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-73378/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-73378/7	Lab Control Sample	Total/NA	Water	300.0	

QC Association Summary

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34150-1

Metals

Prep Batch: 71727

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-34150-1	SP-34	Total/NA	Water	3010A	
860-34150-2	SP-01	Total/NA	Water	3010A	
860-34150-3	SP-02	Total/NA	Water	3010A	
860-34150-4	SP-03	Total/NA	Water	3010A	
860-34150-5	SP-32	Total/NA	Water	3010A	
860-34150-6	DUP-01	Total/NA	Water	3010A	
860-34150-7	FB-01	Total/NA	Water	3010A	
MB 860-71727/1-A	Method Blank	Total/NA	Water	3010A	
LCS 860-71727/2-A	Lab Control Sample	Total/NA	Water	3010A	
LCS 860-71727/3-A	Lab Control Sample Dup	Total/NA	Water	3010A	
860-34150-1 MS	SP-34	Total/NA	Water	3010A	
860-34150-1 MSD	SP-34	Total/NA	Water	3010A	

Analysis Batch: 72004

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-34150-7	FB-01	Total/NA	Water	6020A	71727

Analysis Batch: 72088

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-34150-1	SP-34	Total/NA	Water	6020A	71727
860-34150-2	SP-01	Total/NA	Water	6020A	71727
860-34150-3	SP-02	Total/NA	Water	6020A	71727
860-34150-4	SP-03	Total/NA	Water	6020A	71727
860-34150-5	SP-32	Total/NA	Water	6020A	71727
860-34150-6	DUP-01	Total/NA	Water	6020A	71727
860-34150-7	FB-01	Total/NA	Water	6020A	71727
MB 860-71727/1-A	Method Blank	Total/NA	Water	6020A	71727
LCS 860-71727/2-A	Lab Control Sample	Total/NA	Water	6020A	71727
LCS 860-71727/3-A	Lab Control Sample Dup	Total/NA	Water	6020A	71727
860-34150-1 MS	SP-34	Total/NA	Water	6020A	71727
860-34150-1 MSD	SP-34	Total/NA	Water	6020A	71727

Analysis Batch: 72408

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-34150-1	SP-34	Total/NA	Water	6020A	71727
860-34150-2	SP-01	Total/NA	Water	6020A	71727
860-34150-3	SP-02	Total/NA	Water	6020A	71727
860-34150-4	SP-03	Total/NA	Water	6020A	71727
860-34150-5	SP-32	Total/NA	Water	6020A	71727
860-34150-6	DUP-01	Total/NA	Water	6020A	71727
MB 860-71727/1-A	Method Blank	Total/NA	Water	6020A	71727
LCS 860-71727/2-A	Lab Control Sample	Total/NA	Water	6020A	71727
LCS 860-71727/3-A	Lab Control Sample Dup	Total/NA	Water	6020A	71727
860-34150-1 MS	SP-34	Total/NA	Water	6020A	71727
860-34150-1 MSD	SP-34	Total/NA	Water	6020A	71727

General Chemistry

Analysis Batch: 71741

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-34150-1	SP-34	Total/NA	Water	SM 2540C	

Eurofins Houston

QC Association Summary

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34150-1

General Chemistry (Continued)

Analysis Batch: 71741 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-71741/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-71741/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-71741/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
LLCS 860-71741/4	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 71961

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-34150-2	SP-01	Total/NA	Water	SM 2540C	
860-34150-3	SP-02	Total/NA	Water	SM 2540C	
860-34150-4	SP-03	Total/NA	Water	SM 2540C	
860-34150-5	SP-32	Total/NA	Water	SM 2540C	
860-34150-6	DUP-01	Total/NA	Water	SM 2540C	
860-34150-7	FB-01	Total/NA	Water	SM 2540C	
MB 860-71961/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-71961/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-71961/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
860-34150-4 DU	SP-03	Total/NA	Water	SM 2540C	

Analysis Batch: 72330

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-34150-1	SP-34	Total/NA	Water	SM 2320B	
MB 860-72330/1	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-72330/2	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-72330/3	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Analysis Batch: 72395

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-34150-3	SP-02	Total/NA	Water	SM 2320B	
MB 860-72395/4	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-72395/5	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-72395/6	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Analysis Batch: 72414

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-34150-2	SP-01	Total/NA	Water	SM 2320B	
860-34150-4	SP-03	Total/NA	Water	SM 2320B	
860-34150-5	SP-32	Total/NA	Water	SM 2320B	
MB 860-72414/1	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-72414/2	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-72414/3	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
860-34150-2 DU	SP-01	Total/NA	Water	SM 2320B	

Analysis Batch: 72431

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-34150-6	DUP-01	Total/NA	Water	SM 2320B	
860-34150-7	FB-01	Total/NA	Water	SM 2320B	
MB 860-72431/4	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-72431/5	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-72431/6	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Lab Chronicle

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34150-1

Client Sample ID: SP-34

Lab Sample ID: 860-34150-1

Date Collected: 09/28/22 11:40

Matrix: Water

Date Received: 09/29/22 09:57

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			72802	10/12/22 09:03	WP	EET HOU
Total/NA	Analysis	300.0		1			72178	10/07/22 01:48	WP	EET HOU
Total/NA	Analysis	300.0	DL	10			72178	10/07/22 02:22	WP	EET HOU
Total/NA	Prep	3010A			50 mL	50 mL	71727	10/04/22 08:30	MD	EET HOU
Total/NA	Analysis	6020A		100			72088	10/05/22 20:21	SHZ	EET HOU
Total/NA	Prep	3010A			50 mL	50 mL	71727	10/04/22 08:30	MD	EET HOU
Total/NA	Analysis	6020A		500			72408	10/07/22 19:42	SHZ	EET HOU
Total/NA	Analysis	SM 2320B		1	50 mL	50 mL	72330	10/07/22 12:03	TL	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	71741	10/04/22 09:23	PSC	EET HOU

Client Sample ID: SP-01

Lab Sample ID: 860-34150-2

Date Collected: 09/28/22 10:20

Matrix: Water

Date Received: 09/29/22 09:57

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			72178	10/07/22 03:08	WP	EET HOU
Total/NA	Analysis	300.0		10			72355	10/07/22 20:51	RBNS	EET HOU
Total/NA	Analysis	300.0		100			72355	10/07/22 21:03	RBNS	EET HOU
Total/NA	Prep	3010A			50 mL	50 mL	71727	10/04/22 08:30	MD	EET HOU
Total/NA	Analysis	6020A		100			72088	10/05/22 20:29	SHZ	EET HOU
Total/NA	Prep	3010A			50 mL	50 mL	71727	10/04/22 08:30	MD	EET HOU
Total/NA	Analysis	6020A		500			72408	10/07/22 19:50	SHZ	EET HOU
Total/NA	Analysis	SM 2320B		1	50 mL	50 mL	72414	10/08/22 12:16	TL	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	71961	10/05/22 11:00	PSC	EET HOU

Client Sample ID: SP-02

Lab Sample ID: 860-34150-3

Date Collected: 09/28/22 11:05

Matrix: Water

Date Received: 09/29/22 09:57

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			72178	10/07/22 03:30	WP	EET HOU
Total/NA	Analysis	300.0		10			72355	10/07/22 21:48	RBNS	EET HOU
Total/NA	Prep	3010A			50 mL	50 mL	71727	10/04/22 08:30	MD	EET HOU
Total/NA	Analysis	6020A		100			72088	10/05/22 20:32	SHZ	EET HOU
Total/NA	Prep	3010A			50 mL	50 mL	71727	10/04/22 08:30	MD	EET HOU
Total/NA	Analysis	6020A		500			72408	10/07/22 19:53	SHZ	EET HOU
Total/NA	Analysis	SM 2320B		1			72395	10/07/22 13:38	TL	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	71961	10/05/22 11:00	PSC	EET HOU

Lab Chronicle

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34150-1

Client Sample ID: SP-03

Lab Sample ID: 860-34150-4

Date Collected: 09/28/22 09:35

Matrix: Water

Date Received: 09/29/22 09:57

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			72178	10/07/22 03:53	WP	EET HOU
Total/NA	Analysis	300.0		10			72355	10/07/22 22:00	RBNS	EET HOU
Total/NA	Prep	3010A			50 mL	50 mL	71727	10/04/22 08:30	MD	EET HOU
Total/NA	Analysis	6020A		100			72088	10/05/22 20:35	SHZ	EET HOU
Total/NA	Prep	3010A			50 mL	50 mL	71727	10/04/22 08:30	MD	EET HOU
Total/NA	Analysis	6020A		500			72408	10/07/22 19:56	SHZ	EET HOU
Total/NA	Analysis	SM 2320B		1	50 mL	50 mL	72414	10/08/22 12:16	TL	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	71961	10/05/22 11:00	PSC	EET HOU

Client Sample ID: SP-32

Lab Sample ID: 860-34150-5

Date Collected: 09/28/22 09:05

Matrix: Water

Date Received: 09/29/22 09:57

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			72178	10/07/22 04:16	WP	EET HOU
Total/NA	Analysis	300.0		10			72355	10/07/22 22:12	RBNS	EET HOU
Total/NA	Analysis	300.0		100			72355	10/07/22 22:24	RBNS	EET HOU
Total/NA	Prep	3010A			50 mL	50 mL	71727	10/04/22 08:30	MD	EET HOU
Total/NA	Analysis	6020A		100			72088	10/05/22 20:43	SHZ	EET HOU
Total/NA	Prep	3010A			50 mL	50 mL	71727	10/04/22 08:30	MD	EET HOU
Total/NA	Analysis	6020A		200			72408	10/07/22 20:04	SHZ	EET HOU
Total/NA	Analysis	SM 2320B		1	50 mL	50 mL	72414	10/08/22 15:15	TL	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	71961	10/05/22 11:00	PSC	EET HOU

Client Sample ID: DUP-01

Lab Sample ID: 860-34150-6

Date Collected: 09/28/22 11:40

Matrix: Water

Date Received: 09/29/22 09:57

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			72178	10/07/22 04:38	WP	EET HOU
Total/NA	Analysis	300.0		1			72355	10/07/22 22:36	RBNS	EET HOU
Total/NA	Analysis	300.0		10			72355	10/07/22 22:49	RBNS	EET HOU
Total/NA	Prep	3010A			50 mL	50 mL	71727	10/04/22 08:30	MD	EET HOU
Total/NA	Analysis	6020A		100			72088	10/05/22 20:46	SHZ	EET HOU
Total/NA	Prep	3010A			50 mL	50 mL	71727	10/04/22 08:30	MD	EET HOU
Total/NA	Analysis	6020A		500			72408	10/07/22 20:07	SHZ	EET HOU
Total/NA	Analysis	SM 2320B		1			72431	10/08/22 12:07	TL	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	71961	10/05/22 11:00	PSC	EET HOU

Lab Chronicle

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34150-1

Client Sample ID: FB-01

Lab Sample ID: 860-34150-7

Date Collected: 09/28/22 09:45

Matrix: Water

Date Received: 09/29/22 09:57

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			72178	10/07/22 01:03	WP	EET HOU
Total/NA	Analysis	300.0		1			72355	10/07/22 20:27	RBNS	EET HOU
Total/NA	Prep	3010A			50 mL	50 mL	71727	10/04/22 08:30	MD	EET HOU
Total/NA	Analysis	6020A		1			72004	10/04/22 23:04	SHZ	EET HOU
Total/NA	Prep	3010A			50 mL	50 mL	71727	10/04/22 08:30	MD	EET HOU
Total/NA	Analysis	6020A		1			72088	10/05/22 20:48	SHZ	EET HOU
Total/NA	Analysis	SM 2320B		1			72431	10/08/22 12:15	TL	EET HOU
Total/NA	Analysis	SM 2540C		1	200 mL	200 mL	71961	10/05/22 11:00	PSC	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 2H22 GW

Job ID: 860-34150-1

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	T104704215-22-47	06-30-23

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
SM 2320B		Water	Bicarbonate Alkalinity as CaCO ₃
SM 2320B		Water	Carbonate Alkalinity as CaCO ₃
SM 2320B		Water	Hydroxide Alkalinity

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- 2
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- 13
- 14

Method Summary

Client: GSI Environmental, Inc
Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34150-1

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	EET HOU
6020A	Metals (ICP/MS)	SW846	EET HOU
SM 2320B	Alkalinity	SM	EET HOU
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET HOU
3010A	Preparation, Total Metals	SW846	EET HOU

Protocol References:

- MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
- SM = "Standard Methods For The Examination Of Water And Wastewater"
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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



Sample Summary

Client: GSI Environmental, Inc
Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34150-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-34150-1	SP-34	Water	09/28/22 11:40	09/29/22 09:57
860-34150-2	SP-01	Water	09/28/22 10:20	09/29/22 09:57
860-34150-3	SP-02	Water	09/28/22 11:05	09/29/22 09:57
860-34150-4	SP-03	Water	09/28/22 09:35	09/29/22 09:57
860-34150-5	SP-32	Water	09/28/22 09:05	09/29/22 09:57
860-34150-6	DUP-01	Water	09/28/22 11:40	09/29/22 09:57
860-34150-7	FB-01	Water	09/28/22 09:45	09/29/22 09:57

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- 2
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- 9
- 10
- 11
- 12
- 13
- 14

4147 Greenbriar Dr
Stafford TX 77477
Phone: 281-240-4200

Chain of Custody Record

(Project delayed from August, rescheduled in Sept. due to rain at site)



Environment Testing
America

Client Information

Client Contact: Mike Schofield
Company: GSI Environmental Inc

Sampler: Scott Vale + HM1 Team
Phone: 832 347 4521

Lab P#: Kudchadkar Sachin G
E-Mail: Sachin.Kudchadkar@et.eurofins.com

Carrier/Tracking No(9):

COC No: 860-11858-1220 1

Page: 1 of 1

Address: 9600 Great Hills Trail Suite 350E
City: Austin
State, Zip: TX 78759

Phone: 512-346-4474(Tel) 512-346-4476(Fax)

Compliance Project: Yes No

Purchase Order Requested: Yes No

Project #: 86001746

Project Name: San Miguel Electrical Co-Op 2H2F GW (Ash Pile)

Site: SSO#

Due Date Requested:

TAT Requested (days):

Analysis Requested

Field Filtered Sample (Yes or No)

Perform MS/MSD (Yes or No)

2320B, 300_ORGFM_28D (Alkalinity, CL, F, SO₄)

8040C (MOD) Custom List 6020A (B, Ca)

2540C Calcd Local Method (TDS)

State of Origin:

Job #:

Preservation Codes:

A HCL
B NaOH
C Zn Acetate
D Nitric Acid
E NaHSO₄
F NaOH
G Amchlor
H Ascorbic Acid
I Ice
J DI Water
K EDTA
L EDA
M Hexane
N None
O AsH₂O₂
P Na₂CO₃
Q Na₂SO₃
R Na₂S₂O₃
S H₂SO₄
T TSP Dodecylhydrate
U Acetone
V MCAA
W pH 4.5
Y Trizma
Z other (Specify)

Special Instructions/Note:

Total Number of containers

860-34150 Chain of Custody

Method of Shipment: Cons Deliv

Archive For

Months

Special Instructions/QC Requirements: CCR Agency's 111 Detection Monitoring

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

Return To Client Disposal By Lab

Possible Hazard Identification

Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological

Deliverable Requested I II III IV Other (Specify)

Empty Kit Relinquished by:

Relinquished by: [Signature]

Date/Time: 9-29-22 0951

Company: HM1

Received by: [Signature]

Date/Time: 9/29/22 0951

Company: [Signature]

Company: [Signature]

Relinquished by:

Date/Time:

Company:

Received by:

Date/Time:

Company:

Company:

Custody Seals Intact: Yes No

Custody Seal No.

Cooler Temperature(s) °C and Other Remarks: Temp: 1.5 IR ID: HOU-343

C/F: 40.3

Corrected Temp: 1.8

Ver: 06/08/2021

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

Chain of Custody Record
 Project delayed from August, rescheduled in Sept due to rain at site

eurofins Environment Testing
 America

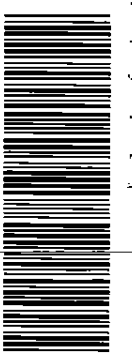
Client Information
 Client Contact: **Scott Wade + HMI Team**
 Phone: **832-347-4521**
 Lab P#: **Sachin Kudchadkar Sachin G**
 E-Mail: **Sachin.Kudchadkar@Eurofins.com**
 Carrier Tracking No(s): **TX**
 COC No: **860-3614-1220-1**
 Page: **1 of 1**

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: **mlschorfield@gsi-net.com**
 Project Name: **San Miguel Electrical Co-Op 2H2Y GW (Extraction System)**
 Project #: **86001746**
 Site: **Instein Interceptor Tank & Well**
 PWSID: **SSCOW#**
 Due Date Requested: **W/O #**
 TAT Requested (days): **PO #**
 Compliance Project: **Δ Yes Δ No**
 Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix (Water, Soil, Overstake)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Carrier Tracking No(s)	COC No	Page
EW-01	8/28/22	1205	G	Water	N	N			
EW-02	8/28/22	1240	G	Water	N	N			
EW-03	8/28/22	1310	G	Water	N	N			
EW-04	8/28/22	1345	G	Water	N	N			
EW-05	8/28/22	1025	G	Water	N	N			
EW-06	8/28/22	1105	G	Water	N	N			
DUP-04	8/28/22	1000	G	Water	N	N			
IT Well	8/28/22	930	G	Water	N	N			
SM	8/28/22	930	G	Water	N	N			

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological
 Deliverable Requested: I II III IV Other (specify)

Special Instructions/Note:
 Temp. 2.8 IR ID: HOU-344
 C/F +1.2
 Corrected Temp: 4.0
 860-34149 Chain of Custody



Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For
 Special Instructions/OC Requirements: **CCE - Appendix III & CCE - Appendix V**
 Method of Shipment: **Cons. Deliv.**

Empty Kit Relinquished by
 Relinquished by: **mm**
 Date/Time: **9-29-22 0951**
 Company: **HMI**

Relinquished by:
 Date/Time: **9/29/22 0951**
 Company: **HMI**

Custody Seats Intact: Yes No
 Custody Seal No. **9-29-22 0951**
 Received by: **AS**
 Date/Time: **9/29/22 0951**
 Company: **GE**

Login Sample Receipt Checklist

Client: GSI Environmental, Inc

Job Number: 860-34150-1

Login Number: 34150

List Source: Eurofins Houston

List Number: 1

Creator: Milone, Jeancarlo

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

September 2022 Sampling Event (Job ID: 860-34152-1)

OVERVIEW

GSI Environmental Inc. (GSI) reviewed one data package from Eurofins Environment Testing – Houston located in Stafford, Texas (EET HOU) for the analysis of **twenty-six groundwater and blank samples collected from the Ash Ponds and Equalization Pond on 28 September 2022** at the San Miguel Electric Cooperative, Inc., Christine, Atascosa County, Texas site. EET HOU sent the samples to Eurofins Environment Testing – Pensacola located in Pensacola, Florida (EET PEN) for metals and mercury analysis and Eurofins Environment Testing – St. Louis located in St. Louis Missouri (EET-SL) for Radium-228 analysis. 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, EET PEN and EET SL were National Environmental Laboratory Accreditation Program (NELAP)-accredited under the Texas Laboratory Accreditation Program (Certification Number: T104704215-22-47, T104704286 and T104704193, respectively) for the matrices, analytes, and methods of analysis requested on the chain-of-custody documentation, with the following exceptions. EET HOU is not certified for Bicarbonate Alkalinity as Bicarbonate Alkalinity as CaCO₃, Carbonate Alkalinity as CaCO₃ or Hydroxide Alkalinity by Method 2320B. TAL SL is not certified for Radium-228 by Method 904.0. A copy of EET HOU's NELAP certificate applicable to the period during which the laboratory generated the data in this report is included in Attachment A.

Intended Use of Data

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

- Method 6020B – Metals by Inductively Coupled Plasma (ICP)/Mass Spectrometry (MS)
- Method 300.0 – Anions, Ion Chromatography
- Method SM2320B - Alkalinity
- Method SM2540C - Total Dissolved Solids (TDS)
- Method 7470A – Mercury (Cold Vapor Atomic Absorption (CVAA) Spectroscopy)
- Method 904.0 – Radium-228 (GFPC)

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 LCN and reportable data included in this review are attached to this DUS as Attachment B.

INTRODUCTION

Twenty-six (26) 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 sample detection limit (SDL). Results between the SDL and sample quantitation limit (SQL) 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 C-O-C. The samples were received by the laboratory in the appropriate containers and in good condition. The receipt temperature of the samples was below the acceptance criteria of 2°C - 6°C, at a concentration of 1.8°C. Samples were prepared and analyzed within method-specified holding times, and field preservation was done as specified in the Sampling and Analysis Plan [SAP] (GSI,2019). Items related to the C-O-C, including preservation, holding times and sample dilution, are listed below.

- The sample identified as DUP-02 is a field duplicate of MW-03.
- The sample identified as DUP-03 is a field duplicate of EP-33.
- The sample identified as EB-01 is an equipment blank collected at PZ-06.
- The sample identified as EB-02 is an equipment blank collected at MW-04.

- The sample identified as FB-02 is a field blank collected near PZ-05.
- The sample identified as FB-03 is a field blank collected near EP-36.
- Several samples were diluted to bring the concentration of target analytes within the calibration range. These included EP-31, EP-32, EP-33, EP-34, EP-35, EP-36, EP-37, EP-38, MW-03, MW-04, DUP-02, DUP-03, FB-02, FB-03, EB-01, EB-02, PZ-02, PZ-03, PZ-05, PZ-06, AP-31, AP-32, AP-33, AP-34, AP-35, AP-36. Elevated reporting limits (RLs) are provided.
- The LCN and associated Electronic Data Deliverable (EDD) indicated that several samples were analyzed outside of analytical holding times for Nitrate as N and/or Fluoride. The laboratory identified these samples with an “H” qualifier.

Finding: In addition to the “H” qualifiers issued by the laboratory, “JL” qualifiers were added to detected results and “UJL” qualifiers were added to non-detected results of Nitrate as N and/or Fluoride in samples that were analyzed outside of analytical holding times.

Radium Results

According to the LCN, 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 the LCN. Radium 228 sample results are reported with the count date/time applied as the Activity Reference Date.

The LCN indicated that the sample duplicate from batch 584603 was inadvertently not counted. Due to the nature of the test, the Duplicate cannot be recounted. Standard procedure is to re-extract the samples; however, there was insufficient volume to do so. The batch QC consisted of a Method Blank and Laboratory Control Sample only.

Finding: No qualifiers were added per this evaluation.

Calibrations

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

- The Initial Calibration Verification (ICV) result for batch 400-598650 was above the upper control limit. Sample results were non-detects and were qualified by the laboratory with a “^1+” symbol. Additional qualifiers were added as part of this evaluation as noted below.
- The LCN noted that the Reporting Limit Check Standard associated with batch 400-6598804 recovered above the upper control limit for Antimony. The samples associated with this standard were non-detect for the affected analyte; therefore, the data were reported and qualified by the laboratory with a “^3+” symbol. Because the standard was above specifications and not detected, no additional qualifiers were added as part of this evaluation.
- The LCN noted that the ICV for batch 400-600516 passed recovery/accuracy criteria which serves the ICV purpose of verifying the calibration standards. The replicate Relative Percent Differences (RPDs) for the elements were outside of the criteria for standards but

within the criteria for field samples. Data was therefore reported by the laboratory and no additional qualifiers were added as part of this evaluation.

- The LCN indicated that the instrument blank for analytical batches 860-72174, 860-72802, 860-74156 and 860-75912 contained Chloride above the Method Detection Limit (MDL). Associated samples were not re-extracted and/or re-analyzed by the laboratory because results were greater than ten times the value found in the method blank. No qualifiers were added as part of this evaluation.
- The LCN stated that Silicon has been identified as a poor performing analyte using Method 6020B; therefore, an additional re-extraction/re-analysis was not performed for the samples. The Method Blank, Laboratory Control Sample, and samples were reanalyzed for Silicon with the same outcome. However, Silicon data was not included in this laboratory package. As a result, no qualifiers were added as part of this evaluation.
- It was noted in the LCN that due to a systematic error, the computer time stamp was misidentified when running Method 6020B. The date of this run was 11/09/2022 with each shot being one hour prior to the time noted in the run log.

Finding: In addition to the “^1+” symbol issued by the laboratory, affected non-detected results were qualified with a “UJ” as part of this evaluation.

Blanks

Method Blanks

- The LCN stated that the Method Blank (MB) for analytical batches 860-72174 and 860-72178 contained Chloride above the Method Detection Limit (MDL) and this target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or reanalysis of samples was not performed by the laboratory. However, upon review of the data package, the MB for analytical batch 860-72174 did not contain a concentration that was above the MDL; and there is not an analytical batch identified as 860-72718. As such, no qualifiers were added per this evaluation.
- The MB for analytical batch 860-72355 contained Sulfate 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. As part of this evaluation, Sulfate samples in analytical batch 860-72355 with concentrations less than 5 times (<5X) the method blank concentration were qualified with a “U”.
- The MB for analytical batch 400-598650 contained Boron and Chromium above the MDL. The laboratory qualified affected results with a “B”, but none of these samples contained a concentration that was less than 5X the MB concentration. As such, no additional qualifiers were added per this evaluation.

Field Blanks

- Two field blanks, FB-02 and FB-03, were collected during sampling activities at the same locations as PZ-05 and EP-36, respectively; and analyzed for the same parameters as “normal” sample.

- Chloride, Nitrate as N, Fluoride, Sulfate, Barium, Calcium, Mercury, and Total Dissolved Solids (TDS) were detected at concentrations above the MDL in FB-02. However, none of these analytes were detected in PZ-05 at concentrations that were within 5X of the field blank concentrations, except for Mercury.
- Boron, Chromium Mercury, and TDS were detected at concentrations above the MDL in FB-03. However, none of these analytes were detected in EP-36 at concentrations that were within 5X of the field blank concentrations, except for Mercury.

Equipment Blanks

- Two equipment blanks, EB-01 and EB-02, were collected during sampling activities at the same location as PZ-06 and MW-04, respectively; and analyzed for the same parameters as “normal” sample.
 - Chloride, Nitrate as N, Sulfate, Calcium, Mercury, and TDS were detected at concentrations above the MDL in EB-01. However, none of these analytes were detected in PZ-06 at concentrations that were within 5X of the equipment blank concentrations, except for Mercury.
 - Chloride, Nitrate as N, Fluoride, Sulfate, Barium, Calcium, Mercury, and TDS were detected at concentrations above the MDL in EB-02. However, none of these analytes were detected in MW-04 at concentrations that were within 5X of the equipment blank concentrations, except for Barium and Mercury.

Finding: “U” qualifiers were issued to Sulfate results in samples in analytical batch 860-72355 that were detected at concentrations that were <5X the blank concentration.

“U” qualifiers were issued to Mercury results in samples PZ-05 and EP-36 because they contained concentrations that were less than 5X their associated field blank concentrations.

“U” qualifiers were issued to Mercury results in samples PZ-06 and MW-04, and Barium results in MW-04 because they contained concentrations that were less than 5X their associated equipment blank concentrations.

Internal Standard and Surrogate Recoveries (VOCs and SVOCs Only)

Not applicable.

Laboratory Control Samples

No issues with Laboratory Control Sample (LCS)/Laboratory Control Sample Duplicate (LCSD) recoveries or Relative Percent Differences (RPDs) were noted in the LCN or during review of this laboratory package.

Finding: No qualifiers were issued as part of this evaluation.

Matrix Spike/Matrix Spike Duplicates and Laboratory Duplicates

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

- The MS/MSD recoveries for analytical batch 860-72355 were outside control limits for Sulfate. However, the spiking amount was less than four times (4X) the result in the un-spiked parent sample and therefore does not represent the matrix effect.
- The MS/MSD recoveries for analytical batch 860-73379 were outside control limits for Nitrate as N. Sample matrix interference and/or non-homogeneity are suspected because the associated LCS recovery was within acceptance limits. In addition, the spiking amount was greater than four times (4X) the result in the un-spiked parent sample, but none of the spike was recovered. This MS/MSD sample was collected at PZ-03. As part of this evaluation, qualifiers were added to results from PZ-03 as noted below.
- The MS/MSD recoveries for analytical batch 860-74156 were outside control limits for Chloride and Sulfate. However, the spiking amount was less than 4X the result in the un-spiked parent sample and therefore does not represent the matrix effect.
- The MS/MSD recoveries for analytical batch 860-75701 were outside control limits for Chloride and Sulfate. However, the spiking amount was less than 4X the result in the un-spiked parent sample and therefore does not represent the matrix effect.
- The MSD recoveries and RPDs for analytical batch 860-75702 were outside control limits for Nitrate as N. Sample matrix interference and/or non-homogeneity are suspected because the associated LCS recovery was within acceptance limits. In addition, the spiking amount was greater than 4X the result in the un-spiked parent sample. The laboratory qualified affected results with "F1" if the %R was outside specifications and "F2" if the RPD was outside specifications. This MS/MSD sample was collected at the same location as PZ-02, but no field samples are associated with this batch number. As a result, no additional qualifiers were added per this evaluation.
- The MS/MSD recoveries for analytical batch 400-598494 have issues. This MS/MSD sample was collected at the same location as field sample EP-31 and had some results that were not-detected and others that were extremely high. The laboratory qualified affected results with "F1" if the %R was outside specifications and "F2" if the RPD was outside specifications. No field samples are associated with this batch number; therefore, no additional qualifiers were added per this evaluation.
- The MS/MSD recoveries for analytical batch 400-598650 were above control limits for Barium, Selenium and Lithium. This MS/MSD sample was collected at the same location as field sample EP-31. The spiking amounts are greater than 4X the result in the un-spiked parent samples and therefore do represent the matrix effect; however, none of these analytes were detected in sample EP-31. As a result, no additional qualifiers were added per this evaluation.
- The MS/MSD recoveries for analytical batch 400-601096 have issues. This MS/MSD sample was collected at the same location as field sample PZ-03 and had some results that were not-detected and others that were extremely high. The laboratory qualified affected results with "F1" if the %R was outside specifications, "4" if the analyte present in the original sample is greater than 4X the MS concentration, and a "^3+/-" symbol to note that the Reporting Limit Check Standard is outside acceptance limits, either biased high or low. No field samples are associated with this batch number; therefore, no additional qualifiers were added per this evaluation.

Findings: “JL” qualifiers had already been added to detected results of Nitrate N in sample PZ-03 due to holding time exceedances, but an additional “reason code” was added to the EDD to note the additional reason for the qualifiers. “R” (rejected) qualifiers were added to non-detected results of Nitrate N in sample PZ-03 sample because the Percent Recovery (%R) was below 30%.

Field Duplicates (Field Precision)

Two field duplicates identified as DUP-02 and DUP-03 were collected with samples MW-03 and EP-33, respectively. Field precision was calculated and the RPD was within the project-defined QC acceptance criteria for all analytes, except for Chloride and Sulfate in the DUP-02/MW-03 pair; and Barium, Chromium, Molybdenum, and Lithium in the DUP-03/EP-33 pair. Chloride and Sulfate in the DUP-02/MW-03 pair and Lithium in the DUP-03/EP-33 pair were qualified as noted below. Barium, Chromium and Molybdenum in the DUP-03/EP-33 pair contained one or more concentrations that were less than 5X the MQL. A comparison of the field samples and the duplicate samples are shown in Table 3.

Finding: “J” qualifiers were added to Chloride and Sulfate results in the DUP-02/MW-03 pair and Lithium results in the DUP-03/EP-33 pair because the Relative Percent Difference (RPD) between the field blank pairs was outside specifications and the results were greater than 5X the Method Quantitation Limits (MQL).

“J” qualifiers were added to detected results and “UJL” qualifiers were added to non-detected results of Barium, Chromium and Molybdenum results in the DUP-03/EP-33 pair because the RPD between the field blank pairs was outside specifications and at least one of two results was greater than 5X the MQL.

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. One sample was rejected based on this review and validation and several qualifiers were added to affected samples. See Table 2, included as Attachment C, for qualifiers added as part of this 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
09/28/2022	EET HOU	860-34152-1	PZ-02	Water
09/28/2022	EET HOU	860-34152-2	PZ-03	Water
09/28/2022	EET HOU	860-34152-3	AP-31	Water
09/28/2022	EET HOU	860-34152-4	AP-32	Water
09/28/2022	EET HOU	860-34152-5	AP-33	Water
09/28/2022	EET HOU	860-34152-6	AP-34	Water
09/28/2022	EET HOU	860-34152-7	AP-35	Water
09/28/2022	EET HOU	860-34152-8	AP-36	Water
09/28/2022	EET HOU	860-34152-9	MW-03	Water
09/28/2022	EET HOU	860-34152-10	PZ-05	Water
09/28/2022	EET HOU	860-34152-11	PZ-06	Water
09/28/2022	EET HOU	860-34152-12	DUP-02	Water
09/28/2022	EET HOU	860-34152-13	FB-02	Water
09/28/2022	EET HOU	860-34152-14	EB-01	Water
09/28/2022	EET HOU	860-34152-15	EP-31	Water
09/28/2022	EET HOU	860-34152-16	EP-32	Water
09/28/2022	EET HOU	860-34152-17	EP-33	Water
09/28/2022	EET HOU	860-34152-18	EP-34	Water
09/28/2022	EET HOU	860-34152-19	EP-35	Water
09/28/2022	EET HOU	860-34152-20	EP-36	Water
09/28/2022	EET HOU	860-34152-21	EP-37	Water
09/28/2022	EET HOU	860-34152-22	EP-38	Water
09/28/2022	EET HOU	860-34152-23	MW-04	Water
09/28/2022	EET HOU	860-34152-24	DUP-03	Water
09/28/2022	EET HOU	860-34152-25	FB-03	Water
09/28/2022	EET HOU	860-34152-26	EB-02	Water

Notes:
 EET HOU: Eurofins Houston

TABLE 2
Qualifiers Added During Data Usability Review
 See Appendix C

TABLE 3
Field Duplicate Detections

Analyte	MQL (MDL) (mg/L)	Primary Sample Result (mg/L)	Field Duplicate Result (mg/L)	Relative Percent Difference	Notes
MW-03 and DUP-02					
Chloride	2.0	1170	1800	42.4 %	"J" qualifiers issued
Nitrate as N	0.0391	2.01 H	1.99 H	1.00 %	A
Fluoride	0.100	0.683	0.735	7.33 %	A
Sulfate	1.09	2690	4100	41.53 %	"J" qualifiers issued
Barium	0.0140	0.014 U	0.0153 J	<5MQL	<± 2MQL; A
Beryllium	0.0184	0.0285 J	0.0245 J	<5MQL	<± 2MQL; A
Boron	0.0236	12.2	12.1	0.82 %	A
Cadmium	0.0130	0.0631	0.0646	2.35 %	A
Calcium	2.50	543	538	0.93 %	A
Cobalt	0.0500	0.372	0.365	1.90 %	A
Selenium	0.0164	0.0183 J	0.0171 J	<5MQL	<± 2MQL; A
Lithium	0.0980	1.98	1.98	0.00 %	A
Mercury	0.150	1.44	1.44	0.00 %	A
TDS	100	8420	8500	0.95 %	A
EP-33 and DUP-03					
Chloride	2.0	2290	2300	0.44 %	A
Nitrate as N	0.0391	0.568 H	0.719 H	23.47 %	A
Sulfate	1.09	3200	3180	0.63 %	A
Barium	0.00350	0.07 U	0.0182	117.46 %	"J" and "UJ" qualifiers added
Boron	0.00590	61	70.5 B	14.45 %	A
Calcium	0.625	449	475	5.63 %	A
Chromium	0.0050	0.1 U	0.00765 JB	171.58 %	"J" and "UJ" qualifiers added
Molybdenum	0.0065	0.13 U	0.0112 J	168.28 %	"J" and "UJ" qualifiers added

Analyte	MQL (MDL) (mg/L)	Primary Sample Result (mg/L)	Field Duplicate Result (mg/L)	Relative Percent Difference	Notes
Lithium	0.0245	0.542	0.791	37.36 %	"J" qualifiers issued
Mercury	0.150	1.03	1.03	0.00 %	A
Total Alkalinity	4.0	236	217	8.39 %	A
Bicarbonate Alkalinity as CaCO3	4.0	236	217	8.39 %	A
TDS	100	8110	8850	8.73 %	A

Notes:

1. MQL: Method Quantitation Limit
2. MDL: Method Detection Limit
3. H: The analytical holding time was exceeded
4. U; The analyte was not detected above the MDL
5. J: The result is less than the RL but greater than or equal to the MDL and the result is estimated
6. B: Compound was found in the blank and sample
7. mg/L: milligrams per liter
8. $RPD = (PR-FD)/AVERAGE(PR+FD)*100$, where PR is the Primary Sample and FD is the Field Duplicate
9. A = Acceptable RPD.
10. <5MQL: One or both results were detected at a concentration less than 5 times the MQL. Precision has been evaluated based on the absolute difference between the results.
11. $\pm 2MQL$: The absolute difference between the concentrations is less than twice the MQL.

Attachment A

Eurofins Houston

TCEQ NELAP-Recognized Laboratory Accreditation Certificate



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.

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

Certificate Number: T104704215-22-47
Effective Date: 7/18/2022
Expiration Date: 6/30/2023

**Executive Director Texas Commission on
Environmental Quality**

Attachment B

Eurofins Houston

Analytical Report

Job ID.: 860-34152-1



ANALYTICAL REPORT

PREPARED FOR

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

Generated 11/29/2022 3:40:09 PM

JOB DESCRIPTION

San Miguel Electrical Co-Op 2H22 GW

JOB NUMBER

860-34152-1

Eurofins Houston

Job Notes

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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11/29/2022 3:40:09 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: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-1

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.
F2	MS/MSD RPD exceeds control limits
H	Sample was prepped or analyzed beyond the specified holding time
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
^1+	Initial Calibration Verification (ICV) is outside acceptance limits, high biased.
^3-	Reporting Limit Check Standard is outside acceptance limits, low biased.
^3+	Reporting Limit Check Standard 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.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

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

Rad

Qualifier	Qualifier Description
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

Eurofins Houston

Definitions/Glossary

Client: GSI Environmental, Inc
Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-1

Glossary (Continued)

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

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Case Narrative

Client: GSI Environmental, Inc
Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-1

Job ID: 860-34152-1

Laboratory: Eurofins Houston

Narrative

Job Narrative 860-34152-1

Comments

No additional comments.

Receipt

The samples were received on 9/29/2022 9:51 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.

RAD

Method 904.0: Radium-228 batch 584603

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

FB-03 (860-34152-25), EB-02 (860-34152-26), (LCS 160-584603/2-A), (MB 160-584603/1-A), (380-22312-A-1-B) and (380-22312-B-1-A DU)

Method 904.0: Radium-228 batch 584603

The sample duplicate was inadvertently not counted. Due to the nature of the test the DU cannot be recounted. Standard procedure is to re-extract the samples however there is insufficient volume. Batch QC consist of MB and LCS only. The client should take this into consideration when evaluating the data.

FB-03 (860-34152-25) and EB-02 (860-34152-26)

Method PrecSep_0:

Methods 904.0, 9320: Radium-228 batch 586626

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-37 (860-34152-21), EP-38 (860-34152-22), MW-04 (860-34152-23), DUP-03 (860-34152-24), (LCS 160-586626/2-A), (MB 160-586626/1-A), (380-24357-A-1-A) and (380-24357-B-1-A DU)

Method PrecSep_0:

Methods 904.0, 9320: Radium-228 batch 586930

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 (860-34152-1), PZ-03 (860-34152-2), PZ-03 (860-34152-2[MS]), PZ-03 (860-34152-2[MSD]), AP-31 (860-34152-3), AP-32 (860-34152-4), AP-33 (860-34152-5), AP-34 (860-34152-6), AP-35 (860-34152-7), AP-36 (860-34152-8), MW-03 (860-34152-9), PZ-05 (860-34152-10), PZ-06 (860-34152-11), DUP-02 (860-34152-12), FB-02 (860-34152-13), EB-01 (860-34152-14), (LCS 160-586930/2-A) and (MB 160-586930/1-A)

Method 904.0: Radium-228 batch 587264

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 (860-34152-15), EP-31 (860-34152-15[MS]), EP-31 (860-34152-15[MSD]), EP-32 (860-34152-16), EP-33 (860-34152-17), EP-34 (860-34152-18), EP-35 (860-34152-19), EP-36 (860-34152-20), (LCS 160-587264/2-A) and (MB 160-587264/1-A)

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

Metals

Case Narrative

Client: GSI Environmental, Inc
Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-1

Job ID: 860-34152-1 (Continued)

Laboratory: Eurofins Houston (Continued)

Method 7470A: The method blank for preparation batch 400-595069 and analytical batch 400-596411 contained Mercury 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.

Methods 200.8, 6020, 6020B: The initial calibration verification (ICV) result for batch 400-598650 was above the upper control limit. Sample results were non-detects, and have been reported as qualified data.

Method 6020B: The following samples were diluted to bring the concentration of target analytes within the calibration range: EP-37 (860-34152-21), MW-04 (860-34152-23), DUP-03 (860-34152-24) and FB-03 (860-34152-25). Elevated reporting limits (RLs) are provided.

Methods 6020, 6020B: The CRI associated with batch 400-598804 recovered above the upper control limit for Antimony. The samples associated with this CRI were non-detect for the affected analytes; therefore, the data have been reported.

Methods 6020, 6020B: Silicon has been identified as a poor performing analyte; therefore, an additional re-extraction/re-analysis was not performed. EP-31 (860-34152-15) The MB, LCS and sample was reanalyzed for Silicon with the same outcome.

Methods 200.8, 6020, 6020B: The following samples were diluted to bring the concentration of target analytes within the calibration range: EP-31 (860-34152-15), EP-37 (860-34152-21), MW-04 (860-34152-23), DUP-03 (860-34152-24) and FB-03 (860-34152-25). Elevated reporting limits (RLs) are provided.

Methods 200.8, 6020, 6020B: The following samples were diluted to bring the concentration of target analytes within the calibration range: PZ-02 (860-34152-1), PZ-03 (860-34152-2), AP-31 (860-34152-3) and AP-32 (860-34152-4). Elevated reporting limits (RLs) are provided.

Method 6020B: The following samples were diluted to bring the concentration of target analytes within the calibration range: PZ-02 (860-34152-1), PZ-03 (860-34152-2), AP-31 (860-34152-3), AP-32 (860-34152-4), AP-33 (860-34152-5), AP-34 (860-34152-6), AP-35 (860-34152-7), AP-36 (860-34152-8), MW-03 (860-34152-9), PZ-05 (860-34152-10), PZ-06 (860-34152-11), DUP-02 (860-34152-12), FB-02 (860-34152-13), EB-01 (860-34152-14), EP-32 (860-34152-16), EP-33 (860-34152-17), EP-34 (860-34152-18), EP-35 (860-34152-19), EP-36 (860-34152-20), EP-38 (860-34152-22) and EB-02 (860-34152-26). Elevated reporting limits (RLs) are provided.

Method 6020B: Silicon has been identified as a poor performing analyte; therefore, an additional re-extraction/re-analysis was not performed. PZ-02 (860-34152-1), PZ-03 (860-34152-2), AP-31 (860-34152-3), AP-32 (860-34152-4), AP-33 (860-34152-5), AP-34 (860-34152-6), AP-35 (860-34152-7), AP-36 (860-34152-8), MW-03 (860-34152-9), PZ-05 (860-34152-10), PZ-06 (860-34152-11), DUP-02 (860-34152-12), FB-02 (860-34152-13), EB-01 (860-34152-14), EP-32 (860-34152-16), EP-33 (860-34152-17), EP-34 (860-34152-18), EP-35 (860-34152-19), EP-36 (860-34152-20), EP-38 (860-34152-22) and EB-02 (860-34152-26) The MB, LCS and samples were reanalyzed for Silicon with the same outcome.

Methods 200.8, 6020, 6020B: Due to a systematic error, the computer time stamp was misidentified. The date of this run was 11/09/22 with each shot being one hour prior to the time noted in the run log.

Methods 200.8, 6020, 6020B: The ICV for batch 400-600516 passed recovery/accuracy criteria which serves the ICV purpose of verifying the calibration standards. The replicate RPDs for the elements were outside of the criteria for standards but within the criteria for field samples. Data has therefore been reported and narrated accordingly.

Methods 6020, 6020B: Silicon has been identified as a poor performing analyte; therefore, an additional re-extraction/re-analysis was not performed. (LCS 400-598107/2-A ^5) and (MB 400-598107/1-A ^5) The MB, LCS and samples were reanalyzed for Silicon with the same outcome.

Methods 200.8, 6020B: The following samples were diluted to bring the concentration of target analytes within the calibration range: PZ-02 (860-34152-1), PZ-03 (860-34152-2), AP-31 (860-34152-3), AP-32 (860-34152-4), AP-33 (860-34152-5), AP-34 (860-34152-6), AP-35

Case Narrative

Client: GSI Environmental, Inc
Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-1

Job ID: 860-34152-1 (Continued)

Laboratory: Eurofins Houston (Continued)

(860-34152-7), AP-36 (860-34152-8), MW-03 (860-34152-9), PZ-05 (860-34152-10), DUP-02 (860-34152-12), EP-32 (860-34152-16), EP-33 (860-34152-17), EP-34 (860-34152-18), EP-35 (860-34152-19), EP-36 (860-34152-20) and EP-38 (860-34152-22). Elevated reporting limits (RLs) are provided.

Methods 200.8, 6020, 6020B, SM 2340B: Due to a systematic error, the computer time stamp was misidentified. The date of this run was 11/09/22 with each shot being one hour prior to the time noted in the run log.

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

General Chemistry

Methods 300.0, 9056A: The method blank for analytical batch 860-72174 contained Chloride 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 300.0: The method blank for analytical batch 860-72178 contained Chloride 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 300.0: The instrument blank for analytical batch 860-72174 contained Chloride 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 method blank.

Method 300.0: The method blank for analytical batch 860-72355 contained 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 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-72802 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 300.0: Due to the high concentration of Chloride and Sulfate, the matrix spike / matrix spike duplicate (MS/MSD) for analytical batch 860-72802 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 instrument blank for analytical batch 860-72802 contained Chloride 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 method blank.

Method 300.0: Due to the high concentration of ; Chloride, and Sulfate, the matrix spike / matrix spike duplicate (MS/MSD) for analytical batch 860-73378 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-73379 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 300.0: The following sample was analyzed outside of analytical holding time ; PZ-03 (860-34152-2).

Method 300.0: The following sample(s) was received outside of holding time. As such, the laboratory had insufficient time remaining to perform the analysis within holding time: PZ-03 (860-34152-2).

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Case Narrative

Client: GSI Environmental, Inc
Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-1

Job ID: 860-34152-1 (Continued)

Laboratory: Eurofins Houston (Continued)

Method 300.0: The instrument blank for analytical batch 860-74156 contained Chloride 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 method blank.

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) precision for analytical batch 860-74157 was outside control limits. Sample matrix interference is suspected.

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-72179 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-75701 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-75702 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 300.0: The instrument blank for analytical batch 860-75912 contained Chloride 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 300.0: Reanalysis of the following sample(s) was performed outside of the analytical holding time due to QC failure.

Method 300.0: Reanalysis of the following sample(s) was performed outside of the analytical holding time due to failure of quality control parameters in the initial analysis. PZ-03 (860-34152-2).

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 2H22 GW

Job ID: 860-34152-1

Client Sample ID: PZ-02

Lab Sample ID: 860-34152-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	3890		5.00	2.00	mg/L	10		300.0	Total/NA
Nitrate as N	0.554	H	0.100	0.0391	mg/L	1		300.0	Total/NA
Sulfate	2800		5.00	1.09	mg/L	10		300.0	Total/NA
Barium	0.0304	J	0.0500	0.0140	mg/L	100		6020B	Total Recoverable
Boron	8.51		1.00	0.0236	mg/L	100		6020B	Total Recoverable
Calcium	848		5.00	2.50	mg/L	100		6020B	Total Recoverable
Lithium	2.21		0.100	0.0980	mg/L	100		6020B	Total Recoverable
Mercury	1.08		0.200	0.150	ug/L	1		7470A	Total/NA
Total Alkalinity	107		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	107		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	9900		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: PZ-03

Lab Sample ID: 860-34152-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	5340		50.0	20.0	mg/L	100		300.0	Total/NA
Nitrate as N	14.7	H	0.100	0.0391	mg/L	1		300.0	Total/NA
Fluoride	5.03		5.00	1.00	mg/L	10		300.0	Total/NA
Sulfate	3850	B	5.00	1.09	mg/L	10		300.0	Total/NA
Arsenic	0.0775		0.0250	0.0240	mg/L	100		6020B	Total Recoverable
Barium	0.0294	J	0.0500	0.0140	mg/L	100		6020B	Total Recoverable
Beryllium	0.264		0.0500	0.0184	mg/L	100		6020B	Total Recoverable
Boron	10.1		1.00	0.0236	mg/L	100		6020B	Total Recoverable
Cadmium	0.616		0.0500	0.0130	mg/L	100		6020B	Total Recoverable
Calcium	822		5.00	2.50	mg/L	100		6020B	Total Recoverable
Cobalt	1.54		0.0500	0.0112	mg/L	100		6020B	Total Recoverable
Selenium	0.0753		0.0250	0.0164	mg/L	100		6020B	Total Recoverable
Thallium	0.00960	J	0.0100	0.00920	mg/L	100		6020B	Total Recoverable
Lithium	2.67		0.100	0.0980	mg/L	100		6020B	Total Recoverable
Mercury	1.16		0.200	0.150	ug/L	1		7470A	Total/NA
Total Dissolved Solids	16100		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: AP-31

Lab Sample ID: 860-34152-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	2020		5.00	2.00	mg/L	10		300.0	Total/NA
Nitrate as N	1.71	H	0.100	0.0391	mg/L	1		300.0	Total/NA
Sulfate	2970	B	5.00	1.09	mg/L	10		300.0	Total/NA
Boron	56.2		5.00	0.118	mg/L	500		6020B	Total Recoverable
Calcium	602		25.0	12.5	mg/L	500		6020B	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 2H22 GW

Job ID: 860-34152-1

Client Sample ID: AP-31 (Continued)

Lab Sample ID: 860-34152-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	0.277		0.250	0.0560	mg/L	500		6020B	Total
Selenium	0.0970	J	0.125	0.0820	mg/L	500		6020B	Total Recoverable
Lithium	0.823		0.500	0.490	mg/L	500		6020B	Total Recoverable
Mercury	1.69		0.200	0.150	ug/L	1		7470A	Total/NA
Total Dissolved Solids	6670		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: AP-32

Lab Sample ID: 860-34152-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	2760		5.00	2.00	mg/L	10		300.0	Total/NA
Nitrate as N	6.78	H	0.100	0.0391	mg/L	1		300.0	Total/NA
Fluoride	1.43	J	5.00	1.00	mg/L	10		300.0	Total/NA
Sulfate	3350	B	5.00	1.09	mg/L	10		300.0	Total/NA
Beryllium	0.0566	J	0.100	0.0368	mg/L	200		6020B	Total Recoverable
Boron	23.3		2.00	0.0472	mg/L	200		6020B	Total Recoverable
Cadmium	0.101		0.100	0.0260	mg/L	200		6020B	Total Recoverable
Calcium	689		10.0	5.00	mg/L	200		6020B	Total Recoverable
Cobalt	0.624		0.100	0.0224	mg/L	200		6020B	Total Recoverable
Selenium	0.0662		0.0500	0.0328	mg/L	200		6020B	Total Recoverable
Lithium	1.74		0.200	0.196	mg/L	200		6020B	Total Recoverable
Mercury	3.90		0.200	0.150	ug/L	1		7470A	Total/NA
Total Dissolved Solids	8200		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: AP-33

Lab Sample ID: 860-34152-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	4220		5.00	2.00	mg/L	10		300.0	Total/NA
Nitrate as N	1.03	H	1.00	0.391	mg/L	10		300.0	Total/NA
Fluoride	6.55		5.00	1.00	mg/L	10		300.0	Total/NA
Sulfate	3580		5.00	1.09	mg/L	10		300.0	Total/NA
Beryllium	0.272		0.250	0.0920	mg/L	500		6020B	Total Recoverable
Boron	53.5		5.00	0.118	mg/L	500		6020B	Total Recoverable
Cadmium	0.119	J	0.250	0.0650	mg/L	500		6020B	Total Recoverable
Calcium	734		25.0	12.5	mg/L	500		6020B	Total Recoverable
Cobalt	1.43		0.250	0.0560	mg/L	500		6020B	Total Recoverable
Lithium	1.21		0.500	0.490	mg/L	500		6020B	Total Recoverable
Mercury	6.44		0.200	0.150	ug/L	1		7470A	Total/NA
Total Dissolved Solids	11200		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: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-1

Client Sample ID: AP-34

Lab Sample ID: 860-34152-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	2860		5.00	2.00	mg/L	10		300.0	Total/NA
Nitrate as N	2.54	H	0.100	0.0391	mg/L	1		300.0	Total/NA
Fluoride	7.49		5.00	1.00	mg/L	10		300.0	Total/NA
Sulfate	3400	B	5.00	1.09	mg/L	10		300.0	Total/NA
Arsenic	0.0578		0.0500	0.0480	mg/L	200		6020B	Total Recoverable
Barium	0.0286	J	0.100	0.0280	mg/L	200		6020B	Total Recoverable
Beryllium	0.290		0.100	0.0368	mg/L	200		6020B	Total Recoverable
Boron	21.1		2.00	0.0472	mg/L	200		6020B	Total Recoverable
Cadmium	0.0278	J	0.100	0.0260	mg/L	200		6020B	Total Recoverable
Calcium	709		10.0	5.00	mg/L	200		6020B	Total Recoverable
Cobalt	1.26		0.100	0.0224	mg/L	200		6020B	Total Recoverable
Selenium	0.0612		0.0500	0.0328	mg/L	200		6020B	Total Recoverable
Lithium	1.26		0.200	0.196	mg/L	200		6020B	Total Recoverable
Mercury	3.76		0.200	0.150	ug/L	1		7470A	Total/NA
Total Dissolved Solids	8270		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: AP-35

Lab Sample ID: 860-34152-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrate as N	2.04	H	0.100	0.0391	mg/L	1		300.0	Total/NA
Fluoride	12.1		0.500	0.100	mg/L	1		300.0	Total/NA
Chloride - DL	2230		5.00	2.00	mg/L	10		300.0	Total/NA
Sulfate - DL	3390		5.00	1.09	mg/L	10		300.0	Total/NA
Arsenic	0.0299		0.0250	0.0240	mg/L	100		6020B	Total Recoverable
Barium	0.0274	J	0.0500	0.0140	mg/L	100		6020B	Total Recoverable
Beryllium	0.367		0.0500	0.0184	mg/L	100		6020B	Total Recoverable
Boron	5.75		1.00	0.0236	mg/L	100		6020B	Total Recoverable
Calcium	628		5.00	2.50	mg/L	100		6020B	Total Recoverable
Cobalt	0.0483	J	0.0500	0.0112	mg/L	100		6020B	Total Recoverable
Selenium	0.0258		0.0250	0.0164	mg/L	100		6020B	Total Recoverable
Lithium	1.87		0.100	0.0980	mg/L	100		6020B	Total Recoverable
Mercury	1.63		0.200	0.150	ug/L	1		7470A	Total/NA
Total Dissolved Solids	786		10.0	10.0	mg/L	1		SM 2540C	Total/NA

Client Sample ID: AP-36

Lab Sample ID: 860-34152-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1610		5.00	2.00	mg/L	10		300.0	Total/NA
Nitrate as N	0.918	J H	1.00	0.391	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 2H22 GW

Job ID: 860-34152-1

Client Sample ID: AP-36 (Continued)

Lab Sample ID: 860-34152-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	2840		5.00	1.09	mg/L	10		300.0	Total/NA
Barium	0.0196	J	0.0250	0.00700	mg/L	50		6020B	Total Recoverable
Beryllium	0.00960	J	0.0250	0.00920	mg/L	50		6020B	Total Recoverable
Boron	2.05		0.500	0.0118	mg/L	50		6020B	Total Recoverable
Calcium	618		2.50	1.25	mg/L	50		6020B	Total Recoverable
Cobalt	0.0638		0.0250	0.00560	mg/L	50		6020B	Total Recoverable
Lithium	1.07		0.0500	0.0490	mg/L	50		6020B	Total Recoverable
Mercury	2.94		0.200	0.150	ug/L	1		7470A	Total/NA
Total Dissolved Solids	6490		40.0	40.0	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-03

Lab Sample ID: 860-34152-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1170		5.00	2.00	mg/L	10		300.0	Total/NA
Nitrate as N	2.01	H	0.100	0.0391	mg/L	1		300.0	Total/NA
Fluoride	0.683		0.500	0.100	mg/L	1		300.0	Total/NA
Sulfate	2690		5.00	1.09	mg/L	10		300.0	Total/NA
Beryllium	0.0285	J	0.0500	0.0184	mg/L	100		6020B	Total Recoverable
Boron	12.2		1.00	0.0236	mg/L	100		6020B	Total Recoverable
Cadmium	0.0631		0.0500	0.0130	mg/L	100		6020B	Total Recoverable
Calcium	543		5.00	2.50	mg/L	100		6020B	Total Recoverable
Cobalt	0.372		0.0500	0.0112	mg/L	100		6020B	Total Recoverable
Selenium	0.0183	J	0.0250	0.0164	mg/L	100		6020B	Total Recoverable
Lithium	1.98		0.100	0.0980	mg/L	100		6020B	Total Recoverable
Mercury	1.44		0.200	0.150	ug/L	1		7470A	Total/NA
Total Dissolved Solids	8420		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: PZ-05

Lab Sample ID: 860-34152-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	2430		5.00	2.00	mg/L	10		300.0	Total/NA
Nitrate as N	0.581	H	0.100	0.0391	mg/L	1		300.0	Total/NA
Fluoride	2.44		0.500	0.100	mg/L	1		300.0	Total/NA
Sulfate	3070		5.00	1.09	mg/L	10		300.0	Total/NA
Beryllium	0.235		0.100	0.0368	mg/L	200		6020B	Total Recoverable
Boron	27.7		2.00	0.0472	mg/L	200		6020B	Total Recoverable
Cadmium	0.0786	J	0.100	0.0260	mg/L	200		6020B	Total Recoverable
Calcium	644		10.0	5.00	mg/L	200		6020B	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 2H22 GW

Job ID: 860-34152-1

Client Sample ID: PZ-05 (Continued)

Lab Sample ID: 860-34152-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	0.965		0.100	0.0224	mg/L	200		6020B	Total
									Recoverable
Selenium	0.0572		0.0500	0.0328	mg/L	200		6020B	Total
									Recoverable
Lithium	0.989		0.200	0.196	mg/L	200		6020B	Total
									Recoverable
Mercury	1.54		0.200	0.150	ug/L	1		7470A	Total/NA
Total Dissolved Solids	8400		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: PZ-06

Lab Sample ID: 860-34152-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1910		5.00	2.00	mg/L	10		300.0	Total/NA
Nitrate as N	0.541	H	0.100	0.0391	mg/L	1		300.0	Total/NA
Fluoride	0.357	J	0.500	0.100	mg/L	1		300.0	Total/NA
Sulfate	2940		5.00	1.09	mg/L	10		300.0	Total/NA
Barium	0.0318		0.0250	0.00700	mg/L	50		6020B	Total
									Recoverable
Boron	2.50		0.500	0.0118	mg/L	50		6020B	Total
									Recoverable
Calcium	700		2.50	1.25	mg/L	50		6020B	Total
									Recoverable
Lithium	1.19		0.0500	0.0490	mg/L	50		6020B	Total
									Recoverable
Mercury	1.22		0.200	0.150	ug/L	1		7470A	Total/NA
Total Alkalinity	85.3		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	85.3		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	6940		40.0	40.0	mg/L	1		SM 2540C	Total/NA

Client Sample ID: DUP-02

Lab Sample ID: 860-34152-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1800		5.00	2.00	mg/L	10		300.0	Total/NA
Nitrate as N	1.99	H	0.100	0.0391	mg/L	1		300.0	Total/NA
Fluoride	0.735		0.500	0.100	mg/L	1		300.0	Total/NA
Sulfate	4100		5.00	1.09	mg/L	10		300.0	Total/NA
Barium	0.0153	J	0.0500	0.0140	mg/L	100		6020B	Total
									Recoverable
Beryllium	0.0245	J	0.0500	0.0184	mg/L	100		6020B	Total
									Recoverable
Boron	12.1		1.00	0.0236	mg/L	100		6020B	Total
									Recoverable
Cadmium	0.0646		0.0500	0.0130	mg/L	100		6020B	Total
									Recoverable
Calcium	538		5.00	2.50	mg/L	100		6020B	Total
									Recoverable
Cobalt	0.365		0.0500	0.0112	mg/L	100		6020B	Total
									Recoverable
Selenium	0.0171	J	0.0250	0.0164	mg/L	100		6020B	Total
									Recoverable
Lithium	1.98		0.100	0.0980	mg/L	100		6020B	Total
									Recoverable
Mercury	1.44		0.200	0.150	ug/L	1		7470A	Total/NA
Total Dissolved Solids	8500		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: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-1

Client Sample ID: FB-02

Lab Sample ID: 860-34152-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1.41		0.500	0.200	mg/L	1		300.0	Total/NA
Nitrate as N	0.107	H	0.100	0.0391	mg/L	1		300.0	Total/NA
Fluoride	0.171	J	0.500	0.100	mg/L	1		300.0	Total/NA
Sulfate	0.702	B	0.500	0.109	mg/L	1		300.0	Total/NA
Barium	0.00926		0.00250	0.000700	mg/L	5		6020B	Total Recoverable
Calcium	2.17		0.250	0.125	mg/L	5		6020B	Total Recoverable
Mercury	1.32		0.200	0.150	ug/L	1		7470A	Total/NA
Total Dissolved Solids	6.50		5.00	5.00	mg/L	1		SM 2540C	Total/NA

Client Sample ID: EB-01

Lab Sample ID: 860-34152-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1.28		0.500	0.200	mg/L	1		300.0	Total/NA
Nitrate as N	0.0973	J H	0.100	0.0391	mg/L	1		300.0	Total/NA
Sulfate	0.417	J B	0.500	0.109	mg/L	1		300.0	Total/NA
Calcium	0.166	J	0.250	0.125	mg/L	5		6020B	Total Recoverable
Mercury	1.18		0.200	0.150	ug/L	1		7470A	Total/NA
Total Dissolved Solids	35.5		5.00	5.00	mg/L	1		SM 2540C	Total/NA

Client Sample ID: EP-31

Lab Sample ID: 860-34152-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	166		0.500	0.200	mg/L	1		300.0	Total/NA
Nitrate as N	0.983	J H	1.00	0.391	mg/L	10		300.0	Total/NA
Fluoride	1.74		0.500	0.100	mg/L	1		300.0	Total/NA
Sulfate - DL	3270		5.00	1.09	mg/L	10		300.0	Total/NA
Beryllium	0.0680		0.0250	0.00920	mg/L	50		6020B	Total Recoverable
Boron	0.690	B	0.250	0.00590	mg/L	25		6020B	Total Recoverable
Cadmium	0.00408	J F1	0.0125	0.00325	mg/L	25		6020B	Total Recoverable
Calcium	111		1.25	0.625	mg/L	25		6020B	Total Recoverable
Cobalt	0.0268	F1	0.0125	0.00280	mg/L	25		6020B	Total Recoverable
Lithium	0.684		0.0500	0.0490	mg/L	50		6020B	Total Recoverable
Mercury	1.70		0.200	0.150	ug/L	1		7470A	Total/NA
Total Dissolved Solids	5140		40.0	40.0	mg/L	1		SM 2540C	Total/NA

Client Sample ID: EP-32

Lab Sample ID: 860-34152-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	3060		5.00	2.00	mg/L	10		300.0	Total/NA
Nitrate as N	0.601	H	0.100	0.0391	mg/L	1		300.0	Total/NA
Sulfate	4300		5.00	1.09	mg/L	10		300.0	Total/NA
Boron	15.3		2.00	0.0472	mg/L	200		6020B	Total Recoverable
Calcium	526		10.0	5.00	mg/L	200		6020B	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 2H22 GW

Job ID: 860-34152-1

Client Sample ID: EP-32 (Continued)

Lab Sample ID: 860-34152-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	1.26		0.200	0.196	mg/L	200		6020B	Total Recoverable
Mercury	1.63		0.200	0.150	ug/L	1		7470A	Total/NA
Total Alkalinity	261		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	261		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	12100		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: EP-33

Lab Sample ID: 860-34152-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	2290		5.00	2.00	mg/L	10		300.0	Total/NA
Nitrate as N	0.568	H	0.100	0.0391	mg/L	1		300.0	Total/NA
Fluoride	0.154	J	0.500	0.100	mg/L	1		300.0	Total/NA
Sulfate	3200		5.00	1.09	mg/L	10		300.0	Total/NA
Boron	61.0		5.00	0.118	mg/L	500		6020B	Total Recoverable
Calcium	449		25.0	12.5	mg/L	500		6020B	Total Recoverable
Lithium	0.542		0.500	0.490	mg/L	500		6020B	Total Recoverable
Mercury	1.03		0.200	0.150	ug/L	1		7470A	Total/NA
Total Alkalinity	236		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	236		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	8110		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: EP-34

Lab Sample ID: 860-34152-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	4000		5.00	2.00	mg/L	10		300.0	Total/NA
Nitrate as N	0.590	H	0.100	0.0391	mg/L	1		300.0	Total/NA
Sulfate	3220		5.00	1.09	mg/L	10		300.0	Total/NA
Barium	0.0292	J	0.100	0.0280	mg/L	200		6020B	Total Recoverable
Boron	39.2		2.00	0.0472	mg/L	200		6020B	Total Recoverable
Calcium	515		10.0	5.00	mg/L	200		6020B	Total Recoverable
Lithium	1.09		0.200	0.196	mg/L	200		6020B	Total Recoverable
Mercury	1.17		0.200	0.150	ug/L	1		7470A	Total/NA
Total Alkalinity	243		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	243		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-35

Lab Sample ID: 860-34152-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	3550		5.00	2.00	mg/L	10		300.0	Total/NA
Nitrate as N	0.586	H	0.100	0.0391	mg/L	1		300.0	Total/NA
Sulfate	3120		5.00	1.09	mg/L	10		300.0	Total/NA
Boron	33.2		2.00	0.0472	mg/L	200		6020B	Total Recoverable
Calcium	399		10.0	5.00	mg/L	200		6020B	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 2H22 GW

Job ID: 860-34152-1

Client Sample ID: EP-35 (Continued)

Lab Sample ID: 860-34152-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	1.26		0.200	0.196	mg/L	200		6020B	Total Recoverable
Mercury	0.606		0.200	0.150	ug/L	1		7470A	Total/NA
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	10300		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: EP-36

Lab Sample ID: 860-34152-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	2170		5.00	2.00	mg/L	10		300.0	Total/NA
Nitrate as N	0.803	J H	1.00	0.391	mg/L	10		300.0	Total/NA
Sulfate	1570		5.00	1.09	mg/L	10		300.0	Total/NA
Barium	0.0394	J	0.100	0.0280	mg/L	200		6020B	Total Recoverable
Boron	22.9		2.00	0.0472	mg/L	200		6020B	Total Recoverable
Calcium	497		10.0	5.00	mg/L	200		6020B	Total Recoverable
Lithium	1.10		0.200	0.196	mg/L	200		6020B	Total Recoverable
Mercury	0.749		0.200	0.150	ug/L	1		7470A	Total/NA
Total Alkalinity	199		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	199		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	9060		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: EP-37

Lab Sample ID: 860-34152-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	3280		5.00	2.00	mg/L	10		300.0	Total/NA
Nitrate as N	0.577	H	0.100	0.0391	mg/L	1		300.0	Total/NA
Sulfate	2670		5.00	1.09	mg/L	10		300.0	Total/NA
Barium	0.0234		0.0125	0.00350	mg/L	25		6020B	Total Recoverable
Boron	6.78		0.250	0.00590	mg/L	25		6020B	Total Recoverable
Calcium	432		1.25	0.625	mg/L	25		6020B	Total Recoverable
Chromium	0.00630	J	0.0125	0.00500	mg/L	25		6020B	Total Recoverable
Lithium	1.46		0.0250	0.0245	mg/L	25		6020B	Total Recoverable
Mercury	0.726		0.200	0.150	ug/L	1		7470A	Total/NA
Total Alkalinity	192		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	192		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	9250		100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: EP-38

Lab Sample ID: 860-34152-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1070		5.00	2.00	mg/L	10		300.0	Total/NA
Nitrate as N	0.730	H	0.100	0.0391	mg/L	1		300.0	Total/NA
Sulfate	2190		5.00	1.09	mg/L	10		300.0	Total/NA
Barium	0.0138	J	0.0250	0.00700	mg/L	50		6020B	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 2H22 GW

Job ID: 860-34152-1

Client Sample ID: EP-38 (Continued)

Lab Sample ID: 860-34152-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	2.09	B	0.500	0.0118	mg/L	50		6020B	Total Recoverable
Calcium	359		2.50	1.25	mg/L	50		6020B	Total Recoverable
Lithium	0.696		0.0500	0.0490	mg/L	50		6020B	Total Recoverable
Mercury	0.808		0.200	0.150	ug/L	1		7470A	Total/NA
Total Alkalinity	59.2		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	59.2		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	4740		40.0	40.0	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-04

Lab Sample ID: 860-34152-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1570		5.00	2.00	mg/L	10		300.0	Total/NA
Nitrate as N	0.677	H	0.100	0.0391	mg/L	1		300.0	Total/NA
Sulfate	2310		5.00	1.09	mg/L	10		300.0	Total/NA
Barium	0.0148		0.0125	0.00350	mg/L	25		6020B	Total Recoverable
Boron	8.78		0.250	0.00590	mg/L	25		6020B	Total Recoverable
Calcium	299		1.25	0.625	mg/L	25		6020B	Total Recoverable
Chromium	0.00565	J	0.0125	0.00500	mg/L	25		6020B	Total Recoverable
Selenium	0.00858		0.00625	0.00410	mg/L	25		6020B	Total Recoverable
Lithium	0.771		0.0250	0.0245	mg/L	25		6020B	Total Recoverable
Mercury	1.11		0.200	0.150	ug/L	1		7470A	Total/NA
Total Alkalinity	129		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	129		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	5660		40.0	40.0	mg/L	1		SM 2540C	Total/NA

Client Sample ID: DUP-03

Lab Sample ID: 860-34152-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	2300		5.00	2.00	mg/L	10		300.0	Total/NA
Nitrate as N	0.719	H	0.100	0.0391	mg/L	1		300.0	Total/NA
Sulfate	3180		5.00	1.09	mg/L	10		300.0	Total/NA
Barium	0.0182		0.0125	0.00350	mg/L	25		6020B	Total Recoverable
Boron	70.5	B	0.250	0.00590	mg/L	25		6020B	Total Recoverable
Calcium	475		1.25	0.625	mg/L	25		6020B	Total Recoverable
Chromium	0.00765	J B	0.0125	0.00500	mg/L	25		6020B	Total Recoverable
Molybdenum	0.0112	J	0.0750	0.00650	mg/L	25		6020B	Total Recoverable
Lithium	0.791		0.0250	0.0245	mg/L	25		6020B	Total Recoverable
Mercury	1.03		0.200	0.150	ug/L	1		7470A	Total/NA
Total Alkalinity	217		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	217		4.00	4.00	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	8850		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: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-1

Client Sample ID: FB-03

Lab Sample ID: 860-34152-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1.21		0.500	0.200	mg/L	1		300.0	Total/NA
Nitrate as N	0.0952	J H	0.100	0.0391	mg/L	1		300.0	Total/NA
Sulfate	0.393	J	0.500	0.109	mg/L	1		300.0	Total/NA
Boron	1.25	B	0.250	0.00590	mg/L		25	6020B	Total Recoverable
Chromium	0.00823	J B	0.0125	0.00500	mg/L		25	6020B	Total Recoverable
Mercury	0.814		0.200	0.150	ug/L	1		7470A	Total/NA
Total Dissolved Solids	122		10.0	10.0	mg/L	1		SM 2540C	Total/NA

Client Sample ID: EB-02

Lab Sample ID: 860-34152-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1.44		0.500	0.200	mg/L	1		300.0	Total/NA
Nitrate as N	0.115	H	0.100	0.0391	mg/L	1		300.0	Total/NA
Fluoride	0.170	J	0.500	0.100	mg/L	1		300.0	Total/NA
Nitrite as N	0.0300	J H	0.100	0.0293	mg/L	1		300.0	Total/NA
Sulfate	0.792		0.500	0.109	mg/L	1		300.0	Total/NA
Barium	0.00916		0.00250	0.000700	mg/L		5	6020B	Total Recoverable
Calcium	0.605		0.250	0.125	mg/L		5	6020B	Total Recoverable
Mercury	1.47		0.200	0.150	ug/L	1		7470A	Total/NA
Total Dissolved Solids	47.0		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 2H22 GW

Job ID: 860-34152-1

Client Sample ID: PZ-02
 Date Collected: 09/28/22 10:30
 Date Received: 09/29/22 09:51

Lab Sample ID: 860-34152-1
 Matrix: Water

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3890		5.00	2.00	mg/L			10/08/22 05:32	10
Nitrate as N	0.554	H	0.100	0.0391	mg/L			10/06/22 19:00	1
Fluoride	1.00	U	5.00	1.00	mg/L			10/08/22 05:32	10
Nitrite as N	0.0293	U H	0.100	0.0293	mg/L			10/06/22 19:00	1
Sulfate	2800		5.00	1.09	mg/L			10/08/22 05:32	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0300	U	0.0500	0.0300	mg/L		10/27/22 13:48	10/19/22 14:33	100
Arsenic	0.0240	U	0.0250	0.0240	mg/L		10/27/22 13:48	11/11/22 00:03	100
Barium	0.0304	J	0.0500	0.0140	mg/L		10/27/22 13:48	10/19/22 14:33	100
Beryllium	0.0184	U	0.0500	0.0184	mg/L		10/27/22 13:48	10/19/22 14:33	100
Boron	8.51		1.00	0.0236	mg/L		10/27/22 13:48	10/19/22 14:33	100
Cadmium	0.0130	U	0.0500	0.0130	mg/L		10/27/22 13:48	11/11/22 00:03	100
Calcium	848		5.00	2.50	mg/L		10/27/22 13:48	11/11/22 00:03	100
Chromium	0.0200	U	0.0500	0.0200	mg/L		10/27/22 13:48	11/11/22 00:03	100
Cobalt	0.0112	U	0.0500	0.0112	mg/L		10/27/22 13:48	10/19/22 14:33	100
Lead	0.0162	U	0.0250	0.0162	mg/L		10/27/22 13:48	10/19/22 14:33	100
Molybdenum	0.0260	U	0.300	0.0260	mg/L		10/27/22 13:48	10/19/22 14:33	100
Selenium	0.0164	U	0.0250	0.0164	mg/L		10/27/22 13:48	10/19/22 14:33	100
Thallium	0.00920	U	0.0100	0.00920	mg/L		10/27/22 13:48	10/19/22 14:33	100
Lithium	2.21		0.100	0.0980	mg/L		10/27/22 13:48	11/11/22 00:03	100

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.08		0.200	0.150	ug/L		10/05/22 09:52	10/14/22 14:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	107		4.00	4.00	mg/L			10/10/22 13:44	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	107		4.00	4.00	mg/L			10/10/22 13:44	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			10/10/22 13:44	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			10/10/22 13:44	1
Total Dissolved Solids (SM 2540C)	9900		100	100	mg/L			10/05/22 11:00	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	2.20		0.569	0.604	1.00	0.601	pCi/L	10/24/22 09:21	10/27/22 14:45	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.9		40 - 110					10/24/22 09:21	10/27/22 14:45	1
Y Carrier	86.7		40 - 110					10/24/22 09:21	10/27/22 14:45	1

Client Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-1

Client Sample ID: PZ-03

Lab Sample ID: 860-34152-2

Date Collected: 09/28/22 08:55

Matrix: Water

Date Received: 09/29/22 09:51

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5340		50.0	20.0	mg/L			10/07/22 19:25	100
Nitrate as N	14.7	H	0.100	0.0391	mg/L			10/15/22 19:02	1
Fluoride	5.03		5.00	1.00	mg/L			10/07/22 19:13	10
Nitrite as N	0.0293	U H F1	0.100	0.0293	mg/L			10/15/22 19:02	1
Sulfate	3850	B	5.00	1.09	mg/L			10/07/22 19:13	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0300	U	0.0500	0.0300	mg/L		10/27/22 13:48	10/19/22 14:37	100
Arsenic	0.0775		0.0250	0.0240	mg/L		10/27/22 13:48	11/11/22 00:06	100
Barium	0.0294	J	0.0500	0.0140	mg/L		10/27/22 13:48	10/19/22 14:37	100
Beryllium	0.264		0.0500	0.0184	mg/L		10/27/22 13:48	10/19/22 14:37	100
Boron	10.1		1.00	0.0236	mg/L		10/27/22 13:48	10/19/22 14:37	100
Cadmium	0.616		0.0500	0.0130	mg/L		10/27/22 13:48	11/11/22 00:06	100
Calcium	822		5.00	2.50	mg/L		10/27/22 13:48	11/11/22 00:06	100
Chromium	0.0200	U	0.0500	0.0200	mg/L		10/27/22 13:48	11/11/22 00:06	100
Cobalt	1.54		0.0500	0.0112	mg/L		10/27/22 13:48	10/19/22 14:37	100
Lead	0.0162	U	0.0250	0.0162	mg/L		10/27/22 13:48	10/19/22 14:37	100
Molybdenum	0.0260	U	0.300	0.0260	mg/L		10/27/22 13:48	10/19/22 14:37	100
Selenium	0.0753		0.0250	0.0164	mg/L		10/27/22 13:48	10/19/22 14:37	100
Thallium	0.00960	J	0.0100	0.00920	mg/L		10/27/22 13:48	10/19/22 14:37	100
Lithium	2.67		0.100	0.0980	mg/L		10/27/22 13:48	11/11/22 00:06	100

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.16		0.200	0.150	ug/L		10/05/22 09:52	10/14/22 14:39	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			10/10/22 13:50	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			10/10/22 13:50	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			10/10/22 13:50	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			10/10/22 13:50	1
Total Dissolved Solids (SM 2540C)	16100		100	100	mg/L			10/05/22 11:00	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	2.30		0.780	0.809	1.00	0.938	pCi/L	10/24/22 09:21	10/27/22 14:45	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.4		40 - 110					10/24/22 09:21	10/27/22 14:45	1
Y Carrier	83.7		40 - 110					10/24/22 09:21	10/27/22 14:45	1

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Client Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-1

Client Sample ID: AP-31
 Date Collected: 09/28/22 09:20
 Date Received: 09/29/22 09:51

Lab Sample ID: 860-34152-3
 Matrix: Water

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2020		5.00	2.00	mg/L			10/07/22 19:38	10
Nitrate as N	1.71	H	0.100	0.0391	mg/L			10/06/22 20:31	1
Fluoride	1.00	U	5.00	1.00	mg/L			10/07/22 19:38	10
Nitrite as N	0.0293	U H	0.100	0.0293	mg/L			10/06/22 20:31	1
Sulfate	2970	B	5.00	1.09	mg/L			10/07/22 19:38	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.150	U	0.250	0.150	mg/L		10/27/22 13:48	10/19/22 14:40	500
Arsenic	0.120	U	0.125	0.120	mg/L		10/27/22 13:48	11/11/22 00:09	500
Barium	0.0700	U	0.250	0.0700	mg/L		10/27/22 13:48	10/19/22 14:40	500
Beryllium	0.0920	U	0.250	0.0920	mg/L		10/27/22 13:48	10/19/22 14:40	500
Boron	56.2		5.00	0.118	mg/L		10/27/22 13:48	10/19/22 14:40	500
Cadmium	0.0650	U	0.250	0.0650	mg/L		10/27/22 13:48	11/11/22 00:09	500
Calcium	602		25.0	12.5	mg/L		10/27/22 13:48	11/11/22 00:09	500
Chromium	0.100	U	0.250	0.100	mg/L		10/27/22 13:48	11/11/22 00:09	500
Cobalt	0.277		0.250	0.0560	mg/L		10/27/22 13:48	10/19/22 14:40	500
Lead	0.0810	U	0.125	0.0810	mg/L		10/27/22 13:48	10/19/22 14:40	500
Molybdenum	0.130	U	1.50	0.130	mg/L		10/27/22 13:48	10/19/22 14:40	500
Selenium	0.0970	J	0.125	0.0820	mg/L		10/27/22 13:48	10/19/22 14:40	500
Thallium	0.0460	U	0.0500	0.0460	mg/L		10/27/22 13:48	10/19/22 14:40	500
Lithium	0.823		0.500	0.490	mg/L		10/27/22 13:48	11/11/22 00:09	500

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.69		0.200	0.150	ug/L		10/05/22 09:52	10/14/22 14:51	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			10/10/22 13:55	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			10/10/22 13:55	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			10/10/22 13:55	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			10/10/22 13:55	1
Total Dissolved Solids (SM 2540C)	6670		100	100	mg/L			10/05/22 11:00	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	1.55		0.384	0.409	1.00	0.382	pCi/L	10/24/22 09:21	10/27/22 14:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	104		40 - 110					10/24/22 09:21	10/27/22 14:48	1
Y Carrier	89.0		40 - 110					10/24/22 09:21	10/27/22 14:48	1

Client Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-1

Client Sample ID: AP-32
 Date Collected: 09/28/22 11:25
 Date Received: 09/29/22 09:51

Lab Sample ID: 860-34152-4
 Matrix: Water

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2760		5.00	2.00	mg/L			10/07/22 19:50	10
Nitrate as N	6.78	H	0.100	0.0391	mg/L			10/06/22 20:54	1
Fluoride	1.43	J	5.00	1.00	mg/L			10/07/22 19:50	10
Nitrite as N	0.0293	U H	0.100	0.0293	mg/L			10/06/22 20:54	1
Sulfate	3350	B	5.00	1.09	mg/L			10/07/22 19:50	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0600	U	0.100	0.0600	mg/L		10/27/22 13:48	10/19/22 15:24	200
Arsenic	0.0480	U	0.0500	0.0480	mg/L		10/27/22 13:48	11/11/22 00:12	200
Barium	0.0280	U	0.100	0.0280	mg/L		10/27/22 13:48	10/19/22 15:24	200
Beryllium	0.0566	J	0.100	0.0368	mg/L		10/27/22 13:48	10/19/22 15:24	200
Boron	23.3		2.00	0.0472	mg/L		10/27/22 13:48	10/19/22 15:24	200
Cadmium	0.101		0.100	0.0260	mg/L		10/27/22 13:48	11/11/22 00:12	200
Calcium	689		10.0	5.00	mg/L		10/27/22 13:48	11/11/22 00:12	200
Chromium	0.0400	U	0.100	0.0400	mg/L		10/27/22 13:48	11/11/22 00:12	200
Cobalt	0.624		0.100	0.0224	mg/L		10/27/22 13:48	10/19/22 15:24	200
Lead	0.0324	U	0.0500	0.0324	mg/L		10/27/22 13:48	10/19/22 15:24	200
Molybdenum	0.0520	U	0.600	0.0520	mg/L		10/27/22 13:48	10/19/22 15:24	200
Selenium	0.0662		0.0500	0.0328	mg/L		10/27/22 13:48	10/19/22 15:24	200
Thallium	0.0184	U	0.0200	0.0184	mg/L		10/27/22 13:48	10/19/22 15:24	200
Lithium	1.74		0.200	0.196	mg/L		10/27/22 13:48	11/11/22 00:12	200

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	3.90		0.200	0.150	ug/L		10/05/22 09:52	10/14/22 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			10/10/22 14:06	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			10/10/22 14:06	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			10/10/22 14:06	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			10/10/22 14:06	1
Total Dissolved Solids (SM 2540C)	8200		100	100	mg/L			10/05/22 11:00	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	10.7		0.915	1.34	1.00	0.458	pCi/L	10/24/22 09:21	10/27/22 14:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110					10/24/22 09:21	10/27/22 14:48	1
Y Carrier	88.2		40 - 110					10/24/22 09:21	10/27/22 14:48	1

Client Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-1

Client Sample ID: AP-33
 Date Collected: 09/28/22 12:20
 Date Received: 09/29/22 09:51

Lab Sample ID: 860-34152-5
 Matrix: Water

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4220		5.00	2.00	mg/L			10/08/22 09:36	10
Nitrate as N	1.03	H	1.00	0.391	mg/L			10/08/22 09:36	10
Fluoride	6.55		5.00	1.00	mg/L			10/08/22 09:36	10
Nitrite as N	0.293	U H	1.00	0.293	mg/L			10/08/22 09:36	10
Sulfate	3580		5.00	1.09	mg/L			10/08/22 09:36	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.150	U	0.250	0.150	mg/L		10/27/22 13:48	10/19/22 16:38	500
Arsenic	0.120	U	0.125	0.120	mg/L		10/27/22 13:48	11/11/22 00:15	500
Barium	0.0700	U	0.250	0.0700	mg/L		10/27/22 13:48	10/19/22 16:38	500
Beryllium	0.272		0.250	0.0920	mg/L		10/27/22 13:48	10/19/22 16:38	500
Boron	53.5		5.00	0.118	mg/L		10/27/22 13:48	10/19/22 16:38	500
Cadmium	0.119	J	0.250	0.0650	mg/L		10/27/22 13:48	11/11/22 00:15	500
Calcium	734		25.0	12.5	mg/L		10/27/22 13:48	11/11/22 00:15	500
Chromium	0.100	U	0.250	0.100	mg/L		10/27/22 13:48	11/11/22 00:15	500
Cobalt	1.43		0.250	0.0560	mg/L		10/27/22 13:48	10/19/22 16:38	500
Lead	0.0810	U	0.125	0.0810	mg/L		10/27/22 13:48	10/19/22 16:38	500
Molybdenum	0.130	U	1.50	0.130	mg/L		10/27/22 13:48	10/19/22 16:38	500
Selenium	0.0820	U	0.125	0.0820	mg/L		10/27/22 13:48	10/19/22 16:38	500
Thallium	0.0460	U	0.0500	0.0460	mg/L		10/27/22 13:48	10/19/22 16:38	500
Lithium	1.21		0.500	0.490	mg/L		10/27/22 13:48	10/19/22 16:38	500

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	6.44		0.200	0.150	ug/L		10/05/22 09:52	10/14/22 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			10/10/22 14:11	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			10/10/22 14:11	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			10/10/22 14:11	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			10/10/22 14:11	1
Total Dissolved Solids (SM 2540C)	11200		100	100	mg/L			10/05/22 11:00	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	6.82		0.737	0.968	1.00	0.426	pCi/L	10/24/22 09:21	10/27/22 14:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	105		40 - 110					10/24/22 09:21	10/27/22 14:48	1
Y Carrier	83.7		40 - 110					10/24/22 09:21	10/27/22 14:48	1

Client Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-1

Client Sample ID: AP-34
 Date Collected: 09/28/22 14:15
 Date Received: 09/29/22 09:51

Lab Sample ID: 860-34152-6
 Matrix: Water

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2860		5.00	2.00	mg/L			10/07/22 20:02	10
Nitrate as N	2.54	H	0.100	0.0391	mg/L			10/06/22 21:16	1
Fluoride	7.49		5.00	1.00	mg/L			10/07/22 20:02	10
Nitrite as N	0.0293	U H	0.100	0.0293	mg/L			10/06/22 21:16	1
Sulfate	3400	B	5.00	1.09	mg/L			10/07/22 20:02	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0600	U	0.100	0.0600	mg/L		10/27/22 13:48	10/19/22 16:45	200
Arsenic	0.0578		0.0500	0.0480	mg/L		10/27/22 13:48	11/11/22 00:18	200
Barium	0.0286	J	0.100	0.0280	mg/L		10/27/22 13:48	10/19/22 16:45	200
Beryllium	0.290		0.100	0.0368	mg/L		10/27/22 13:48	10/19/22 16:45	200
Boron	21.1		2.00	0.0472	mg/L		10/27/22 13:48	10/19/22 16:45	200
Cadmium	0.0278	J	0.100	0.0260	mg/L		10/27/22 13:48	11/11/22 00:18	200
Calcium	709		10.0	5.00	mg/L		10/27/22 13:48	11/11/22 00:18	200
Chromium	0.0400	U	0.100	0.0400	mg/L		10/27/22 13:48	11/11/22 00:18	200
Cobalt	1.26		0.100	0.0224	mg/L		10/27/22 13:48	10/19/22 16:45	200
Lead	0.0324	U	0.0500	0.0324	mg/L		10/27/22 13:48	10/19/22 16:45	200
Molybdenum	0.0520	U	0.600	0.0520	mg/L		10/27/22 13:48	10/19/22 16:45	200
Selenium	0.0612		0.0500	0.0328	mg/L		10/27/22 13:48	10/19/22 16:45	200
Thallium	0.0184	U	0.0200	0.0184	mg/L		10/27/22 13:48	10/19/22 16:45	200
Lithium	1.26		0.200	0.196	mg/L		10/27/22 13:48	10/19/22 16:45	200

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	3.76		0.200	0.150	ug/L		10/05/22 09:52	10/14/22 15:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			10/10/22 14:17	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			10/10/22 14:17	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			10/10/22 14:17	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			10/10/22 14:17	1
Total Dissolved Solids (SM 2540C)	8270		100	100	mg/L			10/05/22 11:00	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	4.30		0.693	0.798	1.00	0.502	pCi/L	10/24/22 09:21	10/27/22 14:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	104		40 - 110					10/24/22 09:21	10/27/22 14:48	1
Y Carrier	87.1		40 - 110					10/24/22 09:21	10/27/22 14:48	1

Client Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-1

Client Sample ID: AP-35
 Date Collected: 09/28/22 13:20
 Date Received: 09/29/22 09:51

Lab Sample ID: 860-34152-7
 Matrix: Water

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	2.04	H	0.100	0.0391	mg/L			10/06/22 21:39	1
Fluoride	12.1		0.500	0.100	mg/L			10/07/22 04:21	1
Nitrite as N	0.0293	U H	0.100	0.0293	mg/L			10/06/22 21:39	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2230		5.00	2.00	mg/L			10/07/22 04:35	10
Sulfate	3390		5.00	1.09	mg/L			10/07/22 04:35	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0300	U	0.0500	0.0300	mg/L		10/27/22 13:48	10/19/22 17:02	100
Arsenic	0.0299		0.0250	0.0240	mg/L		10/27/22 13:48	11/11/22 00:21	100
Barium	0.0274	J	0.0500	0.0140	mg/L		10/27/22 13:48	10/19/22 17:02	100
Beryllium	0.367		0.0500	0.0184	mg/L		10/27/22 13:48	10/19/22 17:02	100
Boron	5.75		1.00	0.0236	mg/L		10/27/22 13:48	10/19/22 17:02	100
Cadmium	0.0130	U	0.0500	0.0130	mg/L		10/27/22 13:48	11/11/22 00:21	100
Calcium	628		5.00	2.50	mg/L		10/27/22 13:48	11/11/22 00:21	100
Chromium	0.0200	U	0.0500	0.0200	mg/L		10/27/22 13:48	11/11/22 00:21	100
Cobalt	0.0483	J	0.0500	0.0112	mg/L		10/27/22 13:48	10/19/22 17:02	100
Lead	0.0162	U	0.0250	0.0162	mg/L		10/27/22 13:48	10/19/22 17:02	100
Molybdenum	0.0260	U	0.300	0.0260	mg/L		10/27/22 13:48	10/19/22 17:02	100
Selenium	0.0258		0.0250	0.0164	mg/L		10/27/22 13:48	10/19/22 17:02	100
Thallium	0.00920	U	0.0100	0.00920	mg/L		10/27/22 13:48	10/19/22 17:02	100
Lithium	1.87		0.100	0.0980	mg/L		10/27/22 13:48	10/19/22 17:02	100

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.63		0.200	0.150	ug/L		10/05/22 09:52	10/14/22 15:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			10/10/22 14:22	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			10/10/22 14:22	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			10/10/22 14:22	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			10/10/22 14:22	1
Total Dissolved Solids (SM 2540C)	786		10.0	10.0	mg/L			10/05/22 17:33	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	18.9		1.17	2.09	1.00	0.429	pCi/L	10/24/22 09:21	10/27/22 14:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	107		40 - 110					10/24/22 09:21	10/27/22 14:49	1
Y Carrier	86.0		40 - 110					10/24/22 09:21	10/27/22 14:49	1

Client Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-1

Client Sample ID: AP-36

Lab Sample ID: 860-34152-8

Date Collected: 09/28/22 13:55

Matrix: Water

Date Received: 09/29/22 09:51

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1610		5.00	2.00	mg/L			10/07/22 04:49	10
Nitrate as N	0.918	J H	1.00	0.391	mg/L			10/07/22 04:49	10
Fluoride	1.00	U	5.00	1.00	mg/L			10/07/22 04:49	10
Nitrite as N	0.293	U H	1.00	0.293	mg/L			10/07/22 04:49	10
Sulfate	2840		5.00	1.09	mg/L			10/07/22 04:49	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0150	U	0.0250	0.0150	mg/L		10/27/22 13:48	10/19/22 17:09	50
Arsenic	0.0120	U	0.0125	0.0120	mg/L		10/27/22 13:48	11/11/22 00:34	50
Barium	0.0196	J	0.0250	0.00700	mg/L		10/27/22 13:48	10/19/22 17:09	50
Beryllium	0.00960	J	0.0250	0.00920	mg/L		10/27/22 13:48	10/19/22 17:09	50
Boron	2.05		5.00	0.0118	mg/L		10/27/22 13:48	10/19/22 17:09	50
Cadmium	0.00650	U	0.0250	0.00650	mg/L		10/27/22 13:48	11/11/22 00:34	50
Calcium	618		2.50	1.25	mg/L		10/27/22 13:48	11/11/22 00:34	50
Chromium	0.0100	U	0.0250	0.0100	mg/L		10/27/22 13:48	11/11/22 00:34	50
Cobalt	0.0638		0.0250	0.00560	mg/L		10/27/22 13:48	10/19/22 17:09	50
Lead	0.00810	U	0.0125	0.00810	mg/L		10/27/22 13:48	10/19/22 17:09	50
Molybdenum	0.0130	U	0.150	0.0130	mg/L		10/27/22 13:48	10/19/22 17:09	50
Selenium	0.00820	U	0.0125	0.00820	mg/L		10/27/22 13:48	10/19/22 17:09	50
Thallium	0.00460	U	0.00500	0.00460	mg/L		10/27/22 13:48	10/19/22 17:09	50
Lithium	1.07		0.0500	0.0490	mg/L		10/27/22 13:48	10/19/22 17:09	50

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	2.94		0.200	0.150	ug/L		10/05/22 09:52	10/14/22 15:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			10/10/22 14:44	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			10/10/22 14:44	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			10/10/22 14:44	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			10/10/22 14:44	1
Total Dissolved Solids (SM 2540C)	6490		40.0	40.0	mg/L			10/05/22 17:33	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		0.571	0.692	1.00	0.411	pCi/L	10/24/22 09:21	10/27/22 14:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	109		40 - 110					10/24/22 09:21	10/27/22 14:49	1
Y Carrier	89.0		40 - 110					10/24/22 09:21	10/27/22 14:49	1

Client Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-1

Client Sample ID: MW-03

Lab Sample ID: 860-34152-9

Date Collected: 09/28/22 10:10

Matrix: Water

Date Received: 09/29/22 09:51

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1170		5.00	2.00	mg/L			10/07/22 05:58	10
Nitrate as N	2.01	H	0.100	0.0391	mg/L			10/07/22 05:44	1
Fluoride	0.683		0.500	0.100	mg/L			10/07/22 05:44	1
Nitrite as N	0.0293	U H	0.100	0.0293	mg/L			10/07/22 05:44	1
Sulfate	2690		5.00	1.09	mg/L			10/07/22 05:58	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0300	U	0.0500	0.0300	mg/L		10/27/22 13:48	10/19/22 17:15	100
Arsenic	0.0240	U	0.0250	0.0240	mg/L		10/27/22 13:48	11/11/22 00:37	100
Barium	0.0140	U	0.0500	0.0140	mg/L		10/27/22 13:48	10/19/22 17:15	100
Beryllium	0.0285	J	0.0500	0.0184	mg/L		10/27/22 13:48	10/19/22 17:15	100
Boron	12.2		1.00	0.0236	mg/L		10/27/22 13:48	10/19/22 17:15	100
Cadmium	0.0631		0.0500	0.0130	mg/L		10/27/22 13:48	11/11/22 00:37	100
Calcium	543		5.00	2.50	mg/L		10/27/22 13:48	11/11/22 00:37	100
Chromium	0.0200	U	0.0500	0.0200	mg/L		10/27/22 13:48	11/11/22 00:37	100
Cobalt	0.372		0.0500	0.0112	mg/L		10/27/22 13:48	10/19/22 17:15	100
Lead	0.0162	U	0.0250	0.0162	mg/L		10/27/22 13:48	10/19/22 17:15	100
Molybdenum	0.0260	U	0.300	0.0260	mg/L		10/27/22 13:48	10/19/22 17:15	100
Selenium	0.0183	J	0.0250	0.0164	mg/L		10/27/22 13:48	10/19/22 17:15	100
Thallium	0.00920	U	0.0100	0.00920	mg/L		10/27/22 13:48	10/19/22 17:15	100
Lithium	1.98		0.100	0.0980	mg/L		10/27/22 13:48	10/19/22 17:15	100

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.44		0.200	0.150	ug/L		10/05/22 09:52	10/14/22 15:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			10/10/22 14:49	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			10/10/22 14:49	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			10/10/22 14:49	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			10/10/22 14:49	1
Total Dissolved Solids (SM 2540C)	8420		100	100	mg/L			10/05/22 17:33	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	4.12		0.595	0.706	1.00	0.495	pCi/L	10/24/22 09:21	10/27/22 14:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	103		40 - 110					10/24/22 09:21	10/27/22 14:49	1
Y Carrier	90.8		40 - 110					10/24/22 09:21	10/27/22 14:49	1

Client Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-1

Client Sample ID: PZ-05

Lab Sample ID: 860-34152-10

Date Collected: 09/28/22 13:10

Matrix: Water

Date Received: 09/29/22 09:51

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2430		5.00	2.00	mg/L			10/07/22 06:26	10
Nitrate as N	0.581	H	0.100	0.0391	mg/L			10/07/22 06:12	1
Fluoride	2.44		0.500	0.100	mg/L			10/07/22 06:12	1
Nitrite as N	0.0293	U H	0.100	0.0293	mg/L			10/07/22 06:12	1
Sulfate	3070		5.00	1.09	mg/L			10/07/22 06:26	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0600	U	0.100	0.0600	mg/L		10/27/22 13:48	10/19/22 17:25	200
Arsenic	0.0480	U	0.0500	0.0480	mg/L		10/27/22 13:48	11/11/22 00:40	200
Barium	0.0280	U	0.100	0.0280	mg/L		10/27/22 13:48	10/19/22 17:25	200
Beryllium	0.235		0.100	0.0368	mg/L		10/27/22 13:48	10/19/22 17:25	200
Boron	27.7		2.00	0.0472	mg/L		10/27/22 13:48	10/19/22 17:25	200
Cadmium	0.0786	J	0.100	0.0260	mg/L		10/27/22 13:48	11/11/22 00:40	200
Calcium	644		10.0	5.00	mg/L		10/27/22 13:48	11/11/22 00:40	200
Chromium	0.0400	U	0.100	0.0400	mg/L		10/27/22 13:48	11/11/22 00:40	200
Cobalt	0.965		0.100	0.0224	mg/L		10/27/22 13:48	10/19/22 17:25	200
Lead	0.0324	U	0.0500	0.0324	mg/L		10/27/22 13:48	10/19/22 17:25	200
Molybdenum	0.0520	U	0.600	0.0520	mg/L		10/27/22 13:48	10/19/22 17:25	200
Selenium	0.0572		0.0500	0.0328	mg/L		10/27/22 13:48	10/19/22 17:25	200
Thallium	0.0184	U	0.0200	0.0184	mg/L		10/27/22 13:48	10/19/22 17:25	200
Lithium	0.989		0.200	0.196	mg/L		10/27/22 13:48	10/19/22 17:25	200

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.54		0.200	0.150	ug/L		10/05/22 09:52	10/14/22 15:19	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			10/10/22 14:55	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			10/10/22 14:55	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			10/10/22 14:55	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			10/10/22 14:55	1
Total Dissolved Solids (SM 2540C)	8400		100	100	mg/L			10/05/22 19:19	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	4.09		0.585	0.696	1.00	0.452	pCi/L	10/24/22 09:21	10/27/22 14:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	102		40 - 110					10/24/22 09:21	10/27/22 14:49	1
Y Carrier	89.7		40 - 110					10/24/22 09:21	10/27/22 14:49	1

Client Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-1

Client Sample ID: PZ-06

Lab Sample ID: 860-34152-11

Date Collected: 09/28/22 12:55

Matrix: Water

Date Received: 09/29/22 09:51

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1910		5.00	2.00	mg/L			10/07/22 06:54	10
Nitrate as N	0.541	H	0.100	0.0391	mg/L			10/07/22 06:40	1
Fluoride	0.357	J	0.500	0.100	mg/L			10/07/22 06:40	1
Nitrite as N	0.0293	U H	0.100	0.0293	mg/L			10/07/22 06:40	1
Sulfate	2940		5.00	1.09	mg/L			10/07/22 06:54	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0150	U	0.0250	0.0150	mg/L		10/27/22 13:48	10/19/22 17:35	50
Arsenic	0.0120	U	0.0125	0.0120	mg/L		10/27/22 13:48	11/11/22 00:43	50
Barium	0.0318		0.0250	0.00700	mg/L		10/27/22 13:48	10/19/22 17:35	50
Beryllium	0.00920	U	0.0250	0.00920	mg/L		10/27/22 13:48	10/19/22 17:35	50
Boron	2.50		0.500	0.0118	mg/L		10/27/22 13:48	10/19/22 17:35	50
Cadmium	0.00650	U	0.0250	0.00650	mg/L		10/27/22 13:48	11/11/22 00:43	50
Calcium	700		2.50	1.25	mg/L		10/27/22 13:48	11/11/22 00:43	50
Chromium	0.0100	U	0.0250	0.0100	mg/L		10/27/22 13:48	11/11/22 00:43	50
Cobalt	0.00560	U	0.0250	0.00560	mg/L		10/27/22 13:48	10/19/22 17:35	50
Lead	0.00810	U	0.0125	0.00810	mg/L		10/27/22 13:48	10/19/22 17:35	50
Molybdenum	0.0130	U	0.150	0.0130	mg/L		10/27/22 13:48	10/19/22 17:35	50
Selenium	0.00820	U	0.0125	0.00820	mg/L		10/27/22 13:48	10/19/22 17:35	50
Thallium	0.00460	U	0.00500	0.00460	mg/L		10/27/22 13:48	10/19/22 17:35	50
Lithium	1.19		0.0500	0.0490	mg/L		10/27/22 13:48	10/19/22 17:35	50

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.22		0.200	0.150	ug/L		10/05/22 09:52	10/14/22 15:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	85.3		4.00	4.00	mg/L			10/10/22 15:02	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	85.3		4.00	4.00	mg/L			10/10/22 15:02	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			10/10/22 15:02	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			10/10/22 15:02	1
Total Dissolved Solids (SM 2540C)	6940		40.0	40.0	mg/L			10/05/22 17:33	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	3.18		0.514	0.591	1.00	0.395	pCi/L	10/24/22 09:21	10/27/22 14:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	108		40 - 110					10/24/22 09:21	10/27/22 14:51	1
Y Carrier	86.0		40 - 110					10/24/22 09:21	10/27/22 14:51	1

Client Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-1

Client Sample ID: DUP-02

Lab Sample ID: 860-34152-12

Date Collected: 09/28/22 09:00

Matrix: Water

Date Received: 09/29/22 09:51

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1800		5.00	2.00	mg/L			10/07/22 07:21	10
Nitrate as N	1.99	H	0.100	0.0391	mg/L			10/07/22 07:07	1
Fluoride	0.735		0.500	0.100	mg/L			10/07/22 07:07	1
Nitrite as N	0.0293	U H	0.100	0.0293	mg/L			10/07/22 07:07	1
Sulfate	4100		5.00	1.09	mg/L			10/07/22 07:21	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0300	U	0.0500	0.0300	mg/L		10/27/22 13:48	10/19/22 17:42	100
Arsenic	0.0240	U	0.0250	0.0240	mg/L		10/27/22 13:48	11/11/22 00:46	100
Barium	0.0153	J	0.0500	0.0140	mg/L		10/27/22 13:48	10/19/22 17:42	100
Beryllium	0.0245	J	0.0500	0.0184	mg/L		10/27/22 13:48	10/19/22 17:42	100
Boron	12.1		1.00	0.0236	mg/L		10/27/22 13:48	10/19/22 17:42	100
Cadmium	0.0646		0.0500	0.0130	mg/L		10/27/22 13:48	11/11/22 00:46	100
Calcium	538		5.00	2.50	mg/L		10/27/22 13:48	11/11/22 00:46	100
Chromium	0.0200	U	0.0500	0.0200	mg/L		10/27/22 13:48	11/11/22 00:46	100
Cobalt	0.365		0.0500	0.0112	mg/L		10/27/22 13:48	10/19/22 17:42	100
Lead	0.0162	U	0.0250	0.0162	mg/L		10/27/22 13:48	10/19/22 17:42	100
Molybdenum	0.0260	U	0.300	0.0260	mg/L		10/27/22 13:48	10/19/22 17:42	100
Selenium	0.0171	J	0.0250	0.0164	mg/L		10/27/22 13:48	10/19/22 17:42	100
Thallium	0.00920	U	0.0100	0.00920	mg/L		10/27/22 13:48	10/19/22 17:42	100
Lithium	1.98		0.100	0.0980	mg/L		10/27/22 13:48	10/19/22 17:42	100

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.44		0.200	0.150	ug/L		10/05/22 09:52	10/14/22 15:25	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			10/10/22 15:07	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			10/10/22 15:07	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			10/10/22 15:07	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			10/10/22 15:07	1
Total Dissolved Solids (SM 2540C)	8500		100	100	mg/L			10/05/22 17:33	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	5.34		0.673	0.834	1.00	0.440	pCi/L	10/24/22 09:21	10/27/22 14:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	102		40 - 110					10/24/22 09:21	10/27/22 14:51	1
Y Carrier	82.2		40 - 110					10/24/22 09:21	10/27/22 14:51	1

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Client Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-1

Client Sample ID: FB-02
 Date Collected: 09/28/22 13:20
 Date Received: 09/29/22 09:51

Lab Sample ID: 860-34152-13
 Matrix: Water

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.41		0.500	0.200	mg/L			10/08/22 01:28	1
Nitrate as N	0.107	H	0.100	0.0391	mg/L			10/06/22 18:15	1
Fluoride	0.171	J	0.500	0.100	mg/L			10/08/22 01:28	1
Nitrite as N	0.0293	U H	0.100	0.0293	mg/L			10/06/22 18:15	1
Sulfate	0.702	B	0.500	0.109	mg/L			10/08/22 01:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00150	U	0.00250	0.00150	mg/L		10/27/22 13:48	10/19/22 17:49	5
Arsenic	0.00120	U	0.00125	0.00120	mg/L		10/27/22 13:48	11/11/22 00:49	5
Barium	0.00926		0.00250	0.000700	mg/L		10/27/22 13:48	10/19/22 17:49	5
Beryllium	0.000920	U	0.00250	0.000920	mg/L		10/27/22 13:48	10/19/22 17:49	5
Boron	0.00118	U	0.0500	0.00118	mg/L		10/27/22 13:48	10/19/22 17:49	5
Cadmium	0.000650	U	0.00250	0.000650	mg/L		10/27/22 13:48	11/11/22 00:49	5
Calcium	2.17		0.250	0.125	mg/L		10/27/22 13:48	11/11/22 00:49	5
Chromium	0.00100	U	0.00250	0.00100	mg/L		10/27/22 13:48	11/11/22 00:49	5
Cobalt	0.000560	U	0.00250	0.000560	mg/L		10/27/22 13:48	10/19/22 17:49	5
Lead	0.000810	U	0.00125	0.000810	mg/L		10/27/22 13:48	10/19/22 17:49	5
Molybdenum	0.00130	U	0.0150	0.00130	mg/L		10/27/22 13:48	10/19/22 17:49	5
Selenium	0.000820	U	0.00125	0.000820	mg/L		10/27/22 13:48	10/19/22 17:49	5
Thallium	0.000460	U	0.000500	0.000460	mg/L		10/27/22 13:48	10/19/22 17:49	5
Lithium	0.00490	U	0.00500	0.00490	mg/L		10/27/22 13:48	10/19/22 17:49	5

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.32		0.200	0.150	ug/L		10/05/22 09:52	10/14/22 15:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	6.50		5.00	5.00	mg/L			10/05/22 17:33	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	0.577		0.291	0.296	1.00	0.401	pCi/L	10/24/22 09:21	10/27/22 14:51	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>	108		40 - 110					10/24/22 09:21	10/27/22 14:51	1
<i>Y Carrier</i>	84.1		40 - 110					10/24/22 09:21	10/27/22 14:51	1

Client Sample ID: EB-01
 Date Collected: 09/28/22 13:20
 Date Received: 09/29/22 09:51

Lab Sample ID: 860-34152-14
 Matrix: Water

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.28		0.500	0.200	mg/L			10/08/22 01:40	1
Nitrate as N	0.0973	J H	0.100	0.0391	mg/L			10/06/22 18:26	1
Fluoride	0.100	U	0.500	0.100	mg/L			10/08/22 01:40	1
Nitrite as N	0.0293	U H	0.100	0.0293	mg/L			10/06/22 18:26	1

Eurofins Houston

Client Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-1

Client Sample ID: EB-01
 Date Collected: 09/28/22 13:20
 Date Received: 09/29/22 09:51

Lab Sample ID: 860-34152-14
 Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	0.417	J B	0.500	0.109	mg/L			10/08/22 01:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00150	U	0.00250	0.00150	mg/L		10/27/22 13:48	10/19/22 17:52	5
Arsenic	0.00120	U	0.00125	0.00120	mg/L		10/27/22 13:48	11/11/22 00:52	5
Barium	0.000700	U	0.00250	0.000700	mg/L		10/27/22 13:48	10/19/22 17:52	5
Beryllium	0.000920	U	0.00250	0.000920	mg/L		10/27/22 13:48	10/19/22 17:52	5
Boron	0.00118	U	0.0500	0.00118	mg/L		10/27/22 13:48	10/19/22 17:52	5
Cadmium	0.000650	U	0.00250	0.000650	mg/L		10/27/22 13:48	11/11/22 00:52	5
Calcium	0.166	J	0.250	0.125	mg/L		10/27/22 13:48	11/11/22 00:52	5
Chromium	0.00100	U	0.00250	0.00100	mg/L		10/27/22 13:48	11/11/22 00:52	5
Cobalt	0.000560	U	0.00250	0.000560	mg/L		10/27/22 13:48	10/19/22 17:52	5
Lead	0.000810	U	0.00125	0.000810	mg/L		10/27/22 13:48	10/19/22 17:52	5
Molybdenum	0.00130	U	0.0150	0.00130	mg/L		10/27/22 13:48	10/19/22 17:52	5
Selenium	0.000820	U	0.00125	0.000820	mg/L		10/27/22 13:48	10/19/22 17:52	5
Thallium	0.000460	U	0.000500	0.000460	mg/L		10/27/22 13:48	10/19/22 17:52	5
Lithium	0.00490	U	0.00500	0.00490	mg/L		10/27/22 13:48	10/19/22 17:52	5

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.18		0.200	0.150	ug/L		10/05/22 09:52	10/14/22 15:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	35.5		5.00	5.00	mg/L			10/05/22 19:19	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	0.709		0.345	0.351	1.00	0.494	pCi/L	10/24/22 09:21	10/27/22 14:52	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>	110		40 - 110					10/24/22 09:21	10/27/22 14:52	1
<i>Y Carrier</i>	90.1		40 - 110					10/24/22 09:21	10/27/22 14:52	1

Client Sample ID: EP-31
 Date Collected: 09/28/22 11:15
 Date Received: 09/29/22 09:51

Lab Sample ID: 860-34152-15
 Matrix: Water

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	166		0.500	0.200	mg/L			10/07/22 08:17	1
Nitrate as N	0.983	J H	1.00	0.391	mg/L			10/08/22 08:23	10
Fluoride	1.74		0.500	0.100	mg/L			10/07/22 08:17	1
Nitrite as N	0.293	U H	1.00	0.293	mg/L			10/08/22 08:23	10

Method: MCAWW 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	3270		5.00	1.09	mg/L			10/07/22 07:35	10

Eurofins Houston

Client Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-1

Client Sample ID: EP-31
Date Collected: 09/28/22 11:15
Date Received: 09/29/22 09:51

Lab Sample ID: 860-34152-15
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0150	U ^3+	0.0250	0.0150	mg/L		10/25/22 11:49	11/01/22 13:30	50
Arsenic	0.00600	U F1	0.00625	0.00600	mg/L		10/25/22 11:49	10/31/22 21:58	25
Barium	0.00350	U F1	0.0125	0.00350	mg/L		10/25/22 11:49	10/31/22 21:58	25
Beryllium	0.0680		0.0250	0.00920	mg/L		10/25/22 11:49	11/01/22 13:30	50
Boron	0.690	B	0.250	0.00590	mg/L		10/25/22 11:49	10/31/22 21:58	25
Cadmium	0.00408	J F1	0.0125	0.00325	mg/L		10/25/22 11:49	10/31/22 21:58	25
Calcium	111		1.25	0.625	mg/L		10/25/22 11:49	10/31/22 21:58	25
Chromium	0.00500	U	0.0125	0.00500	mg/L		10/25/22 11:49	10/31/22 21:58	25
Cobalt	0.0268	F1	0.0125	0.00280	mg/L		10/25/22 11:49	10/31/22 21:58	25
Lead	0.00405	U	0.00625	0.00405	mg/L		10/25/22 11:49	10/31/22 21:58	25
Molybdenum	0.00650	U	0.0750	0.00650	mg/L		10/25/22 11:49	10/31/22 21:58	25
Selenium	0.00410	U F1	0.00625	0.00410	mg/L		10/25/22 11:49	10/31/22 21:58	25
Thallium	0.00230	U F1	0.00250	0.00230	mg/L		10/25/22 11:49	10/31/22 21:58	25
Lithium	0.684		0.0500	0.0490	mg/L		10/25/22 11:49	11/01/22 13:30	50

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.70		0.200	0.150	ug/L		10/05/22 10:04	10/16/22 11:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			10/10/22 15:54	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			10/10/22 15:54	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			10/10/22 15:54	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			10/10/22 15:54	1
Total Dissolved Solids (SM 2540C)	5140		40.0	40.0	mg/L			10/05/22 17:33	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.99		0.663	0.688	1.00	0.814	pCi/L	10/25/22 11:20	10/31/22 13:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.4		40 - 110					10/25/22 11:20	10/31/22 13:02	1
Y Carrier	83.4		40 - 110					10/25/22 11:20	10/31/22 13:02	1

Client Sample ID: EP-32
Date Collected: 09/28/22 13:10
Date Received: 09/29/22 09:51

Lab Sample ID: 860-34152-16
Matrix: Water

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3060		5.00	2.00	mg/L			10/07/22 08:44	10
Nitrate as N	0.601	H	0.100	0.0391	mg/L			10/07/22 08:31	1
Fluoride	0.100	U	0.500	0.100	mg/L			10/07/22 08:31	1
Nitrite as N	0.0293	U H	0.100	0.0293	mg/L			10/07/22 08:31	1
Sulfate	4300		5.00	1.09	mg/L			10/07/22 08:44	10

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Client Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-1

Client Sample ID: EP-32
 Date Collected: 09/28/22 13:10
 Date Received: 09/29/22 09:51

Lab Sample ID: 860-34152-16
 Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0600	U	0.100	0.0600	mg/L		10/27/22 13:48	10/19/22 18:06	200
Arsenic	0.0480	U	0.0500	0.0480	mg/L		10/27/22 13:48	11/11/22 00:55	200
Barium	0.0280	U	0.100	0.0280	mg/L		10/27/22 13:48	10/19/22 18:06	200
Beryllium	0.0368	U	0.100	0.0368	mg/L		10/27/22 13:48	10/19/22 18:06	200
Boron	15.3		2.00	0.0472	mg/L		10/27/22 13:48	10/19/22 18:06	200
Cadmium	0.0260	U	0.100	0.0260	mg/L		10/27/22 13:48	11/11/22 00:55	200
Calcium	526		10.0	5.00	mg/L		10/27/22 13:48	11/11/22 00:55	200
Chromium	0.0400	U	0.100	0.0400	mg/L		10/27/22 13:48	11/11/22 00:55	200
Cobalt	0.0224	U	0.100	0.0224	mg/L		10/27/22 13:48	10/19/22 18:06	200
Lead	0.0324	U	0.0500	0.0324	mg/L		10/27/22 13:48	10/19/22 18:06	200
Molybdenum	0.0520	U	0.600	0.0520	mg/L		10/27/22 13:48	10/19/22 18:06	200
Selenium	0.0328	U	0.0500	0.0328	mg/L		10/27/22 13:48	10/19/22 18:06	200
Thallium	0.0184	U	0.0200	0.0184	mg/L		10/27/22 13:48	10/19/22 18:06	200
Lithium	1.26		0.200	0.196	mg/L		10/27/22 13:48	10/19/22 18:06	200

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.63		0.200	0.150	ug/L		10/05/22 10:04	10/16/22 11:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	261		4.00	4.00	mg/L			10/10/22 16:08	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	261		4.00	4.00	mg/L			10/10/22 16:08	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			10/10/22 16:08	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			10/10/22 16:08	1
Total Dissolved Solids (SM 2540C)	12100		100	100	mg/L			10/05/22 17:33	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	5.70		0.786	0.944	1.00	0.554	pCi/L	10/25/22 11:20	10/31/22 13:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.6		40 - 110					10/25/22 11:20	10/31/22 13:02	1
Y Carrier	83.7		40 - 110					10/25/22 11:20	10/31/22 13:02	1

Client Sample ID: EP-33
 Date Collected: 09/28/22 11:50
 Date Received: 09/29/22 09:51

Lab Sample ID: 860-34152-17
 Matrix: Water

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2290		5.00	2.00	mg/L			10/07/22 09:12	10
Nitrate as N	0.568	H	0.100	0.0391	mg/L			10/07/22 08:58	1
Fluoride	0.154	J	0.500	0.100	mg/L			10/07/22 08:58	1
Nitrite as N	0.0293	U H	0.100	0.0293	mg/L			10/07/22 08:58	1
Sulfate	3200		5.00	1.09	mg/L			10/07/22 09:12	10

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Client Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-1

Client Sample ID: EP-33
 Date Collected: 09/28/22 11:50
 Date Received: 09/29/22 09:51

Lab Sample ID: 860-34152-17
 Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.150	U	0.250	0.150	mg/L		10/27/22 13:48	10/19/22 18:16	500
Arsenic	0.120	U	0.125	0.120	mg/L		10/27/22 13:48	11/11/22 00:58	500
Barium	0.0700	U	0.250	0.0700	mg/L		10/27/22 13:48	10/19/22 18:16	500
Beryllium	0.0920	U	0.250	0.0920	mg/L		10/27/22 13:48	10/19/22 18:16	500
Boron	61.0		5.00	0.118	mg/L		10/27/22 13:48	10/19/22 18:16	500
Cadmium	0.0650	U	0.250	0.0650	mg/L		10/27/22 13:48	11/11/22 00:58	500
Calcium	449		25.0	12.5	mg/L		10/27/22 13:48	11/11/22 00:58	500
Chromium	0.100	U	0.250	0.100	mg/L		10/27/22 13:48	11/11/22 00:58	500
Cobalt	0.0560	U	0.250	0.0560	mg/L		10/27/22 13:48	10/19/22 18:16	500
Lead	0.0810	U	0.125	0.0810	mg/L		10/27/22 13:48	10/19/22 18:16	500
Molybdenum	0.130	U	1.50	0.130	mg/L		10/27/22 13:48	10/19/22 18:16	500
Selenium	0.0820	U	0.125	0.0820	mg/L		10/27/22 13:48	10/19/22 18:16	500
Thallium	0.0460	U	0.0500	0.0460	mg/L		10/27/22 13:48	10/19/22 18:16	500
Lithium	0.542		0.500	0.490	mg/L		10/27/22 13:48	10/19/22 18:16	500

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.03		0.200	0.150	ug/L		10/05/22 10:04	10/16/22 11:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	236		4.00	4.00	mg/L			10/10/22 16:16	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	236		4.00	4.00	mg/L			10/10/22 16:16	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			10/10/22 16:16	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			10/10/22 16:16	1
Total Dissolved Solids (SM 2540C)	8110		100	100	mg/L			10/05/22 17:33	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	1.88		0.552	0.578	1.00	0.640	pCi/L	10/25/22 11:20	10/31/22 13:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.4		40 - 110					10/25/22 11:20	10/31/22 13:03	1
Y Carrier	80.7		40 - 110					10/25/22 11:20	10/31/22 13:03	1

Client Sample ID: EP-34
 Date Collected: 09/28/22 10:50
 Date Received: 09/29/22 09:51

Lab Sample ID: 860-34152-18
 Matrix: Water

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4000		5.00	2.00	mg/L			10/07/22 09:40	10
Nitrate as N	0.590	H	0.100	0.0391	mg/L			10/07/22 09:26	1
Fluoride	0.100	U	0.500	0.100	mg/L			10/07/22 09:26	1
Nitrite as N	0.0293	U H	0.100	0.0293	mg/L			10/07/22 09:26	1
Sulfate	3220		5.00	1.09	mg/L			10/07/22 09:40	10

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Client Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-1

Client Sample ID: EP-34
 Date Collected: 09/28/22 10:50
 Date Received: 09/29/22 09:51

Lab Sample ID: 860-34152-18
 Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0600	U	0.100	0.0600	mg/L		10/27/22 13:48	10/19/22 18:23	200
Arsenic	0.0480	U	0.0500	0.0480	mg/L		10/27/22 13:48	11/11/22 01:01	200
Barium	0.0292	J	0.100	0.0280	mg/L		10/27/22 13:48	10/19/22 18:23	200
Beryllium	0.0368	U	0.100	0.0368	mg/L		10/27/22 13:48	10/19/22 18:23	200
Boron	39.2		2.00	0.0472	mg/L		10/27/22 13:48	10/19/22 18:23	200
Cadmium	0.0260	U	0.100	0.0260	mg/L		10/27/22 13:48	11/11/22 01:01	200
Calcium	515		10.0	5.00	mg/L		10/27/22 13:48	11/11/22 01:01	200
Chromium	0.0400	U	0.100	0.0400	mg/L		10/27/22 13:48	11/11/22 01:01	200
Cobalt	0.0224	U	0.100	0.0224	mg/L		10/27/22 13:48	10/19/22 18:23	200
Lead	0.0324	U	0.0500	0.0324	mg/L		10/27/22 13:48	10/19/22 18:23	200
Molybdenum	0.0520	U	0.600	0.0520	mg/L		10/27/22 13:48	10/19/22 18:23	200
Selenium	0.0328	U	0.0500	0.0328	mg/L		10/27/22 13:48	10/19/22 18:23	200
Thallium	0.0184	U	0.0200	0.0184	mg/L		10/27/22 13:48	10/19/22 18:23	200
Lithium	1.09		0.200	0.196	mg/L		10/27/22 13:48	10/19/22 18:23	200

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.17		0.200	0.150	ug/L		10/05/22 10:04	10/16/22 11:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	243		4.00	4.00	mg/L			10/10/22 16:25	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	243		4.00	4.00	mg/L			10/10/22 16:25	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			10/10/22 16:25	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			10/10/22 16:25	1
Total Dissolved Solids (SM 2540C)	11000		100	100	mg/L			10/05/22 17:33	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	8.33		0.958	1.23	1.00	0.574	pCi/L	10/25/22 11:20	10/31/22 13:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.0		40 - 110					10/25/22 11:20	10/31/22 13:03	1
Y Carrier	81.1		40 - 110					10/25/22 11:20	10/31/22 13:03	1

Client Sample ID: EP-35
 Date Collected: 09/28/22 09:50
 Date Received: 09/29/22 09:51

Lab Sample ID: 860-34152-19
 Matrix: Water

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3550		5.00	2.00	mg/L			10/07/22 10:07	10
Nitrate as N	0.586	H	0.100	0.0391	mg/L			10/07/22 09:54	1
Fluoride	0.100	U	0.500	0.100	mg/L			10/07/22 09:54	1
Nitrite as N	0.0293	U H	0.100	0.0293	mg/L			10/07/22 09:54	1
Sulfate	3120		5.00	1.09	mg/L			10/07/22 10:07	10

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Client Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-1

Client Sample ID: EP-35
 Date Collected: 09/28/22 09:50
 Date Received: 09/29/22 09:51

Lab Sample ID: 860-34152-19
 Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0600	U	0.100	0.0600	mg/L		10/27/22 13:48	10/19/22 18:33	200
Arsenic	0.0480	U	0.0500	0.0480	mg/L		10/27/22 13:48	11/11/22 01:14	200
Barium	0.0280	U	0.100	0.0280	mg/L		10/27/22 13:48	10/19/22 18:33	200
Beryllium	0.0368	U	0.100	0.0368	mg/L		10/27/22 13:48	10/19/22 18:33	200
Boron	33.2		2.00	0.0472	mg/L		10/27/22 13:48	10/19/22 18:33	200
Cadmium	0.0260	U	0.100	0.0260	mg/L		10/27/22 13:48	11/11/22 01:14	200
Calcium	399		10.0	5.00	mg/L		10/27/22 13:48	11/11/22 01:14	200
Chromium	0.0400	U	0.100	0.0400	mg/L		10/27/22 13:48	11/11/22 01:14	200
Cobalt	0.0224	U	0.100	0.0224	mg/L		10/27/22 13:48	10/19/22 18:33	200
Lead	0.0324	U	0.0500	0.0324	mg/L		10/27/22 13:48	10/19/22 18:33	200
Molybdenum	0.0520	U	0.600	0.0520	mg/L		10/27/22 13:48	10/19/22 18:33	200
Selenium	0.0328	U	0.0500	0.0328	mg/L		10/27/22 13:48	10/19/22 18:33	200
Thallium	0.0184	U	0.0200	0.0184	mg/L		10/27/22 13:48	10/19/22 18:33	200
Lithium	1.26		0.200	0.196	mg/L		10/27/22 13:48	10/19/22 18:33	200

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.606		0.200	0.150	ug/L		10/05/22 10:04	10/16/22 11:36	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			10/10/22 16:32	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	206		4.00	4.00	mg/L			10/10/22 16:32	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			10/10/22 16:32	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			10/10/22 16:32	1
Total Dissolved Solids (SM 2540C)	10300		100	100	mg/L			10/05/22 17:33	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	3.64		0.671	0.750	1.00	0.558	pCi/L	10/25/22 11:20	10/31/22 13:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.5		40 - 110					10/25/22 11:20	10/31/22 13:03	1
Y Carrier	82.6		40 - 110					10/25/22 11:20	10/31/22 13:03	1

Client Sample ID: EP-36
 Date Collected: 09/28/22 08:50
 Date Received: 09/29/22 09:51

Lab Sample ID: 860-34152-20
 Matrix: Water

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2170		5.00	2.00	mg/L			10/07/22 10:21	10
Nitrate as N	0.803	J H	1.00	0.391	mg/L			10/07/22 10:21	10
Fluoride	1.00	U	5.00	1.00	mg/L			10/07/22 10:21	10
Nitrite as N	0.293	U H	1.00	0.293	mg/L			10/07/22 10:21	10
Sulfate	1570		5.00	1.09	mg/L			10/07/22 10:21	10

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Client Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-1

Client Sample ID: EP-36
 Date Collected: 09/28/22 08:50
 Date Received: 09/29/22 09:51

Lab Sample ID: 860-34152-20
 Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0600	U	0.100	0.0600	mg/L		10/27/22 13:48	10/19/22 18:43	200
Arsenic	0.0480	U	0.0500	0.0480	mg/L		10/27/22 13:48	11/11/22 01:17	200
Barium	0.0394	J	0.100	0.0280	mg/L		10/27/22 13:48	10/19/22 18:43	200
Beryllium	0.0368	U	0.100	0.0368	mg/L		10/27/22 13:48	10/19/22 18:43	200
Boron	22.9		2.00	0.0472	mg/L		10/27/22 13:48	10/19/22 18:43	200
Cadmium	0.0260	U	0.100	0.0260	mg/L		10/27/22 13:48	11/11/22 01:17	200
Calcium	497		10.0	5.00	mg/L		10/27/22 13:48	11/11/22 01:17	200
Chromium	0.0400	U	0.100	0.0400	mg/L		10/27/22 13:48	11/11/22 01:17	200
Cobalt	0.0224	U	0.100	0.0224	mg/L		10/27/22 13:48	10/19/22 18:43	200
Lead	0.0324	U	0.0500	0.0324	mg/L		10/27/22 13:48	10/19/22 18:43	200
Molybdenum	0.0520	U	0.600	0.0520	mg/L		10/27/22 13:48	10/19/22 18:43	200
Selenium	0.0328	U	0.0500	0.0328	mg/L		10/27/22 13:48	10/19/22 18:43	200
Thallium	0.0184	U	0.0200	0.0184	mg/L		10/27/22 13:48	10/19/22 18:43	200
Lithium	1.10		0.200	0.196	mg/L		10/27/22 13:48	10/19/22 18:43	200

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.749		0.200	0.150	ug/L		10/05/22 10:04	10/16/22 11:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	199		4.00	4.00	mg/L			10/10/22 16:41	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	199		4.00	4.00	mg/L			10/10/22 16:41	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			10/10/22 16:41	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			10/10/22 16:41	1
Total Dissolved Solids (SM 2540C)	9060		100	100	mg/L			10/05/22 17:33	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	4.53		0.730	0.841	1.00	0.599	pCi/L	10/25/22 11:20	10/31/22 13:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.4		40 - 110					10/25/22 11:20	10/31/22 13:04	1
Y Carrier	83.4		40 - 110					10/25/22 11:20	10/31/22 13:04	1

Client Sample ID: EP-37
 Date Collected: 09/28/22 09:00
 Date Received: 09/29/22 09:51

Lab Sample ID: 860-34152-21
 Matrix: Water

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3280		5.00	2.00	mg/L			10/07/22 11:30	10
Nitrate as N	0.577	H	0.100	0.0391	mg/L			10/07/22 11:17	1
Fluoride	0.100	U	0.500	0.100	mg/L			10/07/22 11:17	1
Nitrite as N	0.0293	U H	0.100	0.0293	mg/L			10/07/22 11:17	1
Sulfate	2670		5.00	1.09	mg/L			10/07/22 11:30	10

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Client Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-1

Client Sample ID: EP-37
 Date Collected: 09/28/22 09:00
 Date Received: 09/29/22 09:51

Lab Sample ID: 860-34152-21
 Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00750	U ^1+	0.0125	0.00750	mg/L		10/25/22 11:49	10/31/22 23:12	25
Arsenic	0.00600	U	0.00625	0.00600	mg/L		10/25/22 11:49	10/31/22 23:12	25
Barium	0.0234		0.0125	0.00350	mg/L		10/25/22 11:49	10/31/22 23:12	25
Beryllium	0.00460	U	0.0125	0.00460	mg/L		10/25/22 11:49	10/31/22 23:12	25
Boron	6.78		0.250	0.00590	mg/L		10/25/22 11:49	10/31/22 23:12	25
Cadmium	0.00325	U	0.0125	0.00325	mg/L		10/25/22 11:49	10/31/22 23:12	25
Calcium	432		1.25	0.625	mg/L		10/25/22 11:49	10/31/22 23:12	25
Chromium	0.00630	J	0.0125	0.00500	mg/L		10/25/22 11:49	10/31/22 23:12	25
Cobalt	0.00280	U	0.0125	0.00280	mg/L		10/25/22 11:49	10/31/22 23:12	25
Lead	0.00405	U	0.00625	0.00405	mg/L		10/25/22 11:49	10/31/22 23:12	25
Molybdenum	0.00650	U	0.0750	0.00650	mg/L		10/25/22 11:49	10/31/22 23:12	25
Selenium	0.00410	U	0.00625	0.00410	mg/L		10/25/22 11:49	10/31/22 23:12	25
Thallium	0.00230	U	0.00250	0.00230	mg/L		10/25/22 11:49	10/31/22 23:12	25
Lithium	1.46		0.0250	0.0245	mg/L		10/25/22 11:49	10/31/22 23:12	25

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.726		0.200	0.150	ug/L		10/05/22 10:04	10/16/22 11:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	192		4.00	4.00	mg/L			10/10/22 17:04	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	192		4.00	4.00	mg/L			10/10/22 17:04	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			10/10/22 17:04	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			10/10/22 17:04	1
Total Dissolved Solids (SM 2540C)	9250		100	100	mg/L			10/05/22 17:33	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	3.77		0.596	0.690	1.00	0.474	pCi/L	10/20/22 10:18	10/24/22 12:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.6		40 - 110					10/20/22 10:18	10/24/22 12:44	1
Y Carrier	90.8		40 - 110					10/20/22 10:18	10/24/22 12:44	1

Client Sample ID: EP-38
 Date Collected: 09/28/22 10:40
 Date Received: 09/29/22 09:51

Lab Sample ID: 860-34152-22
 Matrix: Water

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1070		5.00	2.00	mg/L			10/08/22 07:47	10
Nitrate as N	0.730	H	0.100	0.0391	mg/L			10/07/22 05:12	1
Fluoride	1.00	U	5.00	1.00	mg/L			10/08/22 07:47	10
Nitrite as N	0.0293	U H	0.100	0.0293	mg/L			10/07/22 05:12	1
Sulfate	2190		5.00	1.09	mg/L			10/08/22 07:47	10

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Client Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-1

Client Sample ID: EP-38
 Date Collected: 09/28/22 10:40
 Date Received: 09/29/22 09:51

Lab Sample ID: 860-34152-22
 Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0150	U	0.0250	0.0150	mg/L		10/27/22 14:46	10/19/22 18:53	50
Arsenic	0.0120	U	0.0125	0.0120	mg/L		10/27/22 14:46	11/11/22 01:20	50
Barium	0.0138	J	0.0250	0.00700	mg/L		10/27/22 14:46	10/19/22 18:53	50
Beryllium	0.00920	U	0.0250	0.00920	mg/L		10/27/22 14:46	10/19/22 18:53	50
Boron	2.09	B	0.500	0.0118	mg/L		10/27/22 14:46	10/19/22 18:53	50
Cadmium	0.00650	U	0.0250	0.00650	mg/L		10/27/22 14:46	11/11/22 01:20	50
Calcium	359		2.50	1.25	mg/L		10/27/22 14:46	11/11/22 01:20	50
Chromium	0.0100	U	0.0250	0.0100	mg/L		10/27/22 14:46	11/11/22 01:20	50
Cobalt	0.00560	U	0.0250	0.00560	mg/L		10/27/22 14:46	10/19/22 18:53	50
Lead	0.00810	U	0.0125	0.00810	mg/L		10/27/22 14:46	10/19/22 18:53	50
Molybdenum	0.0130	U	0.150	0.0130	mg/L		10/27/22 14:46	10/19/22 18:53	50
Selenium	0.00820	U	0.0125	0.00820	mg/L		10/27/22 14:46	10/19/22 18:53	50
Thallium	0.00460	U	0.00500	0.00460	mg/L		10/27/22 14:46	10/19/22 18:53	50
Lithium	0.696		0.0500	0.0490	mg/L		10/27/22 14:46	10/19/22 18:53	50

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.808		0.200	0.150	ug/L		10/05/22 10:04	10/16/22 11:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	59.2		4.00	4.00	mg/L			10/10/22 17:11	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	59.2		4.00	4.00	mg/L			10/10/22 17:11	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			10/10/22 17:11	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			10/10/22 17:11	1
Total Dissolved Solids (SM 2540C)	4740		40.0	40.0	mg/L			10/05/22 17:33	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	1.74		0.454	0.481	1.00	0.494	pCi/L	10/20/22 10:18	10/24/22 12:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.3		40 - 110					10/20/22 10:18	10/24/22 12:44	1
Y Carrier	89.0		40 - 110					10/20/22 10:18	10/24/22 12:44	1

Client Sample ID: MW-04
 Date Collected: 09/28/22 09:45
 Date Received: 09/29/22 09:51

Lab Sample ID: 860-34152-23
 Matrix: Water

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1570		5.00	2.00	mg/L			10/08/22 07:59	10
Nitrate as N	0.677	H	0.100	0.0391	mg/L			10/07/22 05:35	1
Fluoride	1.00	U	5.00	1.00	mg/L			10/08/22 07:59	10
Nitrite as N	0.0293	U H	0.100	0.0293	mg/L			10/07/22 05:35	1
Sulfate	2310		5.00	1.09	mg/L			10/08/22 07:59	10

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Client Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-1

Client Sample ID: MW-04

Lab Sample ID: 860-34152-23

Date Collected: 09/28/22 09:45

Matrix: Water

Date Received: 09/29/22 09:51

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00750	U ^1+	0.0125	0.00750	mg/L		10/25/22 11:49	10/31/22 23:40	25
Arsenic	0.00600	U	0.00625	0.00600	mg/L		10/25/22 11:49	10/31/22 23:40	25
Barium	0.0148		0.0125	0.00350	mg/L		10/25/22 11:49	10/31/22 23:40	25
Beryllium	0.00460	U	0.0125	0.00460	mg/L		10/25/22 11:49	10/31/22 23:40	25
Boron	8.78		0.250	0.00590	mg/L		10/25/22 11:49	10/31/22 23:40	25
Cadmium	0.00325	U	0.0125	0.00325	mg/L		10/25/22 11:49	10/31/22 23:40	25
Calcium	299		1.25	0.625	mg/L		10/25/22 11:49	10/31/22 23:40	25
Chromium	0.00565	J	0.0125	0.00500	mg/L		10/25/22 11:49	10/31/22 23:40	25
Cobalt	0.00280	U	0.0125	0.00280	mg/L		10/25/22 11:49	10/31/22 23:40	25
Lead	0.00405	U	0.00625	0.00405	mg/L		10/25/22 11:49	10/31/22 23:40	25
Molybdenum	0.00650	U	0.0750	0.00650	mg/L		10/25/22 11:49	10/31/22 23:40	25
Selenium	0.00858		0.00625	0.00410	mg/L		10/25/22 11:49	10/31/22 23:40	25
Thallium	0.00230	U	0.00250	0.00230	mg/L		10/25/22 11:49	10/31/22 23:40	25
Lithium	0.771		0.0250	0.0245	mg/L		10/25/22 11:49	10/31/22 23:40	25

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.11		0.200	0.150	ug/L		10/05/22 10:04	10/16/22 11:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	129		4.00	4.00	mg/L			10/10/22 17:19	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	129		4.00	4.00	mg/L			10/10/22 17:19	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			10/10/22 17:19	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			10/10/22 17:19	1
Total Dissolved Solids (SM 2540C)	5660		40.0	40.0	mg/L			10/05/22 19:19	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		0.542	0.592	1.00	0.561	pCi/L	10/20/22 10:18	10/24/22 12:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.6		40 - 110					10/20/22 10:18	10/24/22 12:44	1
Y Carrier	89.7		40 - 110					10/20/22 10:18	10/24/22 12:44	1

Client Sample ID: DUP-03

Lab Sample ID: 860-34152-24

Date Collected: 09/28/22 11:00

Matrix: Water

Date Received: 09/29/22 09:51

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2300		5.00	2.00	mg/L			10/08/22 08:11	10
Nitrate as N	0.719	H	0.100	0.0391	mg/L			10/07/22 05:58	1
Fluoride	1.00	U	5.00	1.00	mg/L			10/08/22 08:11	10
Nitrite as N	0.0293	U H	0.100	0.0293	mg/L			10/07/22 05:58	1
Sulfate	3180		5.00	1.09	mg/L			10/08/22 08:11	10

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Client Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-1

Client Sample ID: DUP-03
Date Collected: 09/28/22 11:00
Date Received: 09/29/22 09:51

Lab Sample ID: 860-34152-24
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00750	U ^1+	0.0125	0.00750	mg/L		10/25/22 11:49	10/31/22 23:43	25
Arsenic	0.00600	U	0.00625	0.00600	mg/L		10/25/22 11:49	10/31/22 23:43	25
Barium	0.0182		0.0125	0.00350	mg/L		10/25/22 11:49	10/31/22 23:43	25
Beryllium	0.00460	U	0.0125	0.00460	mg/L		10/25/22 11:49	10/31/22 23:43	25
Boron	70.5 B		0.250	0.00590	mg/L		10/25/22 11:49	10/31/22 23:43	25
Cadmium	0.00325	U	0.0125	0.00325	mg/L		10/25/22 11:49	10/31/22 23:43	25
Calcium	475		1.25	0.625	mg/L		10/25/22 11:49	10/31/22 23:43	25
Chromium	0.00765 J B		0.0125	0.00500	mg/L		10/25/22 11:49	10/31/22 23:43	25
Cobalt	0.00280	U	0.0125	0.00280	mg/L		10/25/22 11:49	10/31/22 23:43	25
Lead	0.00405	U	0.00625	0.00405	mg/L		10/25/22 11:49	10/31/22 23:43	25
Molybdenum	0.0112 J		0.0750	0.00650	mg/L		10/25/22 11:49	10/31/22 23:43	25
Selenium	0.00410	U	0.00625	0.00410	mg/L		10/25/22 11:49	10/31/22 23:43	25
Thallium	0.00230	U	0.00250	0.00230	mg/L		10/25/22 11:49	10/31/22 23:43	25
Lithium	0.791		0.0250	0.0245	mg/L		10/25/22 11:49	10/31/22 23:43	25

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.03		0.200	0.150	ug/L		10/05/22 10:04	10/16/22 11:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	217		4.00	4.00	mg/L			10/10/22 17:27	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	217		4.00	4.00	mg/L			10/10/22 17:27	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	4.00	U	4.00	4.00	mg/L			10/10/22 17:27	1
Hydroxide Alkalinity (SM 2320B)	4.00	U	4.00	4.00	mg/L			10/10/22 17:27	1
Total Dissolved Solids (SM 2540C)	8850		100	100	mg/L			10/05/22 19:19	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	2.71		0.548	0.602	1.00	0.528	pCi/L	10/20/22 10:18	10/24/22 12:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.3		40 - 110					10/20/22 10:18	10/24/22 12:44	1
Y Carrier	87.1		40 - 110					10/20/22 10:18	10/24/22 12:44	1

Client Sample ID: FB-03
Date Collected: 09/28/22 09:10
Date Received: 09/29/22 09:51

Lab Sample ID: 860-34152-25
Matrix: Water

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.21		0.500	0.200	mg/L			10/08/22 05:08	1
Nitrate as N	0.0952 J H		0.100	0.0391	mg/L			10/06/22 18:38	1
Fluoride	0.100	U	0.500	0.100	mg/L			10/08/22 05:08	1
Nitrite as N	0.0293	U H	0.100	0.0293	mg/L			10/06/22 18:38	1
Sulfate	0.393 J		0.500	0.109	mg/L			10/08/22 05:08	1

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Client Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-1

Client Sample ID: FB-03
 Date Collected: 09/28/22 09:10
 Date Received: 09/29/22 09:51

Lab Sample ID: 860-34152-25
 Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00750	U ^1+	0.0125	0.00750	mg/L		10/25/22 11:49	10/31/22 23:46	25
Arsenic	0.00600	U	0.00625	0.00600	mg/L		10/25/22 11:49	10/31/22 23:46	25
Barium	0.00350	U	0.0125	0.00350	mg/L		10/25/22 11:49	10/31/22 23:46	25
Beryllium	0.00460	U	0.0125	0.00460	mg/L		10/25/22 11:49	10/31/22 23:46	25
Boron	1.25	B	0.250	0.00590	mg/L		10/25/22 11:49	10/31/22 23:46	25
Cadmium	0.00325	U	0.0125	0.00325	mg/L		10/25/22 11:49	10/31/22 23:46	25
Calcium	0.625	U	1.25	0.625	mg/L		10/25/22 11:49	10/31/22 23:46	25
Chromium	0.00823	J B	0.0125	0.00500	mg/L		10/25/22 11:49	10/31/22 23:46	25
Cobalt	0.00280	U	0.0125	0.00280	mg/L		10/25/22 11:49	10/31/22 23:46	25
Lead	0.00405	U	0.00625	0.00405	mg/L		10/25/22 11:49	10/31/22 23:46	25
Molybdenum	0.00650	U	0.0750	0.00650	mg/L		10/25/22 11:49	10/31/22 23:46	25
Selenium	0.00410	U	0.00625	0.00410	mg/L		10/25/22 11:49	10/31/22 23:46	25
Thallium	0.00230	U	0.00250	0.00230	mg/L		10/25/22 11:49	10/31/22 23:46	25
Lithium	0.0245	U	0.0250	0.0245	mg/L		10/25/22 11:49	10/31/22 23:46	25

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.814		0.200	0.150	ug/L		10/05/22 10:04	10/16/22 11:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	122		10.0	10.0	mg/L			10/05/22 19:19	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	0.427	U	0.297	0.300	1.00	0.438	pCi/L	10/04/22 15:30	10/07/22 12:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.5		40 - 110					10/04/22 15:30	10/07/22 12:05	1
Y Carrier	83.0		40 - 110					10/04/22 15:30	10/07/22 12:05	1

Client Sample ID: EB-02
 Date Collected: 09/28/22 10:05
 Date Received: 09/29/22 09:51

Lab Sample ID: 860-34152-26
 Matrix: Water

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.44		0.500	0.200	mg/L			10/08/22 05:20	1
Nitrate as N	0.115	H	0.100	0.0391	mg/L			10/06/22 18:49	1
Fluoride	0.170	J	0.500	0.100	mg/L			10/08/22 05:20	1
Nitrite as N	0.0300	J H	0.100	0.0293	mg/L			10/06/22 18:49	1
Sulfate	0.792		0.500	0.109	mg/L			10/08/22 05:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00150	U	0.00250	0.00150	mg/L		10/27/22 14:46	10/19/22 19:00	5
Arsenic	0.00120	U	0.00125	0.00120	mg/L		10/27/22 14:46	11/11/22 01:23	5
Barium	0.00916		0.00250	0.000700	mg/L		10/27/22 14:46	10/19/22 19:00	5
Beryllium	0.000920	U	0.00250	0.000920	mg/L		10/27/22 14:46	10/19/22 19:00	5

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Client Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-1

Client Sample ID: EB-02
 Date Collected: 09/28/22 10:05
 Date Received: 09/29/22 09:51

Lab Sample ID: 860-34152-26
 Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.00118	U	0.0500	0.00118	mg/L		10/27/22 14:46	10/19/22 19:00	5
Cadmium	0.000650	U	0.00250	0.000650	mg/L		10/27/22 14:46	11/11/22 01:23	5
Calcium	0.605		0.250	0.125	mg/L		10/27/22 14:46	11/11/22 01:23	5
Chromium	0.00100	U	0.00250	0.00100	mg/L		10/27/22 14:46	11/11/22 01:23	5
Cobalt	0.000560	U	0.00250	0.000560	mg/L		10/27/22 14:46	10/19/22 19:00	5
Lead	0.000810	U	0.00125	0.000810	mg/L		10/27/22 14:46	10/19/22 19:00	5
Molybdenum	0.00130	U	0.0150	0.00130	mg/L		10/27/22 14:46	10/19/22 19:00	5
Selenium	0.000820	U	0.00125	0.000820	mg/L		10/27/22 14:46	10/19/22 19:00	5
Thallium	0.000460	U	0.000500	0.000460	mg/L		10/27/22 14:46	10/19/22 19:00	5
Lithium	0.00490	U	0.00500	0.00490	mg/L		10/27/22 14:46	10/19/22 19:00	5

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.47		0.200	0.150	ug/L		10/05/22 10:04	10/16/22 12:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	47.0		5.00	5.00	mg/L			10/05/22 19:19	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	0.163	U	0.268	0.268	1.00	0.459	pCi/L	10/04/22 15:30	10/07/22 12:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.8		40 - 110					10/04/22 15:30	10/07/22 12:05	1
Y Carrier	87.1		40 - 110					10/04/22 15:30	10/07/22 12:05	1

Tracer/Carrier Summary

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-1

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Yield (Acceptance Limits)	
		Ba (40-110)	Y (40-110)
860-34152-1	PZ-02	91.9	86.7
860-34152-2	PZ-03	92.4	83.7
860-34152-2 MS	PZ-03	98.0	81.5
860-34152-2 MSD	PZ-03	89.7	86.0
860-34152-3	AP-31	104	89.0
860-34152-4	AP-32	101	88.2
860-34152-5	AP-33	105	83.7
860-34152-6	AP-34	104	87.1
860-34152-7	AP-35	107	86.0
860-34152-8	AP-36	109	89.0
860-34152-9	MW-03	103	90.8
860-34152-10	PZ-05	102	89.7
860-34152-11	PZ-06	108	86.0
860-34152-12	DUP-02	102	82.2
860-34152-13	FB-02	108	84.1
860-34152-14	EB-01	110	90.1
860-34152-15	EP-31	91.4	83.4
860-34152-15 MS	EP-31	98.0	83.7
860-34152-15 MSD	EP-31	90.9	81.9
860-34152-16	EP-32	93.6	83.7
860-34152-17	EP-33	90.4	80.7
860-34152-18	EP-34	90.0	81.1
860-34152-19	EP-35	89.5	82.6
860-34152-20	EP-36	90.4	83.4
860-34152-21	EP-37	96.6	90.8
860-34152-22	EP-38	96.3	89.0
860-34152-23	MW-04	96.6	89.7
860-34152-24	DUP-03	95.3	87.1
860-34152-25	FB-03	97.5	83.0
860-34152-26	EB-02	99.8	87.1
LCS 160-584603/2-A	Lab Control Sample	94.1	86.4
LCS 160-586626/2-A	Lab Control Sample	98.0	88.6
LCS 160-586930/2-A	Lab Control Sample	101	87.5
LCS 160-587264/2-A	Lab Control Sample	91.4	83.4
MB 160-584603/1-A	Method Blank	95.8	86.4
MB 160-586626/1-A	Method Blank	90.4	87.9
MB 160-586930/1-A	Method Blank	103	85.6
MB 160-587264/1-A	Method Blank	91.9	82.2

Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier

QC Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-72174/3
Matrix: Water
Analysis Batch: 72174

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			10/06/22 11:33	1
Fluoride	0.100	U	0.500	0.100	mg/L			10/06/22 11:33	1
Sulfate	0.109	U	0.500	0.109	mg/L			10/06/22 11:33	1

Lab Sample ID: MB 860-72174/53
Matrix: Water
Analysis Batch: 72174

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			10/06/22 23:58	1
Fluoride	0.100	U	0.500	0.100	mg/L			10/06/22 23:58	1
Sulfate	0.109	U	0.500	0.109	mg/L			10/06/22 23:58	1

Lab Sample ID: LCS 860-72174/54
Matrix: Water
Analysis Batch: 72174

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	10.84		mg/L		108	90 - 110
Sulfate	10.0	10.13		mg/L		101	90 - 110

Lab Sample ID: LCSD 860-72174/55
Matrix: Water
Analysis Batch: 72174

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	10.88		mg/L		109	90 - 110	0	20
Sulfate	10.0	10.15		mg/L		102	90 - 110	0	20

Lab Sample ID: LLCS 860-72174/7
Matrix: Water
Analysis Batch: 72174

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	0.4884	J	mg/L		98	50 - 150
Sulfate	0.500	0.3380	J	mg/L		68	50 - 150

Lab Sample ID: MB 860-72175/3
Matrix: Water
Analysis Batch: 72175

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Nitrate as N	0.0391	U	0.100	0.0391	mg/L			10/06/22 11:33	1
Nitrite as N	0.0293	U	0.100	0.0293	mg/L			10/06/22 11:33	1

QC Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 860-72175/53
Matrix: Water
Analysis Batch: 72175

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Nitrate as N	0.0391	U	0.100	0.0391	mg/L			10/06/22 23:58	1
Nitrite as N	0.0293	U	0.100	0.0293	mg/L			10/06/22 23:58	1

Lab Sample ID: LCS 860-72175/54
Matrix: Water
Analysis Batch: 72175

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrite as N	5.00	5.238		mg/L		105	80 - 120

Lab Sample ID: LCSD 860-72175/55
Matrix: Water
Analysis Batch: 72175

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
Nitrite as N	5.00	5.252		mg/L		105	80 - 120	0	20

Lab Sample ID: LLCS 860-72175/6
Matrix: Water
Analysis Batch: 72175

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrite as N	0.100	0.1115		mg/L		112	50 - 150

Lab Sample ID: MB 860-72179/3
Matrix: Water
Analysis Batch: 72179

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Nitrate as N	0.0391	U	0.100	0.0391	mg/L			10/06/22 10:59	1
Nitrite as N	0.0293	U	0.100	0.0293	mg/L			10/06/22 10:59	1

Lab Sample ID: MB 860-72179/49
Matrix: Water
Analysis Batch: 72179

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Nitrate as N	0.0391	U	0.100	0.0391	mg/L			10/06/22 22:24	1
Nitrite as N	0.0293	U	0.100	0.0293	mg/L			10/06/22 22:24	1

Lab Sample ID: LCS 860-72179/4
Matrix: Water
Analysis Batch: 72179

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrite as N	5.00	4.675		mg/L		93	80 - 120

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QC Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 860-72179/50
Matrix: Water
Analysis Batch: 72179

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	10.0	9.910		mg/L		99	80 - 120
Nitrite as N	5.00	5.210		mg/L		104	80 - 120

Lab Sample ID: LCSD 860-72179/5
Matrix: Water
Analysis Batch: 72179

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
Nitrate as N	10.0	9.359		mg/L		94	80 - 120	0	20
Nitrite as N	5.00	4.670		mg/L		93	80 - 120	0	20

Lab Sample ID: LCSD 860-72179/51
Matrix: Water
Analysis Batch: 72179

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
Nitrate as N	10.0	9.912		mg/L		99	80 - 120	0	20
Nitrite as N	5.00	5.203		mg/L		104	80 - 120	0	20

Lab Sample ID: LLCS 860-72179/6
Matrix: Water
Analysis Batch: 72179

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	0.100	0.1185		mg/L		118	50 - 150
Nitrite as N	0.100	0.09569	J	mg/L		96	50 - 150

Lab Sample ID: MB 860-72355/13
Matrix: Water
Analysis Batch: 72355

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			10/07/22 13:40	1
Fluoride	0.100	U	0.500	0.100	mg/L			10/07/22 13:40	1
Sulfate	0.1742	J	0.500	0.109	mg/L			10/07/22 13:40	1

Lab Sample ID: MB 860-72355/77
Matrix: Water
Analysis Batch: 72355

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			10/08/22 04:31	1
Fluoride	0.100	U	0.500	0.100	mg/L			10/08/22 04:31	1
Sulfate	0.109	U	0.500	0.109	mg/L			10/08/22 04:31	1

QC Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 860-72355/14
Matrix: Water
Analysis Batch: 72355

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	10.07		mg/L		101	90 - 110
Fluoride	10.0	10.57		mg/L		106	90 - 110
Sulfate	10.0	9.965		mg/L		100	90 - 110

Lab Sample ID: LCS 860-72355/78
Matrix: Water
Analysis Batch: 72355

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	9.935		mg/L		99	90 - 110
Fluoride	10.0	10.62		mg/L		106	90 - 110
Sulfate	10.0	9.831		mg/L		98	90 - 110

Lab Sample ID: LCSD 860-72355/15
Matrix: Water
Analysis Batch: 72355

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	10.09		mg/L		101	90 - 110	0	20
Fluoride	10.0	10.59		mg/L		106	90 - 110	0	20
Sulfate	10.0	10.29		mg/L		103	90 - 110	3	20

Lab Sample ID: LCSD 860-72355/79
Matrix: Water
Analysis Batch: 72355

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	9.979		mg/L		100	90 - 110	0	20
Fluoride	10.0	10.64		mg/L		106	90 - 110	0	20
Sulfate	10.0	10.02		mg/L		100	90 - 110	2	20

Lab Sample ID: LLCS 860-72355/17
Matrix: Water
Analysis Batch: 72355

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	0.4609	J	mg/L		92	50 - 150
Fluoride	0.500	0.5002		mg/L		100	50 - 150
Sulfate	0.500	0.5109		mg/L		102	50 - 150

Lab Sample ID: 860-34152-15 MS
Matrix: Water
Analysis Batch: 72355

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	170		100	270.0		mg/L		100	90 - 110
Fluoride	1.69	J	100	107.7		mg/L		106	90 - 110
Sulfate	3480		100	3312	4	mg/L		-169	90 - 110

QC Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 860-34152-15 MSD
Matrix: Water
Analysis Batch: 72355

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	170		100	270.3		mg/L		101	90 - 110	0	20
Fluoride	1.69	J	100	109.1		mg/L		107	90 - 110	1	20
Sulfate	3480		100	3307	4	mg/L		-174	90 - 110	0	20

Lab Sample ID: LB 860-71199/1-A
Matrix: Water
Analysis Batch: 72356

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

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.4907		0.100	0.0391	mg/L			10/07/22 23:01	1
Nitrite as N	0.0293	U	0.100	0.0293	mg/L			10/07/22 23:01	1

Lab Sample ID: MB 860-72356/13
Matrix: Water
Analysis Batch: 72356

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.05460	J	0.100	0.0391	mg/L			10/07/22 13:40	1
Nitrite as N	0.0293	U	0.100	0.0293	mg/L			10/07/22 13:40	1

Lab Sample ID: MB 860-72356/77
Matrix: Water
Analysis Batch: 72356

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.0391	U	0.100	0.0391	mg/L			10/08/22 04:31	1
Nitrite as N	0.0293	U	0.100	0.0293	mg/L			10/08/22 04:31	1

Lab Sample ID: LCS 860-72356/14
Matrix: Water
Analysis Batch: 72356

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	10.0	9.875		mg/L		99	80 - 120
Nitrite as N	5.00	5.020		mg/L		100	80 - 120

Lab Sample ID: LCS 860-72356/78
Matrix: Water
Analysis Batch: 72356

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	10.0	9.764		mg/L		98	80 - 120
Nitrite as N	5.00	4.990		mg/L		100	80 - 120

Lab Sample ID: LCSD 860-72356/15
Matrix: Water
Analysis Batch: 72356

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
Nitrate as N	10.0	9.877		mg/L		99	80 - 120	0	20

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QC Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-72356/15
Matrix: Water
Analysis Batch: 72356

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
Nitrite as N	5.00	5.017		mg/L		100	80 - 120	0	20

Lab Sample ID: LCSD 860-72356/79
Matrix: Water
Analysis Batch: 72356

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
Nitrate as N	10.0	9.774		mg/L		98	80 - 120	0	20
Nitrite as N	5.00	4.992		mg/L		100	80 - 120	0	20

Lab Sample ID: LLCS 860-72356/16
Matrix: Water
Analysis Batch: 72356

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
Nitrate as N	0.100	0.1191		mg/L		119	50 - 150		
Nitrite as N	0.100	0.07513	J	mg/L		75	50 - 150		

Lab Sample ID: 860-34152-15 MS
Matrix: Water
Analysis Batch: 72356

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
Nitrate as N	5.03	J H	100	98.52	H	mg/L		93	80 - 120		
Nitrite as N	2.93	U H	25.0	25.30	H	mg/L		101	80 - 120		

Lab Sample ID: 860-34152-15 MSD
Matrix: Water
Analysis Batch: 72356

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
Nitrate as N	5.03	J H	100	98.51	H	mg/L		93	80 - 120	0	15
Nitrite as N	2.93	U H	25.0	25.37	H	mg/L		101	80 - 120	0	15

Lab Sample ID: MB 860-72390/1-A
Matrix: Water
Analysis Batch: 72356

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 72390

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.391	U	1.00	0.391	mg/L		10/07/22 16:36	10/07/22 16:45	1
Nitrite as N	0.293	U	1.00	0.293	mg/L		10/07/22 16:36	10/07/22 16:45	1

Lab Sample ID: LCS 860-72390/2-A
Matrix: Water
Analysis Batch: 72356

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 72390

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	100	98.52		mg/L		99	80 - 120		
Nitrite as N	50.0	50.16		mg/L		100	80 - 120		

QC Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-72390/3-A
Matrix: Water
Analysis Batch: 72356

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 72390

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	100	98.47		mg/L		98	80 - 120	0	20
Nitrite as N	50.0	50.13		mg/L		100	80 - 120	0	20

Lab Sample ID: MB 860-72802/3
Matrix: Water
Analysis Batch: 72802

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			10/12/22 04:56	1
Fluoride	0.100	U	0.500	0.100	mg/L			10/12/22 04:56	1
Sulfate	0.109	U	0.500	0.109	mg/L			10/12/22 04:56	1

Lab Sample ID: LCS 860-72802/4
Matrix: Water
Analysis Batch: 72802

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	9.755		mg/L		98	90 - 110
Fluoride	10.0	10.56		mg/L		106	90 - 110
Sulfate	10.0	10.07		mg/L		101	90 - 110

Lab Sample ID: LCSD 860-72802/5
Matrix: Water
Analysis Batch: 72802

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	9.804		mg/L		98	90 - 110	0	20
Fluoride	10.0	10.62		mg/L		106	90 - 110	1	20
Sulfate	10.0	10.10		mg/L		101	90 - 110	0	20

Lab Sample ID: LLCS 860-72802/7
Matrix: Water
Analysis Batch: 72802

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	0.4906	J	mg/L		98	50 - 150
Fluoride	0.500	0.4603	J	mg/L		92	50 - 150
Sulfate	0.500	0.3233	J	mg/L		65	50 - 150

Lab Sample ID: MB 860-73378/3
Matrix: Water
Analysis Batch: 73378

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			10/15/22 13:32	1
Fluoride	0.100	U	0.500	0.100	mg/L			10/15/22 13:32	1
Sulfate	0.109	U	0.500	0.109	mg/L			10/15/22 13:32	1

QC Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 860-73378/4
Matrix: Water
Analysis Batch: 73378

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	10.06		mg/L		101	90 - 110
Fluoride	10.0	10.79		mg/L		108	90 - 110
Sulfate	10.0	9.923		mg/L		99	90 - 110

Lab Sample ID: LCSD 860-73378/5
Matrix: Water
Analysis Batch: 73378

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	10.07		mg/L		101	90 - 110	0	20
Fluoride	10.0	10.78		mg/L		108	90 - 110	0	20
Sulfate	10.0	10.02		mg/L		100	90 - 110	1	20

Lab Sample ID: LLCS 860-73378/7
Matrix: Water
Analysis Batch: 73378

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	0.4866	J	mg/L		97	50 - 150
Fluoride	0.500	0.5391		mg/L		108	50 - 150
Sulfate	0.500	0.5283		mg/L		106	50 - 150

Lab Sample ID: MB 860-73379/3
Matrix: Water
Analysis Batch: 73379

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.0391	U	0.100	0.0391	mg/L			10/15/22 13:32	1
Nitrite as N	0.0293	U	0.100	0.0293	mg/L			10/15/22 13:32	1

Lab Sample ID: LCS 860-73379/4
Matrix: Water
Analysis Batch: 73379

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	10.0	9.938		mg/L		99	80 - 120
Nitrite as N	5.00	5.003		mg/L		100	80 - 120

Lab Sample ID: LCSD 860-73379/5
Matrix: Water
Analysis Batch: 73379

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
Nitrate as N	10.0	9.925		mg/L		99	80 - 120	0	20
Nitrite as N	5.00	5.028		mg/L		101	80 - 120	1	20

QC Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LLCS 860-73379/6
Matrix: Water
Analysis Batch: 73379

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	0.100	0.1149		mg/L		115	50 - 150
Nitrite as N	0.100	0.08074	J	mg/L		81	50 - 150

Lab Sample ID: 860-34152-2 MS
Matrix: Water
Analysis Batch: 73379

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
Nitrate as N	14.7	H	10.0	24.21	H	mg/L		95	80 - 120
Nitrite as N	0.0293	U H F1	2.50	0.0293	U H F1	mg/L		0	80 - 120

Lab Sample ID: 860-34152-2 MSD
Matrix: Water
Analysis Batch: 73379

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	Limit
Nitrate as N	14.7	H	10.0	25.15	H	mg/L		105	80 - 120	4	15
Nitrite as N	0.0293	U H F1	2.50	0.0293	U H F1	mg/L		0	80 - 120	NC	15

Lab Sample ID: MB 860-74156/3
Matrix: Water
Analysis Batch: 74156

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			10/20/22 23:30	1
Fluoride	0.100	U	0.500	0.100	mg/L			10/20/22 23:30	1
Sulfate	0.109	U	0.500	0.109	mg/L			10/20/22 23:30	1

Lab Sample ID: LCS 860-74156/4
Matrix: Water
Analysis Batch: 74156

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	10.11		mg/L		101	90 - 110
Fluoride	10.0	10.79		mg/L		108	90 - 110
Sulfate	10.0	9.823		mg/L		98	90 - 110

Lab Sample ID: LCSD 860-74156/5
Matrix: Water
Analysis Batch: 74156

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Chloride	10.0	10.06		mg/L		101	90 - 110	1	20
Fluoride	10.0	10.79		mg/L		108	90 - 110	0	20
Sulfate	10.0	9.877		mg/L		99	90 - 110	1	20

QC Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LLCS 860-74156/7
Matrix: Water
Analysis Batch: 74156

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	0.5041		mg/L		101	50 - 150
Fluoride	0.500	0.5112		mg/L		102	50 - 150
Sulfate	0.500	0.5177		mg/L		104	50 - 150

Lab Sample ID: 860-34152-2 MS
Matrix: Water
Analysis Batch: 74156

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	6380		1000	5318	4	mg/L		-106	90 - 110
Sulfate	3830	F1	1000	3987	F1	mg/L		16	90 - 110

Lab Sample ID: 860-34152-2 MSD
Matrix: Water
Analysis Batch: 74156

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	6380		1000	6358	4	mg/L		-2	90 - 110	18	20
Sulfate	3830	F1	1000	4748		mg/L		92	90 - 110	17	20

Lab Sample ID: MB 860-74157/3
Matrix: Water
Analysis Batch: 74157

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.0391	U	0.100	0.0391	mg/L			10/20/22 23:30	1
Nitrite as N	0.0293	U	0.100	0.0293	mg/L			10/20/22 23:30	1

Lab Sample ID: LCS 860-74157/4
Matrix: Water
Analysis Batch: 74157

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	10.0	9.993		mg/L		100	80 - 120
Nitrite as N	5.00	5.055		mg/L		101	80 - 120

Lab Sample ID: LCSD 860-74157/5
Matrix: Water
Analysis Batch: 74157

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
Nitrate as N	10.0	9.954		mg/L		100	80 - 120	0	20
Nitrite as N	5.00	5.043		mg/L		101	80 - 120	0	20

Lab Sample ID: LLCS 860-74157/6
Matrix: Water
Analysis Batch: 74157

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	0.100	0.1190		mg/L		119	50 - 150

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QC Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LLCS 860-74157/6
Matrix: Water
Analysis Batch: 74157

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrite as N	0.100	0.07678	J	mg/L		77	50 - 150

Lab Sample ID: MB 860-75701/3
Matrix: Water
Analysis Batch: 75701

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			11/01/22 09:41	1
Fluoride	0.100	U	0.500	0.100	mg/L			11/01/22 09:41	1
Sulfate	0.109	U	0.500	0.109	mg/L			11/01/22 09:41	1

Lab Sample ID: MB 860-75701/43
Matrix: Water
Analysis Batch: 75701

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			11/02/22 02:21	1
Fluoride	0.100	U	0.500	0.100	mg/L			11/02/22 02:21	1
Sulfate	0.109	U	0.500	0.109	mg/L			11/02/22 02:21	1

Lab Sample ID: LCS 860-75701/44
Matrix: Water
Analysis Batch: 75701

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	10.00		mg/L		100	90 - 110
Fluoride	10.0	10.83		mg/L		108	90 - 110
Sulfate	10.0	9.852		mg/L		99	90 - 110

Lab Sample ID: LCSD 860-75701/45
Matrix: Water
Analysis Batch: 75701

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	10.09		mg/L		101	90 - 110	1	20
Fluoride	10.0	10.93		mg/L		109	90 - 110	1	20
Sulfate	10.0	9.964		mg/L		100	90 - 110	1	20

Lab Sample ID: LLCS 860-75701/67
Matrix: Water
Analysis Batch: 75701

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	0.3351	J	mg/L		67	50 - 150
Fluoride	0.500	0.3849	J	mg/L		77	50 - 150
Sulfate	0.500	0.5254		mg/L		105	50 - 150

QC Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 860-34152-1 MS
Matrix: Water
Analysis Batch: 75701

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

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier					
Chloride	5050	H F2	1000	5914	4	mg/L		87		90 - 110
Fluoride	10.0	U H F2 F1	1000	1042		mg/L		104		90 - 110
Sulfate	3740	H F2 F1	1000	4682		mg/L		94		90 - 110

Lab Sample ID: 860-34152-1 MSD
Matrix: Water
Analysis Batch: 75701

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

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	Limits	RPD	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier								
Chloride	5050	H F2	1000	4393	4 F2	mg/L		-65		90 - 110	30		20
Fluoride	10.0	U H F2 F1	1000	797.5	F2 F1	mg/L		80		90 - 110	27		20
Sulfate	3740	H F2 F1	1000	3472	F2 F1	mg/L		-27		90 - 110	30		20

Lab Sample ID: MB 860-75702/3
Matrix: Water
Analysis Batch: 75702

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Nitrate as N	0.0391	U	0.100	0.0391	mg/L			11/01/22 09:41	1
Nitrite as N	0.0293	U	0.100	0.0293	mg/L			11/01/22 09:41	1

Lab Sample ID: MB 860-75702/43
Matrix: Water
Analysis Batch: 75702

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Nitrate as N	0.0391	U	0.100	0.0391	mg/L			11/02/22 02:21	1
Nitrite as N	0.0293	U	0.100	0.0293	mg/L			11/02/22 02:21	1

Lab Sample ID: LCS 860-75702/44
Matrix: Water
Analysis Batch: 75702

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

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec	Limits
Nitrate as N	10.0	9.794		mg/L		98		80 - 120
Nitrite as N	5.00	5.001		mg/L		100		80 - 120

Lab Sample ID: LCSD 860-75702/45
Matrix: Water
Analysis Batch: 75702

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

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec	Limits	RPD	RPD	Limit
Nitrate as N	10.0	9.891		mg/L		99		80 - 120	1		20
Nitrite as N	5.00	5.040		mg/L		101		80 - 120	1		20

QC Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LLCS 860-75702/6
Matrix: Water
Analysis Batch: 75702

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	0.100	0.07291	J	mg/L		73	50 - 150
Nitrite as N	0.100	0.07723	J	mg/L		77	50 - 150

Lab Sample ID: 860-34152-1 MS
Matrix: Water
Analysis Batch: 75702

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	13.9	H F1 F2	1000	967.1		mg/L		95	80 - 120
Nitrite as N	2.93	U H F1 F2	250	250.0		mg/L		100	80 - 120

Lab Sample ID: 860-34152-1 MSD
Matrix: Water
Analysis Batch: 75702

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Nitrate as N	13.9	H F1 F2	1000	713.9	F1 F2	mg/L		70	80 - 120	30	15
Nitrite as N	2.93	U H F1 F2	250	184.7	F1 F2	mg/L		74	80 - 120	30	15

Lab Sample ID: MB 860-75912/3
Matrix: Water
Analysis Batch: 75912

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			11/02/22 15:05	1
Fluoride	0.100	U	0.500	0.100	mg/L			11/02/22 15:05	1
Sulfate	0.109	U	0.500	0.109	mg/L			11/02/22 15:05	1

Lab Sample ID: LCS 860-75912/4
Matrix: Water
Analysis Batch: 75912

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	10.11		mg/L		101	90 - 110
Fluoride	10.0	10.64		mg/L		106	90 - 110
Sulfate	10.0	10.14		mg/L		101	90 - 110

Lab Sample ID: LCSD 860-75912/5
Matrix: Water
Analysis Batch: 75912

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Chloride	10.0	10.13		mg/L		101	90 - 110	0	20
Fluoride	10.0	10.69		mg/L		107	90 - 110	0	20
Sulfate	10.0	10.15		mg/L		101	90 - 110	0	20

QC Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LLCS 860-75912/7
Matrix: Water
Analysis Batch: 75912

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	0.3452	J	mg/L		69	50 - 150

Lab Sample ID: 860-34152-2 MS
Matrix: Water
Analysis Batch: 75912

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	51.6	H	1000	1127	H	mg/L		107	90 - 110

Lab Sample ID: 860-34152-2 MSD
Matrix: Water
Analysis Batch: 75912

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	51.6	H	1000	1131	H	mg/L		108	90 - 110	0	20

Lab Sample ID: MB 860-75913/3
Matrix: Water
Analysis Batch: 75913

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.0391	U	0.100	0.0391	mg/L			11/02/22 15:05	1
Nitrite as N	0.0293	U	0.100	0.0293	mg/L			11/02/22 15:05	1

Lab Sample ID: LCS 860-75913/4
Matrix: Water
Analysis Batch: 75913

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	10.0	10.15		mg/L		101	80 - 120
Nitrite as N	5.00	5.357		mg/L		107	80 - 120

Lab Sample ID: LCSD 860-75913/5
Matrix: Water
Analysis Batch: 75913

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
Nitrate as N	10.0	10.17		mg/L		102	80 - 120	0	20
Nitrite as N	5.00	5.385		mg/L		108	80 - 120	1	20

Lab Sample ID: LLCS 860-75913/6
Matrix: Water
Analysis Batch: 75913

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	1.00	1.277		mg/L		128	50 - 150
Nitrite as N	1.00	1.045		mg/L		105	50 - 150

QC Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-1

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 400-597735/1-A ^5
Matrix: Water
Analysis Batch: 598650

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 597735

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	0.00150	U ^1+	0.00250	0.00150	mg/L		10/25/22 11:49	10/31/22 21:52	5
Arsenic	0.00120	U	0.00125	0.00120	mg/L		10/25/22 11:49	10/31/22 21:52	5
Barium	0.000700	U	0.00250	0.000700	mg/L		10/25/22 11:49	10/31/22 21:52	5
Beryllium	0.000920	U	0.00250	0.000920	mg/L		10/25/22 11:49	10/31/22 21:52	5
Boron	0.006200	J	0.0500	0.00118	mg/L		10/25/22 11:49	10/31/22 21:52	5
Cadmium	0.000650	U	0.00250	0.000650	mg/L		10/25/22 11:49	10/31/22 21:52	5
Calcium	0.125	U	0.250	0.125	mg/L		10/25/22 11:49	10/31/22 21:52	5
Chromium	0.001080	J	0.00250	0.00100	mg/L		10/25/22 11:49	10/31/22 21:52	5
Cobalt	0.000560	U	0.00250	0.000560	mg/L		10/25/22 11:49	10/31/22 21:52	5
Lead	0.000810	U	0.00125	0.000810	mg/L		10/25/22 11:49	10/31/22 21:52	5
Molybdenum	0.00130	U	0.0150	0.00130	mg/L		10/25/22 11:49	10/31/22 21:52	5
Selenium	0.000820	U	0.00125	0.000820	mg/L		10/25/22 11:49	10/31/22 21:52	5
Thallium	0.000460	U	0.000500	0.000460	mg/L		10/25/22 11:49	10/31/22 21:52	5
Lithium	0.00490	U	0.00500	0.00490	mg/L		10/25/22 11:49	10/31/22 21:52	5

Lab Sample ID: LCS 400-597735/2-A ^5
Matrix: Water
Analysis Batch: 598650

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 597735

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.0500	0.05510		mg/L		110	80 - 120
Barium	0.0500	0.05872		mg/L		117	80 - 120
Beryllium	0.0500	0.05463		mg/L		109	80 - 120
Boron	0.100	0.1053		mg/L		105	80 - 120
Cadmium	0.0500	0.05574		mg/L		111	80 - 120
Calcium	5.00	4.988		mg/L		100	80 - 120
Chromium	0.0500	0.05582		mg/L		112	80 - 120
Cobalt	0.0500	0.05607		mg/L		112	80 - 120
Lead	0.0500	0.05435		mg/L		109	80 - 120
Molybdenum	0.0500	0.05528		mg/L		111	80 - 120
Selenium	0.0500	0.05331		mg/L		107	80 - 120
Thallium	0.0100	0.01099		mg/L		110	80 - 120
Lithium	0.0500	0.05359		mg/L		107	80 - 120

Lab Sample ID: 860-34152-15 MS
Matrix: Water
Analysis Batch: 598494

Client Sample ID: EP-31
Prep Type: Total Recoverable
Prep Batch: 597735

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier		Result	Qualifier				
Antimony	0.00750	U *- F1	0.0500	0.00750	U F1	mg/L		0	75 - 125
Arsenic	0.00600	U *- F1	0.0500	0.00600	U F1	mg/L		0	75 - 125
Beryllium	0.00460	U *- F1	0.0500	0.00460	U F1	mg/L		0	75 - 125
Boron	8.78	B ** F2	0.100	0.7901	4	mg/L		-7994	75 - 125
Cadmium	0.00325	U *- F1	0.0500	0.00325	U F1	mg/L		0	75 - 125
Calcium	297	B **	5.00	8.916	4	mg/L		-5756	75 - 125
Chromium	0.00500	U *- F1	0.0500	0.00500	U F1	mg/L		0	75 - 125
Cobalt	0.00280	U *- F1	0.0500	0.00280	U F1	mg/L		0	75 - 125
Lead	0.00405	U *- F1	0.0500	0.00405	U F1	mg/L		0	75 - 125

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QC Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 860-34152-15 MS
Matrix: Water
Analysis Batch: 598494

Client Sample ID: EP-31
Prep Type: Total Recoverable
Prep Batch: 597735

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	
	Result	Qualifier		Result	Qualifier				Limits	
Molybdenum	0.00650	U *- F1	0.0500	0.00650	U F1	mg/L		0	75 - 125	
Thallium	0.00230	U *- F1	0.0100	0.00230	U F1	mg/L		0	75 - 125	

Lab Sample ID: 860-34152-15 MS
Matrix: Water
Analysis Batch: 598650

Client Sample ID: EP-31
Prep Type: Total Recoverable
Prep Batch: 597735

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	
	Result	Qualifier		Result	Qualifier				Limits	
Barium	0.00350	U F1	0.0500	0.06490	F1	mg/L		130	75 - 125	
Selenium	0.00410	U F1	0.0500	0.08243	F1	mg/L		165	75 - 125	
Lithium	0.101	F1	0.0500	0.8008	F1	mg/L		1400	75 - 125	

Lab Sample ID: 860-34152-15 MSD
Matrix: Water
Analysis Batch: 598494

Client Sample ID: EP-31
Prep Type: Total Recoverable
Prep Batch: 597735

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec		RPD	
	Result	Qualifier		Result	Qualifier				Limits	RPD	Limit	
Antimony	0.00750	U *- F1	0.0500	0.00750	U F1	mg/L		0	75 - 125	NC	20	
Arsenic	0.00600	U *- F1	0.0500	0.00600	U F1	mg/L		0	75 - 125	NC	20	
Barium	0.0127	B *- F1	0.0500	0.00350	U F1	mg/L		0	75 - 125	NC	20	
Beryllium	0.00460	U *- F1	0.0500	0.00460	U F1	mg/L		0	75 - 125	NC	20	
Boron	8.78	B ** F2	0.100	0.5164	4 F2	mg/L		-8268	75 - 125	42	20	
Cadmium	0.00325	U *- F1	0.0500	0.00325	U F1	mg/L		0	75 - 125	NC	20	
Calcium	297	B **	5.00	0.625	U 4	mg/L		0	75 - 125	NC	20	
Chromium	0.00500	U *- F1	0.0500	0.00500	U F1	mg/L		0	75 - 125	NC	20	
Cobalt	0.00280	U *- F1	0.0500	0.00280	U F1	mg/L		0	75 - 125	NC	20	
Lead	0.00405	U *- F1	0.0500	0.00405	U F1	mg/L		0	75 - 125	NC	20	
Molybdenum	0.00650	U *- F1	0.0500	0.00650	U F1	mg/L		0	75 - 125	NC	20	
Thallium	0.00230	U *- F1	0.0100	0.00230	U F1	mg/L		0	75 - 125	NC	20	

Lab Sample ID: 860-34152-15 MSD
Matrix: Water
Analysis Batch: 598650

Client Sample ID: EP-31
Prep Type: Total Recoverable
Prep Batch: 597735

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec		RPD	
	Result	Qualifier		Result	Qualifier				Limits	RPD	Limit	
Selenium	0.00410	U F1	0.0500	0.07738	F1	mg/L		155	75 - 125	6	20	
Lithium	0.101	F1	0.0500	0.8181	F1	mg/L		1434	75 - 125	2	20	

Lab Sample ID: 860-34152-2 MS
Matrix: Water
Analysis Batch: 601096

Client Sample ID: PZ-03
Prep Type: Total Recoverable
Prep Batch: 598086

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	
	Result	Qualifier		Result	Qualifier				Limits	
Antimony	0.0300	U	0.0500	0.05390		mg/L		108	75 - 125	
Arsenic	0.364	^6+ ^3+ ^2	0.0500	0.1289	4	mg/L		-470	75 - 125	
Barium	0.0294	J	0.0500	0.08370		mg/L		109	75 - 125	
Beryllium	0.264		0.0500	0.3139	4	mg/L		101	75 - 125	
Boron	10.1		0.100	8.751	4 ^3-	mg/L		-1301	75 - 125	
Cadmium	0.769	^2	0.0500	0.5330	4	mg/L		-471	75 - 125	

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QC Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 860-34152-2 MS
Matrix: Water
Analysis Batch: 601096

Client Sample ID: PZ-03
Prep Type: Total Recoverable
Prep Batch: 598086

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	888	^5- ^3+ ^+ ^2	5.00	787.7	4	mg/L		-2004	75 - 125
Chromium	0.0736	^2	0.0500	0.05620	F1	mg/L		-35	75 - 125
Cobalt	1.54		0.0500	1.451	4	mg/L		-184	75 - 125
Lead	0.0162	U	0.0500	0.05230		mg/L		105	75 - 125
Molybdenum	0.0260	U	0.0500	0.04850	J	mg/L		97	75 - 125
Selenium	0.0753		0.0500	0.2038	F1 ^3+	mg/L		257	75 - 125
Thallium	0.00960	J	0.0100	0.01900		mg/L		94	75 - 125
Lithium	2.53	^+	0.0500	2.431	4	mg/L		-202	75 - 125

Lab Sample ID: 860-34152-2 MSD
Matrix: Water
Analysis Batch: 601096

Client Sample ID: PZ-03
Prep Type: Total Recoverable
Prep Batch: 598086

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	0.0300	U	0.0500	0.05460		mg/L		109	75 - 125	1	20
Arsenic	0.364	^6+ ^3+ ^2	0.0500	0.1229	4	mg/L		-482	75 - 125	5	20
Barium	0.0294	J	0.0500	0.08190		mg/L		105	75 - 125	2	20
Beryllium	0.264		0.0500	0.3000	4	mg/L		73	75 - 125	5	20
Boron	10.1		0.100	9.100	4 ^3-	mg/L		-951	75 - 125	4	20
Cadmium	0.769	^2	0.0500	0.5168	4	mg/L		-504	75 - 125	3	20
Calcium	888	^5- ^3+ ^+ ^2	5.00	780.4	4	mg/L		-2150	75 - 125	1	20
Chromium	0.0736	^2	0.0500	0.05860	F1	mg/L		-30	75 - 125	4	20
Cobalt	1.54		0.0500	1.476	4	mg/L		-134	75 - 125	2	20
Lead	0.0162	U	0.0500	0.05160		mg/L		103	75 - 125	1	20
Molybdenum	0.0260	U	0.0500	0.05060	J	mg/L		101	75 - 125	4	20
Selenium	0.0753		0.0500	0.1751	F1 ^3+	mg/L		200	75 - 125	15	20
Thallium	0.00960	J	0.0100	0.01950		mg/L		99	75 - 125	3	20
Lithium	2.53	^+	0.0500	2.396	4	mg/L		-270	75 - 125	1	20

Lab Sample ID: MB 400-598107/1-A ^10
Matrix: Water
Analysis Batch: 600516

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 598107

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	0.00164	U	0.00250	0.00164	mg/L		10/27/22 14:46	11/10/22 14:01	10

Lab Sample ID: MB 400-598107/1-A ^5
Matrix: Water
Analysis Batch: 600516

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 598107

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00150	U	0.00250	0.00150	mg/L		10/27/22 14:46	11/10/22 16:54	5
Arsenic	0.00120	U	0.00125	0.00120	mg/L		10/27/22 14:46	11/10/22 16:54	5
Barium	0.000700	U	0.00250	0.000700	mg/L		10/27/22 14:46	11/10/22 16:54	5
Beryllium	0.000920	U	0.00250	0.000920	mg/L		10/27/22 14:46	11/10/22 16:54	5
Boron	0.01283		0.0500	0.00118	mg/L		10/27/22 14:46	11/10/22 16:54	5
Cadmium	0.000650	U	0.00250	0.000650	mg/L		10/27/22 14:46	11/10/22 16:54	5

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QC Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 400-598107/1-A ^5
Matrix: Water
Analysis Batch: 600516

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 598107

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Calcium	0.125	U	0.250	0.125	mg/L		10/27/22 14:46	11/10/22 16:54	5
Chromium	0.00100	U	0.00250	0.00100	mg/L		10/27/22 14:46	11/10/22 16:54	5
Cobalt	0.000560	U	0.00250	0.000560	mg/L		10/27/22 14:46	11/10/22 16:54	5
Lead	0.000810	U	0.00125	0.000810	mg/L		10/27/22 14:46	11/10/22 16:54	5
Molybdenum	0.00130	U	0.0150	0.00130	mg/L		10/27/22 14:46	11/10/22 16:54	5
Thallium	0.000460	U	0.000500	0.000460	mg/L		10/27/22 14:46	11/10/22 16:54	5
Lithium	0.00490	U	0.00500	0.00490	mg/L		10/27/22 14:46	11/10/22 16:54	5

Lab Sample ID: LCS 400-598107/2-A ^10
Matrix: Water
Analysis Batch: 600516

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 598107

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cadmium	0.0500	0.05243		mg/L		105	80 - 120

Lab Sample ID: LCS 400-598107/2-A ^5
Matrix: Water
Analysis Batch: 600516

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 598107

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	0.0500	0.05812		mg/L		116	80 - 120
Beryllium	0.0500	0.05722		mg/L		114	80 - 120
Boron	0.100	0.1084		mg/L		108	80 - 120
Calcium	5.00	5.076		mg/L		102	80 - 120
Chromium	0.0500	0.05940		mg/L		119	80 - 120
Cobalt	0.0500	0.05900		mg/L		118	80 - 120
Lead	0.0500	0.05922		mg/L		118	80 - 120
Molybdenum	0.0500	0.05833		mg/L		117	80 - 120
Selenium	0.0500	0.05766		mg/L		115	80 - 120
Thallium	0.0100	0.01186		mg/L		119	80 - 120
Lithium	0.0500	0.05792		mg/L		116	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 400-595069/14-A
Matrix: Water
Analysis Batch: 596411

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 595069

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	0.150	U	0.200	0.150	ug/L		10/05/22 09:52	10/14/22 15:33	1

Lab Sample ID: LCS 400-595069/15-A
Matrix: Water
Analysis Batch: 596411

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 595069

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 2H22 GW

Job ID: 860-34152-1

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

Lab Sample ID: 860-34152-2 MS
Matrix: Water
Analysis Batch: 596411

Client Sample ID: PZ-03
Prep Type: Total/NA
Prep Batch: 595069

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	1.16		2.01	3.117		ug/L		97	80 - 120

Lab Sample ID: 860-34152-2 MSD
Matrix: Water
Analysis Batch: 596411

Client Sample ID: PZ-03
Prep Type: Total/NA
Prep Batch: 595069

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	1.16		2.01	3.480		ug/L		115	80 - 120	11	20

Lab Sample ID: MB 400-595083/14-A
Matrix: Water
Analysis Batch: 596618

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 595083

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.150	U	0.200	0.150	ug/L		10/05/22 10:04	10/16/22 11:12	1

Lab Sample ID: LCS 400-595083/15-A
Matrix: Water
Analysis Batch: 596618

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 595083

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	1.01	0.9189		ug/L		91	80 - 120

Lab Sample ID: 860-34152-15 MS
Matrix: Water
Analysis Batch: 596618

Client Sample ID: EP-31
Prep Type: Total/NA
Prep Batch: 595083

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	1.70		2.01	3.528		ug/L		91	80 - 120

Lab Sample ID: 860-34152-15 MSD
Matrix: Water
Analysis Batch: 596618

Client Sample ID: EP-31
Prep Type: Total/NA
Prep Batch: 595083

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	1.70		2.01	3.996		ug/L		114	80 - 120	12	20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-72636/35
Matrix: Water
Analysis Batch: 72636

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			10/10/22 15:30	1
Bicarbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			10/10/22 15:30	1
Carbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			10/10/22 15:30	1
Hydroxide Alkalinity	4.00	U	4.00	4.00	mg/L			10/10/22 15:30	1

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QC Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-1

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: MB 860-72636/4
Matrix: Water
Analysis Batch: 72636

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			10/10/22 12:02	1
Bicarbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			10/10/22 12:02	1
Carbonate Alkalinity as CaCO3	4.00	U	4.00	4.00	mg/L			10/10/22 12:02	1
Hydroxide Alkalinity	4.00	U	4.00	4.00	mg/L			10/10/22 12:02	1

Lab Sample ID: LCS 860-72636/36
Matrix: Water
Analysis Batch: 72636

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 860-72636/5
Matrix: Water
Analysis Batch: 72636

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 860-72636/37
Matrix: Water
Analysis Batch: 72636

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 860-72636/6
Matrix: Water
Analysis Batch: 72636

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: 860-34152-3 DU
Matrix: Water
Analysis Batch: 72636

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

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

Lab Sample ID: 860-34152-15 DU
Matrix: Water
Analysis Batch: 72636

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

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

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QC Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-1

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: 860-34152-15 DU
Matrix: Water
Analysis Batch: 72636

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

Analyte	Sample		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 860-71961/1
Matrix: Water
Analysis Batch: 71961

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

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Total Dissolved Solids	5.00	U	5.00	5.00	mg/L			10/05/22 11:00	1

Lab Sample ID: LCS 860-71961/2
Matrix: Water
Analysis Batch: 71961

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 860-71961/3
Matrix: Water
Analysis Batch: 71961

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit

Lab Sample ID: MB 860-72067/1
Matrix: Water
Analysis Batch: 72067

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

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Total Dissolved Solids	5.00	U	5.00	5.00	mg/L			10/05/22 17:33	1

Lab Sample ID: LCS 860-72067/2
Matrix: Water
Analysis Batch: 72067

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 860-72067/3
Matrix: Water
Analysis Batch: 72067

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit

QC Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-1

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

Lab Sample ID: MB 860-72081/1
 Matrix: Water
 Analysis Batch: 72081

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	1.00	U	1.00	1.00	mg/L			10/05/22 19:19	1

Lab Sample ID: LCS 860-72081/2
 Matrix: Water
 Analysis Batch: 72081

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

Lab Sample ID: LCSD 860-72081/3
 Matrix: Water
 Analysis Batch: 72081

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	1029		mg/L		103	80 - 120	3	10

Lab Sample ID: 860-34152-24 DU
 Matrix: Water
 Analysis Batch: 72081

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	8850		9440		mg/L		6	10

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-584603/1-A
 Matrix: Water
 Analysis Batch: 584938

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 584603

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.3629	U	0.287	0.289	1.00	0.442	pCi/L	10/04/22 15:30	10/07/22 11:44	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	95.8		40 - 110	10/04/22 15:30	10/07/22 11:44	1
Y Carrier	86.4		40 - 110	10/04/22 15:30	10/07/22 11:44	1

Lab Sample ID: LCS 160-584603/2-A
 Matrix: Water
 Analysis Batch: 584938

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 584603

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-228	8.22	8.887		1.20	1.00	0.449	pCi/L	108	75 - 125

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	94.1		40 - 110
Y Carrier	86.4		40 - 110

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QC Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-1

Method: 904.0 - Radium-228 (GFPC) (Continued)

Lab Sample ID: MB 160-586626/1-A
Matrix: Water
Analysis Batch: 587141

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 586626

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.4422	U	0.320	0.323	1.00	0.483	pCi/L	10/20/22 10:18	10/24/22 12:40	1
Carrier	MB %Yield	MB Qualifier	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	90.4		40 - 110		10/20/22 10:18	10/24/22 12:40	1			
Y Carrier	87.9		40 - 110		10/20/22 10:18	10/24/22 12:40	1			

Lab Sample ID: LCS 160-586626/2-A
Matrix: Water
Analysis Batch: 587141

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 586626

Analyte	Spike Added	LCS	LCS	Total	RL	MDC	Unit	%Rec	%Rec Limits
		Result	Qual	Uncert. (2σ+/-)					
Radium-228	8.50	9.280		1.24	1.00	0.538	pCi/L	109	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	98.0		40 - 110						
Y Carrier	88.6		40 - 110						

Lab Sample ID: MB 160-586930/1-A
Matrix: Water
Analysis Batch: 587515

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 586930

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.2091	U	0.250	0.251	1.00	0.413	pCi/L	10/24/22 09:21	10/27/22 14:44	1
Carrier	MB %Yield	MB Qualifier	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	103		40 - 110		10/24/22 09:21	10/27/22 14:44	1			
Y Carrier	85.6		40 - 110		10/24/22 09:21	10/27/22 14:44	1			

Lab Sample ID: LCS 160-586930/2-A
Matrix: Water
Analysis Batch: 587515

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 586930

Analyte	Spike Added	LCS	LCS	Total	RL	MDC	Unit	%Rec	%Rec Limits
		Result	Qual	Uncert. (2σ+/-)					
Radium-228	8.50	9.236		1.19	1.00	0.367	pCi/L	109	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	101		40 - 110						
Y Carrier	87.5		40 - 110						

QC Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-1

Method: 904.0 - Radium-228 (GFPC) (Continued)

Lab Sample ID: 860-34152-2 MS
Matrix: Water
Analysis Batch: 587515

Client Sample ID: PZ-03
Prep Type: Total/NA
Prep Batch: 586930

Analyte	Sample	Sample	Spike	MS	MS	Total	RL	MDC	Unit	%Rec	%Rec	Limits
	Result	Qual		Result	Qual							
Radium-228	2.30		16.6	23.60		2.93	1.00	0.927	pCi/L	128		60 - 140
MS MS												
Carrier	%Yield	Qualifier	Limits									
Ba Carrier	98.0		40 - 110									
Y Carrier	81.5		40 - 110									

Lab Sample ID: 860-34152-2 MSD
Matrix: Water
Analysis Batch: 587475

Client Sample ID: PZ-03
Prep Type: Total/NA
Prep Batch: 586930

Analyte	Sample	Sample	Spike	MSD	MSD	Total	RL	MDC	Unit	%Rec	%Rec	Limits	RER	Limit
	Result	Qual		Result	Qual									
Radium-228	2.30		15.3	22.08		2.76	1.00	0.869	pCi/L	130		60 - 140	0.27	1
MSD MSD														
Carrier	%Yield	Qualifier	Limits											
Ba Carrier	89.7		40 - 110											
Y Carrier	86.0		40 - 110											

Lab Sample ID: MB 160-587264/1-A
Matrix: Water
Analysis Batch: 587908

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 587264

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac			
	Result	Qualifier									Uncert. (2σ+/-)	Uncert. (2σ+/-)	
Radium-228	0.6025	U	0.403	0.407	1.00	0.605	pCi/L	10/25/22 11:20	10/31/22 13:01	1			
MB MB													
Carrier	%Yield	Qualifier	Limits								Prepared	Analyzed	Dil Fac
Ba Carrier	91.9		40 - 110								10/25/22 11:20	10/31/22 13:01	1
Y Carrier	82.2		40 - 110								10/25/22 11:20	10/31/22 13:01	1

Lab Sample ID: LCS 160-587264/2-A
Matrix: Water
Analysis Batch: 587908

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 587264

Analyte	Spike	LCS	LCS	Total	RL	MDC	Unit	%Rec	%Rec	Limits
		Result	Qual							
Radium-228	8.48	10.63		1.45	1.00	0.693	pCi/L	125		75 - 125
LCS LCS										
Carrier	%Yield	Qualifier	Limits							
Ba Carrier	91.4		40 - 110							
Y Carrier	83.4		40 - 110							

QC Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-1

Method: 904.0 - Radium-228 (GFPC) (Continued)

Lab Sample ID: 860-34152-15 MS
Matrix: Water
Analysis Batch: 587908

Client Sample ID: EP-31
Prep Type: Total/NA
Prep Batch: 587264

Analyte	Sample	Sample	Spike	MS	MS	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
	Result	Qual		Result	Qual						
Radium-228	1.99		11.3	13.17		1.78	1.00	0.663	pCi/L	99	60 - 140
MS MS											
Carrier	%Yield	Qualifier	Limits								
Ba Carrier	98.0		40 - 110								
Y Carrier	83.7		40 - 110								

Lab Sample ID: 860-34152-15 MSD
Matrix: Water
Analysis Batch: 587908

Client Sample ID: EP-31
Prep Type: Total/NA
Prep Batch: 587264

Analyte	Sample	Sample	Spike	MSD	MSD	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
	Result	Qual		Result	Qual								
Radium-228	1.99		11.3	16.75		2.19	1.00	0.869	pCi/L	131	60 - 140	0.90	1
MSD MSD													
Carrier	%Yield	Qualifier	Limits										
Ba Carrier	90.9		40 - 110										
Y Carrier	81.9		40 - 110										

QC Association Summary

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-1

HPLC/IC

Leach Batch: 71199

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 860-71199/1-A	Method Blank	Total/NA	Water	29B_Leach	

Analysis Batch: 72174

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-34152-7	AP-35	Total/NA	Water	300.0	
860-34152-7 - DL	AP-35	Total/NA	Water	300.0	
860-34152-8	AP-36	Total/NA	Water	300.0	
860-34152-9	MW-03	Total/NA	Water	300.0	
860-34152-9	MW-03	Total/NA	Water	300.0	
860-34152-10	PZ-05	Total/NA	Water	300.0	
860-34152-10	PZ-05	Total/NA	Water	300.0	
860-34152-11	PZ-06	Total/NA	Water	300.0	
860-34152-11	PZ-06	Total/NA	Water	300.0	
860-34152-12	DUP-02	Total/NA	Water	300.0	
860-34152-12	DUP-02	Total/NA	Water	300.0	
860-34152-15 - DL	EP-31	Total/NA	Water	300.0	
860-34152-15	EP-31	Total/NA	Water	300.0	
860-34152-16	EP-32	Total/NA	Water	300.0	
860-34152-16	EP-32	Total/NA	Water	300.0	
860-34152-17	EP-33	Total/NA	Water	300.0	
860-34152-17	EP-33	Total/NA	Water	300.0	
860-34152-18	EP-34	Total/NA	Water	300.0	
860-34152-18	EP-34	Total/NA	Water	300.0	
860-34152-19	EP-35	Total/NA	Water	300.0	
860-34152-19	EP-35	Total/NA	Water	300.0	
860-34152-20	EP-36	Total/NA	Water	300.0	
860-34152-21	EP-37	Total/NA	Water	300.0	
860-34152-21	EP-37	Total/NA	Water	300.0	
MB 860-72174/3	Method Blank	Total/NA	Water	300.0	
MB 860-72174/53	Method Blank	Total/NA	Water	300.0	
LCS 860-72174/54	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-72174/55	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-72174/7	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 72175

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-34152-8	AP-36	Total/NA	Water	300.0	
860-34152-9	MW-03	Total/NA	Water	300.0	
860-34152-10	PZ-05	Total/NA	Water	300.0	
860-34152-11	PZ-06	Total/NA	Water	300.0	
860-34152-12	DUP-02	Total/NA	Water	300.0	
860-34152-16	EP-32	Total/NA	Water	300.0	
860-34152-17	EP-33	Total/NA	Water	300.0	
860-34152-18	EP-34	Total/NA	Water	300.0	
860-34152-19	EP-35	Total/NA	Water	300.0	
860-34152-20	EP-36	Total/NA	Water	300.0	
860-34152-21	EP-37	Total/NA	Water	300.0	
MB 860-72175/3	Method Blank	Total/NA	Water	300.0	
MB 860-72175/53	Method Blank	Total/NA	Water	300.0	
LCS 860-72175/54	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-72175/55	Lab Control Sample Dup	Total/NA	Water	300.0	

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QC Association Summary

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-1

HPLC/IC (Continued)

Analysis Batch: 72175 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LLCS 860-72175/6	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 72179

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-34152-1	PZ-02	Total/NA	Water	300.0	
860-34152-3	AP-31	Total/NA	Water	300.0	
860-34152-4	AP-32	Total/NA	Water	300.0	
860-34152-6	AP-34	Total/NA	Water	300.0	
860-34152-7	AP-35	Total/NA	Water	300.0	
860-34152-13	FB-02	Total/NA	Water	300.0	
860-34152-14	EB-01	Total/NA	Water	300.0	
860-34152-22	EP-38	Total/NA	Water	300.0	
860-34152-23	MW-04	Total/NA	Water	300.0	
860-34152-24	DUP-03	Total/NA	Water	300.0	
860-34152-25	FB-03	Total/NA	Water	300.0	
860-34152-26	EB-02	Total/NA	Water	300.0	
MB 860-72179/3	Method Blank	Total/NA	Water	300.0	
MB 860-72179/49	Method Blank	Total/NA	Water	300.0	
LCS 860-72179/4	Lab Control Sample	Total/NA	Water	300.0	
LCS 860-72179/50	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-72179/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LCSD 860-72179/51	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-72179/6	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 72355

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-34152-1	PZ-02	Total/NA	Water	300.0	
860-34152-2	PZ-03	Total/NA	Water	300.0	
860-34152-2	PZ-03	Total/NA	Water	300.0	
860-34152-3	AP-31	Total/NA	Water	300.0	
860-34152-4	AP-32	Total/NA	Water	300.0	
860-34152-5	AP-33	Total/NA	Water	300.0	
860-34152-6	AP-34	Total/NA	Water	300.0	
860-34152-13	FB-02	Total/NA	Water	300.0	
860-34152-14	EB-01	Total/NA	Water	300.0	
860-34152-22	EP-38	Total/NA	Water	300.0	
860-34152-23	MW-04	Total/NA	Water	300.0	
860-34152-24	DUP-03	Total/NA	Water	300.0	
860-34152-25	FB-03	Total/NA	Water	300.0	
860-34152-26	EB-02	Total/NA	Water	300.0	
MB 860-72355/13	Method Blank	Total/NA	Water	300.0	
MB 860-72355/77	Method Blank	Total/NA	Water	300.0	
LCS 860-72355/14	Lab Control Sample	Total/NA	Water	300.0	
LCS 860-72355/78	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-72355/15	Lab Control Sample Dup	Total/NA	Water	300.0	
LCSD 860-72355/79	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-72355/17	Lab Control Sample	Total/NA	Water	300.0	
860-34152-15 MS	EP-31	Total/NA	Water	300.0	
860-34152-15 MSD	EP-31	Total/NA	Water	300.0	

QC Association Summary

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-1

HPLC/IC

Analysis Batch: 72356

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-34152-5	AP-33	Total/NA	Water	300.0	
860-34152-15	EP-31	Total/NA	Water	300.0	
LB 860-71199/1-A	Method Blank	Total/NA	Water	300.0	71199
MB 860-72356/13	Method Blank	Total/NA	Water	300.0	
MB 860-72356/77	Method Blank	Total/NA	Water	300.0	
MB 860-72390/1-A	Method Blank	Total/NA	Water	300.0	72390
LCS 860-72356/14	Lab Control Sample	Total/NA	Water	300.0	
LCS 860-72356/78	Lab Control Sample	Total/NA	Water	300.0	
LCS 860-72390/2-A	Lab Control Sample	Total/NA	Water	300.0	72390
LCSD 860-72356/15	Lab Control Sample Dup	Total/NA	Water	300.0	
LCSD 860-72356/79	Lab Control Sample Dup	Total/NA	Water	300.0	
LCSD 860-72390/3-A	Lab Control Sample Dup	Total/NA	Water	300.0	72390
LLCS 860-72356/16	Lab Control Sample	Total/NA	Water	300.0	
860-34152-15 MS	EP-31	Total/NA	Water	300.0	
860-34152-15 MSD	EP-31	Total/NA	Water	300.0	

Prep Batch: 72390

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-72390/1-A	Method Blank	Total/NA	Water	300_Prep	
LCS 860-72390/2-A	Lab Control Sample	Total/NA	Water	300_Prep	
LCSD 860-72390/3-A	Lab Control Sample Dup	Total/NA	Water	300_Prep	

Analysis Batch: 72802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-72802/3	Method Blank	Total/NA	Water	300.0	
LCS 860-72802/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-72802/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-72802/7	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 73378

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-73378/3	Method Blank	Total/NA	Water	300.0	
LCS 860-73378/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-73378/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-73378/7	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 73379

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-34152-2	PZ-03	Total/NA	Water	300.0	
MB 860-73379/3	Method Blank	Total/NA	Water	300.0	
LCS 860-73379/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-73379/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-73379/6	Lab Control Sample	Total/NA	Water	300.0	
860-34152-2 MS	PZ-03	Total/NA	Water	300.0	
860-34152-2 MSD	PZ-03	Total/NA	Water	300.0	

Analysis Batch: 74156

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-74156/3	Method Blank	Total/NA	Water	300.0	
LCS 860-74156/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-74156/5	Lab Control Sample Dup	Total/NA	Water	300.0	

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QC Association Summary

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-1

HPLC/IC (Continued)

Analysis Batch: 74156 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LLCS 860-74156/7	Lab Control Sample	Total/NA	Water	300.0	
860-34152-2 MS	PZ-03	Total/NA	Water	300.0	
860-34152-2 MSD	PZ-03	Total/NA	Water	300.0	

Analysis Batch: 74157

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-74157/3	Method Blank	Total/NA	Water	300.0	
LCS 860-74157/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-74157/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-74157/6	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 75701

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-75701/3	Method Blank	Total/NA	Water	300.0	
MB 860-75701/43	Method Blank	Total/NA	Water	300.0	
LCS 860-75701/44	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-75701/45	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-75701/67	Lab Control Sample	Total/NA	Water	300.0	
860-34152-1 MS	PZ-02	Total/NA	Water	300.0	
860-34152-1 MSD	PZ-02	Total/NA	Water	300.0	

Analysis Batch: 75702

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-75702/3	Method Blank	Total/NA	Water	300.0	
MB 860-75702/43	Method Blank	Total/NA	Water	300.0	
LCS 860-75702/44	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-75702/45	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-75702/6	Lab Control Sample	Total/NA	Water	300.0	
860-34152-1 MS	PZ-02	Total/NA	Water	300.0	
860-34152-1 MSD	PZ-02	Total/NA	Water	300.0	

Analysis Batch: 75912

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-75912/3	Method Blank	Total/NA	Water	300.0	
LCS 860-75912/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-75912/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-75912/7	Lab Control Sample	Total/NA	Water	300.0	
860-34152-2 MS	PZ-03	Total/NA	Water	300.0	
860-34152-2 MSD	PZ-03	Total/NA	Water	300.0	

Analysis Batch: 75913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-75913/3	Method Blank	Total/NA	Water	300.0	
LCS 860-75913/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-75913/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-75913/6	Lab Control Sample	Total/NA	Water	300.0	

QC Association Summary

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-1

Metals

Prep Batch: 595069

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-34152-1	PZ-02	Total/NA	Water	7470A	
860-34152-2	PZ-03	Total/NA	Water	7470A	
860-34152-3	AP-31	Total/NA	Water	7470A	
860-34152-4	AP-32	Total/NA	Water	7470A	
860-34152-5	AP-33	Total/NA	Water	7470A	
860-34152-6	AP-34	Total/NA	Water	7470A	
860-34152-7	AP-35	Total/NA	Water	7470A	
860-34152-8	AP-36	Total/NA	Water	7470A	
860-34152-9	MW-03	Total/NA	Water	7470A	
860-34152-10	PZ-05	Total/NA	Water	7470A	
860-34152-11	PZ-06	Total/NA	Water	7470A	
860-34152-12	DUP-02	Total/NA	Water	7470A	
860-34152-13	FB-02	Total/NA	Water	7470A	
860-34152-14	EB-01	Total/NA	Water	7470A	
MB 400-595069/14-A	Method Blank	Total/NA	Water	7470A	
LCS 400-595069/15-A	Lab Control Sample	Total/NA	Water	7470A	
860-34152-2 MS	PZ-03	Total/NA	Water	7470A	
860-34152-2 MSD	PZ-03	Total/NA	Water	7470A	

Prep Batch: 595083

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-34152-15	EP-31	Total/NA	Water	7470A	
860-34152-16	EP-32	Total/NA	Water	7470A	
860-34152-17	EP-33	Total/NA	Water	7470A	
860-34152-18	EP-34	Total/NA	Water	7470A	
860-34152-19	EP-35	Total/NA	Water	7470A	
860-34152-20	EP-36	Total/NA	Water	7470A	
860-34152-21	EP-37	Total/NA	Water	7470A	
860-34152-22	EP-38	Total/NA	Water	7470A	
860-34152-23	MW-04	Total/NA	Water	7470A	
860-34152-24	DUP-03	Total/NA	Water	7470A	
860-34152-25	FB-03	Total/NA	Water	7470A	
860-34152-26	EB-02	Total/NA	Water	7470A	
MB 400-595083/14-A	Method Blank	Total/NA	Water	7470A	
LCS 400-595083/15-A	Lab Control Sample	Total/NA	Water	7470A	
860-34152-15 MS	EP-31	Total/NA	Water	7470A	
860-34152-15 MSD	EP-31	Total/NA	Water	7470A	

Analysis Batch: 596411

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-34152-1	PZ-02	Total/NA	Water	7470A	595069
860-34152-2	PZ-03	Total/NA	Water	7470A	595069
860-34152-3	AP-31	Total/NA	Water	7470A	595069
860-34152-4	AP-32	Total/NA	Water	7470A	595069
860-34152-5	AP-33	Total/NA	Water	7470A	595069
860-34152-6	AP-34	Total/NA	Water	7470A	595069
860-34152-7	AP-35	Total/NA	Water	7470A	595069
860-34152-8	AP-36	Total/NA	Water	7470A	595069
860-34152-9	MW-03	Total/NA	Water	7470A	595069
860-34152-10	PZ-05	Total/NA	Water	7470A	595069
860-34152-11	PZ-06	Total/NA	Water	7470A	595069

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QC Association Summary

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-1

Metals (Continued)

Analysis Batch: 596411 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-34152-12	DUP-02	Total/NA	Water	7470A	595069
860-34152-13	FB-02	Total/NA	Water	7470A	595069
860-34152-14	EB-01	Total/NA	Water	7470A	595069
MB 400-595069/14-A	Method Blank	Total/NA	Water	7470A	595069
LCS 400-595069/15-A	Lab Control Sample	Total/NA	Water	7470A	595069
860-34152-2 MS	PZ-03	Total/NA	Water	7470A	595069
860-34152-2 MSD	PZ-03	Total/NA	Water	7470A	595069

Analysis Batch: 596618

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-34152-15	EP-31	Total/NA	Water	7470A	595083
860-34152-16	EP-32	Total/NA	Water	7470A	595083
860-34152-17	EP-33	Total/NA	Water	7470A	595083
860-34152-18	EP-34	Total/NA	Water	7470A	595083
860-34152-19	EP-35	Total/NA	Water	7470A	595083
860-34152-20	EP-36	Total/NA	Water	7470A	595083
860-34152-21	EP-37	Total/NA	Water	7470A	595083
860-34152-22	EP-38	Total/NA	Water	7470A	595083
860-34152-23	MW-04	Total/NA	Water	7470A	595083
860-34152-24	DUP-03	Total/NA	Water	7470A	595083
860-34152-25	FB-03	Total/NA	Water	7470A	595083
860-34152-26	EB-02	Total/NA	Water	7470A	595083
MB 400-595083/14-A	Method Blank	Total/NA	Water	7470A	595083
LCS 400-595083/15-A	Lab Control Sample	Total/NA	Water	7470A	595083
860-34152-15 MS	EP-31	Total/NA	Water	7470A	595083
860-34152-15 MSD	EP-31	Total/NA	Water	7470A	595083

Prep Batch: 597735

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-34152-15	EP-31	Total Recoverable	Water	3005A	
860-34152-21	EP-37	Total Recoverable	Water	3005A	
860-34152-23	MW-04	Total Recoverable	Water	3005A	
860-34152-24	DUP-03	Total Recoverable	Water	3005A	
860-34152-25	FB-03	Total Recoverable	Water	3005A	
MB 400-597735/1-A ^5	Method Blank	Total Recoverable	Water	3005A	
LCS 400-597735/2-A ^5	Lab Control Sample	Total Recoverable	Water	3005A	
860-34152-15 MS	EP-31	Total Recoverable	Water	3005A	
860-34152-15 MSD	EP-31	Total Recoverable	Water	3005A	

Prep Batch: 598086

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-34152-1	PZ-02	Total Recoverable	Water	3005A	
860-34152-2	PZ-03	Total Recoverable	Water	3005A	
860-34152-3	AP-31	Total Recoverable	Water	3005A	
860-34152-4	AP-32	Total Recoverable	Water	3005A	
860-34152-5	AP-33	Total Recoverable	Water	3005A	
860-34152-6	AP-34	Total Recoverable	Water	3005A	
860-34152-7	AP-35	Total Recoverable	Water	3005A	
860-34152-8	AP-36	Total Recoverable	Water	3005A	
860-34152-9	MW-03	Total Recoverable	Water	3005A	
860-34152-10	PZ-05	Total Recoverable	Water	3005A	

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QC Association Summary

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-1

Metals (Continued)

Prep Batch: 598086 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-34152-11	PZ-06	Total Recoverable	Water	3005A	
860-34152-12	DUP-02	Total Recoverable	Water	3005A	
860-34152-13	FB-02	Total Recoverable	Water	3005A	
860-34152-14	EB-01	Total Recoverable	Water	3005A	
860-34152-16	EP-32	Total Recoverable	Water	3005A	
860-34152-17	EP-33	Total Recoverable	Water	3005A	
860-34152-18	EP-34	Total Recoverable	Water	3005A	
860-34152-19	EP-35	Total Recoverable	Water	3005A	
860-34152-20	EP-36	Total Recoverable	Water	3005A	
860-34152-2 MS	PZ-03	Total Recoverable	Water	3005A	
860-34152-2 MSD	PZ-03	Total Recoverable	Water	3005A	

Prep Batch: 598107

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-34152-22	EP-38	Total Recoverable	Water	3005A	
860-34152-26	EB-02	Total Recoverable	Water	3005A	
MB 400-598107/1-A ^10	Method Blank	Total Recoverable	Water	3005A	
MB 400-598107/1-A ^5	Method Blank	Total Recoverable	Water	3005A	
LCS 400-598107/2-A ^10	Lab Control Sample	Total Recoverable	Water	3005A	
LCS 400-598107/2-A ^5	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 598494

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-34152-15 MS	EP-31	Total Recoverable	Water	6020B	597735
860-34152-15 MSD	EP-31	Total Recoverable	Water	6020B	597735

Analysis Batch: 598650

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-34152-15	EP-31	Total Recoverable	Water	6020B	597735
860-34152-21	EP-37	Total Recoverable	Water	6020B	597735
860-34152-23	MW-04	Total Recoverable	Water	6020B	597735
860-34152-24	DUP-03	Total Recoverable	Water	6020B	597735
860-34152-25	FB-03	Total Recoverable	Water	6020B	597735
MB 400-597735/1-A ^5	Method Blank	Total Recoverable	Water	6020B	597735
LCS 400-597735/2-A ^5	Lab Control Sample	Total Recoverable	Water	6020B	597735
860-34152-15 MS	EP-31	Total Recoverable	Water	6020B	597735
860-34152-15 MSD	EP-31	Total Recoverable	Water	6020B	597735

Analysis Batch: 598804

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-34152-15	EP-31	Total Recoverable	Water	6020B	597735

Analysis Batch: 599967

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-34152-1	PZ-02	Total Recoverable	Water	6020B	598086
860-34152-2	PZ-03	Total Recoverable	Water	6020B	598086
860-34152-3	AP-31	Total Recoverable	Water	6020B	598086
860-34152-4	AP-32	Total Recoverable	Water	6020B	598086

QC Association Summary

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-1

Metals

Analysis Batch: 599995

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-34152-5	AP-33	Total Recoverable	Water	6020B	598086
860-34152-6	AP-34	Total Recoverable	Water	6020B	598086
860-34152-7	AP-35	Total Recoverable	Water	6020B	598086
860-34152-8	AP-36	Total Recoverable	Water	6020B	598086
860-34152-9	MW-03	Total Recoverable	Water	6020B	598086
860-34152-10	PZ-05	Total Recoverable	Water	6020B	598086
860-34152-11	PZ-06	Total Recoverable	Water	6020B	598086
860-34152-12	DUP-02	Total Recoverable	Water	6020B	598086
860-34152-13	FB-02	Total Recoverable	Water	6020B	598086
860-34152-14	EB-01	Total Recoverable	Water	6020B	598086
860-34152-16	EP-32	Total Recoverable	Water	6020B	598086
860-34152-17	EP-33	Total Recoverable	Water	6020B	598086
860-34152-18	EP-34	Total Recoverable	Water	6020B	598086
860-34152-19	EP-35	Total Recoverable	Water	6020B	598086
860-34152-20	EP-36	Total Recoverable	Water	6020B	598086
860-34152-22	EP-38	Total Recoverable	Water	6020B	598107
860-34152-26	EB-02	Total Recoverable	Water	6020B	598107

Analysis Batch: 600516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-34152-1	PZ-02	Total Recoverable	Water	6020B	598086
860-34152-2	PZ-03	Total Recoverable	Water	6020B	598086
860-34152-3	AP-31	Total Recoverable	Water	6020B	598086
860-34152-4	AP-32	Total Recoverable	Water	6020B	598086
860-34152-5	AP-33	Total Recoverable	Water	6020B	598086
860-34152-6	AP-34	Total Recoverable	Water	6020B	598086
860-34152-7	AP-35	Total Recoverable	Water	6020B	598086
860-34152-8	AP-36	Total Recoverable	Water	6020B	598086
860-34152-9	MW-03	Total Recoverable	Water	6020B	598086
860-34152-10	PZ-05	Total Recoverable	Water	6020B	598086
860-34152-11	PZ-06	Total Recoverable	Water	6020B	598086
860-34152-12	DUP-02	Total Recoverable	Water	6020B	598086
860-34152-13	FB-02	Total Recoverable	Water	6020B	598086
860-34152-14	EB-01	Total Recoverable	Water	6020B	598086
860-34152-16	EP-32	Total Recoverable	Water	6020B	598086
860-34152-17	EP-33	Total Recoverable	Water	6020B	598086
860-34152-18	EP-34	Total Recoverable	Water	6020B	598086
860-34152-19	EP-35	Total Recoverable	Water	6020B	598086
860-34152-20	EP-36	Total Recoverable	Water	6020B	598086
860-34152-22	EP-38	Total Recoverable	Water	6020B	598107
860-34152-26	EB-02	Total Recoverable	Water	6020B	598107
MB 400-598107/1-A ^10	Method Blank	Total Recoverable	Water	6020B	598107
MB 400-598107/1-A ^5	Method Blank	Total Recoverable	Water	6020B	598107
LCS 400-598107/2-A ^10	Lab Control Sample	Total Recoverable	Water	6020B	598107
LCS 400-598107/2-A ^5	Lab Control Sample	Total Recoverable	Water	6020B	598107

Analysis Batch: 601096

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-34152-2 MS	PZ-03	Total Recoverable	Water	6020B	598086
860-34152-2 MSD	PZ-03	Total Recoverable	Water	6020B	598086

QC Association Summary

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-1

General Chemistry

Analysis Batch: 71961

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-34152-1	PZ-02	Total/NA	Water	SM 2540C	
860-34152-2	PZ-03	Total/NA	Water	SM 2540C	
860-34152-3	AP-31	Total/NA	Water	SM 2540C	
860-34152-4	AP-32	Total/NA	Water	SM 2540C	
860-34152-5	AP-33	Total/NA	Water	SM 2540C	
860-34152-6	AP-34	Total/NA	Water	SM 2540C	
MB 860-71961/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-71961/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-71961/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	

Analysis Batch: 72067

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-34152-7	AP-35	Total/NA	Water	SM 2540C	
860-34152-8	AP-36	Total/NA	Water	SM 2540C	
860-34152-9	MW-03	Total/NA	Water	SM 2540C	
860-34152-11	PZ-06	Total/NA	Water	SM 2540C	
860-34152-12	DUP-02	Total/NA	Water	SM 2540C	
860-34152-13	FB-02	Total/NA	Water	SM 2540C	
860-34152-15	EP-31	Total/NA	Water	SM 2540C	
860-34152-16	EP-32	Total/NA	Water	SM 2540C	
860-34152-17	EP-33	Total/NA	Water	SM 2540C	
860-34152-18	EP-34	Total/NA	Water	SM 2540C	
860-34152-19	EP-35	Total/NA	Water	SM 2540C	
860-34152-20	EP-36	Total/NA	Water	SM 2540C	
860-34152-21	EP-37	Total/NA	Water	SM 2540C	
860-34152-22	EP-38	Total/NA	Water	SM 2540C	
MB 860-72067/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-72067/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-72067/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	

Analysis Batch: 72081

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-34152-10	PZ-05	Total/NA	Water	SM 2540C	
860-34152-14	EB-01	Total/NA	Water	SM 2540C	
860-34152-23	MW-04	Total/NA	Water	SM 2540C	
860-34152-24	DUP-03	Total/NA	Water	SM 2540C	
860-34152-25	FB-03	Total/NA	Water	SM 2540C	
860-34152-26	EB-02	Total/NA	Water	SM 2540C	
MB 860-72081/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-72081/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-72081/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
860-34152-24 DU	DUP-03	Total/NA	Water	SM 2540C	

Analysis Batch: 72636

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-34152-1	PZ-02	Total/NA	Water	SM 2320B	
860-34152-2	PZ-03	Total/NA	Water	SM 2320B	
860-34152-3	AP-31	Total/NA	Water	SM 2320B	
860-34152-4	AP-32	Total/NA	Water	SM 2320B	
860-34152-5	AP-33	Total/NA	Water	SM 2320B	
860-34152-6	AP-34	Total/NA	Water	SM 2320B	

Eurofins Houston

QC Association Summary

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-1

General Chemistry (Continued)

Analysis Batch: 72636 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-34152-7	AP-35	Total/NA	Water	SM 2320B	
860-34152-8	AP-36	Total/NA	Water	SM 2320B	
860-34152-9	MW-03	Total/NA	Water	SM 2320B	
860-34152-10	PZ-05	Total/NA	Water	SM 2320B	
860-34152-11	PZ-06	Total/NA	Water	SM 2320B	
860-34152-12	DUP-02	Total/NA	Water	SM 2320B	
860-34152-15	EP-31	Total/NA	Water	SM 2320B	
860-34152-16	EP-32	Total/NA	Water	SM 2320B	
860-34152-17	EP-33	Total/NA	Water	SM 2320B	
860-34152-18	EP-34	Total/NA	Water	SM 2320B	
860-34152-19	EP-35	Total/NA	Water	SM 2320B	
860-34152-20	EP-36	Total/NA	Water	SM 2320B	
860-34152-21	EP-37	Total/NA	Water	SM 2320B	
860-34152-22	EP-38	Total/NA	Water	SM 2320B	
860-34152-23	MW-04	Total/NA	Water	SM 2320B	
860-34152-24	DUP-03	Total/NA	Water	SM 2320B	
MB 860-72636/35	Method Blank	Total/NA	Water	SM 2320B	
MB 860-72636/4	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-72636/36	Lab Control Sample	Total/NA	Water	SM 2320B	
LCS 860-72636/5	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-72636/37	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
LCSD 860-72636/6	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
860-34152-3 DU	AP-31	Total/NA	Water	SM 2320B	
860-34152-15 DU	EP-31	Total/NA	Water	SM 2320B	

Rad

Prep Batch: 584603

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-34152-25	FB-03	Total/NA	Water	PrecSep_0	
860-34152-26	EB-02	Total/NA	Water	PrecSep_0	
MB 160-584603/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-584603/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Prep Batch: 586626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-34152-21	EP-37	Total/NA	Water	PrecSep_0	
860-34152-22	EP-38	Total/NA	Water	PrecSep_0	
860-34152-23	MW-04	Total/NA	Water	PrecSep_0	
860-34152-24	DUP-03	Total/NA	Water	PrecSep_0	
MB 160-586626/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-586626/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Prep Batch: 586930

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-34152-1	PZ-02	Total/NA	Water	PrecSep_0	
860-34152-2	PZ-03	Total/NA	Water	PrecSep_0	
860-34152-3	AP-31	Total/NA	Water	PrecSep_0	
860-34152-4	AP-32	Total/NA	Water	PrecSep_0	
860-34152-5	AP-33	Total/NA	Water	PrecSep_0	
860-34152-6	AP-34	Total/NA	Water	PrecSep_0	

Eurofins Houston

QC Association Summary

Client: GSI Environmental, Inc
Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-1

Rad (Continued)

Prep Batch: 586930 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-34152-7	AP-35	Total/NA	Water	PrecSep_0	
860-34152-8	AP-36	Total/NA	Water	PrecSep_0	
860-34152-9	MW-03	Total/NA	Water	PrecSep_0	
860-34152-10	PZ-05	Total/NA	Water	PrecSep_0	
860-34152-11	PZ-06	Total/NA	Water	PrecSep_0	
860-34152-12	DUP-02	Total/NA	Water	PrecSep_0	
860-34152-13	FB-02	Total/NA	Water	PrecSep_0	
860-34152-14	EB-01	Total/NA	Water	PrecSep_0	
MB 160-586930/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-586930/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
860-34152-2 MS	PZ-03	Total/NA	Water	PrecSep_0	
860-34152-2 MSD	PZ-03	Total/NA	Water	PrecSep_0	

Prep Batch: 587264

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-34152-15	EP-31	Total/NA	Water	PrecSep_0	
860-34152-16	EP-32	Total/NA	Water	PrecSep_0	
860-34152-17	EP-33	Total/NA	Water	PrecSep_0	
860-34152-18	EP-34	Total/NA	Water	PrecSep_0	
860-34152-19	EP-35	Total/NA	Water	PrecSep_0	
860-34152-20	EP-36	Total/NA	Water	PrecSep_0	
MB 160-587264/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-587264/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
860-34152-15 MS	EP-31	Total/NA	Water	PrecSep_0	
860-34152-15 MSD	EP-31	Total/NA	Water	PrecSep_0	

Lab Chronicle

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-1

Client Sample ID: PZ-02
Date Collected: 09/28/22 10:30
Date Received: 09/29/22 09:51

Lab Sample ID: 860-34152-1
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		1			72179	10/06/22 19:00	WP	EET HOU
Total/NA	Analysis	300.0		10	0 mL	1.0 mL	72355	10/08/22 05:32	RBNS	EET HOU
Total Recoverable	Prep	3005A			50 mL	50 mL	598086	10/27/22 13:48	KWN	EET PEN
								Completed: 10/27/22 17:24 ¹		
Total Recoverable	Analysis	6020B		100			600516	11/11/22 00:03	NTH	EET PEN
Total Recoverable	Analysis	6020B		100			599967	10/19/22 14:33	NTH	EET PEN
Total Recoverable	Prep	3005A			50 mL	50 mL	598086	10/27/22 13:48	KWN	EET PEN
								Completed: 10/27/22 17:24 ¹		
Total/NA	Prep	7470A			40 mL	40 mL	595069	10/05/22 09:52	NET	EET PEN
								Completed: 10/05/22 14:15 ¹		
Total/NA	Analysis	7470A		1			596411	10/14/22 14:37	NET	EET PEN
Total/NA	Analysis	SM 2320B		1			72636	10/10/22 13:44	TL	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	71961	10/05/22 11:00	PSC	EET HOU
Total/NA	Prep	PrecSep_0			770.80 mL	1.0 g	586930	10/24/22 09:21	BMP	EET SL
Total/NA	Analysis	904.0		1			587515	10/27/22 14:45	FLC	EET SL

Client Sample ID: PZ-03
Date Collected: 09/28/22 08:55
Date Received: 09/29/22 09:51

Lab Sample ID: 860-34152-2
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	0 mL	1.0 mL	72355	10/07/22 19:13	RBNS	EET HOU
Total/NA	Analysis	300.0		100	0 mL	1.0 mL	72355	10/07/22 19:25	RBNS	EET HOU
Total/NA	Analysis	300.0		1			73379	10/15/22 19:02	A1S	EET HOU
Total Recoverable	Prep	3005A			50 mL	50 mL	598086	10/27/22 13:48	KWN	EET PEN
								Completed: 10/27/22 17:24 ¹		
Total Recoverable	Analysis	6020B		100			600516	11/11/22 00:06	NTH	EET PEN
Total Recoverable	Analysis	6020B		100			599967	10/19/22 14:37	NTH	EET PEN
Total Recoverable	Prep	3005A			50 mL	50 mL	598086	10/27/22 13:48	KWN	EET PEN
								Completed: 10/27/22 17:24 ¹		
Total/NA	Prep	7470A			40 mL	40 mL	595069	10/05/22 09:52	NET	EET PEN
								Completed: 10/05/22 14:15 ¹		
Total/NA	Analysis	7470A		1			596411	10/14/22 14:39	NET	EET PEN
Total/NA	Analysis	SM 2320B		1			72636	10/10/22 13:50	TL	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	71961	10/05/22 11:00	PSC	EET HOU
Total/NA	Prep	PrecSep_0			512.71 mL	1.0 g	586930	10/24/22 09:21	BMP	EET SL
Total/NA	Analysis	904.0		1			587515	10/27/22 14:45	FLC	EET SL

Client Sample ID: AP-31
Date Collected: 09/28/22 09:20
Date Received: 09/29/22 09:51

Lab Sample ID: 860-34152-3
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		1			72179	10/06/22 20:31	WP	EET HOU

Eurofins Houston

Lab Chronicle

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-1

Client Sample ID: AP-31
Date Collected: 09/28/22 09:20
Date Received: 09/29/22 09:51

Lab Sample ID: 860-34152-3
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	0 mL	1.0 mL	72355	10/07/22 19:38	RBNS	EET HOU
Total Recoverable	Prep	3005A			50 mL	50 mL	598086	10/27/22 13:48	KWN	EET PEN
							Completed:	10/27/22 17:24 ¹		
Total Recoverable	Analysis	6020B		500			600516	11/11/22 00:09	NTH	EET PEN
Total Recoverable	Analysis	6020B		500			599967	10/19/22 14:40	NTH	EET PEN
Total Recoverable	Prep	3005A			50 mL	50 mL	598086	10/27/22 13:48	KWN	EET PEN
							Completed:	10/27/22 17:24 ¹		
Total/NA	Prep	7470A			40 mL	40 mL	595069	10/05/22 09:52	NET	EET PEN
							Completed:	10/05/22 14:15 ¹		
Total/NA	Analysis	7470A		1			596411	10/14/22 14:51	NET	EET PEN
Total/NA	Analysis	SM 2320B		1			72636	10/10/22 13:55	TL	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	71961	10/05/22 11:00	PSC	EET HOU
Total/NA	Prep	PrecSep_0			1000.82 mL	1.0 g	586930	10/24/22 09:21	BMP	EET SL
Total/NA	Analysis	904.0		1			587475	10/27/22 14:48	FLC	EET SL

Client Sample ID: AP-32
Date Collected: 09/28/22 11:25
Date Received: 09/29/22 09:51

Lab Sample ID: 860-34152-4
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		1			72179	10/06/22 20:54	WP	EET HOU
Total/NA	Analysis	300.0		10	0 mL	1.0 mL	72355	10/07/22 19:50	RBNS	EET HOU
Total Recoverable	Prep	3005A			50 mL	50 mL	598086	10/27/22 13:48	KWN	EET PEN
							Completed:	10/27/22 17:24 ¹		
Total Recoverable	Analysis	6020B		200			600516	11/11/22 00:12	NTH	EET PEN
Total Recoverable	Analysis	6020B		200			599967	10/19/22 15:24	NTH	EET PEN
Total Recoverable	Prep	3005A			50 mL	50 mL	598086	10/27/22 13:48	KWN	EET PEN
							Completed:	10/27/22 17:24 ¹		
Total/NA	Prep	7470A			40 mL	40 mL	595069	10/05/22 09:52	NET	EET PEN
							Completed:	10/05/22 14:15 ¹		
Total/NA	Analysis	7470A		1			596411	10/14/22 14:54	NET	EET PEN
Total/NA	Analysis	SM 2320B		1			72636	10/10/22 14:06	TL	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	71961	10/05/22 11:00	PSC	EET HOU
Total/NA	Prep	PrecSep_0			983.81 mL	1.0 g	586930	10/24/22 09:21	BMP	EET SL
Total/NA	Analysis	904.0		1			587475	10/27/22 14:48	FLC	EET SL

Client Sample ID: AP-33
Date Collected: 09/28/22 12:20
Date Received: 09/29/22 09:51

Lab Sample ID: 860-34152-5
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	0 mL	1.0 mL	72355	10/08/22 09:36	RBNS	EET HOU
Total/NA	Analysis	300.0		10			72356	10/08/22 09:36	RBNS	EET HOU

Lab Chronicle

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-1

Client Sample ID: AP-33
Date Collected: 09/28/22 12:20
Date Received: 09/29/22 09:51

Lab Sample ID: 860-34152-5
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			50 mL	50 mL	598086	10/27/22 13:48	KWN	EET PEN
Total Recoverable	Analysis	6020B		500			600516	11/11/22 00:15	NTH	EET PEN
Total Recoverable	Analysis	6020B		500			599995	10/19/22 16:38	NTH	EET PEN
Total Recoverable	Prep	3005A			50 mL	50 mL	598086	10/27/22 13:48	KWN	EET PEN
								Completed: 10/27/22 17:24 ¹		
Total/NA	Prep	7470A			40 mL	40 mL	595069	10/05/22 09:52	NET	EET PEN
								Completed: 10/05/22 14:15 ¹		
Total/NA	Analysis	7470A		1			596411	10/14/22 14:57	NET	EET PEN
Total/NA	Analysis	SM 2320B		1			72636	10/10/22 14:11	TL	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	71961	10/05/22 11:00	PSC	EET HOU
Total/NA	Prep	PrecSep_0			1003.66 mL	1.0 g	586930	10/24/22 09:21	BMP	EET SL
Total/NA	Analysis	904.0		1			587475	10/27/22 14:48	FLC	EET SL

Client Sample ID: AP-34
Date Collected: 09/28/22 14:15
Date Received: 09/29/22 09:51

Lab Sample ID: 860-34152-6
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		1			72179	10/06/22 21:16	WP	EET HOU
Total/NA	Analysis	300.0		10	0 mL	1.0 mL	72355	10/07/22 20:02	RBNS	EET HOU
Total Recoverable	Prep	3005A			50 mL	50 mL	598086	10/27/22 13:48	KWN	EET PEN
								Completed: 10/27/22 17:24 ¹		
Total Recoverable	Analysis	6020B		200			600516	11/11/22 00:18	NTH	EET PEN
Total Recoverable	Analysis	6020B		200			599995	10/19/22 16:45	NTH	EET PEN
Total Recoverable	Prep	3005A			50 mL	50 mL	598086	10/27/22 13:48	KWN	EET PEN
								Completed: 10/27/22 17:24 ¹		
Total/NA	Prep	7470A			40 mL	40 mL	595069	10/05/22 09:52	NET	EET PEN
								Completed: 10/05/22 14:15 ¹		
Total/NA	Analysis	7470A		1			596411	10/14/22 15:01	NET	EET PEN
Total/NA	Analysis	SM 2320B		1			72636	10/10/22 14:17	TL	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	71961	10/05/22 11:00	PSC	EET HOU
Total/NA	Prep	PrecSep_0			750.22 mL	1.0 g	586930	10/24/22 09:21	BMP	EET SL
Total/NA	Analysis	904.0		1			587475	10/27/22 14:48	FLC	EET SL

Client Sample ID: AP-35
Date Collected: 09/28/22 13:20
Date Received: 09/29/22 09:51

Lab Sample ID: 860-34152-7
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			72174	10/07/22 04:21	WP	EET HOU
Total/NA	Analysis	300.0	DL	10			72174	10/07/22 04:35	WP	EET HOU
Total/NA	Analysis	300.0		1			72179	10/06/22 21:39	WP	EET HOU
Total Recoverable	Prep	3005A			50 mL	50 mL	598086	10/27/22 13:48	KWN	EET PEN
								Completed: 10/27/22 17:24 ¹		
Total Recoverable	Analysis	6020B		100			600516	11/11/22 00:21	NTH	EET PEN

Eurofins Houston

Lab Chronicle

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-1

Client Sample ID: AP-35
Date Collected: 09/28/22 13:20
Date Received: 09/29/22 09:51

Lab Sample ID: 860-34152-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Analysis	6020B		100			599995	10/19/22 17:02	NTH	EET PEN
Total Recoverable	Prep	3005A			50 mL	50 mL	598086	10/27/22 13:48	KWN	EET PEN
								Completed: 10/27/22 17:24		
Total/NA	Prep	7470A			40 mL	40 mL	595069	10/05/22 09:52	NET	EET PEN
								Completed: 10/05/22 14:15		
Total/NA	Analysis	7470A		1			596411	10/14/22 15:04	NET	EET PEN
Total/NA	Analysis	SM 2320B		1			72636	10/10/22 14:22	TL	EET HOU
Total/NA	Analysis	SM 2540C		1	100 mL	200 mL	72067	10/05/22 17:33	BSR	EET HOU
Total/NA	Prep	PrecSep_0			1000.47 mL	1.0 g	586930	10/24/22 09:21	BMP	EET SL
Total/NA	Analysis	904.0		1			587475	10/27/22 14:49	FLC	EET SL

Client Sample ID: AP-36
Date Collected: 09/28/22 13:55
Date Received: 09/29/22 09:51

Lab Sample ID: 860-34152-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		10	0 mL	1.0 mL	72174	10/07/22 04:49	WP	EET HOU
Total/NA	Analysis	300.0		10			72175	10/07/22 04:49	WP	EET HOU
Total Recoverable	Prep	3005A			50 mL	50 mL	598086	10/27/22 13:48	KWN	EET PEN
								Completed: 10/27/22 17:24		
Total Recoverable	Analysis	6020B		50			600516	11/11/22 00:34	NTH	EET PEN
Total Recoverable	Analysis	6020B		50			599995	10/19/22 17:09	NTH	EET PEN
Total Recoverable	Prep	3005A			50 mL	50 mL	598086	10/27/22 13:48	KWN	EET PEN
								Completed: 10/27/22 17:24		
Total/NA	Prep	7470A			40 mL	40 mL	595069	10/05/22 09:52	NET	EET PEN
								Completed: 10/05/22 14:15		
Total/NA	Analysis	7470A		1			596411	10/14/22 15:14	NET	EET PEN
Total/NA	Analysis	SM 2320B		1			72636	10/10/22 14:44	TL	EET HOU
Total/NA	Analysis	SM 2540C		1	25 mL	200 mL	72067	10/05/22 17:33	BSR	EET HOU
Total/NA	Prep	PrecSep_0			1004.56 mL	1.0 g	586930	10/24/22 09:21	BMP	EET SL
Total/NA	Analysis	904.0		1			587475	10/27/22 14:49	FLC	EET SL

Client Sample ID: MW-03
Date Collected: 09/28/22 10:10
Date Received: 09/29/22 09:51

Lab Sample ID: 860-34152-9
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	0 mL	1.0 mL	72174	10/07/22 05:44	WP	EET HOU
Total/NA	Analysis	300.0		1			72175	10/07/22 05:44	WP	EET HOU
Total/NA	Analysis	300.0		10	0 mL	1.0 mL	72174	10/07/22 05:58	WP	EET HOU
Total Recoverable	Prep	3005A			50 mL	50 mL	598086	10/27/22 13:48	KWN	EET PEN
								Completed: 10/27/22 17:24		
Total Recoverable	Analysis	6020B		100			600516	11/11/22 00:37	NTH	EET PEN

Lab Chronicle

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-1

Client Sample ID: MW-03
Date Collected: 09/28/22 10:10
Date Received: 09/29/22 09:51

Lab Sample ID: 860-34152-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Analysis	6020B		100			599995	10/19/22 17:15	NTH	EET PEN
Total Recoverable	Prep	3005A			50 mL	50 mL	598086	10/27/22 13:48	KWN	EET PEN
								Completed:	10/27/22 17:24	¹
Total/NA	Prep	7470A			40 mL	40 mL	595069	10/05/22 09:52	NET	EET PEN
								Completed:	10/05/22 14:15	¹
Total/NA	Analysis	7470A		1			596411	10/14/22 15:16	NET	EET PEN
Total/NA	Analysis	SM 2320B		1			72636	10/10/22 14:49	TL	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	72067	10/05/22 17:33	BSR	EET HOU
Total/NA	Prep	PrecSep_0			998.74 mL	1.0 g	586930	10/24/22 09:21	BMP	EET SL
Total/NA	Analysis	904.0		1			587475	10/27/22 14:49	FLC	EET SL

Client Sample ID: PZ-05
Date Collected: 09/28/22 13:10
Date Received: 09/29/22 09:51

Lab Sample ID: 860-34152-10
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	0 mL	1.0 mL	72174	10/07/22 06:12	WP	EET HOU
Total/NA	Analysis	300.0		1			72175	10/07/22 06:12	WP	EET HOU
Total/NA	Analysis	300.0		10	0 mL	1.0 mL	72174	10/07/22 06:26	WP	EET HOU
Total Recoverable	Prep	3005A			50 mL	50 mL	598086	10/27/22 13:48	KWN	EET PEN
								Completed:	10/27/22 17:24	¹
Total Recoverable	Analysis	6020B		200			600516	11/11/22 00:40	NTH	EET PEN
Total Recoverable	Analysis	6020B		200			599995	10/19/22 17:25	NTH	EET PEN
Total Recoverable	Prep	3005A			50 mL	50 mL	598086	10/27/22 13:48	KWN	EET PEN
								Completed:	10/27/22 17:24	¹
Total/NA	Prep	7470A			40 mL	40 mL	595069	10/05/22 09:52	NET	EET PEN
								Completed:	10/05/22 14:15	¹
Total/NA	Analysis	7470A		1			596411	10/14/22 15:19	NET	EET PEN
Total/NA	Analysis	SM 2320B		1			72636	10/10/22 14:55	TL	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	72081	10/05/22 19:19	BSR	EET HOU
Total/NA	Prep	PrecSep_0			1004.21 mL	1.0 g	586930	10/24/22 09:21	BMP	EET SL
Total/NA	Analysis	904.0		1			587475	10/27/22 14:49	FLC	EET SL

Client Sample ID: PZ-06
Date Collected: 09/28/22 12:55
Date Received: 09/29/22 09:51

Lab Sample ID: 860-34152-11
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	0 mL	1.0 mL	72174	10/07/22 06:40	WP	EET HOU
Total/NA	Analysis	300.0		1			72175	10/07/22 06:40	WP	EET HOU
Total/NA	Analysis	300.0		10	0 mL	1.0 mL	72174	10/07/22 06:54	WP	EET HOU
Total Recoverable	Prep	3005A			50 mL	50 mL	598086	10/27/22 13:48	KWN	EET PEN
								Completed:	10/27/22 17:24	¹
Total Recoverable	Analysis	6020B		50			600516	11/11/22 00:43	NTH	EET PEN

Eurofins Houston

Lab Chronicle

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-1

Client Sample ID: PZ-06

Lab Sample ID: 860-34152-11

Date Collected: 09/28/22 12:55

Matrix: Water

Date Received: 09/29/22 09:51

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Analysis	6020B		50			599995	10/19/22 17:35	NTH	EET PEN
Total Recoverable	Prep	3005A			50 mL	50 mL	598086	10/27/22 13:48	KWN	EET PEN
								Completed: 10/27/22 17:24		
Total/NA	Prep	7470A			40 mL	40 mL	595069	10/05/22 09:52	NET	EET PEN
								Completed: 10/05/22 14:15		
Total/NA	Analysis	7470A		1			596411	10/14/22 15:22	NET	EET PEN
Total/NA	Analysis	SM 2320B		1			72636	10/10/22 15:02	TL	EET HOU
Total/NA	Analysis	SM 2540C		1	25 mL	200 mL	72067	10/05/22 17:33	BSR	EET HOU
Total/NA	Prep	PrecSep_0			998.85 mL	1.0 g	586930	10/24/22 09:21	BMP	EET SL
Total/NA	Analysis	904.0		1	1.0 mL	1.0 mL	587476	10/27/22 14:51	FLC	EET SL

Client Sample ID: DUP-02

Lab Sample ID: 860-34152-12

Date Collected: 09/28/22 09:00

Matrix: Water

Date Received: 09/29/22 09:51

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	72174	10/07/22 07:07	WP	EET HOU
Total/NA	Analysis	300.0		1			72175	10/07/22 07:07	WP	EET HOU
Total/NA	Analysis	300.0		10	0 mL	1.0 mL	72174	10/07/22 07:21	WP	EET HOU
Total Recoverable	Prep	3005A			50 mL	50 mL	598086	10/27/22 13:48	KWN	EET PEN
								Completed: 10/27/22 17:24		
Total Recoverable	Analysis	6020B		100			600516	11/11/22 00:46	NTH	EET PEN
Total Recoverable	Analysis	6020B		100			599995	10/19/22 17:42	NTH	EET PEN
Total Recoverable	Prep	3005A			50 mL	50 mL	598086	10/27/22 13:48	KWN	EET PEN
								Completed: 10/27/22 17:24		
Total/NA	Prep	7470A			40 mL	40 mL	595069	10/05/22 09:52	NET	EET PEN
								Completed: 10/05/22 14:15		
Total/NA	Analysis	7470A		1			596411	10/14/22 15:25	NET	EET PEN
Total/NA	Analysis	SM 2320B		1			72636	10/10/22 15:07	TL	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	72067	10/05/22 17:33	BSR	EET HOU
Total/NA	Prep	PrecSep_0			1011.53 mL	1.0 g	586930	10/24/22 09:21	BMP	EET SL
Total/NA	Analysis	904.0		1	1.0 mL	1.0 mL	587476	10/27/22 14:51	FLC	EET SL

Client Sample ID: FB-02

Lab Sample ID: 860-34152-13

Date Collected: 09/28/22 13:20

Matrix: Water

Date Received: 09/29/22 09:51

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			72179	10/06/22 18:15	WP	EET HOU
Total/NA	Analysis	300.0		1	0 mL	1.0 mL	72355	10/08/22 01:28	RBNS	EET HOU
Total Recoverable	Prep	3005A			50 mL	50 mL	598086	10/27/22 13:48	KWN	EET PEN
								Completed: 10/27/22 17:24		
Total Recoverable	Analysis	6020B		5			600516	11/11/22 00:49	NTH	EET PEN

Lab Chronicle

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-1

Client Sample ID: FB-02
Date Collected: 09/28/22 13:20
Date Received: 09/29/22 09:51

Lab Sample ID: 860-34152-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Analysis	6020B		5			599995	10/19/22 17:49	NTH	EET PEN
Total Recoverable	Prep	3005A			50 mL	50 mL	598086	10/27/22 13:48	KWN	EET PEN
								Completed: 10/27/22 17:24 ¹		
Total/NA	Prep	7470A			40 mL	40 mL	595069	10/05/22 09:52	NET	EET PEN
								Completed: 10/05/22 14:15 ¹		
Total/NA	Analysis	7470A		1			596411	10/14/22 15:27	NET	EET PEN
Total/NA	Analysis	SM 2540C		1	200 mL	200 mL	72067	10/05/22 17:33	BSR	EET HOU
Total/NA	Prep	PrecSep_0			1018.53 mL	1.0 g	586930	10/24/22 09:21	BMP	EET SL
Total/NA	Analysis	904.0		1	1.0 mL	1.0 mL	587476	10/27/22 14:51	FLC	EET SL

Client Sample ID: EB-01
Date Collected: 09/28/22 13:20
Date Received: 09/29/22 09:51

Lab Sample ID: 860-34152-14
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			72179	10/06/22 18:26	WP	EET HOU
Total/NA	Analysis	300.0		1	0 mL	1.0 mL	72355	10/08/22 01:40	RBNS	EET HOU
Total Recoverable	Prep	3005A			50 mL	50 mL	598086	10/27/22 13:48	KWN	EET PEN
								Completed: 10/27/22 17:24 ¹		
Total Recoverable	Analysis	6020B		5			600516	11/11/22 00:52	NTH	EET PEN
Total Recoverable	Analysis	6020B		5			599995	10/19/22 17:52	NTH	EET PEN
Total Recoverable	Prep	3005A			50 mL	50 mL	598086	10/27/22 13:48	KWN	EET PEN
								Completed: 10/27/22 17:24 ¹		
Total/NA	Prep	7470A			40 mL	40 mL	595069	10/05/22 09:52	NET	EET PEN
								Completed: 10/05/22 14:15 ¹		
Total/NA	Analysis	7470A		1			596411	10/14/22 15:30	NET	EET PEN
Total/NA	Analysis	SM 2540C		1	200 mL	200 mL	72081	10/05/22 19:19	BSR	EET HOU
Total/NA	Prep	PrecSep_0			998.94 mL	1.0 g	586930	10/24/22 09:21	BMP	EET SL
Total/NA	Analysis	904.0		1	1.0 mL	1.0 mL	587476	10/27/22 14:52	FLC	EET SL

Client Sample ID: EP-31
Date Collected: 09/28/22 11:15
Date Received: 09/29/22 09:51

Lab Sample ID: 860-34152-15
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			72174	10/07/22 07:35	WP	EET HOU
Total/NA	Analysis	300.0		1			72174	10/07/22 08:17	WP	EET HOU
Total/NA	Analysis	300.0		10			72356	10/08/22 08:23	RBNS	EET HOU
Total Recoverable	Prep	3005A			50 mL	50 mL	597735	10/25/22 11:49	KWN	EET PEN
								Completed: 10/25/22 15:57 ¹		
Total Recoverable	Analysis	6020B		25			598650	10/31/22 21:58	NTH	EET PEN
Total Recoverable	Prep	3005A			50 mL	50 mL	597735	10/25/22 11:49	KWN	EET PEN
								Completed: 10/25/22 15:57 ¹		
Total Recoverable	Analysis	6020B		50			598804	11/01/22 13:30	NTH	EET PEN

Eurofins Houston

Lab Chronicle

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-1

Client Sample ID: EP-31

Lab Sample ID: 860-34152-15

Date Collected: 09/28/22 11:15

Matrix: Water

Date Received: 09/29/22 09:51

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			40 mL	40 mL	595083	10/05/22 10:04	NET	EET PEN
Total/NA	Analysis	7470A		1			596618	10/16/22 11:16	NET	EET PEN
Total/NA	Analysis	SM 2320B		1			72636	10/10/22 15:54	TL	EET HOU
Total/NA	Analysis	SM 2540C		1	25 mL	200 mL	72067	10/05/22 17:33	BSR	EET HOU
Total/NA	Prep	PrecSep_0			765.35 mL	1.0 g	587264	10/25/22 11:20	BMP	EET SL
Total/NA	Analysis	904.0		1			587908	10/31/22 13:02	JCB	EET SL

Client Sample ID: EP-32

Lab Sample ID: 860-34152-16

Date Collected: 09/28/22 13:10

Matrix: Water

Date Received: 09/29/22 09:51

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	72174	10/07/22 08:31	WP	EET HOU
Total/NA	Analysis	300.0		1			72175	10/07/22 08:31	WP	EET HOU
Total/NA	Analysis	300.0		10	0 mL	1.0 mL	72174	10/07/22 08:44	WP	EET HOU
Total Recoverable	Prep	3005A			50 mL	50 mL	598086	10/27/22 13:48	KWN	EET PEN
							Completed:	10/27/22 17:24	1	
Total Recoverable	Analysis	6020B		200			600516	11/11/22 00:55	NTH	EET PEN
Total Recoverable	Analysis	6020B		200			599995	10/19/22 18:06	NTH	EET PEN
Total Recoverable	Prep	3005A			50 mL	50 mL	598086	10/27/22 13:48	KWN	EET PEN
							Completed:	10/27/22 17:24	1	
Total/NA	Prep	7470A			40 mL	40 mL	595083	10/05/22 10:04	NET	EET PEN
							Completed:	10/05/22 17:19	1	
Total/NA	Analysis	7470A		1			596618	10/16/22 11:27	NET	EET PEN
Total/NA	Analysis	SM 2320B		1			72636	10/10/22 16:08	TL	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	72067	10/05/22 17:33	BSR	EET HOU
Total/NA	Prep	PrecSep_0			1000.86 mL	1.0 g	587264	10/25/22 11:20	BMP	EET SL
Total/NA	Analysis	904.0		1			587908	10/31/22 13:02	JCB	EET SL

Client Sample ID: EP-33

Lab Sample ID: 860-34152-17

Date Collected: 09/28/22 11:50

Matrix: Water

Date Received: 09/29/22 09:51

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	72174	10/07/22 08:58	WP	EET HOU
Total/NA	Analysis	300.0		1			72175	10/07/22 08:58	WP	EET HOU
Total/NA	Analysis	300.0		10	0 mL	1.0 mL	72174	10/07/22 09:12	WP	EET HOU
Total Recoverable	Prep	3005A			50 mL	50 mL	598086	10/27/22 13:48	KWN	EET PEN
							Completed:	10/27/22 17:24	1	
Total Recoverable	Analysis	6020B		500			600516	11/11/22 00:58	NTH	EET PEN
Total Recoverable	Analysis	6020B		500			599995	10/19/22 18:16	NTH	EET PEN
Total Recoverable	Prep	3005A			50 mL	50 mL	598086	10/27/22 13:48	KWN	EET PEN
							Completed:	10/27/22 17:24	1	

Lab Chronicle

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-1

Client Sample ID: EP-33

Lab Sample ID: 860-34152-17

Date Collected: 09/28/22 11:50

Matrix: Water

Date Received: 09/29/22 09:51

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			40 mL	40 mL	595083	10/05/22 10:04	NET	EET PEN
Total/NA	Analysis	7470A		1			596618	10/16/22 11:30	NET	EET PEN
Total/NA	Analysis	SM 2320B		1			72636	10/10/22 16:16	TL	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	72067	10/05/22 17:33	BSR	EET HOU
Total/NA	Prep	PrecSep_0			1005.45 mL	1.0 g	587264	10/25/22 11:20	BMP	EET SL
Total/NA	Analysis	904.0		1			587908	10/31/22 13:03	JCB	EET SL

Client Sample ID: EP-34

Lab Sample ID: 860-34152-18

Date Collected: 09/28/22 10:50

Matrix: Water

Date Received: 09/29/22 09:51

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	72174	10/07/22 09:26	WP	EET HOU
Total/NA	Analysis	300.0		1			72175	10/07/22 09:26	WP	EET HOU
Total/NA	Analysis	300.0		10	0 mL	1.0 mL	72174	10/07/22 09:40	WP	EET HOU
Total Recoverable	Prep	3005A			50 mL	50 mL	598086	10/27/22 13:48	KWN	EET PEN
							Completed:	10/27/22 17:24	1	
Total Recoverable	Analysis	6020B		200			600516	11/11/22 01:01	NTH	EET PEN
Total Recoverable	Analysis	6020B		200			599995	10/19/22 18:23	NTH	EET PEN
Total Recoverable	Prep	3005A			50 mL	50 mL	598086	10/27/22 13:48	KWN	EET PEN
							Completed:	10/27/22 17:24	1	
Total/NA	Prep	7470A			40 mL	40 mL	595083	10/05/22 10:04	NET	EET PEN
							Completed:	10/05/22 17:19	1	
Total/NA	Analysis	7470A		1			596618	10/16/22 11:33	NET	EET PEN
Total/NA	Analysis	SM 2320B		1			72636	10/10/22 16:25	TL	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	72067	10/05/22 17:33	BSR	EET HOU
Total/NA	Prep	PrecSep_0			1002.29 mL	1.0 g	587264	10/25/22 11:20	BMP	EET SL
Total/NA	Analysis	904.0		1			587908	10/31/22 13:03	JCB	EET SL

Client Sample ID: EP-35

Lab Sample ID: 860-34152-19

Date Collected: 09/28/22 09:50

Matrix: Water

Date Received: 09/29/22 09:51

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	72174	10/07/22 09:54	WP	EET HOU
Total/NA	Analysis	300.0		1			72175	10/07/22 09:54	WP	EET HOU
Total/NA	Analysis	300.0		10	0 mL	1.0 mL	72174	10/07/22 10:07	WP	EET HOU
Total Recoverable	Prep	3005A			50 mL	50 mL	598086	10/27/22 13:48	KWN	EET PEN
							Completed:	10/27/22 17:24	1	
Total Recoverable	Analysis	6020B		200			600516	11/11/22 01:14	NTH	EET PEN
Total Recoverable	Analysis	6020B		200			599995	10/19/22 18:33	NTH	EET PEN
Total Recoverable	Prep	3005A			50 mL	50 mL	598086	10/27/22 13:48	KWN	EET PEN
							Completed:	10/27/22 17:24	1	

Lab Chronicle

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-1

Client Sample ID: EP-35
Date Collected: 09/28/22 09:50
Date Received: 09/29/22 09:51

Lab Sample ID: 860-34152-19
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			40 mL	40 mL	595083	10/05/22 10:04	NET	EET PEN
Total/NA	Analysis	7470A		1			596618	10/16/22 11:36	NET	EET PEN
Total/NA	Analysis	SM 2320B		1			72636	10/10/22 16:32	TL	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	72067	10/05/22 17:33	BSR	EET HOU
Total/NA	Prep	PrecSep_0			994.01 mL	1.0 g	587264	10/25/22 11:20	BMP	EET SL
Total/NA	Analysis	904.0		1			587908	10/31/22 13:03	JCB	EET SL

Client Sample ID: EP-36
Date Collected: 09/28/22 08:50
Date Received: 09/29/22 09:51

Lab Sample ID: 860-34152-20
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	0 mL	1.0 mL	72174	10/07/22 10:21	WP	EET HOU
Total/NA	Analysis	300.0		10			72175	10/07/22 10:21	WP	EET HOU
Total Recoverable	Prep	3005A			50 mL	50 mL	598086	10/27/22 13:48	KWN	EET PEN
Total Recoverable	Analysis	6020B		200			600516	11/11/22 01:17	NTH	EET PEN
Total Recoverable	Analysis	6020B		200			599995	10/19/22 18:43	NTH	EET PEN
Total Recoverable	Prep	3005A			50 mL	50 mL	598086	10/27/22 13:48	KWN	EET PEN
							Completed:	10/27/22 17:24	1	
Total/NA	Prep	7470A			40 mL	40 mL	595083	10/05/22 10:04	NET	EET PEN
							Completed:	10/05/22 17:19	1	
Total/NA	Analysis	7470A		1			596618	10/16/22 11:46	NET	EET PEN
Total/NA	Analysis	SM 2320B		1			72636	10/10/22 16:41	TL	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	72067	10/05/22 17:33	BSR	EET HOU
Total/NA	Prep	PrecSep_0			999.07 mL	1.0 g	587264	10/25/22 11:20	BMP	EET SL
Total/NA	Analysis	904.0		1			587908	10/31/22 13:04	JCB	EET SL

Client Sample ID: EP-37
Date Collected: 09/28/22 09:00
Date Received: 09/29/22 09:51

Lab Sample ID: 860-34152-21
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	0 mL	1.0 mL	72174	10/07/22 11:17	WP	EET HOU
Total/NA	Analysis	300.0		1			72175	10/07/22 11:17	WP	EET HOU
Total/NA	Analysis	300.0		10	0 mL	1.0 mL	72174	10/07/22 11:30	WP	EET HOU
Total Recoverable	Prep	3005A			50 mL	50 mL	597735	10/25/22 11:49	KWN	EET PEN
							Completed:	10/25/22 15:57	1	
Total Recoverable	Analysis	6020B		25			598650	10/31/22 23:12	NTH	EET PEN
Total/NA	Prep	7470A			40 mL	40 mL	595083	10/05/22 10:04	NET	EET PEN
							Completed:	10/05/22 17:19	1	
Total/NA	Analysis	7470A		1			596618	10/16/22 11:48	NET	EET PEN
Total/NA	Analysis	SM 2320B		1			72636	10/10/22 17:04	TL	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	72067	10/05/22 17:33	BSR	EET HOU

Eurofins Houston

Lab Chronicle

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-1

Client Sample ID: EP-37
Date Collected: 09/28/22 09:00
Date Received: 09/29/22 09:51

Lab Sample ID: 860-34152-21
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			999.34 mL	1.0 g	586626	10/20/22 10:18	ZR	EET SL
Total/NA	Analysis	904.0		1			587140	10/24/22 12:44	CLP	EET SL

Client Sample ID: EP-38
Date Collected: 09/28/22 10:40
Date Received: 09/29/22 09:51

Lab Sample ID: 860-34152-22
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			72179	10/07/22 05:12	WP	EET HOU
Total/NA	Analysis	300.0		10	0 mL	1.0 mL	72355	10/08/22 07:47	RBNS	EET HOU
Total Recoverable	Prep	3005A			50 mL	50 mL	598107	10/27/22 14:46	KWN	EET PEN
							Completed:	10/27/22 17:54 ¹		
Total Recoverable	Analysis	6020B		50			600516	11/11/22 01:20	NTH	EET PEN
Total Recoverable	Analysis	6020B		50			599995	10/19/22 18:53	NTH	EET PEN
Total Recoverable	Prep	3005A			50 mL	50 mL	598107	10/27/22 14:46	KWN	EET PEN
							Completed:	10/27/22 17:54 ¹		
Total/NA	Prep	7470A			40 mL	40 mL	595083	10/05/22 10:04	NET	EET PEN
							Completed:	10/05/22 17:19 ¹		
Total/NA	Analysis	7470A		1			596618	10/16/22 11:51	NET	EET PEN
Total/NA	Analysis	SM 2320B		1			72636	10/10/22 17:11	TL	EET HOU
Total/NA	Analysis	SM 2540C		1	25 mL	200 mL	72067	10/05/22 17:33	BSR	EET HOU
Total/NA	Prep	PrecSep_0			996.70 mL	1.0 g	586626	10/20/22 10:18	ZR	EET SL
Total/NA	Analysis	904.0		1			587140	10/24/22 12:44	CLP	EET SL

Client Sample ID: MW-04
Date Collected: 09/28/22 09:45
Date Received: 09/29/22 09:51

Lab Sample ID: 860-34152-23
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			72179	10/07/22 05:35	WP	EET HOU
Total/NA	Analysis	300.0		10	0 mL	1.0 mL	72355	10/08/22 07:59	RBNS	EET HOU
Total Recoverable	Prep	3005A			50 mL	50 mL	597735	10/25/22 11:49	KWN	EET PEN
							Completed:	10/25/22 15:57 ¹		
Total Recoverable	Analysis	6020B		25			598650	10/31/22 23:40	NTH	EET PEN
Total/NA	Prep	7470A			40 mL	40 mL	595083	10/05/22 10:04	NET	EET PEN
							Completed:	10/05/22 17:19 ¹		
Total/NA	Analysis	7470A		1			596618	10/16/22 11:54	NET	EET PEN
Total/NA	Analysis	SM 2320B		1			72636	10/10/22 17:19	TL	EET HOU
Total/NA	Analysis	SM 2540C		1	25 mL	200 mL	72081	10/05/22 19:19	BSR	EET HOU
Total/NA	Prep	PrecSep_0			1001.78 mL	1.0 g	586626	10/20/22 10:18	ZR	EET SL
Total/NA	Analysis	904.0		1			587140	10/24/22 12:44	CLP	EET SL

Lab Chronicle

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-1

Client Sample ID: DUP-03
Date Collected: 09/28/22 11:00
Date Received: 09/29/22 09:51

Lab Sample ID: 860-34152-24
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			72179	10/07/22 05:58	WP	EET HOU
Total/NA	Analysis	300.0		10	0 mL	1.0 mL	72355	10/08/22 08:11	RBNS	EET HOU
Total Recoverable	Prep	3005A			50 mL	50 mL	597735	10/25/22 11:49	KWN	EET PEN
								Completed: 10/25/22 15:57 ¹		
Total Recoverable	Analysis	6020B		25			598650	10/31/22 23:43	NTH	EET PEN
Total/NA	Prep	7470A			40 mL	40 mL	595083	10/05/22 10:04	NET	EET PEN
								Completed: 10/05/22 17:19 ¹		
Total/NA	Analysis	7470A		1			596618	10/16/22 11:56	NET	EET PEN
Total/NA	Analysis	SM 2320B		1			72636	10/10/22 17:27	TL	EET HOU
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	72081	10/05/22 19:19	BSR	EET HOU
Total/NA	Prep	PrecSep_0			997.52 mL	1.0 g	586626	10/20/22 10:18	ZR	EET SL
Total/NA	Analysis	904.0		1			587140	10/24/22 12:44	CLP	EET SL

Client Sample ID: FB-03
Date Collected: 09/28/22 09:10
Date Received: 09/29/22 09:51

Lab Sample ID: 860-34152-25
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			72179	10/06/22 18:38	WP	EET HOU
Total/NA	Analysis	300.0		1	0 mL	1.0 mL	72355	10/08/22 05:08	RBNS	EET HOU
Total Recoverable	Prep	3005A			50 mL	50 mL	597735	10/25/22 11:49	KWN	EET PEN
								Completed: 10/25/22 15:57 ¹		
Total Recoverable	Analysis	6020B		25			598650	10/31/22 23:46	NTH	EET PEN
Total/NA	Prep	7470A			40 mL	40 mL	595083	10/05/22 10:04	NET	EET PEN
								Completed: 10/05/22 17:19 ¹		
Total/NA	Analysis	7470A		1			596618	10/16/22 11:59	NET	EET PEN
Total/NA	Analysis	SM 2540C		1	100 mL	200 mL	72081	10/05/22 19:19	BSR	EET HOU
Total/NA	Prep	PrecSep_0			995.55 mL	1.0 g	584603	10/04/22 15:30	BMP	EET SL
Total/NA	Analysis	904.0		1			584948	10/07/22 12:05	JCB	EET SL

Client Sample ID: EB-02
Date Collected: 09/28/22 10:05
Date Received: 09/29/22 09:51

Lab Sample ID: 860-34152-26
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			72179	10/06/22 18:49	WP	EET HOU
Total/NA	Analysis	300.0		1	0 mL	1.0 mL	72355	10/08/22 05:20	RBNS	EET HOU
Total Recoverable	Prep	3005A			50 mL	50 mL	598107	10/27/22 14:46	KWN	EET PEN
								Completed: 10/27/22 17:54 ¹		
Total Recoverable	Analysis	6020B		5			600516	11/11/22 01:23	NTH	EET PEN
Total Recoverable	Analysis	6020B		5			599995	10/19/22 19:00	NTH	EET PEN
Total Recoverable	Prep	3005A			50 mL	50 mL	598107	10/27/22 14:46	KWN	EET PEN
								Completed: 10/27/22 17:54 ¹		

Lab Chronicle

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-1

Client Sample ID: EB-02

Lab Sample ID: 860-34152-26

Date Collected: 09/28/22 10:05

Matrix: Water

Date Received: 09/29/22 09:51

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			40 mL	40 mL	595083	10/05/22 10:04	NET	EET PEN
Total/NA	Analysis	7470A		1			596618	10/16/22 12:02	NET	EET PEN
Total/NA	Analysis	SM 2540C		1	200 mL	200 mL	72081	10/05/22 19:19	BSR	EET HOU
Total/NA	Prep	PrecSep_0			999.09 mL	1.0 g	584603	10/04/22 15:30	BMP	EET SL
Total/NA	Analysis	904.0		1			584948	10/07/22 12:05	JCB	EET SL

* Completion dates and times are reported or not reported per method requirements or individual lab discretion.

Laboratory References:

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

EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

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 2H22 GW

Job ID: 860-34152-1

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	T104704215-22-47	06-30-23
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
SM 2320B		Water	Bicarbonate Alkalinity as CaCO3
SM 2320B		Water	Carbonate Alkalinity as CaCO3
SM 2320B		Water	Hydroxide Alkalinity

Laboratory: Eurofins Pensacola

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

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	06-30-23
ANAB	ISO/IEC 17025	L2471	02-23-23
Arkansas DEQ	State	88-0689	09-01-23
California	State	2510	06-30-23
Florida	NELAP	E81010	06-30-23
Georgia	State	E81010(FL)	06-30-23
Illinois	NELAP	200041	10-09-23
Kansas	NELAP	E-10253	10-31-23
Kentucky (UST)	State	53	06-30-23
Kentucky (WW)	State	KY98030	12-31-22
Louisiana (All)	NELAP	30976	06-30-23
Louisiana (DW)	State	LA017	12-31-22
Maryland	State	233	09-30-23
Michigan	State	9912	06-30-23
North Carolina (WW/SW)	State	314	12-31-22
Oklahoma	NELAP	9810	08-31-23
Pennsylvania	NELAP	68-00467	01-31-23
South Carolina	State	96026	06-30-23
Tennessee	State	TN02907	06-30-23
Texas	NELAP	T104704286	09-30-23
US Fish & Wildlife	US Federal Programs	A22340	06-30-23
USDA	US Federal Programs	P330-21-00056	05-17-24
Virginia	NELAP	460166	06-14-23
West Virginia DEP	State	136	03-31-23

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: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-1

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	EET HOU
6020B	Metals (ICP/MS)	SW846	EET PEN
7470A	Mercury (CVAA)	SW846	EET PEN
SM 2320B	Alkalinity	SM	EET HOU
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET HOU
904.0	Radium-228 (GFPC)	EPA	EET SL
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET PEN
7470A	Preparation, Mercury	SW846	EET PEN
PrecSep_0	Preparation, Precipitate Separation	None	EET SL

Protocol References:

EPA = US Environmental Protection Agency

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

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:

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

EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

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 2H22 GW

Job ID: 860-34152-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-34152-1	PZ-02	Water	09/28/22 10:30	09/29/22 09:51
860-34152-2	PZ-03	Water	09/28/22 08:55	09/29/22 09:51
860-34152-3	AP-31	Water	09/28/22 09:20	09/29/22 09:51
860-34152-4	AP-32	Water	09/28/22 11:25	09/29/22 09:51
860-34152-5	AP-33	Water	09/28/22 12:20	09/29/22 09:51
860-34152-6	AP-34	Water	09/28/22 14:15	09/29/22 09:51
860-34152-7	AP-35	Water	09/28/22 13:20	09/29/22 09:51
860-34152-8	AP-36	Water	09/28/22 13:55	09/29/22 09:51
860-34152-9	MW-03	Water	09/28/22 10:10	09/29/22 09:51
860-34152-10	PZ-05	Water	09/28/22 13:10	09/29/22 09:51
860-34152-11	PZ-06	Water	09/28/22 12:55	09/29/22 09:51
860-34152-12	DUP-02	Water	09/28/22 09:00	09/29/22 09:51
860-34152-13	FB-02	Water	09/28/22 13:20	09/29/22 09:51
860-34152-14	EB-01	Water	09/28/22 13:20	09/29/22 09:51
860-34152-15	EP-31	Water	09/28/22 11:15	09/29/22 09:51
860-34152-16	EP-32	Water	09/28/22 13:10	09/29/22 09:51
860-34152-17	EP-33	Water	09/28/22 11:50	09/29/22 09:51
860-34152-18	EP-34	Water	09/28/22 10:50	09/29/22 09:51
860-34152-19	EP-35	Water	09/28/22 09:50	09/29/22 09:51
860-34152-20	EP-36	Water	09/28/22 08:50	09/29/22 09:51
860-34152-21	EP-37	Water	09/28/22 09:00	09/29/22 09:51
860-34152-22	EP-38	Water	09/28/22 10:40	09/29/22 09:51
860-34152-23	MW-04	Water	09/28/22 09:45	09/29/22 09:51
860-34152-24	DUP-03	Water	09/28/22 11:00	09/29/22 09:51
860-34152-25	FB-03	Water	09/28/22 09:10	09/29/22 09:51
860-34152-26	EB-02	Water	09/28/22 10:05	09/29/22 09:51



4747 Greenhater Dr
Stafford, TX 77477
Phone (281) 240-4200

Eurofins Xenco, Stafford

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-net.com
Project Name: San Miguel Electrical Co-Op 2H2/GW (Air Ponds)
Site: SSO#W#

Due Date Requested:
TAT Requested (days):
Compliance Project: Yes No
PO #:
W/O #:
Project #: 86001746
SSOW#:

Sampler: Scott Wade + HMI Team
Phone: 832 347-4521
Lab P#: Kuchadkhar Sachin G
E-Mail: Sachin.Kuchadkhar@Eurofins.com
Center Tracking No: TX
Page: 1 of 3
Job #:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Preservation Code: (ref: EPA 816-A-01)	Matrix (Water, Sealed, Overstabil)	Field Filtered Sample (Yes or No)	Pattern MS/MSD (Yes or No)	Analysis Requested	COC No: 850-3614-1220.1
PZ-02	9/8/28/22	1030	G		Water	N	N	2320B, Alkalinity	850-3614-1220.1
PZ-03		855			Water	N	N	6020B -7470- B, Ca,Sb, As, Ba, Be, Cd, Cr Co, Pb, Li, Mo, Se, Tl;Hg	
PZ-03 (ms)		855			Water	N	N	2540C_TDS	
PZ-03 (MSD)		855			Water	N	N	300- Cl, F SO4	
AP-31		920			Water	N	N	901 1_Ra- Rad 228 Eurofins St Louis	
AP-32		1125			Water	N	N	SM7500_Ra_B Rad 228- South Bend IN	
AP-33		1220			Water	N	N		
AP-34		1415			Water	N	N		
AP-35		1320			Water	N	N		
AP-36		1355			Water	N	N		
MW-03		1010			Water	N	N		

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: *Scott Wade* Date/Time: *9-22-22 0951* Company: *HMI*

Relinquished by: _____ Date/Time: _____ Company: _____

Custody Seals Intact: Yes No Custody Seal No. _____

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

Special Instructions/QC Requirements: *CCR - Appendix III & CCR - Appendix x IV Assessment Monitoring*

Method of Shipment: *Cons Del*

Temp: *1.5* IRIDHOU-343
 C/F: +0.3
 Corrected Temp: *1.8*

2320B, Alkalinity

6020B -7470- B, Ca,Sb, As, Ba, Be, Cd, Cr Co, Pb, Li, Mo, Se, Tl;Hg

2540C_TDS

300- Cl, F SO4

901 1_Ra- Rad 228 Eurofins St Louis

SM7500_Ra_B Rad 228- South Bend IN

Preservation Codes:
 A HCL
 B NaOH
 C Zn Acetate
 D Nitrid Acid
 E NaHSO4
 F MeOH
 G Amehler
 H Ascobic Acid
 I Ice
 J DI Water
 K EDTA
 L EDA
 Other: _____

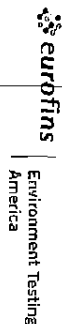
M Hexane
 N None
 O ASNAD2
 P Na2SO4
 Q Na2S03
 R Na2S2O3
 S H2SO4
 T TSP Decahydrate
 U Acetone
 V MCAA
 W pH 4.5
 Z other (specify)

860-34152 Chain of Custody

Matrix Spike Volume
 Matrix Spike Dup. Volume

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

Chain of Custody Record



Client Information		Sampler: <i>SGS Lab + HM Returns</i>	Lab PM: <i>Kudchadkar Sachin G</i>	Carrier Tracking No(s):	COC No: <i>860-3614-1220 1</i>
Client Contact: <i>Mike Schorfeld</i>		Phone: <i>832-347-4521</i>	Email: <i>Sachin.Kudchadkar@Eurofins.com</i>	State of Origin: <i>TX</i>	Page: <i>2 of 3</i>
Company: <i>GSI Environmental, Inc</i>		Due Date Requested:	Analysis Requested		
Address: <i>9600 Great Hills Trail Suite 350E</i>		TAT Requested (days):	Job #:		
City: <i>Austin</i>		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No	Preservation Codes:		
State, zip: <i>TX, 78759</i>		PO #:	A. HCL B. NaOH C. Zn Acetate D. Nitric Acid E. NaHSO4 F. MeOH G. Ammonia H. Ascorbic Acid I. Ice J. DI Water K. EDTA L. EDA Other: _____		
Phone: <i>512-346-4474(Tel) 512-346-4476(Fax)</i>		WO #:	M. Hexane N. None O. AsH2O2 P. Na2CO3 Q. Na2SO3 R. Na2S2O3 S. H2SO4 T. TSP Dodecylhydrate U. Acetone V. MCAA W. pH 4-5 Z. other (specify)		
Email: <i>mschorfeld@gsl-net.com</i>		Project #:	Special Instructions/Note:		
Project Name: <i>San Miguel Electrical Co-Op 2H22 GW (ASH Ponds) & (Eggs) 2H22 Pond</i>		SSOW#:	Total Number of containers		
Site:			Sample Identification		
Sample ID	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab) or (Tissue, Ash)	Matrix (Water, Soil, Overstool)	Field Filtered Sample (Yes or No)
<i>PZ-05</i>	<i>9/8/2012</i>	<i>1310</i>	<i>G</i>	<i>Water</i>	<input checked="" type="checkbox"/> Performing MSO (Yes or No)
<i>PZ-06</i>	<i>9/8/2012</i>	<i>1255</i>	<i>G</i>	<i>Water</i>	2320B, Alkalinity
<i>DUP-02</i>	<i>9/8/2012</i>	<i>900</i>	<i>G</i>	<i>Water</i>	6020B 7470- B, Ca, Sb, As, Ba, Be, Cd, Cr Co, Pb, Li, Mo, Se, Ti, Hg
<i>FB-02</i>	<i>9/8/2012</i>	<i>1320</i>	<i>G</i>	<i>Water</i>	2540C_TDS
<i>EB-01</i>	<i>9/8/2012</i>	<i>1320</i>	<i>G</i>	<i>Water</i>	300- Cl, F, SO4
<i>EP-31</i>	<i>9/8/2012</i>	<i>1115</i>	<i>G</i>	<i>Water</i>	9011_Ra- Rad 226 Eurofins St Louis
<i>EP-31 (MSD)</i>	<i>9/8/2012</i>	<i>1115</i>	<i>G</i>	<i>Water</i>	SM7500_Ra_B Rad 226- South Bend IN
<i>EP-32</i>	<i>9/8/2012</i>	<i>1310</i>	<i>G</i>	<i>Water</i>	
<i>EP-33</i>	<i>9/8/2012</i>	<i>1150</i>	<i>G</i>	<i>Water</i>	
<i>EP-34</i>	<i>9/8/2012</i>	<i>1050</i>	<i>G</i>	<i>Water</i>	
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):					
Empty Kit Relinquished by:		Date:	Time:		
Relinquished by: <i>MW</i>		Date/Time: <i>9-29-22 0951</i>	Company: <i>HM</i>		
Relinquished by:		Date/Time:	Company:		
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:	
				Temp: <i>1.5</i> CF: <i>+0.3</i> Corrected Temp: <i>1.8</i>	
				IR ID: <i>HOU1343</i>	
				Ver: <i>01/16/2019</i>	

4147 Greenbrier 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: **mschofield@gsi-net.com**
 Project Name: **San Miguel Electrical Co-Op 2H27 GW (Equal to the Pond)**
 Site: **SSOW#**

Sampler: Scott Wade + Kimi Jean
Phone: 832-347-4521
Lab P.M.: Kudachakar Sachin G
E-Mail: Sachin.Kudachakar@Eurofinsnet.com
Carrier Tracking No(s):
State of Origin: TX
Page: p. 3 of 3
Job #:
COC No: 860-3614-1220 1
Page: 3 of 3

Analysis Requested
 Due Date Requested:
 TAT Requested (days):
 Compliance Project: Yes No
 PO #:
 WO #:
 Project #:
 SOW#:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix (Water, Soil, Over-sat)	Preservation Code:	Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		Total Number of containers	Special Instructions/Note
						Yes	No	Yes	No		
EP-35	8/28/22	950	G	Water	N	N	N	N	N	N	
EP-36	8/28/22	850	G	Water	N	N	N	N	N	N	
EP-37	8/28/22	900	G	Water	N	N	N	N	N	N	
EP-38	8/28/22	1040	G	Water	N	N	N	N	N	N	
MW-04	8/28/22	945	G	Water	N	N	N	N	N	N	
DUP-03	8/28/22	1100	G	Water	N	N	N	N	N	N	
FB-03	8/28/22	910	G	Water	N	N	N	N	N	N	
EB-02	8/28/22	1005	G	Water	N	N	N	N	N	N	

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: *Mike* Date/Time: 9-29-22 0951 Company: HAM1
 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: Temp 1.5 IR ID: HOU-343
 C/F +0.3 Corrected Temp 1.8
 Ver: 01/16/2019

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/OC Requirements: *CCE-Appendix III 8 CCR-Appendix IV*
 Method of Shipment: *Cons. Deliv.*
 Received by: _____ Date/Time: _____
 Received by: _____ Date/Time: _____
 Received by: _____ Date/Time: _____
 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		Phone:	Kudchadkar, Sachin G	860-17358.1	860-17358.1
Shipping/Receiving		Company	E-Mail	State of Origin	Page
TestAmerica Laboratories, Inc.		TestAmerica Laboratories, Inc.	Sachin.Kudchadkar@et.eurofins.com	Texas	Page 1 of 4
Address		Accreditations Required (See note)		Job #	860-34152-1
13715 Rider Trail North,		NELAP - Texas		Preservation Codes:	
City	Earth City	Due Date Requested:	Analysis Requested		
State/Zip	MO, 63045	10/27/2022	M - Hexane		
Phone	314-298-8566(Tel) 314-298-8757(Fax)	TAT Requested (days):	N - None		
Email			B - NaOH		
Project Name:	San Miguel Electrical Co-Op 2H22 GW	PO #	C - Zn Acetate		
Site		WO #	D - Nitric Acid		
		Project #	E - NaHSO4		
		86001746	F - MeOH		
		SSOW#	G - Amchlor		
			H - Ascorbic Acid		
			I - Ice		
			J - DI Water		
			K - EDTA		
			L - EDA		
			Other:		
			Total Number of containers		
			Special Instructions/Note:		
Sample Identification - Client ID (Lab ID)					
PZ-02 (860-34152-1)	9/28/22	10:30 Central	Water	Field Filtered Sample (Yes or No)	1
PZ-03 (860-34152-2)	9/28/22	08:55 Central	Water	Perform MS/MSD (Yes or No)	1
PZ-03 (860-34152-2MS)	9/28/22	08:55 Central	MS	904.0/PreSep_0 Standard Target List	1
PZ-03 (860-34152-2MSD)	9/28/22	08:55 Central	MSD		1
AP-31 (860-34152-3)	9/28/22	09:20 Central	Water		1
AP-32 (860-34152-4)	9/28/22	11:25 Central	Water		1
AP-33 (860-34152-5)	9/28/22	12:20 Central	Water		1
AP-34 (860-34152-6)	9/28/22	14:15 Central	Water		1
AP-35 (860-34152-7)	9/28/22	13:20 Central	Water		1
<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/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)					
Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For <input type="checkbox"/> Months					
Special Instructions/QC Requirements:					
Empty Kit Relinquished by: _____ Date: _____					
Relinquished by: <i>Sasside</i> Date: 9/30/22					
Relinquished by: FED EX Date/Time: _____ Company: _____					
Relinquished by: FED EX Date/Time: _____ Company: <i>o880eyosa</i>					
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	Camera Tracking No(s)	COC No:							
Client Contact		Kudchadkar, Sachin G	Kudchadkar, Sachin G		860-17358.3							
Shipping/Receiving		E-Mail	Sachin.Kudchadkar@et.eurofins.com	State of Origin:	Page							
Company		Accreditations Required (See note)	NELAP - Texas	Texas	Page 3 of 4							
TestAmerica Laboratories, Inc.		Address:	13715 Rider Trail North,	Job #	860-34152-1							
City:		Due Date Requested:	Earth City	Preservation Codes:								
State, Zip:		10/27/2022	MO, 63045	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:		TAT Requested (days):	314-298-8566(Tel) 314-298-8757(Fax)	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)								
Email:		PO #										
Project #		WO #										
San Miguel Electrical Co-Op 2H22 GW		Project #	86001746									
Site:		SSON#										
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Solid, or Material)	Preservation Code:	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	904.0/PreSep_0 Standard Target List	Analysis Requested	Total Number of Containers	Special Instructions/Note:
EP-31 (860-34152-15MSD)	9/28/22	11:15 Central	MSD	Water	X	X	1					
EP-32 (860-34152-16)	9/28/22	13:10 Central	Water	Water	X	X	1					
EP-33 (860-34152-17)	9/28/22	11:50 Central	Water	Water	X	X	1					
EP-34 (860-34152-18)	9/28/22	10:50 Central	Water	Water	X	X	1					
EP-35 (860-34152-19)	9/28/22	09:50 Central	Water	Water	X	X	1					
EP-36 (860-34152-20)	9/28/22	08:50 Central	Water	Water	X	X	1					
EP-37 (860-34152-21)	9/28/22	09:00 Central	Water	Water	X	X	1					
EP-38 (860-34152-22)	9/28/22	10:40 Central	Water	Water	X	X	1					
MW-04 (860-34152-23)	9/28/22	09:45 Central	Water	Water	X	X	1					
<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)												
Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months												
Special Instructions/QC Requirements:												
Empty Kit Relinquished by:												
Relinquished by: FED EX Date/Time: 9/30/22												
Relinquished by: FED EX Date/Time: 09/30/22												
Relinquished by: FED EX Date/Time: 09/30/22												
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Custody Seal No.:												
Cooler Temperature(s) °C and Other Remarks:												



Chain of Custody Record

Client Information (Sub Contract Lab)		Lab PM: Kudchadkar, Sachin G		Carrier Tracking No(s):		COC No: 860-17354.2								
Shipping/Receiving		E-Mail: Sachin.Kudchadkar@et.eurofinsus.com		State of Origin: Texas		Page 2 of 4								
Company: Eurofins Environment Testing Southeast,		Accreditations Required (See note): NELAP - Texas		Job #:		860-34152-1								
Address: 3355 McLemore Drive,		Due Date Requested: 10/24/2022		Analysis Requested		Preservation Codes: 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 Y - Trizma Z - other (specify) Other:								
City: Pensacola		TAT Requested (days):												
State, Zip: FL, 32514		PO #:												
Phone: 850-474-1001(Tel) 850-478-2671(Fax)		WO #:												
Email:		Project #:		Perform MS/MSD (Yes or No)		Field Filtered Sample (Yes or No)								
Project Name: San Miguel Electrical Co-Op 2H22 GW		86001746		7470A/470A Prep		Total Number of Containers								
Site:		SSOW#:		6020B/3005A (MOD) Custom List		Special Instructions/Note:								
Sample Identification - Client ID (Lab ID)				Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=water, A=Air)	Preservation Code:	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020B/3005A (MOD) Custom List	7470A/470A Prep	Total Number of Containers	Special Instructions/Note:
AP-36 (860-34152-8)				9/28/22	13:55 Central	Water	Water		X	X			1	
MW-03 (860-34152-9)				9/28/22	10:10 Central	Water	Water		X	X			1	
PZ-05 (860-34152-10)				9/28/22	13:10 Central	Water	Water		X	X			1	
PZ-06 (860-34152-11)				9/28/22	12:55 Central	Water	Water		X	X			1	
DUP-02 (860-34152-12)				9/28/22	09:00 Central	Water	Water		X	X			1	
FB-02 (860-34152-13)				9/28/22	13:20 Central	Water	Water		X	X			1	
EB-01 (860-34152-14)				9/28/22	13:20 Central	Water	Water		X	X			1	
EP-31 (860-34152-15)				9/28/22	11:15 Central	Water	Water		X	X			1	
EP-31 (860-34152-15MS)				9/28/22	11:15 Central	MS	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 out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/res/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: _____ Time: _____ Relinquished by: _____ Date/Time: _____ Company: _____ Relinquished by: _____ Date/Time: _____ Company: _____ Relinquished by: _____ Date/Time: _____ Company: _____														
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:														
Method of Shipment: _____ Received by: _____ Date/Time: _____ Company: _____ Received by: _____ Date/Time: _____ Company: _____ Received by: _____ Date/Time: _____ Company: _____														
Cooler Temperature(s) °C and Other Remarks: _____ Custody Seal No.: _____														

Chain of Custody Record

Client Information (Sub Contract Lab)		Lab P.M.: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-17354-3			
Client Contact: Shipping/Receiving		E-Mail: Sachin.Kudchadkar@et.eurofins.com	State of Origin: Texas	Page: Page 3 of 4			
Company: Eurofins Environment Testing Southeast,		Accreditations Required (See note): NELAP - Texas	Job #:	860-34152-1			
Address: 3355 McLemore Drive,		Due Date Requested: 10/24/2022	Analysis Requested				
City: Pensacola		TAT Requested (days):	Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/>				
State, Zip: FL, 32514		PO #:	Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/>				
Phone: 850-474-1001 (Tel) 850-478-2671 (Fax)		WO #:	6020B/3005A (MOD) Custom List <input checked="" type="checkbox"/>				
Email:		Project #:	7470A/7470A Prep <input checked="" type="checkbox"/>				
Project Name: San Miguel Electrical Co-Op 2H22 GW		SSOW#:	Total Number of Containers				
Site:							
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=Water, S=Solid, O=Swastail, B=Residue, Air)	Preservation Code:	Special Instructions/Note:
EP-31 (860-34152-15MSD)	9/28/22	11:15 Central	MSD	Water			
EP-32 (860-34152-16)	9/28/22	13:10 Central		Water			
EP-33 (860-34152-17)	9/28/22	11:50 Central		Water			
EP-34 (860-34152-18)	9/28/22	10:50 Central		Water			
EP-35 (860-34152-19)	9/28/22	09:50 Central		Water			
EP-36 (860-34152-20)	9/28/22	08:50 Central		Water			
EP-37 (860-34152-21)	9/28/22	09:00 Central		Water			
EP-38 (860-34152-22)	9/28/22	10:40 Central		Water			
MMW-04 (860-34152-23)	9/28/22	09:45 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 out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/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: _____ Time: _____ Method of Shipment: _____							
Relinquished by: <i>Lurinda</i> Date: 9/30/22 Company: _____ Received by: _____ Date/Time: _____ Company: _____							
Relinquished by: _____ Date/Time: _____ Company: _____ Received by: _____ Date/Time: _____ Company: _____							
Relinquished by: _____ Date/Time: _____ Company: _____ Received by: <i>SM</i> Date/Time: 10/12/22 0800 Company: _____							
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Cooler Temperature(s) °C and Other Remarks: <i>20 C/100g</i>							





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

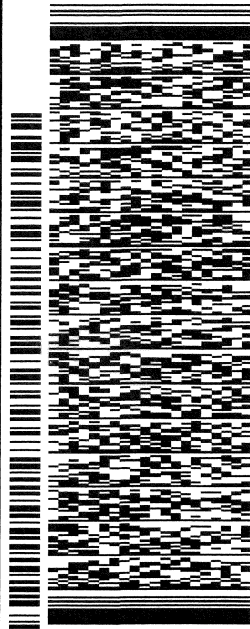
SHIP DATE: 30SEP22
ACTWGT: 10.00 LB
CAD: 110189707/NET4530

BILL SENDER
STAFFORD, TX 77477
UNITED STATES US

TO BENJAMIN WHATLEY
EUROFINS PENSACOLA
3355 MCLEMORE DRIVE

PENSACOLA FL 32514
(850) 474-1001 REF.
INV PO.

DEPT.



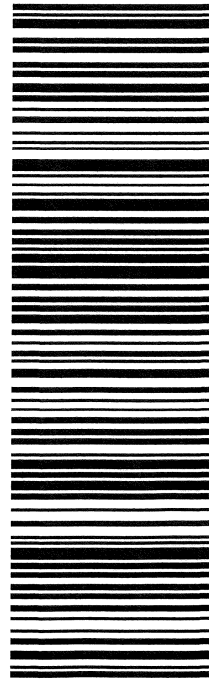
J223022081201ur

SATURDAY 12:00P
PRIORITY OVERNIGHT

TRK# 7700 8696 0413
0201

2-9-2022
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FL-US BFM

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Login Sample Receipt Checklist

Client: GSI Environmental, Inc

Job Number: 860-34152-1

Login Number: 34152

List Number: 1

Creator: Milone, Jeancarlo

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: 860-34152-1

Login Number: 34152
List Number: 3
Creator: DeKlerk, Michaela

List Source: Eurofins Pensacola
List Creation: 10/01/22 10:37 AM

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.	N/A	
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	2.8°C IR8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: GSI Environmental, Inc

Job Number: 860-34152-1

Login Number: 34152

List Number: 4

Creator: Booker, Autumn R

List Source: Eurofins St. Louis

List Creation: 10/03/22 01:04 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	



Attachment C

Table 2

Qualifiers Added During Data Usability Review

Table 2
Qualifiers Added During Data Usability Review

Sample ID	Analyte	Lab Result	Units	Lab Qualifier	Batch Number	DUS Qualifier	Reason for Qualifier
PZ-02	Nitrate as N	0.554	mg/L	H	860-72179	JL	Analyzed outside of holding time
PZ-02	Nitrite as N	0.0293	mg/L	U H	860-72179	UJL	Analyzed outside of holding time
PZ-05	Nitrate as N	0.581	mg/L	H	860-72175	JL	Analyzed outside of holding time
PZ-05	Nitrite as N	0.0293	mg/L	U H	860-72175	UJL	Analyzed outside of holding time
PZ-05	Mercury	1.54	ug/L		400-596411	U	<5X FB Concentration
PZ-06	Nitrate as N	0.541	mg/L	H	860-72175	JL	Analyzed outside of holding time
PZ-06	Nitrite as N	0.0293	mg/L	U H	860-72175	UJL	Analyzed outside of holding time
PZ-06	Mercury	1.22	ug/L		400-596411	U	<5X EB Concentration
DUP-02	Chloride	1800	mg/L		860-72174	J	FB RPD outside specifications and analyte conc. >5X MQL
DUP-02	Nitrate as N	1.99	mg/L	H	860-72175	JL	Analyzed outside of holding time
DUP-02	Nitrite as N	0.0293	mg/L	U H	860-72175	UJL	Analyzed outside of holding time
DUP-02	Sulfate	4100	mg/L		860-72174	J	FB RPD outside specifications and analyte conc. >5X MQL
FB-02	Nitrate as N	0.107	mg/L	H	860-72179	JL	Analyzed outside of holding time
FB-02	Nitrite as N	0.0293	mg/L	U H	860-72179	UJL	Analyzed outside of holding time
FB-02	Sulfate	0.702	mg/L	B	860-72355	U	<5X MB concentration
EB-01	Nitrate as N	0.0973	mg/L	J H	860-72179	JL	Analyzed outside of holding time
EB-01	Nitrite as N	0.0293	mg/L	U H	860-72179	UJL	Analyzed outside of holding time
EB-01	Sulfate	0.417	mg/L	J B	860-72355	U	<5X MB concentration
EP-31	Nitrate as N	0.983	mg/L	J H	860-72356	JL	Analyzed outside of holding time
EP-31	Nitrite as N	0.293	mg/L	U H	860-72356	UJL	Analyzed outside of holding time
EP-31	Nitrate as N	98.52	mg/L	H	860-72356	JL	Analyzed outside of holding time
EP-31	Nitrite as N	25.3	mg/L	H	860-72356	JL	Analyzed outside of holding time
EP-31	Nitrate as N	98.51	mg/L	H	860-72356	JL	Analyzed outside of holding time
EP-31	Nitrite as N	25.37	mg/L	H	860-72356	JL	Analyzed outside of holding time
EP-32	Nitrate as N	0.601	mg/L	H	860-72175	JL	Analyzed outside of holding time
EP-32	Nitrite as N	0.0293	mg/L	U H	860-72175	UJL	Analyzed outside of holding time
EP-33	Nitrate as N	0.568	mg/L	H	860-72175	JL	Analyzed outside of holding time
EP-33	Nitrite as N	0.0293	mg/L	U H	860-72175	UJL	Analyzed outside of holding time
EP-33	Barium	0.07	mg/L	U	400-599995	UJ	FB RPD outside specifications and analyte conc. >5X MQL
EP-33	Chromium	0.1	mg/L	U	400-600516	UJ	FB RPD outside specifications and analyte conc. >5X MQL
EP-33	Molybdenum	0.13	mg/L	U	400-599995	UJ	FB RPD outside specifications and analyte conc. >5X MQL
EP-33	Lithium	0.542	mg/L		400-599995	J	FD RPD outside specifications and analyte conc. >5X MQL
EP-34	Nitrate as N	0.59	mg/L	H	860-72175	JL	Analyzed outside of holding time
EP-34	Nitrite as N	0.0293	mg/L	U H	860-72175	UJL	Analyzed outside of holding time
EP-35	Nitrate as N	0.586	mg/L	H	860-72175	JL	Analyzed outside of holding time
EP-35	Nitrite as N	0.0293	mg/L	U H	860-72175	UJL	Analyzed outside of holding time
PZ-03	Nitrate as N	14.7	mg/L	H	860-73379	JL	Analyzed outside of holding time and MS/MSD %R below 30%
PZ-03	Nitrite as N	0.0293	mg/L	U H F1	860-73379	R	MS/MSD %R below 30%
PZ-03	Nitrate as N	24.21	mg/L	H	860-73379	JL	Analyzed outside of holding time and MS/MSD %R below 30%
PZ-03	Fluoride	1127	mg/L	H	860-75912	JL	Analyzed outside of holding time
PZ-03	Nitrite as N	0.0293	mg/L	U H F1	860-73379	UJL	Analyzed outside of holding time
PZ-03	Nitrate as N	25.15	mg/L	H	860-73379	JL	Analyzed outside of holding time and MS/MSD %R below 30%
PZ-03	Nitrite as N	0.0293	mg/L	U H F1	860-73379	UJL	Analyzed outside of holding time
PZ-03	Fluoride	1131	mg/L	H	860-75912	JL	Analyzed outside of holding time
EP-36	Nitrate as N	0.803	mg/L	J H	860-72175	JL	Analyzed outside of holding time
EP-36	Nitrite as N	0.293	mg/L	U H	860-72175	UJL	Analyzed outside of holding time
EP-36	Mercury	0.749	ug/L		400-596618	U	<5x EB concentration
EP-37	Nitrate as N	0.577	mg/L	H	860-72175	JL	Analyzed outside of holding time
EP-37	Nitrite as N	0.0293	mg/L	U H	860-72175	UJL	Analyzed outside of holding time
EP-37	Antimony	0.0075	mg/L	U ^1+	400-598650	UJ	ICV outside specifications
EP-38	Nitrate as N	0.73	mg/L	H	860-72179	JL	Analyzed outside of holding time
EP-38	Nitrite as N	0.0293	mg/L	U H	860-72179	UJL	Analyzed outside of holding time
MW-04	Nitrate as N	0.677	mg/L	H	860-72179	JL	Analyzed outside of holding time
MW-04	Nitrite as N	0.0293	mg/L	U H	860-72179	UJL	Analyzed outside of holding time
MW-04	Antimony	0.0075	mg/L	U ^1+	400-598650	UJ	ICV outside specifications
MW-04	Barium	0.0148	mg/L		400-598650	U	<5X EB concentration
MW-04	Mercury	1.11	ug/L		400-596618	U	<5X EB Concentration
DUP-03	Nitrate as N	0.719	mg/L	H	860-72179	JL	Analyzed outside of holding time
DUP-03	Nitrite as N	0.0293	mg/L	U H	860-72179	UJL	Analyzed outside of holding time
DUP-03	Antimony	0.0075	mg/L	U ^1+	400-598650	UJ	ICV outside specifications
DUP-03	Barium	0.0182	mg/L		400-598650	J	FB RPD outside specifications and analyte conc. >5X MQL
DUP-03	Chromium	0.00765	mg/L	J B	400-598650	J	FB RPD outside specifications and analyte conc. >5X MQL
DUP-03	Molybdenum	0.0112	mg/L	J	400-598650	J	FB RPD outside specifications and analyte conc. >5X MQL
DUP-03	Lithium	0.791	mg/L		400-598650	J	FD RPD outside specifications and analyte conc. >5X MQL
FB-03	Nitrate as N	0.0952	mg/L	J H	860-72179	JL	Analyzed outside of holding time
FB-03	Nitrite as N	0.0293	mg/L	U H	860-72179	UJL	Analyzed outside of holding time
FB-03	Sulfate	0.393	mg/L	J	860-72355	U	<5X MB concentration
FB-03	Antimony	0.0075	mg/L	U ^1+	400-598650	UJ	ICV outside specifications
EB-02	Nitrate as N	0.115	mg/L	H	860-72179	JL	Analyzed outside of holding time
EB-02	Nitrite as N	0.03	mg/L	J H	860-72179	JL	Analyzed outside of holding time
EB-02	Sulfate	0.792	mg/L		860-72355	U	<5X MB concentration
AP-31	Nitrate as N	1.71	mg/L	H	860-72179	JL	Analyzed outside of holding time

Table 2
Qualifiers Added During Data Usability Review

Sample ID	Analyte	Lab Result	Units	Lab Qualifier	Batch Number	DUS Qualifier	Reason for Qualifier
AP-31	Nitrite as N	0.0293	mg/L	U H	860-72179	UJL	Analyzed outside of holding time
AP-32	Nitrate as N	6.78	mg/L	H	860-72179	JL	Analyzed outside of holding time
AP-32	Nitrite as N	0.0293	mg/L	U H	860-72179	UJL	Analyzed outside of holding time
AP-33	Nitrate as N	1.03	mg/L	H	860-72356	JL	Analyzed outside of holding time
AP-33	Nitrite as N	0.293	mg/L	U H	860-72356	UJL	Analyzed outside of holding time
AP-34	Nitrate as N	2.54	mg/L	H	860-72179	JL	Analyzed outside of holding time
AP-34	Nitrite as N	0.0293	mg/L	U H	860-72179	UJL	Analyzed outside of holding time
AP-35	Nitrate as N	2.04	mg/L	H	860-72179	JL	Analyzed outside of holding time
AP-35	Nitrite as N	0.0293	mg/L	U H	860-72179	UJL	Analyzed outside of holding time
AP-36	Nitrate as N	0.918	mg/L	J H	860-72175	JL	Analyzed outside of holding time
AP-36	Nitrite as N	0.293	mg/L	U H	860-72175	UJL	Analyzed outside of holding time
MW-03	Chloride	1170	mg/L		860-72174	J	FB RPD outside specifications and analyte conc. >5X MQL
MW-03	Nitrate as N	2.01	mg/L	H	860-72175	JL	Analyzed outside of holding time
MW-03	Nitrite as N	0.0293	mg/L	U H	860-72175	UJL	Analyzed outside of holding time
MW-03	Sulfate	2690	mg/L		860-72174	J	FB RPD outside specifications and analyte conc. >5X MQL
	Antimony	0.057	mg/L	^1+	400-598650	J	ICV outside specifications
	Antimony	0.0015	mg/L	U ^1+	400-598650	UJ	ICV outside specifications

Notes:

1. mg/L: milligrams per liter
2. H: Analytical holding time exceeded
3. U: Not detected
4. B: The compound was found in the blank and sample
5. J: Estimated value
6. F1: Matrix Spike (MS) and/or Matrix Spike Duplicate (MSD) recovery exceeds control limits
7. ^1+: Initial Calibration Verification (ICV) outside acceptance limits, biased high
8. JL: Estimated value, biased low
9. UJL: Not detected, biased low
10. R: Sample is rejected
11. <5X: Less than five times
12. >5X: Greater than five times
13. FB: Field Blank
14. EB: Equipment Blank
15. MB: Method Blank
16. MQL: Method Quantitation Limit

DATA USABILITY SUMMARY

September 2022 Sampling Event (Job ID: 860-34152-2)

OVERVIEW

GSI Environmental Inc. (GSI) reviewed one data package from Eurofins Environment Testing – Houston located in Stafford, Texas (EET HOU) for the analysis of **twenty-six groundwater and blank samples collected from the Ash Ponds and Equalization Pond on 28 September 2022** at the San Miguel Electric Cooperative, Inc., Christine, Atascosa County, Texas site. EET HOU sent the samples to Eurofins Eaton located in South Bend, Indiana (EA SB) for Radium-226 analysis. 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 and EA SB were National Environmental Laboratory Accreditation Program (NELAP)-accredited under the Texas Laboratory Accreditation Program (Certification Number: T104704215-22-47 and T104704187-22-16, respectively) for the matrices, analytes, and methods of analysis requested on the chain-of-custody documentation, with the following exceptions. A copy of EET HOU's NELAP certificate applicable to the period during which the laboratory generated the data in this report is included in Attachment A.

Intended Use of Data

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

- Standard Method (SM) 7500 RaB – Radium-226

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

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

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

INTRODUCTION

Twenty-six (26) 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 sample detection limit (SDL). Results between the SDL and sample quantitation limit (SQL) 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 C-O-C. The samples were received by the laboratory in the appropriate containers and in good condition. The receipt temperature of the samples was below the acceptance criteria of 2°C - 6°C, at a concentration of 1.8°C. Samples were prepared and analyzed within method-specified holding times, and field preservation was done as specified in the Sampling and Analysis Plan [SAP] (GSI,2019). Items related to the C-O-C, including preservation, holding times and sample dilution, are listed below.

- The sample identified as DUP-02 is a field duplicate of MW-03.
- The sample identified as DUP-03 is a field duplicate of EP-33.
- The sample identified as EB-01 is an equipment blank collected at PZ-06.
- The sample identified as EB-02 is an equipment blank collected at MW-04.
- The sample identified as FB-02 is a field blank collected near PZ-05.
- The sample identified as FB-03 is a field blank collected near EP-36.

Finding: No qualifiers were added per this evaluation.

Radium Results

No issues, other than those with Laboratory Control Sample (LCS)/Laboratory Control Sample Duplicate (LCSD) and/or Matrix Spike (MS) Matrix Spike Duplicate (MSD) analysis discussed below, were noted in the LCN or during review of the laboratory data package.

Finding: No qualifiers were added per this evaluation.

Calibrations

No issues with calibration were identified in the LCN or during review of the laboratory data package.

Finding: No qualifiers were added per this evaluation.

Blanks

Method Blanks

- No issues with method blanks were noted in the LCN or during review of the laboratory data package.

Field Blanks

- Two field blanks, FB-02 and FB-03, were collected during sampling activities at the same locations as PZ-05 and EP-36, respectively; and analyzed for the same parameters as “normal” sample. No issues with field blanks were noted in the LCN or during review of the laboratory data package.

Equipment Blanks

- Two equipment blanks, EB-01 and EB-02, were collected during sampling activities at the same location as PZ-06 and MW-04, respectively; and analyzed for the same parameters as “normal” sample. No issues with field blanks were noted in the LCN or during review of the laboratory data package.

Finding: No qualifiers were added per this evaluation.

Internal Standard and Surrogate Recoveries (VOCs and SVOCs Only)

Not applicable.

Laboratory Control Samples

The LCN noted the following issues with Laboratory Control Sample (LCS)/Laboratory Control Sample Duplicate (LCSD) recoveries or Relative Percent Differences (RPDs).

- The LCS Percent Recovery (%R) was below specifications and greater than thirty percent (>30%) for Radium-226 in preparation batch 810-36141. This affects samples PZ-02, EP-32, PZ-03, AP-31 and AP-36. Affected samples were qualified by the laboratory with an asterisk.

Finding: “JL” qualifiers were added to detected results and “UJL” qualifiers were added to non-detected results of Radium-226 in samples PZ-02, EP-32, PZ-03, AP-31 and AP-36 because the LCS %R was below specifications and >30%.

Matrix Spike/Matrix Spike Duplicates and Laboratory Duplicates

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

- The MS and MSD recoveries and RPD for preparation batch 810-35775 and analytical batch 810-39803 were outside control limits for Radium-226. Sample matrix interference and/or non-homogeneity are suspected because the associated LCS recovery was within acceptance limits. In addition, the spiking amount was greater than 4X the result in the un-spiked parent sample and the %R for the MSD was greater than control limits and the MS was lower than control limits and below 30%. These results were confirmed by the laboratory. The laboratory qualified affected results with “F1”.

Findings: “JL” qualifiers were added to detected results of Radium-226 in sample EP-31 because the MS %R was below 30%.

Field Duplicates (Field Precision)

Two field duplicates identified as DUP-02 and DUP-03 were collected with samples MW-03 and EP-33, respectively. Field precision was calculated and the RPD was within the project-defined QC acceptance criteria. A comparison of the field samples and the duplicate samples 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. A limited number of qualifiers were added to affected samples (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/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
09/28/2022	EET HOU	860-34152-1	PZ-02	Water
09/28/2022	EET HOU	860-34152-2	PZ-03	Water
09/28/2022	EET HOU	860-34152-3	AP-31	Water
09/28/2022	EET HOU	860-34152-4	AP-32	Water
09/28/2022	EET HOU	860-34152-5	AP-33	Water
09/28/2022	EET HOU	860-34152-6	AP-34	Water
09/28/2022	EET HOU	860-34152-7	AP-35	Water
09/28/2022	EET HOU	860-34152-8	AP-36	Water
09/28/2022	EET HOU	860-34152-9	MW-03	Water
09/28/2022	EET HOU	860-34152-10	PZ-05	Water
09/28/2022	EET HOU	860-34152-11	PZ-06	Water
09/28/2022	EET HOU	860-34152-12	DUP-02	Water
09/28/2022	EET HOU	860-34152-13	FB-02	Water
09/28/2022	EET HOU	860-34152-14	EB-01	Water
09/28/2022	EET HOU	860-34152-15	EP-31	Water
09/28/2022	EET HOU	860-34152-16	EP-32	Water
09/28/2022	EET HOU	860-34152-17	EP-33	Water
09/28/2022	EET HOU	860-34152-18	EP-34	Water
09/28/2022	EET HOU	860-34152-19	EP-35	Water
09/28/2022	EET HOU	860-34152-20	EP-36	Water
09/28/2022	EET HOU	860-34152-21	EP-37	Water
09/28/2022	EET HOU	860-34152-22	EP-38	Water
09/28/2022	EET HOU	860-34152-23	MW-04	Water
09/28/2022	EET HOU	860-34152-24	DUP-03	Water
09/28/2022	EET HOU	860-34152-25	FB-03	Water
09/28/2022	EET HOU	860-34152-26	EB-02	Water

Notes:
 EET HOU: Eurofins Houston

TABLE 2
Qualifiers Added During Data Usability Review

Sample ID	Analyte	Lab Result	Unit	DUS Qualifier or Bias Code	Reason for Qualification	Batch Number	Report Number
PZ-02	Radium-226	0.56 *	pCi/L	JL	LCS %R below specifications and >30%	810-36990	860-34152-2
EP-31	Radium-226	0.69	pCi/L	JL	MS %R below 30%	810-39803	860-34152-2
EP-32	Radium-226	0.12 U*	pCi/L	UJL	LCS %R below specifications and >30%	810-36990	860-34152-2
PZ-03	Radium-226	0.77 *	pCi/L	JL	LCS %R below specifications and >30%	810-38053	860-34152-2
AP-31	Radium-226	0.34 *	pCi/L	JL	LCS %R below specifications and >30%	810-38054	860-34152-2
AP-36	Radium-226	0.5 U *	pCi/L	UJL	LCS %R below specifications and >30%	810-38054	860-34152-2

Notes:

1. pCi/L: Picocuries per liter.
2. *: LCS or LCSD is outside acceptance limits
3. JL: Estimated value, biased low
4. UJL: The non-detected value is estimated, biased low
5. LCS/LCSD: Laboratory Control Sample/Laboratory Control Sample Duplicated
6. MS: Matrix Spike
7. >30%: Greater than thirty percent

TABLE 3
Field Duplicate Detections

Analyte	MDC (pCi/L)	Primary Sample Result (pCi/L)	Field Duplicate Result (pCi/L)	Relative Percent Difference	Notes
MW-03 and DUP-02					
Radium-226	0.31	0.62	0.83	28.97 %	A
EP-33 and DUP-03					
Radium-226	0.23	0.45	0.40	11.77 %	A

Notes:

1. MDC: Minimum Detectable Concentration
2. pCi/L: Picocuries per liter
3. RPD = (PR-FD)/AVERAGE(PR+FD)*100, where PR is the Primary Sample and FD is the Field Duplicate
4. A = Acceptable RPD.

Attachment A

Eurofins Houston

TCEQ NELAP-Recognized Laboratory Accreditation Certificate



Texas Commission on Environmental Quality

NELAP-Recognized Laboratory Accreditation is hereby awarded to



DHL Analytical, Inc.
2300 Double Creek Drive
Round Rock, TX 78664-3801

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: T104704211-22-28
Effective Date: 5/1/2022
Expiration Date: 4/30/2023

**Executive Director Texas Commission on
Environmental Quality**

Attachment B

Eurofins Houston

Analytical Report

Job ID.: 860-34152-2



ANALYTICAL REPORT

PREPARED FOR

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

Generated 12/9/2022 11:58:46 AM

JOB DESCRIPTION

San Miguel Electrical Co-Op 2H22 GW

JOB NUMBER

860-34152-2

Eurofins Houston

Job Notes

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
12/9/2022 11:58:46 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 2H22 GW

Job ID: 860-34152-2

Qualifiers

Rad

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
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)
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 2H22 GW

Job ID: 860-34152-2

Job ID: 860-34152-2

Laboratory: Eurofins Houston

Narrative

**Job Narrative
860-34152-2**

Receipt

The samples were received on 9/29/2022 9:51 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.8°C

Rad

Method SM7500_Ra_B: LCS recovery is 89.7 rounds to 90%. The recovery limits are 90-110. No further action is required.

Method SM7500_Ra_B: MSD relative percent difference was greater than control limits at 189.9 for MSD and the relative percent difference was lower than control limits at 21.4 for MS, which was confirmed by re-analysis. Control limits were 80-130. MS and MSD sample results have questionable precision due to matrix effects. RPD failed at 159.4 with control limits of <20.0. 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: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-2

Client Sample ID: PZ-02	Lab Sample ID: 860-34152-1
<input type="checkbox"/> No Detections.	
Client Sample ID: PZ-03	Lab Sample ID: 860-34152-2
<input type="checkbox"/> No Detections.	
Client Sample ID: AP-31	Lab Sample ID: 860-34152-3
<input type="checkbox"/> No Detections.	
Client Sample ID: AP-32	Lab Sample ID: 860-34152-4
<input type="checkbox"/> No Detections.	
Client Sample ID: AP-33	Lab Sample ID: 860-34152-5
<input type="checkbox"/> No Detections.	
Client Sample ID: AP-34	Lab Sample ID: 860-34152-6
<input type="checkbox"/> No Detections.	
Client Sample ID: AP-35	Lab Sample ID: 860-34152-7
<input type="checkbox"/> No Detections.	
Client Sample ID: AP-36	Lab Sample ID: 860-34152-8
<input type="checkbox"/> No Detections.	
Client Sample ID: MW-03	Lab Sample ID: 860-34152-9
<input type="checkbox"/> No Detections.	
Client Sample ID: PZ-05	Lab Sample ID: 860-34152-10
<input type="checkbox"/> No Detections.	
Client Sample ID: PZ-06	Lab Sample ID: 860-34152-11
<input type="checkbox"/> No Detections.	
Client Sample ID: DUP-02	Lab Sample ID: 860-34152-12
<input type="checkbox"/> No Detections.	
Client Sample ID: FB-02	Lab Sample ID: 860-34152-13
<input type="checkbox"/> No Detections.	
Client Sample ID: EB-01	Lab Sample ID: 860-34152-14
<input type="checkbox"/> No Detections.	
Client Sample ID: EP-31	Lab Sample ID: 860-34152-15
<input type="checkbox"/> No Detections.	
Client Sample ID: EP-32	Lab Sample ID: 860-34152-16
<input type="checkbox"/> No Detections.	

This Detection Summary does not include radiochemical test results.

Eurofins Houston

Detection Summary

Client: GSI Environmental, Inc
Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-2

Client Sample ID: EP-33 **Lab Sample ID: 860-34152-17**

No Detections.

Client Sample ID: EP-34 **Lab Sample ID: 860-34152-18**

No Detections.

Client Sample ID: EP-35 **Lab Sample ID: 860-34152-19**

No Detections.

Client Sample ID: EP-36 **Lab Sample ID: 860-34152-20**

No Detections.

Client Sample ID: EP-37 **Lab Sample ID: 860-34152-21**

No Detections.

Client Sample ID: EP-38 **Lab Sample ID: 860-34152-22**

No Detections.

Client Sample ID: MW-04 **Lab Sample ID: 860-34152-23**

No Detections.

Client Sample ID: DUP-03 **Lab Sample ID: 860-34152-24**

No Detections.

Client Sample ID: FB-03 **Lab Sample ID: 860-34152-25**

No Detections.

Client Sample ID: EB-02 **Lab Sample ID: 860-34152-26**

No Detections.

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 2H22 GW

Job ID: 860-34152-2

Client Sample ID: PZ-02
 Date Collected: 09/28/22 10:30
 Date Received: 09/29/22 09:51

Lab Sample ID: 860-34152-1
 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	0.560	*	0.410		1.00	0.350	pCi/L	10/21/22 14:57	10/28/22 11:10	1

Client Sample ID: PZ-03
 Date Collected: 09/28/22 08:55
 Date Received: 09/29/22 09:51

Lab Sample ID: 860-34152-2
 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	0.770	*	0.230		1.00	0.100	pCi/L	10/21/22 14:57	11/08/22 09:54	1

Client Sample ID: AP-31
 Date Collected: 09/28/22 09:20
 Date Received: 09/29/22 09:51

Lab Sample ID: 860-34152-3
 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	0.340	*	0.550		1.00	0.330	pCi/L	10/21/22 14:57	11/08/22 09:54	1

Client Sample ID: AP-32
 Date Collected: 09/28/22 11:25
 Date Received: 09/29/22 09:51

Lab Sample ID: 860-34152-4
 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	1.91		0.810		1.00	0.410	pCi/L	10/19/22 09:06	11/28/22 10:58	1

Client Sample ID: AP-33
 Date Collected: 09/28/22 12:20
 Date Received: 09/29/22 09:51

Lab Sample ID: 860-34152-5
 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	1.21		0.460		1.00	0.180	pCi/L	10/19/22 10:11	11/28/22 11:48	1

Client Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-2

Client Sample ID: AP-34
 Date Collected: 09/28/22 14:15
 Date Received: 09/29/22 09:51

Lab Sample ID: 860-34152-6
 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	1.18		0.660		1.00	0.350	pCi/L	10/19/22 10:11	11/28/22 11:48	1

Client Sample ID: AP-35
 Date Collected: 09/28/22 13:20
 Date Received: 09/29/22 09:51

Lab Sample ID: 860-34152-7
 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	5.58		1.11		1.00	0.280	pCi/L	10/19/22 10:11	11/28/22 11:48	1

Client Sample ID: AP-36
 Date Collected: 09/28/22 13:55
 Date Received: 09/29/22 09:51

Lab Sample ID: 860-34152-8
 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	0.500	U *	0.810		1.00	0.510	pCi/L	10/21/22 14:57	11/08/22 09:54	1

Client Sample ID: MW-03
 Date Collected: 09/28/22 10:10
 Date Received: 09/29/22 09:51

Lab Sample ID: 860-34152-9
 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	0.620		0.380		1.00	0.310	pCi/L	10/19/22 10:11	11/01/22 12:28	1

Client Sample ID: PZ-05
 Date Collected: 09/28/22 13:10
 Date Received: 09/29/22 09:51

Lab Sample ID: 860-34152-10
 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	0.480		0.240		1.00	0.170	pCi/L	10/19/22 10:11	11/01/22 12:28	1

Client Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-2

Client Sample ID: PZ-06

Lab Sample ID: 860-34152-11

Date Collected: 09/28/22 12:55

Matrix: Water

Date Received: 09/29/22 09:51

Method: SM7500 Ra B - Radium-226

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra-226	0.510		0.350		1.00	0.290	pCi/L	10/19/22 10:11	11/01/22 12:28	1

Client Sample ID: DUP-02

Lab Sample ID: 860-34152-12

Date Collected: 09/28/22 09:00

Matrix: Water

Date Received: 09/29/22 09:51

Method: SM7500 Ra B - Radium-226

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra-226	0.830		0.590		1.00	0.330	pCi/L	10/19/22 10:11	11/28/22 11:48	1

Client Sample ID: FB-02

Lab Sample ID: 860-34152-13

Date Collected: 09/28/22 13:20

Matrix: Water

Date Received: 09/29/22 09:51

Method: SM7500 Ra B - Radium-226

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra-226	0.120	U	0.180		1.00	0.200	pCi/L	10/19/22 10:11	11/01/22 12:28	1

Client Sample ID: EB-01

Lab Sample ID: 860-34152-14

Date Collected: 09/28/22 13:20

Matrix: Water

Date Received: 09/29/22 09:51

Method: SM7500 Ra B - Radium-226

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra-226	-0.0800	U	0.230		1.00	0.420	pCi/L	10/19/22 10:11	11/01/22 12:28	1

Client Sample ID: EP-31

Lab Sample ID: 860-34152-15

Date Collected: 09/28/22 11:15

Matrix: Water

Date Received: 09/29/22 09:51

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		0.280		1.00	0.170	pCi/L	10/19/22 10:11	11/28/22 11:48	1

Client Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-2

Client Sample ID: EP-32
 Date Collected: 09/28/22 13:10
 Date Received: 09/29/22 09:51

Lab Sample ID: 860-34152-16
 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	0.120	U *	0.410		1.00	0.500	pCi/L	10/21/22 14:57	10/28/22 11:10	1

Client Sample ID: EP-33
 Date Collected: 09/28/22 11:50
 Date Received: 09/29/22 09:51

Lab Sample ID: 860-34152-17
 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	0.450		0.290		1.00	0.230	pCi/L	10/21/22 16:28	10/28/22 12:04	1

Client Sample ID: EP-34
 Date Collected: 09/28/22 10:50
 Date Received: 09/29/22 09:51

Lab Sample ID: 860-34152-18
 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	0.650		0.580		1.00	0.300	pCi/L	10/21/22 16:28	11/01/22 12:28	1

Client Sample ID: EP-35
 Date Collected: 09/28/22 09:50
 Date Received: 09/29/22 09:51

Lab Sample ID: 860-34152-19
 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	0.870		0.580		1.00	0.490	pCi/L	10/21/22 16:28	10/28/22 12:04	1

Client Sample ID: EP-36
 Date Collected: 09/28/22 08:50
 Date Received: 09/29/22 09:51

Lab Sample ID: 860-34152-20
 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	0.720		0.820		1.00	0.480	pCi/L	10/21/22 15:23	11/14/22 10:30	1

Client Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-2

Client Sample ID: EP-37
 Date Collected: 09/28/22 09:00
 Date Received: 09/29/22 09:51

Lab Sample ID: 860-34152-21
 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	0.580		0.450		1.00	0.400	pCi/L	10/21/22 15:23	10/28/22 11:10	1

Client Sample ID: EP-38
 Date Collected: 09/28/22 10:40
 Date Received: 09/29/22 09:51

Lab Sample ID: 860-34152-22
 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	0.130	U	0.250		1.00	0.300	pCi/L	10/21/22 15:23	10/28/22 11:10	1

Client Sample ID: MW-04
 Date Collected: 09/28/22 09:45
 Date Received: 09/29/22 09:51

Lab Sample ID: 860-34152-23
 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	0.390		0.370		1.00	0.360	pCi/L	10/21/22 15:23	10/28/22 11:10	1

Client Sample ID: DUP-03
 Date Collected: 09/28/22 11:00
 Date Received: 09/29/22 09:51

Lab Sample ID: 860-34152-24
 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	0.400		0.250		1.00	0.200	pCi/L	10/21/22 15:23	10/28/22 11:10	1

Client Sample ID: FB-03
 Date Collected: 09/28/22 09:10
 Date Received: 09/29/22 09:51

Lab Sample ID: 860-34152-25
 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	-0.180	U	0.190		1.00	0.520	pCi/L	10/21/22 15:23	10/28/22 11:10	1

Client Sample Results

Client: GSI Environmental, Inc
Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-2

Client Sample ID: EB-02

Lab Sample ID: 860-34152-26

Date Collected: 09/28/22 10:05

Matrix: Water

Date Received: 09/29/22 09:51

Method: SM7500 Ra B - Radium-226

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra-226	-0.0200	U	0.290		1.00	0.470	pCi/L	10/21/22 15:23	10/28/22 11:10	1

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

QC Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-2

Method: SM7500 Ra B - Radium-226

Lab Sample ID: MB 810-35765/1-A
Matrix: Water
Analysis Batch: 37257

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 35765

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Ra-226	-0.08000	U	0.0500		1.00	0.150	pCi/L	10/19/22 09:06	11/01/22 13:29	1

Lab Sample ID: LCS 810-35765/2-A
Matrix: Water
Analysis Batch: 37257

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 35765

Analyte	Spike Added	LCS	LCS	Total	RL	MDC	Unit	%Rec	%Rec Limits
		Result	Qual	Uncert. (2σ+/-)					
Ra-226	4.95	5.420			1.00	0.180	pCi/L	109	90 - 110

Lab Sample ID: MB 810-35775/1-A
Matrix: Water
Analysis Batch: 37247

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 35775

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Ra-226	-0.02000	U	0.100		1.00	0.170	pCi/L	10/19/22 10:11	11/01/22 12:28	1

Lab Sample ID: LCS 810-35775/2-A
Matrix: Water
Analysis Batch: 37247

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 35775

Analyte	Spike Added	LCS	LCS	Total	RL	MDC	Unit	%Rec	%Rec Limits
		Result	Qual	Uncert. (2σ+/-)					
Ra-226	4.95	5.300			1.00	0.240	pCi/L	107	90 - 110

Lab Sample ID: 860-34152-15 MS
Matrix: Water
Analysis Batch: 39803

Client Sample ID: EP-31
Prep Type: Total/NA
Prep Batch: 35775

Analyte	Sample	Sample	Spike Added	MS	MS	Total	RL	MDC	Unit	%Rec	%Rec Limits
	Result	Qual		Result	Qual	Uncert. (2σ+/-)					
Ra-226	0.690		5.49	1.180	F1		1.00	0.160	pCi/L	21	80 - 120

Lab Sample ID: 860-34152-15 MSD
Matrix: Water
Analysis Batch: 39803

Client Sample ID: EP-31
Prep Type: Total/NA
Prep Batch: 35775

Analyte	Sample	Sample	Spike Added	MSD	MSD	Total	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
	Result	Qual		Result	Qual	Uncert. (2σ+/-)							
Ra-226	0.690		5.49	10.42	F1		1.00	0.170	pCi/L	190	80 - 120	6.55	

Lab Sample ID: MB 810-36141/1-A
Matrix: Water
Analysis Batch: 36990

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 36141

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Ra-226	-0.1700	U	0.180		1.00	0.420	pCi/L	10/21/22 14:57	10/28/22 11:10	1

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QC Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-2

Method: SM7500 Ra B - Radium-226

Lab Sample ID: LCS 810-36141/2-A
Matrix: Water
Analysis Batch: 36990

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 36141

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Ra-226	4.95	4.430	*		1.00	0.310	pCi/L	89	90 - 110

Lab Sample ID: 860-34152-2 MS
Matrix: Water
Analysis Batch: 38053

Client Sample ID: PZ-03
Prep Type: Total/NA
Prep Batch: 36141

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Ra-226	0.770	*	5.48	4.430			1.00	0.260	pCi/L	81	80 - 120

Lab Sample ID: 860-34152-2 MSD
Matrix: Water
Analysis Batch: 38053

Client Sample ID: PZ-03
Prep Type: Total/NA
Prep Batch: 36141

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	0.770	*	5.49	4.660			1.00	0.180	pCi/L	85	80 - 120	0.16	

Lab Sample ID: MB 810-36148/1-A
Matrix: Water
Analysis Batch: 36868

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 36148

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra-226	-0.01000	U	0.220		1.00	0.350	pCi/L	10/21/22 15:23	10/28/22 11:10	1

Lab Sample ID: LCS 810-36148/2-A
Matrix: Water
Analysis Batch: 36868

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 36148

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Ra-226	4.95	4.670			1.00	0.430	pCi/L	94	90 - 110

Lab Sample ID: MB 810-36163/1-A
Matrix: Water
Analysis Batch: 36862

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 36163

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Ra-226	-0.04000	U	0.230		1.00	0.380	pCi/L	10/21/22 16:28	10/28/22 12:04	1

Lab Sample ID: LCS 810-36163/2-A
Matrix: Water
Analysis Batch: 36862

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 36163

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Ra-226	4.95	5.030			1.00	0.380	pCi/L	102	90 - 110

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QC Association Summary

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-2

Rad

Prep Batch: 35765

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-34152-4	AP-32	Total/NA	Water	RAD Prep	
MB 810-35765/1-A	Method Blank	Total/NA	Water	RAD Prep	
LCS 810-35765/2-A	Lab Control Sample	Total/NA	Water	RAD Prep	

Prep Batch: 35775

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-34152-5	AP-33	Total/NA	Water	RAD Prep	
860-34152-6	AP-34	Total/NA	Water	RAD Prep	
860-34152-7	AP-35	Total/NA	Water	RAD Prep	
860-34152-9	MW-03	Total/NA	Water	RAD Prep	
860-34152-10	PZ-05	Total/NA	Water	RAD Prep	
860-34152-11	PZ-06	Total/NA	Water	RAD Prep	
860-34152-12	DUP-02	Total/NA	Water	RAD Prep	
860-34152-13	FB-02	Total/NA	Water	RAD Prep	
860-34152-14	EB-01	Total/NA	Water	RAD Prep	
860-34152-15	EP-31	Total/NA	Water	RAD Prep	
MB 810-35775/1-A	Method Blank	Total/NA	Water	RAD Prep	
LCS 810-35775/2-A	Lab Control Sample	Total/NA	Water	RAD Prep	
860-34152-15 MS	EP-31	Total/NA	Water	RAD Prep	
860-34152-15 MSD	EP-31	Total/NA	Water	RAD Prep	

Prep Batch: 36141

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-34152-1	PZ-02	Total/NA	Water	RAD Prep	
860-34152-2	PZ-03	Total/NA	Water	RAD Prep	
860-34152-3	AP-31	Total/NA	Water	RAD Prep	
860-34152-8	AP-36	Total/NA	Water	RAD Prep	
860-34152-16	EP-32	Total/NA	Water	RAD Prep	
MB 810-36141/1-A	Method Blank	Total/NA	Water	RAD Prep	
LCS 810-36141/2-A	Lab Control Sample	Total/NA	Water	RAD Prep	
860-34152-2 MS	PZ-03	Total/NA	Water	RAD Prep	
860-34152-2 MSD	PZ-03	Total/NA	Water	RAD Prep	

Prep Batch: 36148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-34152-20	EP-36	Total/NA	Water	RAD Prep	
860-34152-21	EP-37	Total/NA	Water	RAD Prep	
860-34152-22	EP-38	Total/NA	Water	RAD Prep	
860-34152-23	MW-04	Total/NA	Water	RAD Prep	
860-34152-24	DUP-03	Total/NA	Water	RAD Prep	
860-34152-25	FB-03	Total/NA	Water	RAD Prep	
860-34152-26	EB-02	Total/NA	Water	RAD Prep	
MB 810-36148/1-A	Method Blank	Total/NA	Water	RAD Prep	
LCS 810-36148/2-A	Lab Control Sample	Total/NA	Water	RAD Prep	

Prep Batch: 36163

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-34152-17	EP-33	Total/NA	Water	RAD Prep	
860-34152-18	EP-34	Total/NA	Water	RAD Prep	
860-34152-19	EP-35	Total/NA	Water	RAD Prep	
MB 810-36163/1-A	Method Blank	Total/NA	Water	RAD Prep	

Eurofins Houston

QC Association Summary

Client: GSI Environmental, Inc
Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-2

Rad (Continued)

Prep Batch: 36163 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 810-36163/2-A	Lab Control Sample	Total/NA	Water	RAD Prep	

- 1
- 2
- 3
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- 12
- 13
- 14

Lab Chronicle

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-2

Client Sample ID: PZ-02

Lab Sample ID: 860-34152-1

Date Collected: 09/28/22 10:30

Matrix: Water

Date Received: 09/29/22 09:51

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	36141	10/21/22 14:57	OO	EA SB
Total/NA	Analysis	SM7500 Ra B		1			36990	10/28/22 11:10	SS	EA SB
							Completed:	10/28/22 11:40	1	

Client Sample ID: PZ-03

Lab Sample ID: 860-34152-2

Date Collected: 09/28/22 08:55

Matrix: Water

Date Received: 09/29/22 09:51

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	36141	10/21/22 14:57	OO	EA SB
Total/NA	Analysis	SM7500 Ra B		1			38053	11/08/22 09:54	OO	EA SB
							Completed:	11/08/22 10:24	1	

Client Sample ID: AP-31

Lab Sample ID: 860-34152-3

Date Collected: 09/28/22 09:20

Matrix: Water

Date Received: 09/29/22 09:51

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	36141	10/21/22 14:57	OO	EA SB
Total/NA	Analysis	SM7500 Ra B		1			38054	11/08/22 09:54	OO	EA SB
							Completed:	11/08/22 10:24	1	

Client Sample ID: AP-32

Lab Sample ID: 860-34152-4

Date Collected: 09/28/22 11:25

Matrix: Water

Date Received: 09/29/22 09:51

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	35765	10/19/22 09:06	SM	EA SB
Total/NA	Analysis	SM7500 Ra B		1			39643	11/28/22 10:58	SM	EA SB
							Completed:	11/28/22 11:28	1	

Client Sample ID: AP-33

Lab Sample ID: 860-34152-5

Date Collected: 09/28/22 12:20

Matrix: Water

Date Received: 09/29/22 09:51

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	35775	10/19/22 10:11	SM	EA SB
Total/NA	Analysis	SM7500 Ra B		1			39805	11/28/22 11:48	SM	EA SB
							Completed:	11/28/22 12:18	1	

Lab Chronicle

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-2

Client Sample ID: AP-34
Date Collected: 09/28/22 14:15
Date Received: 09/29/22 09:51

Lab Sample ID: 860-34152-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	35775	10/19/22 10:11	SM	EA SB
Total/NA	Analysis	SM7500 Ra B		1			39805	11/28/22 11:48	SM	EA SB
								Completed:	11/28/22 12:18 ¹	

Client Sample ID: AP-35
Date Collected: 09/28/22 13:20
Date Received: 09/29/22 09:51

Lab Sample ID: 860-34152-7
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	35775	10/19/22 10:11	SM	EA SB
Total/NA	Analysis	SM7500 Ra B		1			39805	11/28/22 11:48	SM	EA SB
								Completed:	11/28/22 12:18 ¹	

Client Sample ID: AP-36
Date Collected: 09/28/22 13:55
Date Received: 09/29/22 09:51

Lab Sample ID: 860-34152-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	36141	10/21/22 14:57	OO	EA SB
Total/NA	Analysis	SM7500 Ra B		1			38054	11/08/22 09:54	OO	EA SB
								Completed:	11/08/22 10:24 ¹	

Client Sample ID: MW-03
Date Collected: 09/28/22 10:10
Date Received: 09/29/22 09:51

Lab Sample ID: 860-34152-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	35775	10/19/22 10:11	SM	EA SB
Total/NA	Analysis	SM7500 Ra B		1			37247	11/01/22 12:28	SS	EA SB
								Completed:	11/01/22 12:58 ¹	

Client Sample ID: PZ-05
Date Collected: 09/28/22 13:10
Date Received: 09/29/22 09:51

Lab Sample ID: 860-34152-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	35775	10/19/22 10:11	SM	EA SB
Total/NA	Analysis	SM7500 Ra B		1			37247	11/01/22 12:28	SS	EA SB
								Completed:	11/01/22 12:58 ¹	

Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-2

Client Sample ID: PZ-06

Date Collected: 09/28/22 12:55

Date Received: 09/29/22 09:51

Lab Sample ID: 860-34152-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	35775	10/19/22 10:11	SM	EA SB
Total/NA	Analysis	SM7500 Ra B		1			37247	11/01/22 12:28	SS	EA SB
								Completed:	11/01/22 12:58 ¹	

Client Sample ID: DUP-02

Date Collected: 09/28/22 09:00

Date Received: 09/29/22 09:51

Lab Sample ID: 860-34152-12

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	RAD Prep			1.0 mL	1.0 mL	35775	10/19/22 10:11	SM	EA SB
Total/NA	Analysis	SM7500 Ra B		1			39805	11/28/22 11:48	SM	EA SB
								Completed:	11/28/22 12:18 ¹	

Client Sample ID: FB-02

Date Collected: 09/28/22 13:20

Date Received: 09/29/22 09:51

Lab Sample ID: 860-34152-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	35775	10/19/22 10:11	SM	EA SB
Total/NA	Analysis	SM7500 Ra B		1			37247	11/01/22 12:28	SS	EA SB
								Completed:	11/01/22 12:58 ¹	

Client Sample ID: EB-01

Date Collected: 09/28/22 13:20

Date Received: 09/29/22 09:51

Lab Sample ID: 860-34152-14

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	RAD Prep			1.0 mL	1.0 mL	35775	10/19/22 10:11	SM	EA SB
Total/NA	Analysis	SM7500 Ra B		1			37247	11/01/22 12:28	SS	EA SB
								Completed:	11/01/22 12:58 ¹	

Client Sample ID: EP-31

Date Collected: 09/28/22 11:15

Date Received: 09/29/22 09:51

Lab Sample ID: 860-34152-15

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	35775	10/19/22 10:11	SM	EA SB
Total/NA	Analysis	SM7500 Ra B		1			39803	11/28/22 11:48	SM	EA SB
								Completed:	11/28/22 12:18 ¹	

Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-2

Client Sample ID: EP-32

Lab Sample ID: 860-34152-16

Date Collected: 09/28/22 13:10

Matrix: Water

Date Received: 09/29/22 09:51

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	36141	10/21/22 14:57	OO	EA SB
Total/NA	Analysis	SM7500 Ra B		1			36990	10/28/22 11:10	SS	EA SB
								Completed:	10/28/22 11:40	¹

Client Sample ID: EP-33

Lab Sample ID: 860-34152-17

Date Collected: 09/28/22 11:50

Matrix: Water

Date Received: 09/29/22 09:51

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	36163	10/21/22 16:28	OO	EA SB
Total/NA	Analysis	SM7500 Ra B		1			36862	10/28/22 12:04	SS	EA SB
								Completed:	10/28/22 12:34	¹

Client Sample ID: EP-34

Lab Sample ID: 860-34152-18

Date Collected: 09/28/22 10:50

Matrix: Water

Date Received: 09/29/22 09:51

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	36163	10/21/22 16:28	OO	EA SB
Total/NA	Analysis	SM7500 Ra B		1			37270	11/01/22 12:28	SS	EA SB
								Completed:	11/01/22 12:58	¹

Client Sample ID: EP-35

Lab Sample ID: 860-34152-19

Date Collected: 09/28/22 09:50

Matrix: Water

Date Received: 09/29/22 09:51

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	36163	10/21/22 16:28	OO	EA SB
Total/NA	Analysis	SM7500 Ra B		1			36862	10/28/22 12:04	SS	EA SB
								Completed:	10/28/22 12:34	¹

Client Sample ID: EP-36

Lab Sample ID: 860-34152-20

Date Collected: 09/28/22 08:50

Matrix: Water

Date Received: 09/29/22 09:51

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	36148	10/21/22 15:23	OO	EA SB
Total/NA	Analysis	SM7500 Ra B		1			38765	11/14/22 10:30	SM	EA SB
								Completed:	11/14/22 11:00	¹

Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-2

Client Sample ID: EP-37
Date Collected: 09/28/22 09:00
Date Received: 09/29/22 09:51

Lab Sample ID: 860-34152-21
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	36148	10/21/22 15:23	OO	EA SB
Total/NA	Analysis	SM7500 Ra B		1			36868	10/28/22 11:10	SS	EA SB
								Completed:	10/28/22 11:40	¹

Client Sample ID: EP-38
Date Collected: 09/28/22 10:40
Date Received: 09/29/22 09:51

Lab Sample ID: 860-34152-22
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	36148	10/21/22 15:23	OO	EA SB
Total/NA	Analysis	SM7500 Ra B		1			36868	10/28/22 11:10	SS	EA SB
								Completed:	10/28/22 11:40	¹

Client Sample ID: MW-04
Date Collected: 09/28/22 09:45
Date Received: 09/29/22 09:51

Lab Sample ID: 860-34152-23
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	36148	10/21/22 15:23	OO	EA SB
Total/NA	Analysis	SM7500 Ra B		1			36868	10/28/22 11:10	SS	EA SB
								Completed:	10/28/22 11:40	¹

Client Sample ID: DUP-03
Date Collected: 09/28/22 11:00
Date Received: 09/29/22 09:51

Lab Sample ID: 860-34152-24
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	36148	10/21/22 15:23	OO	EA SB
Total/NA	Analysis	SM7500 Ra B		1			36868	10/28/22 11:10	SS	EA SB
								Completed:	10/28/22 11:40	¹

Client Sample ID: FB-03
Date Collected: 09/28/22 09:10
Date Received: 09/29/22 09:51

Lab Sample ID: 860-34152-25
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	36148	10/21/22 15:23	OO	EA SB
Total/NA	Analysis	SM7500 Ra B		1			36868	10/28/22 11:10	SS	EA SB
								Completed:	10/28/22 11:40	¹

Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-2

Client Sample ID: EB-02
Date Collected: 09/28/22 10:05
Date Received: 09/29/22 09:51

Lab Sample ID: 860-34152-26
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	36148	10/21/22 15:23	OO	EA SB
Total/NA	Analysis	SM7500 Ra B		1			36868	10/28/22 11:10	SS	EA SB
								Completed:	10/28/22 11:40	¹

¹ Completion dates and times are reported or not reported per method requirements or individual lab discretion.

Laboratory References:

EA SB = Eurofins Eaton South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777



Accreditation/Certification Summary

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-2

Laboratory: Eurofins Eaton 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	02-28-23
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	12-31-22
IL Dept. of Public Health (Micro)	State	17767	12-31-22
Illinois	NELAP	200001	09-30-23
Indiana	State	C-71-01	12-31-22
Indiana (Micro)	State	M-76-07	12-31-22
Iowa	State	IA Lab #098	11-01-23
Kansas	NELAP	E-10233	10-31-23
Kentucky (DW)	State	KY90056	12-31-22
Louisiana (DW)	State	LA180008	12-31-22
Maine	State	IN00035	05-01-23
Maryland	State	209	03-31-23
Massachusetts	State	M-IN035	06-30-23
MI - RadChem Recognition	State	9926	06-30-23
Michigan	State	9926	12-31-22
Minnesota	NELAP	1989807	12-31-23
Mississippi	State	IN00035	06-30-22 *
Missouri	State	880	09-30-24
Montana (DW)	State	CERT0026	01-01-23
Nebraska	State	NE-OS-05-04	06-30-23
Nevada	State	IN000352021-2	07-31-23
New Hampshire	NELAP	2124	11-05-22 *
New Jersey	NELAP	IN598	06-30-23
New Mexico	State	IN00035	06-30-23
New York	NELAP	11398	04-01-23
North Carolina (DW)	State	18700	07-31-23
North Dakota	State	R-035	06-30-23
Ohio	State	87775	06-30-23
Oklahoma	NELAP	D9508	08-31-23
Oregon	NELAP	4156	09-16-23
Pennsylvania	NELAP	68-00466	04-30-23
Puerto Rico	State	IN00035	04-01-23
Rhode Island	State	LAO00343	12-30-22
South Carolina	State	95005001	06-30-23
South Dakota (DW)	State	IN00035	12-31-22
Tennessee	State	TN02973	06-30-23
Texas	NELAP	T104704187-22-16	12-31-22
Texas	TCEQ Water Supply	TX207	06-30-23
USEPA UCMR 5	US Federal Programs	IN00035	12-31-25

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

Eurofins Houston

Accreditation/Certification Summary

Client: GSI Environmental, Inc
Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-2

Laboratory: Eurofins Eaton South Bend (Continued)

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

<u>Authority</u>	<u>Program</u>	<u>Identification Number</u>	<u>Expiration Date</u>
Utah	NELAP	IN00035	07-31-23
Virginia	NELAP	460275	03-14-23
Washington	State	C837	01-01-23
West Virginia (DW)	State	9927 C	12-31-22
Wisconsin	State	999766900	08-31-23
Wisconsin (Micro)	State	10121	12-31-22
Wyoming	State	8TMS-L	06-30-23

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Method Summary

Client: GSI Environmental, Inc
Project/Site: San Miguel Electrical Co-Op 2H22 GW

Job ID: 860-34152-2

Method	Method Description	Protocol	Laboratory
SM7500 Ra B	Radium-226	SM	EA SB
RAD Prep	Preparation, Radiologicals	None	EA SB

Protocol References:

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

EA SB = Eurofins Eaton South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777



Sample Summary

Client: GSI Environmental, Inc
Project/Site: San Miguel Electrical Co-Op 2H22 GW

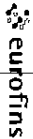
Job ID: 860-34152-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-34152-1	PZ-02	Water	09/28/22 10:30	09/29/22 09:51
860-34152-2	PZ-03	Water	09/28/22 08:55	09/29/22 09:51
860-34152-3	AP-31	Water	09/28/22 09:20	09/29/22 09:51
860-34152-4	AP-32	Water	09/28/22 11:25	09/29/22 09:51
860-34152-5	AP-33	Water	09/28/22 12:20	09/29/22 09:51
860-34152-6	AP-34	Water	09/28/22 14:15	09/29/22 09:51
860-34152-7	AP-35	Water	09/28/22 13:20	09/29/22 09:51
860-34152-8	AP-36	Water	09/28/22 13:55	09/29/22 09:51
860-34152-9	MW-03	Water	09/28/22 10:10	09/29/22 09:51
860-34152-10	PZ-05	Water	09/28/22 13:10	09/29/22 09:51
860-34152-11	PZ-06	Water	09/28/22 12:55	09/29/22 09:51
860-34152-12	DUP-02	Water	09/28/22 09:00	09/29/22 09:51
860-34152-13	FB-02	Water	09/28/22 13:20	09/29/22 09:51
860-34152-14	EB-01	Water	09/28/22 13:20	09/29/22 09:51
860-34152-15	EP-31	Water	09/28/22 11:15	09/29/22 09:51
860-34152-16	EP-32	Water	09/28/22 13:10	09/29/22 09:51
860-34152-17	EP-33	Water	09/28/22 11:50	09/29/22 09:51
860-34152-18	EP-34	Water	09/28/22 10:50	09/29/22 09:51
860-34152-19	EP-35	Water	09/28/22 09:50	09/29/22 09:51
860-34152-20	EP-36	Water	09/28/22 08:50	09/29/22 09:51
860-34152-21	EP-37	Water	09/28/22 09:00	09/29/22 09:51
860-34152-22	EP-38	Water	09/28/22 10:40	09/29/22 09:51
860-34152-23	MW-04	Water	09/28/22 09:45	09/29/22 09:51
860-34152-24	DUP-03	Water	09/28/22 11:00	09/29/22 09:51
860-34152-25	FB-03	Water	09/28/22 09:10	09/29/22 09:51
860-34152-26	EB-02	Water	09/28/22 10:05	09/29/22 09:51

Eurofins Xenco, Stafford
 4747 Greenhater Dr
 Stafford, TX 77477
 Phone (281) 240-4200

Chain of Custody Record

(Project delayed from August, rescheduled in Sept due to rain at site)



eurofins
 Environment 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 2H2/GW (Air Ponds)**
 Site: **SSOW#:**

Sampler: **Scott Wade + HMI Team**
Phone: **832 347-4521**
Lab P#: Kuchadkar Sachin G
Email: **Sachin.Kuchadkar@Eurofins.com**
State of Origin: **TX**
Page: **1 of 3**
Job #:

Due Date Requested:
TAT Requested (days):
Compliance Project: Yes No
PO #:
W/O #:
Project #: **86001746**
Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Soil, Overstabil)	Field Filtered Sample (Yes or No)	Pattern MS/MSD (Yes or No)	2320B, Alkalinity	6020B -7470- B, Ca,Sb, As, Ba, Be, Cd, Cr Co, Pb, Li, Mo, Se, Ti,Hg	2540C_TDS	300- Cl, F SO4	901 1_Ra- Rad 228 Eurofins St Louis	SM7500_Ra_B Rad 228- South Bend IN	Preservation Codes:
PZ-02	9/8/28/22	1030	G	Water	N	X	N	N	N	N	D	D	A HCL B NaOH C Zn Acetate D Nitrd Acid E NaHSO4 F MeOH G Amehler H Ascobic Acid I Ice J DI Water K EDTA L EDA Other:
PZ-03	9/8/28/22	855	G	Water	N	X	N	N	N	N	D	D	M Hexane N None O ASN2O2 P Na2SO4 Q Na2S03 R Na2S2O3 S H2SO4 T TSP Decahydrate U Acetone V MCAA W pH 4.5 Z other (specify)
PZ-03 (ms)		855		Water	Y								
PZ-03 (MSD)		855		Water	Y								
AP-31		920		Water	N								
AP-32		1125		Water	N								
AP-33		1220		Water	N								
AP-34		1415		Water	N								
AP-35		1320		Water	N								
AP-36		1355		Water	N								
MW-03		1010		Water	N								

Special Instructions/Note:
 Matrix Spike Volume
 Matrix Spike Dup. Volume

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For
 Special Instructions/QC Requirements: **CCR - Appendix III**
CCR - Appendix X IV Assessment Monitoring

Relinquished by: *[Signature]* **Date/Time:** **9-29-22 0951** **Company:** **HMI**
Relinquished by: *[Signature]* **Date/Time:** **9/29/22 0951** **Company:** **HMI**
Relinquished by: *[Signature]* **Date/Time:** **9/29/22 0951** **Company:** **HMI**

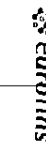
Empty Kit Relinquished by: *[Signature]* **Date:** **9/29/22**
Method of Shipment: **Cons Del**

Custody Seals Intact: Yes No **Custody Seal No.:** **Temp: 1.5 IRIDHOU-343**
C/F: +0.3
Corrected Temp: 1.8



860-34152 Chain of Custody

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 2H22 GW (Asst Found) & (Eggs) 2H22, Pond

Site: SSONW#

Sampler: Steve Lutz + Jim Tatum
Phone: 832-377-4521

Due Date Requested: TAT Requested (days):

Compliance Project: Yes No

Project #: 86001746

Matrix (Water, Soil, Overstall, BI-Tissue, A&H)

Sample Type (C=Comp, G=Grab)

Sample Date

Sample Time

Preservation Code:

Field Filtered Sample (Yes or No)

Performing MSO (Yes or No)

2320B, Alkalinity

6020B 7470- B, Ca, Sb, As, Ba, Be, Cd, Cr Co, Pb, Li, Mo, Se, Ti/Hg

2540C_TDS

300- Cl, F, SO4

9011_Ra- Rad 226 Eurofins St Louis

SM7500_Ra_B Rad 226- South Bend IN

Carrier Tracking No(s):

State of Origin: TX

COC No: 860-3614-1220 1

Page: 2 of 3

Job #:

Preservation Codes:

A HCL
B NaOH
C Zn Acetate
D Nitric Acid
E NaHSO4
F MeOH
G Amherst
H Ascorbic Acid
I Ice
J DI Water
K EDTA
L EDA
M Hexane
N None
O AsH2O2
P Na2CO3
Q NaHSO3
R Na2S2O3
S H2SO4
T TSP Dodecylhydrate
U Acetone
V MCAA
W pH 4-5
Z other (specify)

Special Instructions/Note:

Total Number of containers

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

Return To Client Archive For

Special Instructions/QC Requirements

CE-Appendix III & CCR-Appendix IV

Method of Shipment: Car

Received by: [Signature]

Date/Time: 9-29-22 0951

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix (Water, Soil, Overstall, BI-Tissue, A&H)	Preservation Code:	Field Filtered Sample (Yes or No)	Performing MSO (Yes or No)	2320B, Alkalinity	6020B 7470- B, Ca, Sb, As, Ba, Be, Cd, Cr Co, Pb, Li, Mo, Se, Ti/Hg	2540C_TDS	300- Cl, F, SO4	9011_Ra- Rad 226 Eurofins St Louis	SM7500_Ra_B Rad 226- South Bend IN	Carrier Tracking No(s):	State of Origin:	COC No:	Page:	Job #:	Preservation Codes:	Special Instructions/Note:	Total Number of containers	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	Return To Client <input type="checkbox"/>	Archive For <input type="checkbox"/>	Special Instructions/QC Requirements	Method of Shipment:	Received by:	Date/Time:	Company:	
PZ-05	9/28/22	1310	G	Water		N	N	✓	✓	✓	✓	✓	✓		TX	860-3614-1220 1	2 of 3													
PZ-06		1255		Water		N	N	✓	✓	✓	✓	✓	✓																	
DUP-02		900		Water		N	N	✓	✓	✓	✓	✓	✓																	
FB-02		1320		Water		N	N	✓	✓	✓	✓	✓	✓																	
EB-01		1320		Water		N	N	✓	✓	✓	✓	✓	✓																	
EP-31		115		Water		N	N	✓	✓	✓	✓	✓	✓																	
EP-31 (MS)		115		Water		N	N	✓	✓	✓	✓	✓	✓																	
EP-31 (MSD)		115		Water		N	N	✓	✓	✓	✓	✓	✓																	
EP-32		1310		Water		N	N	✓	✓	✓	✓	✓	✓																	
EP-33		1150		Water		N	N	✓	✓	✓	✓	✓	✓																	
EP-34		1050		Water		N	N	✓	✓	✓	✓	✓	✓																	

Chain of Custody Record

4747 Greenbrier Dr
Stafford, TX 77477
Phone (281) 240-4200

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-net.com
 Project Name: San Miguel Electrical Co-Op 2H27² GW (Equal to the Pond)
 Site: SSGW#

Sampler Scott Wade + Wm Jiam
 Phone: 832-347-4521
 Lab P.M.: Kudachkar Sachin G
 E-Mail: Sachin.Kudachkar@Eurofins.com
 Carrier Tracking No(s):
 State of Origin: TX
 Page: p. 3 of 3
 Job #:

Analysis Requested
 Due Date Requested:
 TAT Requested (days):
 Compliance Project: Yes No
 PO #:
 WO #:
 Project #: 86001746
 SSGW#:
 Field Filtered Sample (Yes or No)
 Perform MS/MSD (Yes or No)
 2320B, Alkalinity
 6020B -7470- B, Ca, Sb, As, Ba, Be, Cd, Cr Co, Pb, Li, Mo, Se, Ti, Hg
 2540C TDS
 300- Cl, F SO4
 9011_Ra- Rad 226 Eurofins St Louis
 SM7500_Ra_B_Rad 226- South Bend IN
 Total Number of containers
 Special Instructions/Note:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix (Water, Sewer, Over-sat)	Preservation Code: (Per-Title, A-Add)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2320B, Alkalinity	6020B -7470- B, Ca, Sb, As, Ba, Be, Cd, Cr Co, Pb, Li, Mo, Se, Ti, Hg	2540C TDS	300- Cl, F SO4	9011_Ra- Rad 226 Eurofins St Louis	SM7500_Ra_B_Rad 226- South Bend IN	Total Number of containers	Special Instructions/Note
EP-35	9/28/22	950	G	Water	N	N	N	N	N	N	N	N	N		
EP-36	9/28/22	850	G	Water	N	N	N	N	N	N	N	N	N		
EP-37	9/28/22	900	G	Water	N	N	N	N	N	N	N	N	N		
EP-38	9/28/22	1040	G	Water	N	N	N	N	N	N	N	N	N		
MW-04	9/28/22	945	G	Water	N	N	N	N	N	N	N	N	N		
DUP-03	9/28/22	1100	G	Water	N	N	N	N	N	N	N	N	N		
FB-03	9/28/22	910	G	Water	N	N	N	N	N	N	N	N	N		
EB-02	9/28/22	1005	G	Water	N	N	N	N	N	N	N	N	N		

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: _____ Company: _____
 Relinquished by: _____ Date/Time: _____ Company: _____
 Custody Seals Intact: Yes No
 Custody Seal No. _____
 Cooler Temperature(s) °C and Other Remarks:
 Temp 1.5 IR ID: HOU-343
 C/F +0.3
 Corrected Temp 1.8
 Ver: 01/16/2019

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/OC Requirements: CCE-Appendix III 8 CCR-Appendix IV
 Method of Shipment: Cons. Deliv.

Receiving Lab
 Date/Time: 9/29/22 0951
 Company: HAM1
 Received by: _____
 Date/Time: 9/29/22 0951
 Company: GSI

Relinquishing Lab
 Date/Time: _____
 Company: _____
 Received by: _____
 Date/Time: _____
 Company: _____

Login Sample Receipt Checklist

Client: GSI Environmental, Inc

Job Number: 860-34152-2

Login Number: 34152

List Source: Eurofins Houston

List Number: 1

Creator: Milone, Jeancarlo

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: 860-34152-2

Login Number: 34152
List Number: 2
Creator: DePriest, Kellie

List Source: Eurofins Eaton South Bend
List Creation: 10/01/22 10:04 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Samples do not require splitting or compositing.	True	
Container provided by EEA	False	Client provided containers

DATA USABILITY SUMMARY

November 2022 Resampling Event (Job ID: 860-36228-1)

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 02 November 2022** 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: T104704215-22-47) for the matrices, analytes, and methods of analysis requested on the chain-of-custody documentation. A copy of EET HOU's 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. Analyses requested included:

- Method 6020A - Metals (Inductively Coupled Plasma (ICP)/Mass Spectrometry)

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

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

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

INTRODUCTION

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 (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.

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

Finding: No qualifiers were added per these criteria.

Calibrations

The LCN indicated the following calibration issues:

- The continuing calibration blank (CCB) associated with batch 180-418006 recovered above the upper control limit for boron. The samples associated with the CCB were greater than ten times (10X) the CCB concentration; therefore, the data were reported by the laboratory and qualified with a “^2”.

Finding: No additional qualifiers were added per this evaluation because the affected sample results were greater than 10X the concentration in the CCB.

Blanks

Method (Laboratory) Blanks

No issues with the method blanks were noted in the LCN or during review of this data package.

Finding: No qualifiers were added per this evaluation.

Internal Standard and Surrogate Recoveries (VOCs and SVOCs Only)

Not applicable.

Laboratory Control Samples

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

Finding: No qualifiers were added per this evaluation.

Matrix Spike/Matrix Spike Duplicates and Laboratory Duplicates

No issues with matrix spike (MS)/matrix spike duplicate (MSD) data were noted in the LCN or during review of this data package.

Findings: No qualifiers were added per this evaluation.

Field Duplicates (Field Precision)

No field duplicates were collected with samples from this data package.

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
11/02/2022	EET HOU	860-36228-1	SP-32	Water
11/02/2022	EET HOU	860-36228-2	SP-34	Water

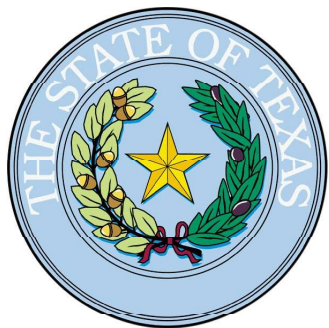
Notes:

1. EET HOU: Eurofins Houston, Stafford, Texas

Attachment A

Eurofins Houston – Stafford, Texas

TCEQ NELAP-Recognized Laboratory Accreditation Certificate



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.

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

Certificate Number: T104704215-22-47
Effective Date: 7/18/2022
Expiration Date: 6/30/2023

**Executive Director Texas Commission on
Environmental Quality**

Attachment B

Eurofins Houston – Stafford, Texas

Analytical Report

Job ID.: 860-36228-1

ANALYTICAL REPORT

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Tel: (281)240-4200

Laboratory Job ID: 860-36228-1

Client Project/Site: San Miguel Electrical Co-Op 2H21 GW

For:

GSI Environmental, Inc
9600 Great Hills Trail
Suite 350E
Austin, Texas 78759

Attn: Mike Schofield



Authorized for release by:
11/14/2022 10:42:00 AM

Sachin Kudchadkar, Senior Project Manager
(281)748-9025

Sachin.Kudchadkar@et.eurofinsus.com

LINKS

Review your project
results through



Have a Question?



Visit us at:

www.eurofinsus.com/Env

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

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

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.



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Client Sample Results	6
QC Sample Results	7
QC Association Summary	8
Lab Chronicle	9
Certification Summary	10
Method Summary	11
Sample Summary	12
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Definitions/Glossary

Client: GSI Environmental, Inc
Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-36228-1

Qualifiers

Metals

Qualifier	Qualifier Description
^2	Calibration Blank (ICB and/or CCB) is outside acceptance limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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 2H21 GW

Job ID: 860-36228-1

Job ID: 860-36228-1

Laboratory: Eurofins Houston

Narrative

Job Narrative
860-36228-1

Receipt

The samples were received on 11/3/2022 8:23 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.9°C

Metals

Method 6020A: The following samples were diluted to bring the concentration of target analytes within the calibration range: SP-32 (860-36228-1) and SP-34 (860-36228-2). Elevated reporting limits (RLs) are provided.

Method 6020A: The continuing calibration blank (CCB) associated with batch 180-418006 recovered above the upper control limit for boron. The samples associated with this CCB were 10X the CCB concentration for the affected analytes; therefore, the data have been reported. The associated samples are impacted: SP-34 (860-36228-2) and (CCB 180-418006/30).

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 2H21 GW

Job ID: 860-36228-1

Client Sample ID: SP-32

Lab Sample ID: 860-36228-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	11.5	^2	0.800	0.601	mg/L	10		EPA 6020A	Total Recoverable
Calcium	482		0.500	0.127	mg/L	1		EPA 6020A	Total Recoverable

Client Sample ID: SP-34

Lab Sample ID: 860-36228-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	814		5.00	1.27	mg/L	10		EPA 6020A	Total Recoverable

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 2H21 GW

Job ID: 860-36228-1

Client Sample ID: SP-32

Lab Sample ID: 860-36228-1

Date Collected: 11/02/22 11:40

Matrix: Water

Date Received: 11/03/22 08:23

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	11.5	^2	0.800	0.601	mg/L		11/08/22 12:50	11/10/22 11:11	10
Calcium	482		0.500	0.127	mg/L		11/08/22 12:50	11/09/22 15:51	1

Client Sample ID: SP-34

Lab Sample ID: 860-36228-2

Date Collected: 11/02/22 10:55

Matrix: Water

Date Received: 11/03/22 08:23

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	814		5.00	1.27	mg/L		11/08/22 12:50	11/10/22 11:14	10

QC Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-36228-1

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

Lab Sample ID: MB 180-417565/1-A
Matrix: Water
Analysis Batch: 417789

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 417565

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Boron	0.0601	U	0.0800	0.0601	mg/L		11/08/22 12:50	11/09/22 15:12	1
Calcium	0.127	U	0.500	0.127	mg/L		11/08/22 12:50	11/09/22 15:12	1

Lab Sample ID: LCS 180-417565/2-A
Matrix: Water
Analysis Batch: 417789

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 417565

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	25.0	27.81		mg/L		111	80 - 120

QC Association Summary

Client: GSI Environmental, Inc
Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-36228-1

Metals

Prep Batch: 417565

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-36228-1	SP-32	Total Recoverable	Water	3005A	
860-36228-2	SP-34	Total Recoverable	Water	3005A	
MB 180-417565/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-417565/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 417789

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-36228-1	SP-32	Total Recoverable	Water	EPA 6020A	417565
MB 180-417565/1-A	Method Blank	Total Recoverable	Water	EPA 6020A	417565
LCS 180-417565/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020A	417565

Analysis Batch: 418006

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-36228-1	SP-32	Total Recoverable	Water	EPA 6020A	417565
860-36228-2	SP-34	Total Recoverable	Water	EPA 6020A	417565



Lab Chronicle

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-36228-1

Client Sample ID: SP-32

Lab Sample ID: 860-36228-1

Date Collected: 11/02/22 11:40

Matrix: Water

Date Received: 11/03/22 08:23

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	417565	11/08/22 12:50	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020A		1			417789	11/09/22 15:51	RSK	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	417565	11/08/22 12:50	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020A		10			418006	11/10/22 11:11	RSK	EET PIT

Client Sample ID: SP-34

Lab Sample ID: 860-36228-2

Date Collected: 11/02/22 10:55

Matrix: Water

Date Received: 11/03/22 08:23

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	417565	11/08/22 12:50	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020A		10			418006	11/10/22 11:14	RSK	EET PIT

Laboratory References:

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 2H21 GW

Job ID: 860-36228-1

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	06-27-22 *
California	State	2891	04-30-23
Connecticut	State	PH-0688	09-30-22 *
Florida	NELAP	E871008	06-30-23
Georgia	State	PA 02-00416	04-30-23
Illinois	NELAP	004375	06-30-23
Kansas	NELAP	E-10350	03-31-23
Kentucky (UST)	State	162013	04-30-23
Kentucky (WW)	State	KY98043	12-31-22
Louisiana	NELAP	04041	06-30-22 *
Louisiana (All)	NELAP	04041	06-30-23
Maine	State	PA00164	03-06-24
Minnesota	NELAP	042-999-482	12-31-22
New Hampshire	NELAP	2030	04-04-23
New Jersey	NELAP	PA005	06-30-23
New York	NELAP	11182	04-01-23
North Carolina (WW/SW)	State	434	12-31-22
North Dakota	State	R-227	04-30-23
Oregon	NELAP	PA-2151	02-07-23
Pennsylvania	NELAP	02-00416	04-30-23
Rhode Island	State	LAO00362	12-31-22
South Carolina	State	89014	04-20-23
Texas	NELAP	T104704528	03-31-23
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	01-31-23
Wisconsin	State	998027800	08-31-23

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

Method Summary

Client: GSI Environmental, Inc
Project/Site: San Miguel Electrical Co-Op 2H21 GW

Job ID: 860-36228-1

Method	Method Description	Protocol	Laboratory
EPA 6020A	Metals (ICP/MS)	SW846	EET PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET PIT

Protocol References:

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

Laboratory References:

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 2H21 GW


Job ID: 860-36228-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-36228-1	SP-32	Water	11/02/22 11:40	11/03/22 08:23
860-36228-2	SP-34	Water	11/02/22 10:55	11/03/22 08:23

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- 12
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- 14

Chain of Custody Record

Client Information		Lab PM: Kudchadkar Sachin G		Carrier Tracking No(s):	
Client Contact: Mike Schofield		E-Mail: Sachin.Kudchadkar@Eurofinset.com		State of Origin: TX	
Company: GSI Environmental, Inc		PWSID:		COC No: 860-3614-1220.1	
Address: 9600 Great Hillis Trail Suite 350E		Due Date Requested:		Page: 1 of 1	
City: Austin		TAT Requested (days):		Job #:	
State, Zip: TX, 78759		Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Preservation Codes:	
Phone: 512-346-4474(Tel) 512-346-4476(Fax)		FO #:		A HCL M Hexane B NaOH N None C Zn Acetate O AsNaO2 D Nitric Acid E NaHSO4 F MeOH G Amchlor H Ascorbic Acid I Ice J DI Water K EDTA L EDA Other:	
Email: mischofield@gsi-net.com		WO #:		T TSP Dodecahydrate U Acetone V MCAA W pH 4-5 Z other (specify)	
Project Name: San Miguel Electrical Co-Op GW Ltd Resample Nov 22		Project #: 86001746		Special Instructions/Note:	
Site: Ash Pile		SSOW#:			

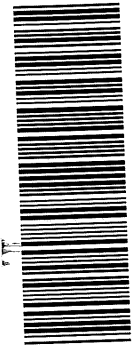
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Residue, Swab, Dross, etc.)	Analysis Requested	Special Instructions/Note
SP-32	11/2/22	1140	G	Water		
SP-34	↓	1055	G	Water		
 860-36228 Chain of Custody				Water		
				Water		
				Water		
				Water		
				Water		
				Water		
				Water		
				Water		
				Water		
				Water		

Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological	
Deliverable Requested I II III IV Other (specify)	
Empty Kit Relinquished by	
Relinquished by: <i>[Signature]</i>	Date/Time: 11/3/22 823
Relinquished by:	Date/Time:
Relinquished by:	Date/Time:
Custody Seals Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Custody Seal No.

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"/> Archive For _____ Months	
Special Instructions/QC Requirements:	
Method of Shipment: _____ Date/Time: _____ Date/Time: _____ Date/Time: _____	




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860-36228 Waybill

FedEx Ship Manager - Print Your Label(s)

PO REF DEPT



FedEx
Express
E

TRK#
0201 7704 1001 4883

SATURDAY 12:00P
PRIORITY OVERNIGHT

X0 AGCA

15238
PIT


PA-US

Uncorrected temp
Thermometer ID

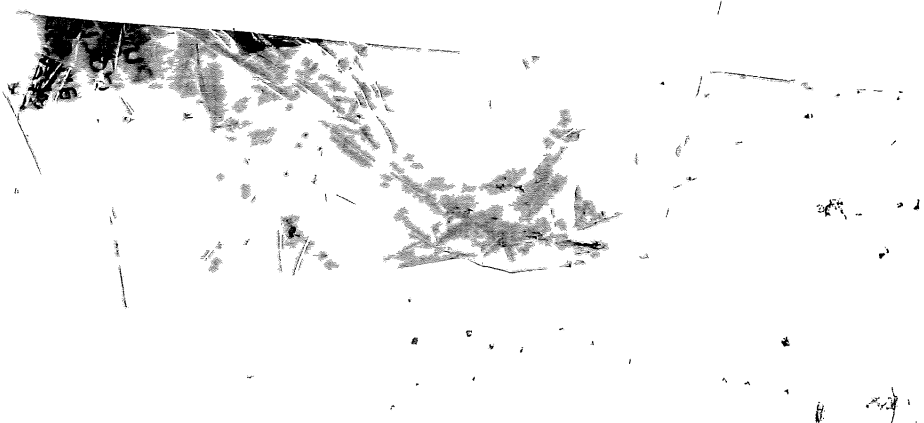
CF CF Initials BL

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

20.8 C
20



11/14/22, 4:34 PM

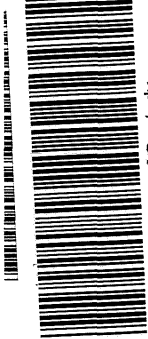


Eurofins Houston
 4145 Greenbriar Dr
 Stafford, TX 77477
 Phone: 281-240-4200

Mex 169

Chain of Custody Record

ofins | Environment Testing



Client Information (Sub Contract Lab)
 Client Contact: Shipping/Receiving
 Lab PM: Kudehadkar, Sachin G
 E-Mail: Sachin.Kudehadkar@et.eu

Company: Eurofins Environment Testing Northeast
 Address: 301 Alpha Drive, RIDC Park, Pittsburgh, PA, 15238
 Phone: 412-963-7058(Tel) 412-963-2468(Fax)
 Project Name: San Miguel Electrical Co-Op 2H21 GW
 Site: SSOV#

Due Date Requested: 11/10/2022
 TAT Requested (days):
 PO #:
 WO #:
 Project #: 86001746
 Accreditations Required (See NELAP - Texas)

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=oil, T=tissue, A=air)	Field Filtered Sample (Yes or No)	Perform M/MSD (Yes or No)	6020A/3005A (MOD) Copy Analyses	Total Number of Containers	Special Instructions/Note:
SP-32 (860-36228-1)	11/2/22	11:40 Central		Water	X	X		1	
SP-34 (860-36228-2)	11/2/22	10:55 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 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
 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	Company	Method of Shipment:
Relinquished by: <i>Sachin Kudehadkar</i>	11/4/22 1900	Eurofins	Received by: <i>DW</i>
Relinquished by:			Date/Time: 11-5-22
Relinquished by:			Date/Time: 9:20
Relinquished by:			Date/Time:

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: 860-36228-1

Login Number: 36228

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: 860-36228-1

Login Number: 36228

List Number: 2

Creator: Watson, Debbie

List Source: Eurofins Pittsburgh

List Creation: 11/05/22 05:40 PM

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



DATA USABILITY SUMMARY

December 2022 Resampling Event (Job ID: 860-38389-1)

OVERVIEW

GSI Environmental Inc. (GSI) reviewed one data package from Eurofins Houston located in Stafford, Texas (EET HOU) for the analysis of **one groundwater samples collected at the Ash Pile on 02 December 2022** 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: T104704215-22-47) for the matrices, analytes, and methods of analysis requested on the chain-of-custody documentation. A copy of EET HOU's 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. Analyses requested included:

- Method 6020A - Metals (Inductively Coupled Plasma (ICP)/Mass Spectrometry)

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

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

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

INTRODUCTION

One (1) water sample was 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.

- Sample SP-32 by Method 6020A was diluted 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 issues with calibration were noted in the LCN or during review of the data package.

Finding: No qualifiers were added per this evaluation.

Blanks

Method (Laboratory) Blanks

No issues with the method blanks were noted in the LCN or during review of this data package.

Finding: No qualifiers were added per this evaluation.

Internal Standard and Surrogate Recoveries (VOCs and SVOCs Only)

Not applicable.

Laboratory Control Samples

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

Finding: No qualifiers were added per this evaluation.

Matrix Spike/Matrix Spike Duplicates and Laboratory Duplicates

No issues with matrix spike (MS)/matrix spike duplicate (MSD) data were noted in the LCN or during review of this data package.

Findings: No qualifiers were added per this evaluation.

Field Duplicates (Field Precision)

No field duplicates were collected with samples from this data package.

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
12/02/2022	EET HOU	860-38389-1	SP-32	Water

Notes:

1. EET HOU: Eurofins Houston, Stafford, Texas

Attachment A

Eurofins Houston – Stafford, Texas

TCEQ NELAP-Recognized Laboratory Accreditation Certificate



Texas Commission on Environmental Quality

NELAP-Recognized Laboratory Accreditation is hereby awarded to



DHL Analytical, Inc.
2300 Double Creek Drive
Round Rock, TX 78664-3801

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: T104704211-22-28
Effective Date: 5/1/2022
Expiration Date: 4/30/2023

**Executive Director Texas Commission on
Environmental Quality**

Attachment B

Eurofins Houston – Stafford, Texas

Analytical Report

Job ID.: 860-38389-1



ANALYTICAL REPORT

PREPARED FOR

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

Generated 12/9/2022 6:28:04 PM

JOB DESCRIPTION

San Miguel Electrical Co-Op

JOB NUMBER

860-38389-1

Eurofins Houston

Job Notes

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

Authorization



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



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Method Summary	12
Sample Summary	13
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Definitions/Glossary

Client: GSI Environmental, Inc
Project/Site: San Miguel Electrical Co-Op

Job ID: 860-38389-1

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/Site: San Miguel Electrical Co-Op

Job ID: 860-38389-1

Job ID: 860-38389-1

Laboratory: Eurofins Houston

Narrative

Job Narrative
860-38389-1

Receipt

The sample was received on 12/2/2022 1:18 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.8°C

Metals

Method 6020A: The following sample was diluted to bring the concentration of target analytes within the calibration range: SP-32 (860-38389-1). 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

Job ID: 860-38389-1

Client Sample ID: SP-32

Lab Sample ID: 860-38389-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	8.00		1.00	0.401	mg/L	100		6020A	Total/NA

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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

Job ID: 860-38389-1

Client Sample ID: SP-32
Date Collected: 12/02/22 09:00
Date Received: 12/02/22 13:18

Lab Sample ID: 860-38389-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	8.00		1.00	0.401	mg/L		12/09/22 12:52	12/09/22 15:30	100

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QC Sample Results

Client: GSI Environmental, Inc
 Project/Site: San Miguel Electrical Co-Op

Job ID: 860-38389-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 860-81102/1-A
Matrix: Water
Analysis Batch: 81257

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 81102

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.00401	U	0.0100	0.00401	mg/L		12/09/22 09:12	12/09/22 14:44	1

Lab Sample ID: LCS 860-81102/2-A
Matrix: Water
Analysis Batch: 81257

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 81102

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	0.100	0.09050		mg/L		91	80 - 120

Lab Sample ID: LCSD 860-81102/3-A
Matrix: Water
Analysis Batch: 81257

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 81102

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	0.100	0.09006		mg/L		90	80 - 120	0	20

QC Association Summary

Client: GSI Environmental, Inc
Project/Site: San Miguel Electrical Co-Op

Job ID: 860-38389-1

Metals

Prep Batch: 81102

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-38389-1	SP-32	Total/NA	Water	3010A	
MB 860-81102/1-A	Method Blank	Total/NA	Water	3010A	
LCS 860-81102/2-A	Lab Control Sample	Total/NA	Water	3010A	
LCSD 860-81102/3-A	Lab Control Sample Dup	Total/NA	Water	3010A	

Analysis Batch: 81257

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-38389-1	SP-32	Total/NA	Water	6020A	81102
MB 860-81102/1-A	Method Blank	Total/NA	Water	6020A	81102
LCS 860-81102/2-A	Lab Control Sample	Total/NA	Water	6020A	81102
LCSD 860-81102/3-A	Lab Control Sample Dup	Total/NA	Water	6020A	81102

Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: San Miguel Electrical Co-Op

Job ID: 860-38389-1

Client Sample ID: SP-32
Date Collected: 12/02/22 09:00
Date Received: 12/02/22 13:18

Lab Sample ID: 860-38389-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			50 mL	50 mL	81102	12/09/22 12:52	AGR	EET HOU
Total/NA	Analysis	6020A		100			81257	12/09/22 15:30	DP	EET HOU

Laboratory References:

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

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Accreditation/Certification Summary

Client: GSI Environmental, Inc
Project/Site: San Miguel Electrical Co-Op

Job ID: 860-38389-1

Laboratory: Eurofins Houston

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215-22-47	06-30-23

- 1
- 2
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Method Summary

Client: GSI Environmental, Inc
Project/Site: San Miguel Electrical Co-Op

Job ID: 860-38389-1

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

Job ID: 860-38389-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-38389-1	SP-32	Water	12/02/22 09:00	12/02/22 13:18

- 1
- 2
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- 12
- 13
- 14

Login Sample Receipt Checklist

Client: GSI Environmental, Inc

Job Number: 860-38389-1

Login Number: 38389
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	2.8
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	

2022 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*
Toby Baker, *Executive Director*



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

April 22, 2021

Mr. John DuPont
DHL Analytical, Inc.
2300 Double Creek Drive
Round Rock, TX 78664-3801

Subject: Accreditation renewal

Dear Mr. DuPont:

I am pleased to advise you the Texas Commission on Environmental Quality is renewing your laboratory's NELAP accreditation. The accreditation is valid until the expiration date on the certificate and scope, contingent on continued compliance with the standards for accreditation and requirements of the state of Texas.

I am enclosing an accreditation certificate and listing of your laboratory's fields of accreditation. Please review the enclosures for accuracy and completeness.

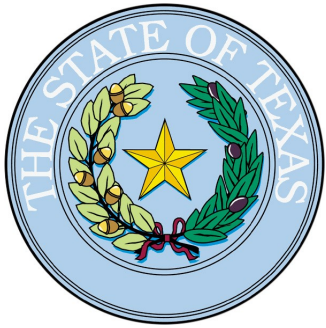
Please contact me by electronic-mail at frank.jamison@tceq.texas.gov if I can provide any additional information or assistance.

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



DHL Analytical, Inc.
2300 Double Creek Drive
Round Rock, TX 78664-3801

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: T104704211-21-27
Effective Date: 5/1/2021
Expiration Date: 4/30/2022

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

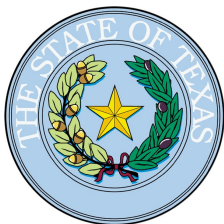
DHL Analytical, Inc.
2300 Double Creek Drive
Round Rock, TX 78664-3801

Certificate: T104704211-21-27
Expiration Date: 4/30/2022
Issue Date: 5/1/2021

These fields of accreditation supercede all previous fields. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current accreditation status for particular methods and analyses.

Matrix: *Non-Potable Water*

Method EPA 1010			
Analyte Ignitability	AB TX	Analyte ID 1780	Method ID 10116606
Method EPA 120.1			
Analyte Conductivity	AB TX	Analyte ID 1610	Method ID 10006403
Method EPA 1311			
Analyte TCLP	AB TX	Analyte ID 849	Method ID 10118806
Method EPA 1312			
Analyte SPLP	AB TX	Analyte ID 850	Method ID 10119003
Method EPA 150.1			
Analyte pH	AB TX	Analyte ID 1900	Method ID 10008409
Method EPA 160.1			
Analyte Residue-filterable (TDS)	AB TX	Analyte ID 1955	Method ID 10009208
Method EPA 160.2			
Analyte Residue-nonfilterable (TSS)	AB TX	Analyte ID 1960	Method ID 10009606
Method EPA 1664			
Analyte n-Hexane Extractable Material (HEM) (O&G)	AB TX	Analyte ID 1803	Method ID 10127807
Method EPA 180.1			
Analyte Turbidity	AB TX	Analyte ID 2055	Method ID 10011606
Method EPA 200.8			
Analyte Aluminum	AB TX	Analyte ID 1000	Method ID 10014605
Analyte Antimony	AB TX	Analyte ID 1005	Method ID 10014605
Analyte Arsenic	AB TX	Analyte ID 1010	Method ID 10014605



Texas Commission on Environmental Quality



NELAP - Recognized Laboratory Fields of Accreditation

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Matrix: *Non-Potable Water*

Barium	TX	1015	10014605
Beryllium	TX	1020	10014605
Boron	TX	1025	10014605
Cadmium	TX	1030	10014605
Calcium	TX	1035	10014605
Chromium	TX	1040	10014605
Cobalt	TX	1050	10014605
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
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



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Matrix: *Non-Potable Water*

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 305.1			
Analyte	AB	Analyte ID	Method ID
Acidity, as CaCO ₃	TX	1500	10054203
Method EPA 310.1			
Analyte	AB	Analyte ID	Method ID
Alkalinity as CaCO ₃	TX	1505	10054805
Method EPA 335.1			
Analyte	AB	Analyte ID	Method ID
Amenable cyanide	TX	1510	10060001
Method EPA 335.2			
Analyte	AB	Analyte ID	Method ID
Total cyanide	TX	1645	10278203
Method EPA 365.2			
Analyte	AB	Analyte ID	Method ID
Orthophosphate as P	TX	1870	10070403
Phosphorus	TX	1910	10070403
Method EPA 376.2			
Analyte	AB	Analyte ID	Method ID
Sulfide	TX	2005	10074609
Method EPA 415.1			
Analyte	AB	Analyte ID	Method ID
Total Organic Carbon (TOC)	TX	2040	10078407
Method EPA 6020			
Analyte	AB	Analyte ID	Method ID
Aluminum	TX	1000	10156204
Antimony	TX	1005	10156204



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Matrix: Non-Potable Water

Arsenic	TX	1010	10156204
Barium	TX	1015	10156204
Beryllium	TX	1020	10156204
Boron	TX	1025	10156204
Cadmium	TX	1030	10156204
Calcium	TX	1035	10156204
Chromium	TX	1040	10156204
Cobalt	TX	1050	10156204
Copper	TX	1055	10156204
Iron	TX	1070	10156204
Lead	TX	1075	10156204
Lithium	TX	1080	10156204
Magnesium	TX	1085	10156204
Manganese	TX	1090	10156204
Molybdenum	TX	1100	10156204
Nickel	TX	1105	10156204
Potassium	TX	1125	10156204
Selenium	TX	1140	10156204
Silver	TX	1150	10156204
Sodium	TX	1155	10156204
Strontium	TX	1160	10156204
Thallium	TX	1165	10156204
Tin	TX	1175	10156204
Titanium	TX	1180	10156204
Vanadium	TX	1185	10156204
Zinc	TX	1190	10156204

Method EPA 608.3

Analyte	AB	Analyte ID	Method ID
Aroclor-1016 (PCB-1016)	TX	8880	10296625
Aroclor-1221 (PCB-1221)	TX	8885	10296625



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Matrix: Non-Potable Water

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

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



Texas Commission on Environmental Quality



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Issue Date: 5/1/2021

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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
Naphthalene	TX	5005	10298121
o-Xylene	TX	5250	10298121
Tetrachloroethylene (Perchloroethylene)	TX	5115	10298121
Toluene	TX	5140	10298121
Total trihalomethanes	TX	5205	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



Texas Commission on Environmental Quality



NELAP - Recognized Laboratory Fields of Accreditation

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 Round Rock, TX 78664-3801

Certificate: T104704211-21-27
 Expiration Date: 4/30/2022
 Issue Date: 5/1/2021

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

2,4,5-Trichlorophenol	TX	6835	10300024
2,4,6-Trichlorophenol	TX	6840	10300024
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



Texas Commission on Environmental Quality



NELAP - Recognized Laboratory Fields of Accreditation

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 Round Rock, TX 78664-3801

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 Issue Date: 5/1/2021

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

Aroclor-1242 (PCB-1242)	TX	8895	10300024
Aroclor-1248 (PCB-1248)	TX	8900	10300024
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



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NELAP - Recognized Laboratory Fields of Accreditation

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Issue Date: 5/1/2021

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Matrix: Non-Potable Water

gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	TX	7120	10300024
gamma-Chlordane	TX	7245	10300024
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 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 8015

Analyte	AB	Analyte ID	Method ID
Diesel range organics (DRO)	TX	9369	10173203
Ethylene glycol	TX	4785	10173203
Gasoline range organics (GRO)	TX	9408	10173203
Propylene Glycol	TX	6657	10173203

Method EPA 8082

Analyte	AB	Analyte ID	Method ID
Aroclor-1016 (PCB-1016)	TX	8880	10179007
Aroclor-1221 (PCB-1221)	TX	8885	10179007
Aroclor-1232 (PCB-1232)	TX	8890	10179007
Aroclor-1242 (PCB-1242)	TX	8895	10179007
Aroclor-1248 (PCB-1248)	TX	8900	10179007
Aroclor-1254 (PCB-1254)	TX	8905	10179007
Aroclor-1260 (PCB-1260)	TX	8910	10179007
PCBs (total)	TX	8870	10179007

Method EPA 8260

Analyte	AB	Analyte ID	Method ID
1,1,1,2-Tetrachloroethane	TX	5105	10184802
1,1,1-Trichloroethane	TX	5160	10184802
1,1,2,2-Tetrachloroethane	TX	5110	10184802
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	TX	5195	10184802
1,1,2-Trichloroethane	TX	5165	10184802
1,1-Dichloroethane	TX	4630	10184802
1,1-Dichloroethylene	TX	4640	10184802
1,1-Dichloropropene	TX	4670	10184802
1,2,3-Trichlorobenzene	TX	5150	10184802
1,2,3-Trichloropropane	TX	5180	10184802
1,2,4-Trichlorobenzene	TX	5155	10184802
1,2,4-Trimethylbenzene	TX	5210	10184802
1,2-Dibromo-3-chloropropane (DBCP)	TX	4570	10184802



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Matrix: *Non-Potable Water*

1,2-Dibromoethane (EDB, Ethylene dibromide)	TX	4585	10184802
1,2-Dichlorobenzene	TX	4610	10184802
1,2-Dichloroethane (Ethylene dichloride)	TX	4635	10184802
1,2-Dichloropropane	TX	4655	10184802
1,3,5-Trimethylbenzene	TX	5215	10184802
1,3-Dichlorobenzene	TX	4615	10184802
1,3-Dichloropropane	TX	4660	10184802
1,4-Dichlorobenzene	TX	4620	10184802
1-Chlorohexane	TX	4510	10184802
2,2-Dichloropropane	TX	4665	10184802
2-Butanone (Methyl ethyl ketone, MEK)	TX	4410	10184802
2-Chloroethyl vinyl ether	TX	4500	10184802
2-Chlorotoluene	TX	4535	10184802
2-Hexanone (MBK)	TX	4860	10184802
4-Chlorotoluene	TX	4540	10184802
4-Isopropyltoluene (p-Cymene)	TX	4915	10184802
4-Methyl-2-pentanone (MIBK)	TX	4995	10184802
Acetone (2-Propanone)	TX	4315	10184802
Acrolein (Propenal)	TX	4325	10184802
Acrylonitrile	TX	4340	10184802
Benzene	TX	4375	10184802
Bromobenzene	TX	4385	10184802
Bromochloromethane	TX	4390	10184802
Bromodichloromethane	TX	4395	10184802
Bromoform	TX	4400	10184802
Carbon disulfide	TX	4450	10184802
Carbon tetrachloride	TX	4455	10184802
Chlorobenzene	TX	4475	10184802
Chlorodibromomethane	TX	4575	10184802
Chloroethane (Ethyl chloride)	TX	4485	10184802



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Matrix: Non-Potable Water

Chloroform	TX	4505	10184802
cis-1,2-Dichloroethylene	TX	4645	10184802
cis-1,3-Dichloropropene	TX	4680	10184802
Dibromomethane (Methylene bromide)	TX	4595	10184802
Dichlorodifluoromethane (Freon-12)	TX	4625	10184802
Di-isopropylether (DIPE)	TX	9375	10184802
Ethylbenzene	TX	4765	10184802
Ethyl-t-butylether (ETBE) (2-Ethoxy-2-methylpropane)	TX	4770	10184802
Hexachlorobutadiene	TX	4835	10184802
Iodomethane (Methyl iodide)	TX	4870	10184802
Isopropylbenzene (Cumene)	TX	4900	10184802
m+p-xylene	TX	5240	10184802
Methyl acetate	TX	4940	10184802
Methyl bromide (Bromomethane)	TX	4950	10184802
Methyl chloride (Chloromethane)	TX	4960	10184802
Methyl tert-butyl ether (MTBE)	TX	5000	10184802
Methylcyclohexane	TX	4965	10184802
Methylene chloride (Dichloromethane)	TX	4975	10184802
Naphthalene	TX	5005	10184802
n-Butylbenzene	TX	4435	10184802
n-Propylbenzene	TX	5090	10184802
o-Xylene	TX	5250	10184802
sec-Butylbenzene	TX	4440	10184802
Styrene	TX	5100	10184802
T-amylmethylether (TAME)	TX	4370	10184802
tert-Butyl alcohol	TX	4420	10184802
tert-Butylbenzene	TX	4445	10184802
Tetrachloroethylene (Perchloroethylene)	TX	5115	10184802
Toluene	TX	5140	10184802
Total trihalomethanes	TX	5205	10184802



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Matrix: Non-Potable Water

trans-1,2-Dichloroethylene	TX	4700	10184802
trans-1,3-Dichloropropylene	TX	4685	10184802
trans-1,4-Dichloro-2-butene	TX	4605	10184802
Trichloroethene (Trichloroethylene)	TX	5170	10184802
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	TX	5175	10184802
Vinyl acetate	TX	5225	10184802
Vinyl chloride	TX	5235	10184802
Xylene (total)	TX	5260	10184802

Method EPA 8270

Analyte	AB	Analyte ID	Method ID
1,2,4,5-Tetrachlorobenzene	TX	6715	10185805
1,2,4-Trichlorobenzene	TX	5155	10185805
1,2-Dichlorobenzene	TX	4610	10185805
1,2-Diphenylhydrazine	TX	6220	10185805
1,3-Dichlorobenzene	TX	4615	10185805
1,4-Dichlorobenzene	TX	4620	10185805
1-Naphthylamine	TX	6425	10185805
2,2'-Oxybis(1-chloropropane) (bis(2-Chloro-1-methylethyl)ether)	TX	4659	10185805
2,3,4,6-Tetrachlorophenol	TX	6735	10185805
2,4,5-Trichlorophenol	TX	6835	10185805
2,4,6-Trichlorophenol	TX	6840	10185805
2,4-Dichlorophenol	TX	6000	10185805
2,4-Dimethylphenol	TX	6130	10185805
2,4-Dinitrophenol	TX	6175	10185805
2,4-Dinitrotoluene (2,4-DNT)	TX	6185	10185805
2,6-Dichlorophenol	TX	6005	10185805
2,6-Dinitrotoluene (2,6-DNT)	TX	6190	10185805
2-Chloronaphthalene	TX	5795	10185805
2-Chlorophenol	TX	5800	10185805
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	TX	6360	10185805



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Matrix: Non-Potable Water

2-Methylnaphthalene	TX	6385	10185805
2-Methylphenol (o-Cresol)	TX	6400	10185805
2-Naphthylamine	TX	6430	10185805
2-Nitroaniline	TX	6460	10185805
2-Nitrophenol	TX	6490	10185805
2-Picoline (2-Methylpyridine)	TX	5050	10185805
3,3'-Dichlorobenzidine	TX	5945	10185805
3-Methylcholanthrene	TX	6355	10185805
3-Nitroaniline	TX	6465	10185805
4,4'-DDD	TX	7355	10185805
4,4'-DDE	TX	7360	10186002
4,4'-DDT	TX	7365	10185805
4-Aminobiphenyl	TX	5540	10185805
4-Bromophenyl phenyl ether (BDE-3)	TX	5660	10185805
4-Chloro-3-methylphenol	TX	5700	10185805
4-Chloroaniline	TX	5745	10185805
4-Chlorophenyl phenylether	TX	5825	10185805
4-Dimethyl aminoazobenzene	TX	6105	10185805
4-Methylphenol (p-Cresol)	TX	6410	10185805
4-Nitroaniline	TX	6470	10185805
4-Nitrophenol	TX	6500	10185805
7,12-Dimethylbenz(a) anthracene	TX	6115	10185805
a-a-Dimethylphenethylamine	TX	6125	10185805
Acenaphthene	TX	5500	10185805
Acenaphthylene	TX	5505	10185805
Acetophenone	TX	5510	10185805
Aldrin	TX	7025	10186002
alpha-BHC (alpha-Hexachlorocyclohexane)	TX	7110	10186002
alpha-Chlordane	TX	7240	10185601
Aniline	TX	5545	10185805



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Matrix: *Non-Potable Water*

Anthracene	TX	5555	10185805
Aroclor-1016 (PCB-1016)	TX	8880	10186002
Aroclor-1221 (PCB-1221)	TX	8885	10185203
Aroclor-1232 (PCB-1232)	TX	8890	10185407
Aroclor-1242 (PCB-1242)	TX	8895	10185203
Aroclor-1248 (PCB-1248)	TX	8900	10186002
Aroclor-1254 (PCB-1254)	TX	8905	10185601
Aroclor-1260 (PCB-1260)	TX	8910	10185203
Atrazine	TX	7065	10185805
Azinphos-methyl (Guthion)	TX	7075	10185805
Benzidine	TX	5595	10185805
Benzo(a)anthracene	TX	5575	10185805
Benzo(a)pyrene	TX	5580	10185805
Benzo(b)fluoranthene	TX	5585	10185805
Benzo(e)pyrene	TX	5605	10185805
Benzo(g,h,i)perylene	TX	5590	10185805
Benzo(k)fluoranthene	TX	5600	10185805
Benzoic acid	TX	5610	10185805
Benzyl alcohol	TX	5630	10185805
beta-BHC (beta-Hexachlorocyclohexane)	TX	7115	10185203
Biphenyl	TX	5640	10185805
bis(2-Chloroethoxy)methane	TX	5760	10185805
bis(2-Chloroethyl) ether	TX	5765	10185805
bis(2-Ethylhexyl) phthalate (Di(2-Ethylhexyl) phthalate, DEHP)	TX	6065	10185805
Butyl benzyl phthalate	TX	5670	10185805
Caprolactam	TX	7180	10185805
Carbaryl (Sevin)	TX	7195	10185407
Carbazole	TX	5680	10185805
Carbophenothion	TX	7220	10185407
Chlordane (tech.)	TX	7250	10185203



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Matrix: Non-Potable Water

Chlorfenvinphos	TX	7255	10185805
Chrysene	TX	5855	10185805
Coumaphos	TX	7315	10186002
Crotoxyphos	TX	7330	10185407
delta-BHC (delta-Hexachlorocyclohexane)	TX	7105	10185805
Demeton	TX	7390	10185407
Demeton-o	TX	7395	10185203
Demeton-s	TX	7385	10185601
Dibenz(a,h) anthracene	TX	5895	10185805
Dibenzofuran	TX	5905	10185805
Dichlorovos (DDVP, Dichlorvos)	TX	8610	10186002
Dicrotophos	TX	7465	10185407
Dieldrin	TX	7470	10186002
Diethyl phthalate	TX	6070	10185805
Dimethoate	TX	7475	10185805
Dimethyl phthalate	TX	6135	10185805
Di-n-butyl phthalate	TX	5925	10185805
Di-n-octyl phthalate	TX	6200	10185805
Dioxathion	TX	7495	10185203
Diphenylamine	TX	6205	10185805
Disulfoton	TX	8625	10185601
Endosulfan I	TX	7510	10185805
Endosulfan II	TX	7515	10185203
Endosulfan sulfate	TX	7520	10185601
Endrin	TX	7540	10185203
Endrin aldehyde	TX	7530	10185805
Endrin ketone	TX	7535	10186002
EPN (Phosphonothioic acid, phenyl-, O-ethyl O-(p-nitrophenyl) ester)	TX	7550	10186002
Ethion	TX	7565	10185805
Ethyl methanesulfonate	TX	6260	10185805



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Matrix: Non-Potable Water

Famphur	TX	7580	10185407
Fensulfothion	TX	7600	10185203
Fenthion	TX	7605	10186002
Fluoranthene	TX	6265	10185805
Fluorene	TX	6270	10185805
gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	TX	7120	10185203
gamma-Chlordane	TX	7245	10185203
Heptachlor	TX	7685	10185601
Heptachlor epoxide	TX	7690	10185805
Hexachlorobenzene	TX	6275	10185805
Hexachlorobutadiene	TX	4835	10185805
Hexachlorocyclopentadiene	TX	6285	10185805
Hexachloroethane	TX	4840	10185805
Hexachlorophene	TX	6290	10185805
Indeno(1,2,3-cd) pyrene	TX	6315	10185805
Isodrin	TX	7725	10185407
Isophorone	TX	6320	10185805
Leptophos	TX	7755	10186002
Malathion	TX	7770	10186002
Methoxychlor	TX	7810	10185601
Methyl methanesulfonate	TX	6375	10185805
Methyl parathion (Parathion, methyl)	TX	7825	10185203
Mevinphos	TX	7850	10186002
Monocrotophos	TX	7880	10185203
Naled	TX	7905	10185203
Naphthalene	TX	5005	10185805
Nitrobenzene	TX	5015	10185805
n-Nitrosodiethylamine	TX	6525	10185805
n-Nitrosodimethylamine	TX	6530	10185805
n-Nitrosodi-n-butylamine	TX	5025	10185805



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Matrix: *Non-Potable Water*

n-Nitrosodi-n-propylamine	TX	6545	10185805
n-Nitrosodiphenylamine	TX	6535	10185805
n-Nitrosopiperidine	TX	6560	10185805
Parathion, ethyl	TX	7955	10185805
Pentachlorobenzene	TX	6590	10185805
Pentachloronitrobenzene (PCNB)	TX	6600	10185805
Pentachlorophenol	TX	6605	10185805
Phenacetin	TX	6610	10185805
Phenanthrene	TX	6615	10185805
Phenol	TX	6625	10185805
Phorate	TX	7985	10186002
Phosmet (Imidan)	TX	8000	10186002
Phosphamidon	TX	8005	10185805
Pronamide (Kerb)	TX	6650	10185805
Pyrene	TX	6665	10185805
Pyridine	TX	5095	10185805
Quinoline	TX	6670	10185805
Sulfotepp	TX	8155	10186002
Terbufos	TX	8185	10185805
Tetrachlorvinphos (Stirophos, Gardona)	TX	8197	10186002
Tetraethyl pyrophosphate (TEPP)	TX	8210	10185407
Toxaphene (Chlorinated camphene)	TX	8250	10185203

Method EPA 8321

Analyte	AB	Analyte ID	Method ID
2,4,5-T	TX	8655	10188804
2,4-D	TX	8545	10188804
2,4-DB	TX	8560	10188804
Dalapon	TX	8555	10188804
Dicamba	TX	8595	10188804
Dichloroprop (Dichloroprop, Weedone)	TX	8605	10188804



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Matrix: *Non-Potable Water*

Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	TX	8620	10188804
MCPA	TX	7775	10188804
MCPP	TX	7780	10188804
Silvex (2,4,5-TP)	TX	8650	10188804
Method EPA 9014			
Analyte	AB	Analyte ID	Method ID
Amenable cyanide	TX	1510	10193803
Total cyanide	TX	1645	10193803
Method EPA 9040			
Analyte	AB	Analyte ID	Method ID
pH	TX	1900	10197203
Method EPA 9056			
Analyte	AB	Analyte ID	Method ID
Bromide	TX	1540	10199209
Chloride	TX	1575	10199209
Fluoride	TX	1730	10199209
Nitrate as N	TX	1810	10199209
Nitrate-nitrite	TX	1820	10199209
Nitrite as N	TX	1840	10199209
Sulfate	TX	2000	10199209
Method EPA 9060			
Analyte	AB	Analyte ID	Method ID
Total Organic Carbon (TOC)	TX	2040	10200201
Method EPA 9070			
Analyte	AB	Analyte ID	Method ID
n-Hexane Extractable Material (HEM) (O&G)	TX	1803	10201000
Method EPA RSK 175			
Analyte	AB	Analyte ID	Method ID
Carbon dioxide	TX	3755	10212905
Ethane	TX	4747	10212905
Ethene	TX	4752	10212905



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Matrix: Non-Potable Water

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 SM 2130 B			
Analyte	AB	Analyte ID	Method ID
Turbidity	TX	2055	20048220
Method SM 2310 B (4a)			
Analyte	AB	Analyte ID	Method ID
Acidity, as CaCO ₃	TX	1500	20044615
Method SM 2320 B			
Analyte	AB	Analyte ID	Method ID
Alkalinity as CaCO ₃	TX	1505	20045618
Method SM 2340 B			
Analyte	AB	Analyte ID	Method ID
Total hardness as CaCO ₃	TX	1755	20046611
Method SM 2510 B			
Analyte	AB	Analyte ID	Method ID
Conductivity	TX	1610	20048617
Method SM 2540 C			
Analyte	AB	Analyte ID	Method ID
Residue-filterable (TDS)	TX	1955	20050413
Method SM 2540 D			
Analyte	AB	Analyte ID	Method ID
Residue-nonfilterable (TSS)	TX	1960	20051212
Method SM 2540 F			
Analyte	AB	Analyte ID	Method ID
Residue-settleable	TX	1965	20005009
Method SM 3500-Cr B			
Analyte	AB	Analyte ID	Method ID



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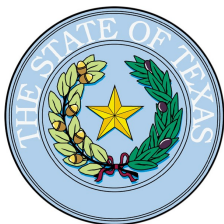
DHL Analytical, Inc.
2300 Double Creek Drive
Round Rock, TX 78664-3801

Certificate: T104704211-21-27
Expiration Date: 4/30/2022
Issue Date: 5/1/2021

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Matrix: Non-Potable Water

Chromium (VI)	TX	1045	20066017
Method SM 4500-CN ⁻ E			
Analyte	AB	Analyte ID	Method ID
Total cyanide	TX	1645	20096428
Method SM 4500-CN ⁻ G			
Analyte	AB	Analyte ID	Method ID
Amenable cyanide	TX	1510	20097227
Method SM 4500-H+ B			
Analyte	AB	Analyte ID	Method ID
pH	TX	1900	20105220
Method SM 4500-NH3 D			
Analyte	AB	Analyte ID	Method ID
Ammonia as N	TX	1515	20109415
Method SM 4500-P E			
Analyte	AB	Analyte ID	Method ID
Orthophosphate as P	TX	1870	20124225
Phosphorus	TX	1910	20124225
Method SM 4500-S2 ⁻ D			
Analyte	AB	Analyte ID	Method ID
Sulfide	TX	2005	20125864
Method SM 5220 D			
Analyte	AB	Analyte ID	Method ID
Chemical oxygen demand (COD)	TX	1565	20136816
Method SM 5310 C			
Analyte	AB	Analyte ID	Method ID
Total Organic Carbon (TOC)	TX	2040	20138823
Method TCEQ 1005			
Analyte	AB	Analyte ID	Method ID
Total Petroleum Hydrocarbons (TPH)	TX	2050	90019208
Method USGS O-2060-01			
Analyte	AB	Analyte ID	Method ID
2,4-D	TX	8545	40019689



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Expiration Date: 4/30/2022

Issue Date: 5/1/2021

Matrix: *Non-Potable Water*

Dicamba

TX

8595

40019689



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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	10116606

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 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
Cadmium	TX	1030	10014605
Calcium	TX	1035	10014605
Chromium	TX	1040	10014605
Cobalt	TX	1050	10014605
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



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Matrix: Solid & Chemical Materials

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
Vanadium	TX	1185	10014605
Zinc	TX	1190	10014605

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 310.1

Analyte	AB	Analyte ID	Method ID
Alkalinity as CaCO3	TX	1505	10054805

Method EPA 350.3

Analyte	AB	Analyte ID	Method ID
Ammonia as N	TX	1515	10064401

Method EPA 365.2

Analyte	AB	Analyte ID	Method ID
Orthophosphate as P	TX	1870	10070403

Method EPA 6020

Analyte	AB	Analyte ID	Method ID
Aluminum	TX	1000	10156204
Antimony	TX	1005	10156204



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Matrix: Solid & Chemical Materials

Arsenic	TX	1010	10156204
Barium	TX	1015	10156204
Beryllium	TX	1020	10156204
Boron	TX	1025	10156204
Cadmium	TX	1030	10156204
Calcium	TX	1035	10156204
Chromium	TX	1040	10156204
Cobalt	TX	1050	10156204
Copper	TX	1055	10156204
Iron	TX	1070	10156204
Lead	TX	1075	10156204
Lithium	TX	1080	10156204
Magnesium	TX	1085	10156204
Manganese	TX	1090	10156204
Molybdenum	TX	1100	10156204
Nickel	TX	1105	10156204
Potassium	TX	1125	10156204
Selenium	TX	1140	10156204
Silver	TX	1150	10156204
Sodium	TX	1155	10156204
Strontium	TX	1160	10156204
Thallium	TX	1165	10156204
Tin	TX	1175	10156204
Titanium	TX	1180	10156204
Vanadium	TX	1185	10156204
Zinc	TX	1190	10156204

Method EPA 7196

Analyte	AB	Analyte ID	Method ID
Chromium (VI)	TX	1045	10162400

Method EPA 7470

Analyte	AB	Analyte ID	Method ID
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Matrix: Solid & Chemical Materials

Mercury	TX	1095	10165807
Method EPA 7471			
Analyte	AB	Analyte ID	Method ID
Mercury	TX	1095	10166208
Method EPA 8015			
Analyte	AB	Analyte ID	Method ID
Diesel range organics (DRO)	TX	9369	10173203
Ethylene glycol	TX	4785	10173203
Gasoline range organics (GRO)	TX	9408	10173203
Propylene Glycol	TX	6657	10173203
Method EPA 8082			
Analyte	AB	Analyte ID	Method ID
Aroclor-1016 (PCB-1016)	TX	8880	10179007
Aroclor-1221 (PCB-1221)	TX	8885	10179007
Aroclor-1232 (PCB-1232)	TX	8890	10179007
Aroclor-1242 (PCB-1242)	TX	8895	10179007
Aroclor-1248 (PCB-1248)	TX	8900	10179007
Aroclor-1254 (PCB-1254)	TX	8905	10179007
Aroclor-1260 (PCB-1260)	TX	8910	10179007
PCBs (total)	TX	8870	10179007
Method EPA 8260			
Analyte	AB	Analyte ID	Method ID
1,1,1,2-Tetrachloroethane	TX	5105	10184802
1,1,1-Trichloroethane	TX	5160	10184802
1,1,2,2-Tetrachloroethane	TX	5110	10184802
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	TX	5195	10184802
1,1,2-Trichloroethane	TX	5165	10184802
1,1-Dichloroethane	TX	4630	10184802
1,1-Dichloroethylene	TX	4640	10184802
1,1-Dichloropropene	TX	4670	10184802
1,2,3-Trichlorobenzene	TX	5150	10184802



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Matrix: Solid & Chemical Materials

1,2,3-Trichloropropane	TX	5180	10184802
1,2,4-Trichlorobenzene	TX	5155	10184802
1,2,4-Trimethylbenzene	TX	5210	10184802
1,2-Dibromo-3-chloropropane (DBCP)	TX	4570	10184802
1,2-Dibromoethane (EDB, Ethylene dibromide)	TX	4585	10184802
1,2-Dichlorobenzene	TX	4610	10184802
1,2-Dichloroethane (Ethylene dichloride)	TX	4635	10184802
1,2-Dichloropropane	TX	4655	10184802
1,3,5-Trimethylbenzene	TX	5215	10184802
1,3-Dichlorobenzene	TX	4615	10184802
1,3-Dichloropropane	TX	4660	10184802
1,4-Dichlorobenzene	TX	4620	10184802
1-Chlorohexane	TX	4510	10184802
2,2-Dichloropropane	TX	4665	10184802
2-Butanone (Methyl ethyl ketone, MEK)	TX	4410	10184802
2-Chloroethyl vinyl ether	TX	4500	10184802
2-Chlorotoluene	TX	4535	10184802
2-Hexanone (MBK)	TX	4860	10184802
4-Chlorotoluene	TX	4540	10184802
4-Isopropyltoluene (p-Cymene)	TX	4915	10184802
4-Methyl-2-pentanone (MIBK)	TX	4995	10184802
Acetone (2-Propanone)	TX	4315	10184802
Acrolein (Propenal)	TX	4325	10184802
Acrylonitrile	TX	4340	10184802
Benzene	TX	4375	10184802
Bromobenzene	TX	4385	10184802
Bromochloromethane	TX	4390	10184802
Bromodichloromethane	TX	4395	10184802
Bromoform	TX	4400	10184802
Carbon disulfide	TX	4450	10184802



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Matrix: Solid & Chemical Materials

Carbon tetrachloride	TX	4455	10184802
Chlorobenzene	TX	4475	10184802
Chlorodibromomethane	TX	4575	10184802
Chloroethane (Ethyl chloride)	TX	4485	10184802
Chloroform	TX	4505	10184802
cis-1,2-Dichloroethylene	TX	4645	10184802
cis-1,3-Dichloropropene	TX	4680	10184802
Dibromomethane (Methylene bromide)	TX	4595	10184802
Dichlorodifluoromethane (Freon-12)	TX	4625	10184802
Ethylbenzene	TX	4765	10184802
Hexachlorobutadiene	TX	4835	10184802
Iodomethane (Methyl iodide)	TX	4870	10184802
Isopropyl alcohol (2-Propanol, Isopropanol)	TX	4895	10184802
Isopropylbenzene (Cumene)	TX	4900	10184802
m+p-xylene	TX	5240	10184802
Methyl acetate	TX	4940	10184802
Methyl bromide (Bromomethane)	TX	4950	10184802
Methyl chloride (Chloromethane)	TX	4960	10184802
Methyl tert-butyl ether (MTBE)	TX	5000	10184802
Methylcyclohexane	TX	4965	10184802
Methylene chloride (Dichloromethane)	TX	4975	10184802
Naphthalene	TX	5005	10184802
n-Butylbenzene	TX	4435	10184802
n-Propylbenzene	TX	5090	10184802
o-Xylene	TX	5250	10184802
sec-Butylbenzene	TX	4440	10184802
Styrene	TX	5100	10184802
tert-Butylbenzene	TX	4445	10184802
Tetrachloroethylene (Perchloroethylene)	TX	5115	10184802
Toluene	TX	5140	10184802



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Matrix: Solid & Chemical Materials

trans-1,2-Dichloroethylene	TX	4700	10184802
trans-1,3-Dichloropropylene	TX	4685	10184802
trans-1,4-Dichloro-2-butene	TX	4605	10184802
Trichloroethene (Trichloroethylene)	TX	5170	10184802
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	TX	5175	10184802
Vinyl acetate	TX	5225	10184802
Vinyl chloride	TX	5235	10184802
Xylene (total)	TX	5260	10184802

Method EPA 8270

Analyte	AB	Analyte ID	Method ID
1,2,4,5-Tetrachlorobenzene	TX	6715	10185805
1,2,4-Trichlorobenzene	TX	5155	10185805
1,2-Dichlorobenzene	TX	4610	10185805
1,2-Diphenylhydrazine	TX	6220	10185805
1,3-Dichlorobenzene	TX	4615	10185805
1,4-Dichlorobenzene	TX	4620	10185805
1-Naphthylamine	TX	6425	10185805
2,2'-Oxybis(1-chloropropane) (bis(2-Chloro-1-methylethyl)ether)	TX	4659	10185805
2,3,4,6-Tetrachlorophenol	TX	6735	10185805
2,4,5-Trichlorophenol	TX	6835	10185805
2,4,6-Trichlorophenol	TX	6840	10185805
2,4-Dichlorophenol	TX	6000	10185805
2,4-Dimethylphenol	TX	6130	10185805
2,4-Dinitrophenol	TX	6175	10185805
2,4-Dinitrotoluene (2,4-DNT)	TX	6185	10185805
2,6-Dichlorophenol	TX	6005	10185805
2,6-Dinitrotoluene (2,6-DNT)	TX	6190	10185805
2-Chloronaphthalene	TX	5795	10185805
2-Chlorophenol	TX	5800	10185805
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	TX	6360	10185805



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Matrix: Solid & Chemical Materials

2-Methylnaphthalene	TX	6385	10185805
2-Methylphenol (o-Cresol)	TX	6400	10185805
2-Naphthylamine	TX	6430	10185805
2-Nitroaniline	TX	6460	10185805
2-Nitrophenol	TX	6490	10185805
2-Picoline (2-Methylpyridine)	TX	5050	10185805
3,3'-Dichlorobenzidine	TX	5945	10185805
3-Methylcholanthrene	TX	6355	10185805
3-Nitroaniline	TX	6465	10185805
4,4'-DDD	TX	7355	10185203
4,4'-DDE	TX	7360	10186002
4,4'-DDT	TX	7365	10185407
4-Aminobiphenyl	TX	5540	10185805
4-Bromophenyl phenyl ether (BDE-3)	TX	5660	10185805
4-Chloro-3-methylphenol	TX	5700	10185805
4-Chloroaniline	TX	5745	10185805
4-Chlorophenyl phenylether	TX	5825	10185805
4-Dimethyl aminoazobenzene	TX	6105	10185805
4-Methylphenol (p-Cresol)	TX	6410	10185805
4-Nitroaniline	TX	6470	10185805
4-Nitrophenol	TX	6500	10185805
7,12-Dimethylbenz(a) anthracene	TX	6115	10185805
a-a-Dimethylphenethylamine	TX	6125	10185805
Acenaphthene	TX	5500	10185805
Acenaphthylene	TX	5505	10185805
Acetophenone	TX	5510	10185805
Aldrin	TX	7025	10186002
alpha-BHC (alpha-Hexachlorocyclohexane)	TX	7110	10185407
alpha-Chlordane	TX	7240	10185805
Aniline	TX	5545	10185805



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Matrix: Solid & Chemical Materials

Anthracene	TX	5555	10185805
Aroclor-1016 (PCB-1016)	TX	8880	10186002
Aroclor-1221 (PCB-1221)	TX	8885	10185805
Aroclor-1232 (PCB-1232)	TX	8890	10185407
Aroclor-1242 (PCB-1242)	TX	8895	10185407
Aroclor-1248 (PCB-1248)	TX	8900	10185805
Aroclor-1254 (PCB-1254)	TX	8905	10185805
Aroclor-1260 (PCB-1260)	TX	8910	10185407
Atrazine	TX	7065	10185805
Azinphos-methyl (Guthion)	TX	7075	10185203
Benzidine	TX	5595	10185805
Benzo(a)anthracene	TX	5575	10185805
Benzo(a)pyrene	TX	5580	10185805
Benzo(b)fluoranthene	TX	5585	10185805
Benzo(e)pyrene	TX	5605	10185805
Benzo(g,h,i)perylene	TX	5590	10185805
Benzo(k)fluoranthene	TX	5600	10185805
Benzoic acid	TX	5610	10185805
Benzyl alcohol	TX	5630	10185805
beta-BHC (beta-Hexachlorocyclohexane)	TX	7115	10185601
Biphenyl	TX	5640	10185805
bis(2-Chloroethoxy)methane	TX	5760	10185805
bis(2-Chloroethyl) ether	TX	5765	10185805
bis(2-Ethylhexyl) phthalate (Di(2-Ethylhexyl) phthalate, DEHP)	TX	6065	10185805
Butyl benzyl phthalate	TX	5670	10185805
Caprolactam	TX	7180	10185805
Carbaryl (Sevin)	TX	7195	10185601
Carbazole	TX	5680	10185805
Carbophenothion	TX	7220	10185805
Chlordane (tech.)	TX	7250	10185805



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Matrix: Solid & Chemical Materials

Chlorfenvinphos	TX	7255	10185203
Chrysene	TX	5855	10185805
Coumaphos	TX	7315	10185805
Crotoxyphos	TX	7330	10185203
delta-BHC (delta-Hexachlorocyclohexane)	TX	7105	10186002
Demeton	TX	7390	10185805
Demeton-o	TX	7395	10185805
Demeton-s	TX	7385	10185601
Dibenz(a,h) anthracene	TX	5895	10185805
Dibenzofuran	TX	5905	10185805
Dichlorovos (DDVP, Dichlorvos)	TX	8610	10185805
Dicrotophos	TX	7465	10185805
Dieldrin	TX	7470	10185407
Diethyl phthalate	TX	6070	10185805
Dimethoate	TX	7475	10185805
Dimethyl phthalate	TX	6135	10185805
Di-n-butyl phthalate	TX	5925	10185805
Di-n-octyl phthalate	TX	6200	10185805
Dioxathion	TX	7495	10185601
Diphenylamine	TX	6205	10185805
Disulfoton	TX	8625	10185407
Endosulfan I	TX	7510	10185601
Endosulfan II	TX	7515	10185805
Endosulfan sulfate	TX	7520	10186002
Endrin	TX	7540	10185601
Endrin aldehyde	TX	7530	10186002
Endrin ketone	TX	7535	10186002
EPN (Phosphonothioic acid, phenyl-, O-ethyl O-(p-nitrophenyl) ester)	TX	7550	10186002
Ethion	TX	7565	10185203
Ethyl methanesulfonate	TX	6260	10185805



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Matrix: Solid & Chemical Materials

Famphur	TX	7580	10186002
Fensulfothion	TX	7600	10185805
Fenthion	TX	7605	10186002
Fluoranthene	TX	6265	10185805
Fluorene	TX	6270	10185805
gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	TX	7120	10185407
gamma-Chlordane	TX	7245	10185601
Heptachlor	TX	7685	10185601
Heptachlor epoxide	TX	7690	10185203
Hexachlorobenzene	TX	6275	10185805
Hexachlorobutadiene	TX	4835	10185805
Hexachlorocyclopentadiene	TX	6285	10185805
Hexachloroethane	TX	4840	10185805
Hexachlorophene	TX	6290	10185601
Indeno(1,2,3-cd) pyrene	TX	6315	10185805
Isodrin	TX	7725	10185203
Isophorone	TX	6320	10185805
Leptophos	TX	7755	10185407
Malathion	TX	7770	10185601
Methoxychlor	TX	7810	10185203
Methyl methanesulfonate	TX	6375	10185805
Methyl parathion (Parathion, methyl)	TX	7825	10185203
Mevinphos	TX	7850	10185805
Monocrotophos	TX	7880	10185805
Naled	TX	7905	10185805
Naphthalene	TX	5005	10185805
Nitrobenzene	TX	5015	10185805
n-Nitrosodiethylamine	TX	6525	10185805
n-Nitrosodimethylamine	TX	6530	10185805
n-Nitrosodi-n-butylamine	TX	5025	10185805



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Matrix: Solid & Chemical Materials

n-Nitrosodi-n-propylamine	TX	6545	10185805
n-Nitrosodiphenylamine	TX	6535	10185805
n-Nitrosopiperidine	TX	6560	10185805
Parathion, ethyl	TX	7955	10185805
Pentachlorobenzene	TX	6590	10185805
Pentachloronitrobenzene (PCNB)	TX	6600	10185805
Pentachlorophenol	TX	6605	10185805
Phenacetin	TX	6610	10185805
Phenanthrene	TX	6615	10185805
Phenol	TX	6625	10185805
Phorate	TX	7985	10185407
Phosmet (Imidan)	TX	8000	10185203
Phosphamidon	TX	8005	10186002
Pronamide (Kerb)	TX	6650	10185805
Pyrene	TX	6665	10185805
Pyridine	TX	5095	10185805
Quinoline	TX	6670	10185805
Sulfotepp	TX	8155	10185203
Terbufos	TX	8185	10185805
Tetrachlorvinphos (Stirophos, Gardona)	TX	8197	10186002
Tetraethyl pyrophosphate (TEPP)	TX	8210	10185407
Toxaphene (Chlorinated camphene)	TX	8250	10185203

Method EPA 8321

Analyte	AB	Analyte ID	Method ID
2,4,5-T	TX	8655	10188804
2,4-D	TX	8545	10188804
2,4-DB	TX	8560	10188804
Dalapon	TX	8555	10188804
Dicamba	TX	8595	10188804
Dichloroprop (Dichloroprop, Weedone)	TX	8605	10188804



Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation



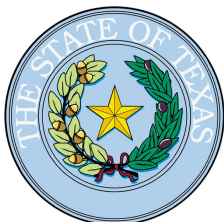
DHL Analytical, Inc.
2300 Double Creek Drive
Round Rock, TX 78664-3801

Certificate: T104704211-21-27
Expiration Date: 4/30/2022
Issue Date: 5/1/2021

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Matrix: Solid & Chemical Materials

Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	TX	8620	10188804
MCPA	TX	7775	10188804
MCPP	TX	7780	10188804
Silvex (2,4,5-TP)	TX	8650	10188804
Method EPA 9014			
Analyte	AB	Analyte ID	Method ID
Amenable cyanide	TX	1510	10193803
Total cyanide	TX	1645	10193803
Method EPA 9040			
Analyte	AB	Analyte ID	Method ID
Corrosivity	TX	1615	10197203
pH	TX	1900	10197203
Method EPA 9045			
Analyte	AB	Analyte ID	Method ID
pH	TX	1900	10198400
Method EPA 9056			
Analyte	AB	Analyte ID	Method ID
Bromide	TX	1540	10199209
Chloride	TX	1575	10199209
Fluoride	TX	1730	10199209
Nitrate as N	TX	1810	10199209
Nitrate-nitrite	TX	1820	10199209
Nitrite as N	TX	1840	10199209
Sulfate	TX	2000	10199209
Method SM 2320 B			
Analyte	AB	Analyte ID	Method ID
Alkalinity as CaCO ₃	TX	1505	20045618
Method SM 2510 B			
Analyte	AB	Analyte ID	Method ID
Conductivity	TX	1610	20048617



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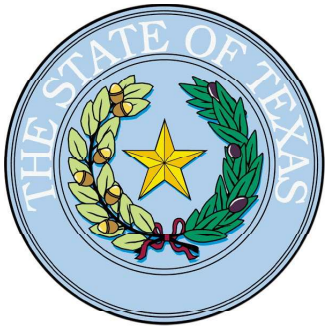
Matrix: Solid & Chemical Materials

Method SSA/ASA Part 3:14

Analyte	AB	Analyte ID	Method ID
Conductivity	TX	1610	60049505

Method TCEQ 1005

Analyte	AB	Analyte ID	Method ID
Total Petroleum Hydrocarbons (TPH)	TX	2050	90019208



Texas Commission on Environmental Quality

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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: T104704211-21-27
Effective Date: 5/1/2021
Expiration Date: 4/30/2022

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

**Executive Director Texas Commission on
Environmental Quality**



Texas Commission on Environmental Quality

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

Certificate Number: T104704211-22-28

Effective Date: 5/1/2022

Expiration Date: 4/30/2023

**Executive Director Texas Commission on
Environmental Quality**



Texas Commission on Environmental Quality



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Certificate: T104704211-22-28
Expiration Date: 4/30/2023
Issue Date: 5/1/2022

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Matrix: *Non-Potable Water*

Method	Analyte	AB	Analyte ID	Method ID
EPA 1010	Ignitability	TX	1780	10116606
EPA 120.1	Conductivity	TX	1610	10006403
EPA 1311	TCLP	TX	849	10118806
EPA 1312	SPLP	TX	850	10119003
EPA 150.1	pH	TX	1900	10008409
EPA 160.1	Residue-filterable (TDS)	TX	1955	10009208
EPA 160.2	Residue-nonfilterable (TSS)	TX	1960	10009606
EPA 1664	n-Hexane Extractable Material (HEM) (O&G)	TX	1803	10127807
EPA 180.1	Turbidity	TX	2055	10011606
EPA 200.8	Aluminum	TX	1000	10014605
	Antimony	TX	1005	10014605
	Arsenic	TX	1010	10014605



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Matrix: Non-Potable Water

Barium	TX	1015	10014605
Beryllium	TX	1020	10014605
Boron	TX	1025	10014605
Cadmium	TX	1030	10014605
Calcium	TX	1035	10014605
Chromium	TX	1040	10014605
Cobalt	TX	1050	10014605
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
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



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Matrix: Non-Potable Water

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 305.1			
Analyte	AB	Analyte ID	Method ID
Acidity, as CaCO ₃	TX	1500	10054203
Method EPA 310.1			
Analyte	AB	Analyte ID	Method ID
Alkalinity as CaCO ₃	TX	1505	10054805
Method EPA 335.1			
Analyte	AB	Analyte ID	Method ID
Amenable cyanide	TX	1510	10060001
Method EPA 335.2			
Analyte	AB	Analyte ID	Method ID
Total cyanide	TX	1645	10278203
Method EPA 365.2			
Analyte	AB	Analyte ID	Method ID
Orthophosphate as P	TX	1870	10070403
Phosphorus	TX	1910	10070403
Method EPA 376.2			
Analyte	AB	Analyte ID	Method ID
Sulfide	TX	2005	10074609
Method EPA 415.1			
Analyte	AB	Analyte ID	Method ID
Total Organic Carbon (TOC)	TX	2040	10078407
Method EPA 6020			
Analyte	AB	Analyte ID	Method ID
Aluminum	TX	1000	10156204
Antimony	TX	1005	10156204



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Matrix: Non-Potable Water

Arsenic	TX	1010	10156204
Barium	TX	1015	10156204
Beryllium	TX	1020	10156204
Boron	TX	1025	10156204
Cadmium	TX	1030	10156204
Calcium	TX	1035	10156204
Chromium	TX	1040	10156204
Cobalt	TX	1050	10156204
Copper	TX	1055	10156204
Iron	TX	1070	10156204
Lead	TX	1075	10156204
Lithium	TX	1080	10156204
Magnesium	TX	1085	10156204
Manganese	TX	1090	10156204
Molybdenum	TX	1100	10156204
Nickel	TX	1105	10156204
Potassium	TX	1125	10156204
Selenium	TX	1140	10156204
Silver	TX	1150	10156204
Sodium	TX	1155	10156204
Strontium	TX	1160	10156204
Thallium	TX	1165	10156204
Tin	TX	1175	10156204
Titanium	TX	1180	10156204
Vanadium	TX	1185	10156204
Zinc	TX	1190	10156204

Method EPA 608.3

Analyte	AB	Analyte ID	Method ID
Aroclor-1016 (PCB-1016)	TX	8880	10296625
Aroclor-1221 (PCB-1221)	TX	8885	10296625



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Matrix: Non-Potable Water

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

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
Naphthalene	TX	5005	10298121
o-Xylene	TX	5250	10298121
Tetrachloroethylene (Perchloroethylene)	TX	5115	10298121
Toluene	TX	5140	10298121
Total trihalomethanes	TX	5205	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



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Matrix: *Non-Potable Water*

2,4,5-Trichlorophenol	TX	6835	10300024
2,4,6-Trichlorophenol	TX	6840	10300024
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



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Matrix: Non-Potable Water

Aroclor-1242 (PCB-1242)	TX	8895	10300024
Aroclor-1248 (PCB-1248)	TX	8900	10300024
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



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Matrix: Non-Potable Water

gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	TX	7120	10300024
gamma-Chlordane	TX	7245	10300024
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 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 8015

Analyte	AB	Analyte ID	Method ID
Diesel range organics (DRO)	TX	9369	10173203
Gasoline range organics (GRO)	TX	9408	10173203

Method EPA 8082

Analyte	AB	Analyte ID	Method ID
Aroclor-1016 (PCB-1016)	TX	8880	10179007
Aroclor-1221 (PCB-1221)	TX	8885	10179007
Aroclor-1232 (PCB-1232)	TX	8890	10179007
Aroclor-1242 (PCB-1242)	TX	8895	10179007
Aroclor-1248 (PCB-1248)	TX	8900	10179007
Aroclor-1254 (PCB-1254)	TX	8905	10179007
Aroclor-1260 (PCB-1260)	TX	8910	10179007
PCBs (total)	TX	8870	10179007

Method EPA 8260

Analyte	AB	Analyte ID	Method ID
1,1,1,2-Tetrachloroethane	TX	5105	10184802
1,1,1-Trichloroethane	TX	5160	10184802
1,1,2,2-Tetrachloroethane	TX	5110	10184802
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	TX	5195	10184802
1,1,2-Trichloroethane	TX	5165	10184802
1,1-Dichloroethane	TX	4630	10184802
1,1-Dichloroethylene	TX	4640	10184802
1,1-Dichloropropene	TX	4670	10184802
1,2,3-Trichlorobenzene	TX	5150	10184802
1,2,3-Trichloropropane	TX	5180	10184802
1,2,4-Trichlorobenzene	TX	5155	10184802
1,2,4-Trimethylbenzene	TX	5210	10184802
1,2-Dibromo-3-chloropropane (DBCP)	TX	4570	10184802
1,2-Dibromoethane (EDB, Ethylene dibromide)	TX	4585	10184802
1,2-Dichlorobenzene	TX	4610	10184802



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NELAP - Recognized Laboratory Fields of Accreditation

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Certificate: T104704211-22-28
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 Issue Date: 5/1/2022

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Matrix: Non-Potable Water

1,2-Dichloroethane (Ethylene dichloride)	TX	4635	10184802
1,2-Dichloropropane	TX	4655	10184802
1,3,5-Trimethylbenzene	TX	5215	10184802
1,3-Dichlorobenzene	TX	4615	10184802
1,3-Dichloropropane	TX	4660	10184802
1,4-Dichlorobenzene	TX	4620	10184802
1-Chlorohexane	TX	4510	10184802
2,2-Dichloropropane	TX	4665	10184802
2-Butanone (Methyl ethyl ketone, MEK)	TX	4410	10184802
2-Chloroethyl vinyl ether	TX	4500	10184802
2-Chlorotoluene	TX	4535	10184802
2-Hexanone (MBK)	TX	4860	10184802
4-Chlorotoluene	TX	4540	10184802
4-Isopropyltoluene (p-Cymene)	TX	4915	10184802
4-Methyl-2-pentanone (MIBK)	TX	4995	10184802
Acetone (2-Propanone)	TX	4315	10184802
Acrolein (Propenal)	TX	4325	10184802
Acrylonitrile	TX	4340	10184802
Benzene	TX	4375	10184802
Bromobenzene	TX	4385	10184802
Bromochloromethane	TX	4390	10184802
Bromodichloromethane	TX	4395	10184802
Bromoform	TX	4400	10184802
Carbon disulfide	TX	4450	10184802
Carbon tetrachloride	TX	4455	10184802
Chlorobenzene	TX	4475	10184802
Chlorodibromomethane	TX	4575	10184802
Chloroethane (Ethyl chloride)	TX	4485	10184802
Chloroform	TX	4505	10184802
cis-1,2-Dichloroethylene	TX	4645	10184802



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Matrix: Non-Potable Water

cis-1,3-Dichloropropene	TX	4680	10184802
Dibromomethane (Methylene bromide)	TX	4595	10184802
Dichlorodifluoromethane (Freon-12)	TX	4625	10184802
Di-isopropylether (DIPE)	TX	9375	10184802
Ethylbenzene	TX	4765	10184802
Ethyl-t-butylether (ETBE) (2-Ethoxy-2-methylpropane)	TX	4770	10184802
Hexachlorobutadiene	TX	4835	10184802
Iodomethane (Methyl iodide)	TX	4870	10184802
Isopropylbenzene (Cumene)	TX	4900	10184802
m+p-xylene	TX	5240	10184802
Methyl acetate	TX	4940	10184802
Methyl bromide (Bromomethane)	TX	4950	10184802
Methyl chloride (Chloromethane)	TX	4960	10184802
Methyl tert-butyl ether (MTBE)	TX	5000	10184802
Methylcyclohexane	TX	4965	10184802
Methylene chloride (Dichloromethane)	TX	4975	10184802
Naphthalene	TX	5005	10184802
n-Butylbenzene	TX	4435	10184802
n-Propylbenzene	TX	5090	10184802
o-Xylene	TX	5250	10184802
sec-Butylbenzene	TX	4440	10184802
Styrene	TX	5100	10184802
T-amylmethylether (TAME)	TX	4370	10184802
tert-Butyl alcohol	TX	4420	10184802
tert-Butylbenzene	TX	4445	10184802
Tetrachloroethylene (Perchloroethylene)	TX	5115	10184802
Toluene	TX	5140	10184802
Total trihalomethanes	TX	5205	10184802
trans-1,2-Dichloroethylene	TX	4700	10184802
trans-1,3-Dichloropropylene	TX	4685	10184802



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Matrix: Non-Potable Water

trans-1,4-Dichloro-2-butene	TX	4605	10184802
Trichloroethene (Trichloroethylene)	TX	5170	10184802
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	TX	5175	10184802
Vinyl acetate	TX	5225	10184802
Vinyl chloride	TX	5235	10184802
Xylene (total)	TX	5260	10184802

Method EPA 8270

Analyte	AB	Analyte ID	Method ID
1,2,4,5-Tetrachlorobenzene	TX	6715	10185805
1,2,4-Trichlorobenzene	TX	5155	10185805
1,2-Dichlorobenzene	TX	4610	10185805
1,2-Diphenylhydrazine	TX	6220	10185805
1,3-Dichlorobenzene	TX	4615	10185805
1,4-Dichlorobenzene	TX	4620	10185805
1-Naphthylamine	TX	6425	10185805
2,2'-Oxybis(1-chloropropane) (bis(2-Chloro-1-methylethyl)ether)	TX	4659	10185805
2,3,4,6-Tetrachlorophenol	TX	6735	10185805
2,4,5-Trichlorophenol	TX	6835	10185805
2,4,6-Trichlorophenol	TX	6840	10185805
2,4-Dichlorophenol	TX	6000	10185805
2,4-Dimethylphenol	TX	6130	10185805
2,4-Dinitrophenol	TX	6175	10185805
2,4-Dinitrotoluene (2,4-DNT)	TX	6185	10185805
2,6-Dichlorophenol	TX	6005	10185805
2,6-Dinitrotoluene (2,6-DNT)	TX	6190	10185805
2-Chloronaphthalene	TX	5795	10185805
2-Chlorophenol	TX	5800	10185805
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	TX	6360	10185805
2-Methylnaphthalene	TX	6385	10185805
2-Methylphenol (o-Cresol)	TX	6400	10185805



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Matrix: Non-Potable Water

2-Naphthylamine	TX	6430	10185805
2-Nitroaniline	TX	6460	10185805
2-Nitrophenol	TX	6490	10185805
2-Picoline (2-Methylpyridine)	TX	5050	10185805
3,3'-Dichlorobenzidine	TX	5945	10185805
3-Methylcholanthrene	TX	6355	10185805
3-Nitroaniline	TX	6465	10185805
4,4'-DDD	TX	7355	10185805
4,4'-DDE	TX	7360	10186002
4,4'-DDT	TX	7365	10185805
4-Aminobiphenyl	TX	5540	10185805
4-Bromophenyl phenyl ether (BDE-3)	TX	5660	10185805
4-Chloro-3-methylphenol	TX	5700	10185805
4-Chloroaniline	TX	5745	10185805
4-Chlorophenyl phenylether	TX	5825	10185805
4-Dimethyl aminoazobenzene	TX	6105	10185805
4-Methylphenol (p-Cresol)	TX	6410	10185805
4-Nitroaniline	TX	6470	10185805
4-Nitrophenol	TX	6500	10185805
7,12-Dimethylbenz(a) anthracene	TX	6115	10185805
a-a-Dimethylphenethylamine	TX	6125	10185805
Acenaphthene	TX	5500	10185805
Acenaphthylene	TX	5505	10185805
Acetophenone	TX	5510	10185805
Aldrin	TX	7025	10186002
alpha-BHC (alpha-Hexachlorocyclohexane)	TX	7110	10186002
alpha-Chlordane	TX	7240	10185601
Aniline	TX	5545	10185805
Anthracene	TX	5555	10185805
Aroclor-1016 (PCB-1016)	TX	8880	10186002



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Matrix: Non-Potable Water

Aroclor-1221 (PCB-1221)	TX	8885	10185203
Aroclor-1232 (PCB-1232)	TX	8890	10185407
Aroclor-1242 (PCB-1242)	TX	8895	10185203
Aroclor-1248 (PCB-1248)	TX	8900	10186002
Aroclor-1254 (PCB-1254)	TX	8905	10185601
Aroclor-1260 (PCB-1260)	TX	8910	10185203
Atrazine	TX	7065	10185805
Azinphos-methyl (Guthion)	TX	7075	10185805
Benzidine	TX	5595	10185805
Benzo(a)anthracene	TX	5575	10185805
Benzo(a)pyrene	TX	5580	10185805
Benzo(b)fluoranthene	TX	5585	10185805
Benzo(e)pyrene	TX	5605	10185805
Benzo(g,h,i)perylene	TX	5590	10185805
Benzo(k)fluoranthene	TX	5600	10185805
Benzoic acid	TX	5610	10185805
Benzyl alcohol	TX	5630	10185805
beta-BHC (beta-Hexachlorocyclohexane)	TX	7115	10185203
Biphenyl	TX	5640	10185805
bis(2-Chloroethoxy)methane	TX	5760	10185805
bis(2-Chloroethyl) ether	TX	5765	10185805
bis(2-Ethylhexyl) phthalate (Di(2-Ethylhexyl) phthalate, DEHP)	TX	6065	10185805
Butyl benzyl phthalate	TX	5670	10185805
Caprolactam	TX	7180	10185805
Carbaryl (Sevin)	TX	7195	10185407
Carbazole	TX	5680	10185805
Carbophenothion	TX	7220	10185407
Chlordane (tech.)	TX	7250	10185203
Chlorfenvinphos	TX	7255	10185805
Chrysene	TX	5855	10185805



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Matrix: Non-Potable Water

Coumaphos	TX	7315	10186002
Crotoxyphos	TX	7330	10185407
delta-BHC (delta-Hexachlorocyclohexane)	TX	7105	10185805
Demeton	TX	7390	10185407
Demeton-o	TX	7395	10185203
Demeton-s	TX	7385	10185601
Dibenz(a,h) anthracene	TX	5895	10185805
Dibenzofuran	TX	5905	10185805
Dichlorovos (DDVP, Dichlorvos)	TX	8610	10186002
Dicrotophos	TX	7465	10185407
Dieldrin	TX	7470	10186002
Diethyl phthalate	TX	6070	10185805
Dimethoate	TX	7475	10185805
Dimethyl phthalate	TX	6135	10185805
Di-n-butyl phthalate	TX	5925	10185805
Di-n-octyl phthalate	TX	6200	10185805
Dioxathion	TX	7495	10185203
Diphenylamine	TX	6205	10185805
Disulfoton	TX	8625	10185601
Endosulfan I	TX	7510	10185805
Endosulfan II	TX	7515	10185203
Endosulfan sulfate	TX	7520	10185601
Endrin	TX	7540	10185203
Endrin aldehyde	TX	7530	10185805
Endrin ketone	TX	7535	10186002
EPN (Phosphonothioic acid, phenyl-, O-ethyl O-(p-nitrophenyl) ester)	TX	7550	10186002
Ethion	TX	7565	10185805
Ethyl methanesulfonate	TX	6260	10185805
Famphur	TX	7580	10185407
Fensulfothion	TX	7600	10185203



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Matrix: *Non-Potable Water*

Fenthion	TX	7605	10186002
Fluoranthene	TX	6265	10185805
Fluorene	TX	6270	10185805
gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	TX	7120	10185203
gamma-Chlordane	TX	7245	10185203
Heptachlor	TX	7685	10185601
Heptachlor epoxide	TX	7690	10185805
Hexachlorobenzene	TX	6275	10185805
Hexachlorobutadiene	TX	4835	10185805
Hexachlorocyclopentadiene	TX	6285	10185805
Hexachloroethane	TX	4840	10185805
Hexachlorophene	TX	6290	10185805
Indeno(1,2,3-cd) pyrene	TX	6315	10185805
Isodrin	TX	7725	10185407
Isophorone	TX	6320	10185805
Leptophos	TX	7755	10186002
Malathion	TX	7770	10186002
Methoxychlor	TX	7810	10185601
Methyl methanesulfonate	TX	6375	10185805
Methyl parathion (Parathion, methyl)	TX	7825	10185203
Mevinphos	TX	7850	10186002
Monocrotophos	TX	7880	10185203
Naled	TX	7905	10185203
Naphthalene	TX	5005	10185805
Nitrobenzene	TX	5015	10185805
n-Nitrosodiethylamine	TX	6525	10185805
n-Nitrosodimethylamine	TX	6530	10185805
n-Nitrosodi-n-butylamine	TX	5025	10185805
n-Nitrosodi-n-propylamine	TX	6545	10185805
n-Nitrosodiphenylamine	TX	6535	10185805



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Matrix: Non-Potable Water

n-Nitrosopiperidine	TX	6560	10185805
Parathion, ethyl	TX	7955	10185805
Pentachlorobenzene	TX	6590	10185805
Pentachloronitrobenzene (PCNB)	TX	6600	10185805
Pentachlorophenol	TX	6605	10185805
Phenacetin	TX	6610	10185805
Phenanthrene	TX	6615	10185805
Phenol	TX	6625	10185805
Phorate	TX	7985	10186002
Phosmet (Imidan)	TX	8000	10186002
Phosphamidon	TX	8005	10185805
Pronamide (Kerb)	TX	6650	10185805
Pyrene	TX	6665	10185805
Pyridine	TX	5095	10185805
Quinoline	TX	6670	10185805
Sulfotepp	TX	8155	10186002
Terbufos	TX	8185	10185805
Tetrachlorvinphos (Stiropfos, Gardona)	TX	8197	10186002
Tetraethyl pyrophosphate (TEPP)	TX	8210	10185407
Toxaphene (Chlorinated camphene)	TX	8250	10185203

Method EPA 8321

Analyte	AB	Analyte ID	Method ID
2,4,5-T	TX	8655	10188804
2,4-D	TX	8545	10188804
2,4-DB	TX	8560	10188804
Dalapon	TX	8555	10188804
Dicamba	TX	8595	10188804
Dichloroprop (Dichlorprop, Weedone)	TX	8605	10188804
Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	TX	8620	10188804
MCPA	TX	7775	10188804



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Matrix: Non-Potable Water

MCP	TX	7780	10188804
Silvex (2,4,5-TP)	TX	8650	10188804
Method EPA 9014			
Analyte	AB	Analyte ID	Method ID
Amenable cyanide	TX	1510	10193803
Total cyanide	TX	1645	10193803
Method EPA 9040			
Analyte	AB	Analyte ID	Method ID
pH	TX	1900	10197203
Method EPA 9056			
Analyte	AB	Analyte ID	Method ID
Bromide	TX	1540	10199209
Chloride	TX	1575	10199209
Fluoride	TX	1730	10199209
Nitrate as N	TX	1810	10199209
Nitrate-nitrite	TX	1820	10199209
Nitrite as N	TX	1840	10199209
Sulfate	TX	2000	10199209
Method EPA 9060			
Analyte	AB	Analyte ID	Method ID
Total Organic Carbon (TOC)	TX	2040	10200201
Method EPA 9070			
Analyte	AB	Analyte ID	Method ID
n-Hexane Extractable Material (HEM) (O&G)	TX	1803	10201000
Method EPA RSK 175			
Analyte	AB	Analyte ID	Method ID
Carbon dioxide	TX	3755	10212905
Ethane	TX	4747	10212905
Ethene	TX	4752	10212905
Methane	TX	4926	10212905
n-Butane	TX	5007	10212905



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Matrix: *Non-Potable Water*

n-Propane	TX	5029	10212905
Method HACH 8000			
Analyte Chemical oxygen demand (COD)	AB TX	Analyte ID 1565	Method ID 60003001
Method SM 2130 B			
Analyte Turbidity	AB TX	Analyte ID 2055	Method ID 20048220
Method SM 2310 B (4a)			
Analyte Acidity, as CaCO ₃	AB TX	Analyte ID 1500	Method ID 20044615
Method SM 2320 B			
Analyte Alkalinity as CaCO ₃	AB TX	Analyte ID 1505	Method ID 20045618
Method SM 2340 B			
Analyte Total hardness as CaCO ₃	AB TX	Analyte ID 1755	Method ID 20046611
Method SM 2510 B			
Analyte Conductivity	AB TX	Analyte ID 1610	Method ID 20048617
Method SM 2540 C			
Analyte Residue-filterable (TDS)	AB TX	Analyte ID 1955	Method ID 20050413
Method SM 2540 D			
Analyte Residue-nonfilterable (TSS)	AB TX	Analyte ID 1960	Method ID 20051212
Method SM 2540 F			
Analyte Residue-settleable	AB TX	Analyte ID 1965	Method ID 20005009
Method SM 3500-Cr B			
Analyte Chromium (VI)	AB TX	Analyte ID 1045	Method ID 20066017



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Matrix: Non-Potable Water

Method	Analyte	AB	Analyte ID	Method ID
SM 4500-CN ⁻ E	Total cyanide	TX	1645	20096428
SM 4500-CN ⁻ G	Amenable cyanide	TX	1510	20097227
SM 4500-H+ B	pH	TX	1900	20105220
SM 4500-NH3 D	Ammonia as N	TX	1515	20109415
SM 4500-P E	Orthophosphate as P	TX	1870	20124225
	Phosphorus	TX	1910	20124225
SM 4500-S2 ⁻ D	Sulfide	TX	2005	20125864
SM 5220 D	Chemical oxygen demand (COD)	TX	1565	20136816
SM 5310 C	Total Organic Carbon (TOC)	TX	2040	20138823
TCEQ 1005	Total Petroleum Hydrocarbons (TPH)	TX	2050	90019208
USGS O-2060-01	2,4-D	TX	8545	40019689
	Dicamba	TX	8595	40019689



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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	10116606

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 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
Cadmium	TX	1030	10014605
Calcium	TX	1035	10014605
Chromium	TX	1040	10014605
Cobalt	TX	1050	10014605
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



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Matrix: Solid & Chemical Materials

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
Vanadium	TX	1185	10014605
Zinc	TX	1190	10014605

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 310.1

Analyte	AB	Analyte ID	Method ID
Alkalinity as CaCO3	TX	1505	10054805

Method EPA 350.3

Analyte	AB	Analyte ID	Method ID
Ammonia as N	TX	1515	10064401

Method EPA 365.2

Analyte	AB	Analyte ID	Method ID
Orthophosphate as P	TX	1870	10070403

Method EPA 6020

Analyte	AB	Analyte ID	Method ID
Aluminum	TX	1000	10156204
Antimony	TX	1005	10156204



Texas Commission on Environmental Quality



NELAP - Recognized Laboratory Fields of Accreditation

DHL Analytical, Inc.
2300 Double Creek Drive
Round Rock, TX 78664-3801

Certificate: T104704211-22-28
Expiration Date: 4/30/2023
Issue Date: 5/1/2022

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Matrix: Solid & Chemical Materials

Arsenic	TX	1010	10156204
Barium	TX	1015	10156204
Beryllium	TX	1020	10156204
Boron	TX	1025	10156204
Cadmium	TX	1030	10156204
Calcium	TX	1035	10156204
Chromium	TX	1040	10156204
Cobalt	TX	1050	10156204
Copper	TX	1055	10156204
Iron	TX	1070	10156204
Lead	TX	1075	10156204
Lithium	TX	1080	10156204
Magnesium	TX	1085	10156204
Manganese	TX	1090	10156204
Molybdenum	TX	1100	10156204
Nickel	TX	1105	10156204
Potassium	TX	1125	10156204
Selenium	TX	1140	10156204
Silver	TX	1150	10156204
Sodium	TX	1155	10156204
Strontium	TX	1160	10156204
Thallium	TX	1165	10156204
Tin	TX	1175	10156204
Titanium	TX	1180	10156204
Vanadium	TX	1185	10156204
Zinc	TX	1190	10156204

Method EPA 7196

Analyte	AB	Analyte ID	Method ID
Chromium (VI)	TX	1045	10162400

Method EPA 7470

Analyte	AB	Analyte ID	Method ID
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Matrix: Solid & Chemical Materials

Mercury	TX	1095	10165807
Method EPA 7471			
Analyte	AB	Analyte ID	Method ID
Mercury	TX	1095	10166208
Method EPA 8015			
Analyte	AB	Analyte ID	Method ID
Diesel range organics (DRO)	TX	9369	10173203
Gasoline range organics (GRO)	TX	9408	10173203
Method EPA 8082			
Analyte	AB	Analyte ID	Method ID
Aroclor-1016 (PCB-1016)	TX	8880	10179007
Aroclor-1221 (PCB-1221)	TX	8885	10179007
Aroclor-1232 (PCB-1232)	TX	8890	10179007
Aroclor-1242 (PCB-1242)	TX	8895	10179007
Aroclor-1248 (PCB-1248)	TX	8900	10179007
Aroclor-1254 (PCB-1254)	TX	8905	10179007
Aroclor-1260 (PCB-1260)	TX	8910	10179007
PCBs (total)	TX	8870	10179007
Method EPA 8260			
Analyte	AB	Analyte ID	Method ID
1,1,1,2-Tetrachloroethane	TX	5105	10184802
1,1,1-Trichloroethane	TX	5160	10184802
1,1,2,2-Tetrachloroethane	TX	5110	10184802
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	TX	5195	10184802
1,1,2-Trichloroethane	TX	5165	10184802
1,1-Dichloroethane	TX	4630	10184802
1,1-Dichloroethylene	TX	4640	10184802
1,1-Dichloropropene	TX	4670	10184802
1,2,3-Trichlorobenzene	TX	5150	10184802
1,2,3-Trichloropropane	TX	5180	10184802
1,2,4-Trichlorobenzene	TX	5155	10184802



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Matrix: Solid & Chemical Materials

1,2,4-Trimethylbenzene	TX	5210	10184802
1,2-Dibromo-3-chloropropane (DBCP)	TX	4570	10184802
1,2-Dibromoethane (EDB, Ethylene dibromide)	TX	4585	10184802
1,2-Dichlorobenzene	TX	4610	10184802
1,2-Dichloroethane (Ethylene dichloride)	TX	4635	10184802
1,2-Dichloropropane	TX	4655	10184802
1,3,5-Trimethylbenzene	TX	5215	10184802
1,3-Dichlorobenzene	TX	4615	10184802
1,3-Dichloropropane	TX	4660	10184802
1,4-Dichlorobenzene	TX	4620	10184802
1-Chlorohexane	TX	4510	10184802
2,2-Dichloropropane	TX	4665	10184802
2-Butanone (Methyl ethyl ketone, MEK)	TX	4410	10184802
2-Chloroethyl vinyl ether	TX	4500	10184802
2-Chlorotoluene	TX	4535	10184802
2-Hexanone (MBK)	TX	4860	10184802
4-Chlorotoluene	TX	4540	10184802
4-Isopropyltoluene (p-Cymene)	TX	4915	10184802
4-Methyl-2-pentanone (MIBK)	TX	4995	10184802
Acetone (2-Propanone)	TX	4315	10184802
Acrolein (Propenal)	TX	4325	10184802
Acrylonitrile	TX	4340	10184802
Benzene	TX	4375	10184802
Bromobenzene	TX	4385	10184802
Bromochloromethane	TX	4390	10184802
Bromodichloromethane	TX	4395	10184802
Bromoform	TX	4400	10184802
Carbon disulfide	TX	4450	10184802
Carbon tetrachloride	TX	4455	10184802
Chlorobenzene	TX	4475	10184802



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Matrix: Solid & Chemical Materials

Chlorodibromomethane	TX	4575	10184802
Chloroethane (Ethyl chloride)	TX	4485	10184802
Chloroform	TX	4505	10184802
cis-1,2-Dichloroethylene	TX	4645	10184802
cis-1,3-Dichloropropene	TX	4680	10184802
Dibromomethane (Methylene bromide)	TX	4595	10184802
Dichlorodifluoromethane (Freon-12)	TX	4625	10184802
Ethylbenzene	TX	4765	10184802
Hexachlorobutadiene	TX	4835	10184802
Iodomethane (Methyl iodide)	TX	4870	10184802
Isopropyl alcohol (2-Propanol, Isopropanol)	TX	4895	10184802
Isopropylbenzene (Cumene)	TX	4900	10184802
m+p-xylene	TX	5240	10184802
Methyl acetate	TX	4940	10184802
Methyl bromide (Bromomethane)	TX	4950	10184802
Methyl chloride (Chloromethane)	TX	4960	10184802
Methyl tert-butyl ether (MTBE)	TX	5000	10184802
Methylcyclohexane	TX	4965	10184802
Methylene chloride (Dichloromethane)	TX	4975	10184802
Naphthalene	TX	5005	10184802
n-Butylbenzene	TX	4435	10184802
n-Propylbenzene	TX	5090	10184802
o-Xylene	TX	5250	10184802
sec-Butylbenzene	TX	4440	10184802
Styrene	TX	5100	10184802
tert-Butylbenzene	TX	4445	10184802
Tetrachloroethylene (Perchloroethylene)	TX	5115	10184802
Toluene	TX	5140	10184802
trans-1,2-Dichloroethylene	TX	4700	10184802
trans-1,3-Dichloropropylene	TX	4685	10184802



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Matrix: Solid & Chemical Materials

trans-1,4-Dichloro-2-butene	TX	4605	10184802
Trichloroethene (Trichloroethylene)	TX	5170	10184802
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	TX	5175	10184802
Vinyl acetate	TX	5225	10184802
Vinyl chloride	TX	5235	10184802
Xylene (total)	TX	5260	10184802

Method EPA 8270

Analyte	AB	Analyte ID	Method ID
1,2,4,5-Tetrachlorobenzene	TX	6715	10185805
1,2,4-Trichlorobenzene	TX	5155	10185805
1,2-Dichlorobenzene	TX	4610	10185805
1,2-Diphenylhydrazine	TX	6220	10185805
1,3-Dichlorobenzene	TX	4615	10185805
1,4-Dichlorobenzene	TX	4620	10185805
1-Naphthylamine	TX	6425	10185805
2,2'-Oxybis(1-chloropropane) (bis(2-Chloro-1-methylethyl)ether)	TX	4659	10185805
2,3,4,6-Tetrachlorophenol	TX	6735	10185805
2,4,5-Trichlorophenol	TX	6835	10185805
2,4,6-Trichlorophenol	TX	6840	10185805
2,4-Dichlorophenol	TX	6000	10185805
2,4-Dimethylphenol	TX	6130	10185805
2,4-Dinitrophenol	TX	6175	10185805
2,4-Dinitrotoluene (2,4-DNT)	TX	6185	10185805
2,6-Dichlorophenol	TX	6005	10185805
2,6-Dinitrotoluene (2,6-DNT)	TX	6190	10185805
2-Chloronaphthalene	TX	5795	10185805
2-Chlorophenol	TX	5800	10185805
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	TX	6360	10185805
2-Methylnaphthalene	TX	6385	10185805
2-Methylphenol (o-Cresol)	TX	6400	10185805



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Matrix: *Solid & Chemical Materials*

2-Naphthylamine	TX	6430	10185805
2-Nitroaniline	TX	6460	10185805
2-Nitrophenol	TX	6490	10185805
2-Picoline (2-Methylpyridine)	TX	5050	10185805
3,3'-Dichlorobenzidine	TX	5945	10185805
3-Methylcholanthrene	TX	6355	10185805
3-Nitroaniline	TX	6465	10185805
4,4'-DDD	TX	7355	10185203
4,4'-DDE	TX	7360	10186002
4,4'-DDT	TX	7365	10185407
4-Aminobiphenyl	TX	5540	10185805
4-Bromophenyl phenyl ether (BDE-3)	TX	5660	10185805
4-Chloro-3-methylphenol	TX	5700	10185805
4-Chloroaniline	TX	5745	10185805
4-Chlorophenyl phenylether	TX	5825	10185805
4-Dimethyl aminoazobenzene	TX	6105	10185805
4-Methylphenol (p-Cresol)	TX	6410	10185805
4-Nitroaniline	TX	6470	10185805
4-Nitrophenol	TX	6500	10185805
7,12-Dimethylbenz(a) anthracene	TX	6115	10185805
a-a-Dimethylphenethylamine	TX	6125	10185805
Acenaphthene	TX	5500	10185805
Acenaphthylene	TX	5505	10185805
Acetophenone	TX	5510	10185805
Aldrin	TX	7025	10186002
alpha-BHC (alpha-Hexachlorocyclohexane)	TX	7110	10185407
alpha-Chlordane	TX	7240	10185805
Aniline	TX	5545	10185805
Anthracene	TX	5555	10185805
Aroclor-1016 (PCB-1016)	TX	8880	10186002



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Matrix: Solid & Chemical Materials

Aroclor-1221 (PCB-1221)	TX	8885	10185805
Aroclor-1232 (PCB-1232)	TX	8890	10185407
Aroclor-1242 (PCB-1242)	TX	8895	10185407
Aroclor-1248 (PCB-1248)	TX	8900	10185805
Aroclor-1254 (PCB-1254)	TX	8905	10185805
Aroclor-1260 (PCB-1260)	TX	8910	10185407
Atrazine	TX	7065	10185805
Azinphos-methyl (Guthion)	TX	7075	10185203
Benzidine	TX	5595	10185805
Benzo(a)anthracene	TX	5575	10185805
Benzo(a)pyrene	TX	5580	10185805
Benzo(b)fluoranthene	TX	5585	10185805
Benzo(e)pyrene	TX	5605	10185805
Benzo(g,h,i)perylene	TX	5590	10185805
Benzo(k)fluoranthene	TX	5600	10185805
Benzoic acid	TX	5610	10185805
Benzyl alcohol	TX	5630	10185805
beta-BHC (beta-Hexachlorocyclohexane)	TX	7115	10185601
Biphenyl	TX	5640	10185805
bis(2-Chloroethoxy)methane	TX	5760	10185805
bis(2-Chloroethyl) ether	TX	5765	10185805
bis(2-Ethylhexyl) phthalate (Di(2-Ethylhexyl) phthalate, DEHP)	TX	6065	10185805
Butyl benzyl phthalate	TX	5670	10185805
Caprolactam	TX	7180	10185805
Carbaryl (Sevin)	TX	7195	10185601
Carbazole	TX	5680	10185805
Carbophenothion	TX	7220	10185805
Chlordane (tech.)	TX	7250	10185805
Chlorfenvinphos	TX	7255	10185203
Chrysene	TX	5855	10185805



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Matrix: Solid & Chemical Materials

Coumaphos	TX	7315	10185805
Crotoxyphos	TX	7330	10185203
delta-BHC (delta-Hexachlorocyclohexane)	TX	7105	10186002
Demeton	TX	7390	10185805
Demeton-o	TX	7395	10185805
Demeton-s	TX	7385	10185601
Dibenz(a,h) anthracene	TX	5895	10185805
Dibenzofuran	TX	5905	10185805
Dichlorovos (DDVP, Dichlorvos)	TX	8610	10185805
Dicrotophos	TX	7465	10185805
Dieldrin	TX	7470	10185407
Diethyl phthalate	TX	6070	10185805
Dimethoate	TX	7475	10185805
Dimethyl phthalate	TX	6135	10185805
Di-n-butyl phthalate	TX	5925	10185805
Di-n-octyl phthalate	TX	6200	10185805
Dioxathion	TX	7495	10185601
Diphenylamine	TX	6205	10185805
Disulfoton	TX	8625	10185407
Endosulfan I	TX	7510	10185601
Endosulfan II	TX	7515	10185805
Endosulfan sulfate	TX	7520	10186002
Endrin	TX	7540	10185601
Endrin aldehyde	TX	7530	10186002
Endrin ketone	TX	7535	10186002
EPN (Phosphonothioic acid, phenyl-, O-ethyl O-(p-nitrophenyl) ester)	TX	7550	10186002
Ethion	TX	7565	10185203
Ethyl methanesulfonate	TX	6260	10185805
Famphur	TX	7580	10186002
Fensulfothion	TX	7600	10185805



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Matrix: Solid & Chemical Materials

Fenthion	TX	7605	10186002
Fluoranthene	TX	6265	10185805
Fluorene	TX	6270	10185805
gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	TX	7120	10185407
gamma-Chlordane	TX	7245	10185601
Heptachlor	TX	7685	10185601
Heptachlor epoxide	TX	7690	10185203
Hexachlorobenzene	TX	6275	10185805
Hexachlorobutadiene	TX	4835	10185805
Hexachlorocyclopentadiene	TX	6285	10185805
Hexachloroethane	TX	4840	10185805
Hexachlorophene	TX	6290	10185601
Indeno(1,2,3-cd) pyrene	TX	6315	10185805
Isodrin	TX	7725	10185203
Isophorone	TX	6320	10185805
Leptophos	TX	7755	10185407
Malathion	TX	7770	10185601
Methoxychlor	TX	7810	10185203
Methyl methanesulfonate	TX	6375	10185805
Methyl parathion (Parathion, methyl)	TX	7825	10185203
Mevinphos	TX	7850	10185805
Monocrotophos	TX	7880	10185805
Naled	TX	7905	10185805
Naphthalene	TX	5005	10185805
Nitrobenzene	TX	5015	10185805
n-Nitrosodiethylamine	TX	6525	10185805
n-Nitrosodimethylamine	TX	6530	10185805
n-Nitrosodi-n-butylamine	TX	5025	10185805
n-Nitrosodi-n-propylamine	TX	6545	10185805
n-Nitrosodiphenylamine	TX	6535	10185805



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Matrix: Solid & Chemical Materials

n-Nitrosopiperidine	TX	6560	10185805
Parathion, ethyl	TX	7955	10185805
Pentachlorobenzene	TX	6590	10185805
Pentachloronitrobenzene (PCNB)	TX	6600	10185805
Pentachlorophenol	TX	6605	10185805
Phenacetin	TX	6610	10185805
Phenanthrene	TX	6615	10185805
Phenol	TX	6625	10185805
Phorate	TX	7985	10185407
Phosmet (Imidan)	TX	8000	10185203
Phosphamidon	TX	8005	10186002
Pronamide (Kerb)	TX	6650	10185805
Pyrene	TX	6665	10185805
Pyridine	TX	5095	10185805
Quinoline	TX	6670	10185805
Sulfotepp	TX	8155	10185203
Terbufos	TX	8185	10185805
Tetrachlorvinphos (Stiophos, Gardona)	TX	8197	10186002
Tetraethyl pyrophosphate (TEPP)	TX	8210	10185407
Toxaphene (Chlorinated camphene)	TX	8250	10185203

Method EPA 8321

Analyte	AB	Analyte ID	Method ID
2,4,5-T	TX	8655	10188804
2,4-D	TX	8545	10188804
2,4-DB	TX	8560	10188804
Dalapon	TX	8555	10188804
Dicamba	TX	8595	10188804
Dichloroprop (Dichlorprop, Weedone)	TX	8605	10188804
Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	TX	8620	10188804
MCPA	TX	7775	10188804



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Matrix: Solid & Chemical Materials

MCPP	TX	7780	10188804
Silvex (2,4,5-TP)	TX	8650	10188804
Method EPA 9014			
Analyte	AB	Analyte ID	Method ID
Amenable cyanide	TX	1510	10193803
Total cyanide	TX	1645	10193803
Method EPA 9040			
Analyte	AB	Analyte ID	Method ID
Corrosivity	TX	1615	10197203
pH	TX	1900	10197203
Method EPA 9045			
Analyte	AB	Analyte ID	Method ID
pH	TX	1900	10198400
Method EPA 9056			
Analyte	AB	Analyte ID	Method ID
Bromide	TX	1540	10199209
Chloride	TX	1575	10199209
Fluoride	TX	1730	10199209
Nitrate as N	TX	1810	10199209
Nitrate-nitrite	TX	1820	10199209
Nitrite as N	TX	1840	10199209
Sulfate	TX	2000	10199209
Method SM 2320 B			
Analyte	AB	Analyte ID	Method ID
Alkalinity as CaCO ₃	TX	1505	20045618
Method SM 2510 B			
Analyte	AB	Analyte ID	Method ID
Conductivity	TX	1610	20048617
Method SSA/ASA Part 3:14			
Analyte	AB	Analyte ID	Method ID
Conductivity	TX	1610	60049505



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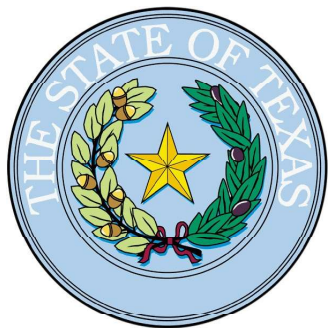
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Matrix: *Solid & Chemical Materials*

Method TCEQ 1005

Analyte	AB	Analyte ID	Method ID
Total Petroleum Hydrocarbons (TPH)	TX	2050	90019208



Texas Commission on Environmental Quality

NELAP-Recognized Laboratory Accreditation is hereby awarded to



DHL Analytical, Inc.

2300 Double Creek Drive

Round Rock, TX 78664-3801

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: T104704211-22-28

Effective Date: 5/1/2022

Expiration Date: 4/30/2023

**Executive Director Texas Commission on
Environmental Quality**

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 18, 2022

Ms. Stephanie Coch
Eurofins Houston
4141-4147 Greenbriar Dr.
Stafford, TX 77477

Subject: Amendment application

Dear Ms. Coch:

Based on the amendment request submitted on March 15, 2022, I am enclosing an updated NELAP accreditation certificate and Fields of Accreditation listing. They replace the previous ones issued on July 01, 2022.

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 by electronic mail 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

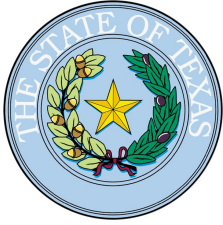
in accordance with Texas Water Code Chapter 5, Subchapter R, Title 30 Texas Administrative Code Chapter 25, and the National Environmental Laboratory Accreditation Program.

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.

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

Certificate Number: T104704215-22-47
Effective Date: 7/18/2022
Expiration Date: 6/30/2023

**Executive Director Texas Commission on
Environmental Quality**



Texas Commission on Environmental Quality



NELAP - Recognized Laboratory Fields of Accreditation

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Certificate: T104704215-22-47
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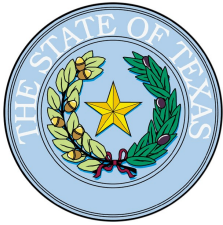
Matrix: *Drinking Water*

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 SiO2	TX	1990	10013806
Silver	TX	1150	10013806
Sodium	TX	1155	10013806
Strontium	TX	1160	10013806
Tin	TX	1175	10013806
Titanium	TX	1180	10013806
Vanadium	TX	1185	10013806
Zinc	TX	1190	10013806

Method EPA 200.8

Analyte	AB	Analyte ID	Method ID
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Texas Commission on Environmental Quality



NELAP - Recognized Laboratory Fields of Accreditation

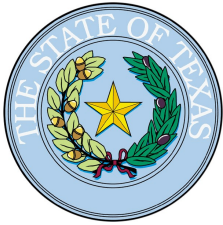
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Matrix: *Drinking Water*

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
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



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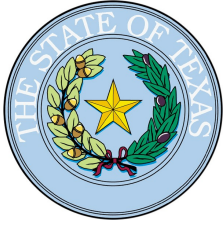
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Matrix: *Drinking Water*

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 EPA 1010

Analyte	AB	Analyte ID	Method ID
Ignitability	TX	1780	10116606

Method EPA 1311

Analyte	AB	Analyte ID	Method ID
TCLP	TX	849	10118806

Method EPA 1312

Analyte	AB	Analyte ID	Method ID
SPLP	TX	850	10119003

Method EPA 160.4

Analyte	AB	Analyte ID	Method ID
Residue-volatile	TX	1970	10010409

Method EPA 1664

Analyte	AB	Analyte ID	Method ID
n-Hexane Extractable Material (HEM) (O&G)	TX	1803	10127807
Silica Gel Treated n-Hexane Extractable Material (SGT-HEM)	TX	10220	10127807

Method EPA 180.1

Analyte	AB	Analyte ID	Method ID
Turbidity	TX	2055	10011606

Method EPA 200.7

Analyte	AB	Analyte ID	Method ID
Aluminum	TX	1000	10013806
Antimony	TX	1005	10013806
Arsenic	TX	1010	10013806
Barium	TX	1015	10013806
Beryllium	TX	1020	10013806
Boron	TX	1025	10013806
Cadmium	TX	1030	10013806
Calcium	TX	1035	10013806
Chromium	TX	1040	10013806
Cobalt	TX	1050	10013806



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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
Orthophosphate as P	TX	1870	10053200
Sulfate	TX	2000	10053200



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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	10155609
Antimony	TX	1005	10155609
Arsenic	TX	1010	10155609
Barium	TX	1015	10155609
Beryllium	TX	1020	10155609



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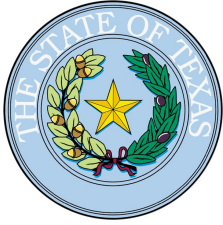
These fields of accreditation supercede all previous fields. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current accreditation status for particular methods and analyses.

Matrix: Non-Potable Water

Boron	TX	1025	10155609
Cadmium	TX	1030	10155609
Calcium	TX	1035	10155609
Chromium	TX	1040	10155609
Cobalt	TX	1050	10155609
Copper	TX	1055	10155609
Iron	TX	1070	10155609
Lead	TX	1075	10155609
Lithium	TX	1080	10155609
Magnesium	TX	1085	10155609
Manganese	TX	1090	10155609
Molybdenum	TX	1100	10155609
Nickel	TX	1105	10155609
Phosphorus	TX	1910	10155609
Potassium	TX	1125	10155609
Selenium	TX	1140	10155609
Silica as SiO2	TX	1990	10155609
Silver	TX	1150	10155609
Sodium	TX	1155	10155609
Strontium	TX	1160	10155609
Thallium	TX	1165	10155609
Tin	TX	1175	10155609
Titanium	TX	1180	10155609
Vanadium	TX	1185	10155609
Zinc	TX	1190	10155609

Method EPA 6020

Analyte	AB	Analyte ID	Method ID
Aluminum	TX	1000	10156419
Antimony	TX	1005	10156419
Arsenic	TX	1010	10156419



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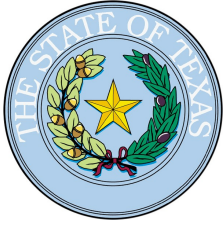
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Matrix: Non-Potable Water

Barium	TX	1015	10156419
Beryllium	TX	1020	10156419
Boron	TX	1025	10156419
Cadmium	TX	1030	10156419
Chromium	TX	1040	10156419
Cobalt	TX	1050	10156419
Copper	TX	1055	10156419
Iron	TX	1070	10156419
Lead	TX	1075	10156419
Magnesium	TX	1085	10156419
Manganese	TX	1090	10156419
Molybdenum	TX	1100	10156419
Nickel	TX	1105	10156419
Potassium	TX	1125	10156419
Selenium	TX	1140	10156419
Silver	TX	1150	10156419
Sodium	TX	1155	10156419
Strontium	TX	1160	10156419
Thallium	TX	1165	10156419
Tin	TX	1175	10156419
Titanium	TX	1180	10156419
Vanadium	TX	1185	10156419
Zinc	TX	1190	10156419

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
MCPPP	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
1,1,1,2-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

Carbaryl (Sevin)

AB

TX

Analyte ID

7195

Method ID

10108608

Method EPA 7196

Analyte

AB

Analyte ID

Method ID



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Matrix: Non-Potable Water

Chromium (VI)	TX	1045	10162206
Method EPA 7470			
Analyte	AB	Analyte ID	Method ID
Mercury	TX	1095	10165603
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	10173203
Diesel range organics (DRO)	TX	9369	10173203
Ethanol	TX	4750	10173203
Ethylene glycol	TX	4785	10173203
Gasoline range organics (GRO)	TX	9408	10173203
Isobutyl alcohol (2-Methyl-1-propanol)	TX	4875	10173203
Isopropyl alcohol (2-Propanol, Isopropanol)	TX	4895	10173203
Methanol	TX	4930	10173203
n-Butyl alcohol (1-Butanol, n-Butanol)	TX	4425	10173203
n-Propanol (1-Propanol)	TX	5055	10173203
Propylene Glycol	TX	6657	10173203
Method EPA 8081			
Analyte	AB	Analyte ID	Method ID
4,4'-DDD	TX	7355	10178800
4,4'-DDE	TX	7360	10178800
4,4'-DDT	TX	7365	10178800
Alachlor	TX	7005	10178800
Aldrin	TX	7025	10178800
alpha-BHC (alpha-Hexachlorocyclohexane)	TX	7110	10178800
alpha-Chlordane	TX	7240	10178800



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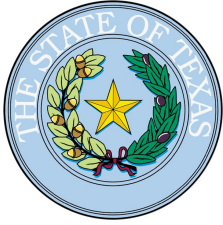
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Matrix: *Non-Potable Water*

beta-BHC (beta-Hexachlorocyclohexane)	TX	7115	10178800
Chlordane (tech.)	TX	7250	10178800
delta-BHC (delta-Hexachlorocyclohexane)	TX	7105	10178800
Dicofol (Kelthane)	TX	7460	10178800
Dieldrin	TX	7470	10178800
Endosulfan I	TX	7510	10178800
Endosulfan II	TX	7515	10178800
Endosulfan sulfate	TX	7520	10178800
Endrin	TX	7540	10178800
Endrin aldehyde	TX	7530	10178800
Endrin ketone	TX	7535	10178800
gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	TX	7120	10178800
gamma-Chlordane	TX	7245	10178800
Heptachlor	TX	7685	10178800
Heptachlor epoxide	TX	7690	10178800
Methoxychlor	TX	7810	10178800
Mirex	TX	7870	10178800
Toxaphene (Chlorinated camphene)	TX	8250	10178800

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

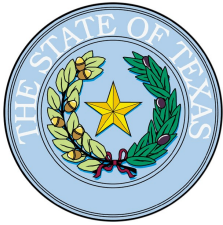
2,3',4,4'-Tetrachlorobiphenyl (BZ-66)	TX	8960	10179201
2,3-Dichlorobiphenyl (BZ-5)	TX	8920	10179201
2,4',5-Trichlorobiphenyl (BZ-31)	TX	8940	10179201
2-Chlorobiphenyl (BZ-1)	TX	8915	10179201
Aroclor-1016 (PCB-1016)	TX	8880	10179201
Aroclor-1221 (PCB-1221)	TX	8885	10179201
Aroclor-1232 (PCB-1232)	TX	8890	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	10183003
2,4-D	TX	8545	10183003
2,4-DB	TX	8560	10183003
Dalapon	TX	8555	10183003
Dicamba	TX	8595	10183003
Dichloroprop (Dichloroprop, Weedone)	TX	8605	10183003
Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	TX	8620	10183003
MCPA	TX	7775	10183003
MCPP	TX	7780	10183003
Pentachlorophenol	TX	6605	10183003
Picloram	TX	8645	10183003
Silvex (2,4,5-TP)	TX	8650	10183003

Method EPA 8260

Analyte	AB	Analyte ID	Method ID
1,1,1,2-Tetrachloroethane	TX	5105	10184404
1,1,1-Trichloroethane	TX	5160	10184404
1,1,2,2-Tetrachloroethane	TX	5110	10184404



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1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	TX	5185	10184404
1,1,2-Trichloroethane	TX	5165	10184404
1,1-Dichloroethane	TX	4630	10184404
1,1-Dichloroethylene	TX	4640	10184404
1,1-Dichloropropene	TX	4670	10184404
1,2,3-Trichlorobenzene	TX	5150	10184404
1,2,3-Trichloropropane	TX	5180	10184404
1,2,4-Trichlorobenzene	TX	5155	10184404
1,2,4-Trimethylbenzene	TX	5210	10184404
1,2-Dibromo-3-chloropropane (DBCP)	TX	4570	10184404
1,2-Dibromoethane (EDB, Ethylene dibromide)	TX	4585	10184404
1,2-Dichlorobenzene	TX	4610	10184404
1,2-Dichloroethane (Ethylene dichloride)	TX	4635	10184404
1,2-Dichloropropane	TX	4655	10184404
1,3,5-Trimethylbenzene	TX	5215	10184404
1,3-Dichlorobenzene	TX	4615	10184404
1,3-Dichloropropane	TX	4660	10184404
1,4-Dichlorobenzene	TX	4620	10184404
1,4-Dioxane (1,4-Diethyleneoxide)	TX	4735	10184404
1-Chlorohexane	TX	4510	10184404
2,2-Dichloropropane	TX	4665	10184404
2-Butanone (Methyl ethyl ketone, MEK)	TX	4410	10184404
2-Chloroethyl vinyl ether	TX	4500	10184404
2-Chlorotoluene	TX	4535	10184404
2-Hexanone (MBK)	TX	4860	10184404
2-Nitropropane	TX	5020	10184404
4-Chlorotoluene	TX	4540	10184404
4-Isopropyltoluene (p-Cymene)	TX	4915	10184404
4-Methyl-2-pentanone (MIBK)	TX	4995	10184404
Acetone (2-Propanone)	TX	4315	10184404



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Matrix: *Non-Potable Water*

Acetonitrile	TX	4320	10184404
Acrolein (Propenal)	TX	4325	10184404
Acrylonitrile	TX	4340	10184404
Allyl chloride (3-Chloropropene)	TX	4355	10184404
Benzene	TX	4375	10184404
Benzyl chloride	TX	5635	10184404
Bromobenzene	TX	4385	10184404
Bromochloromethane	TX	4390	10184404
Bromodichloromethane	TX	4395	10184404
Bromoform	TX	4400	10184404
Carbon disulfide	TX	4450	10184404
Carbon tetrachloride	TX	4455	10184404
Chlorobenzene	TX	4475	10184404
Chlorodibromomethane	TX	4575	10184404
Chloroethane (Ethyl chloride)	TX	4485	10184404
Chloroform	TX	4505	10184404
Chloroprene (2-Chloro-1,3-butadiene)	TX	4525	10184404
cis-1,2-Dichloroethylene	TX	4645	10184404
cis-1,3-Dichloropropene	TX	4680	10184404
cis-1,4-Dichloro-2-butene	TX	4600	10184404
Dibromofluoromethane	TX	4590	10184404
Dibromomethane (Methylene bromide)	TX	4595	10184404
Dichlorodifluoromethane (Freon-12)	TX	4625	10184404
Diethyl ether	TX	4725	10184404
Di-isopropylether (DIPE)	TX	9375	10184404
Epichlorohydrin (1-Chloro-2,3-epoxypropane)	TX	4745	10184404
Ethyl acetate	TX	4755	10184404
Ethyl methacrylate	TX	4810	10184404
Ethylbenzene	TX	4765	10184404
Ethylene oxide	TX	4795	10184404



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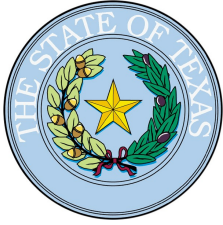
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Matrix: *Non-Potable Water*

Ethyl-t-butylether (ETBE) (2-Ethoxy-2-methylpropane)	TX	4770	10184404
Hexachlorobutadiene	TX	4835	10184404
Iodomethane (Methyl iodide)	TX	4870	10184404
Isobutyl alcohol (2-Methyl-1-propanol)	TX	4875	10184404
Isopropyl alcohol (2-Propanol, Isopropanol)	TX	4895	10184404
Isopropylbenzene (Cumene)	TX	4900	10184404
m+p-xylene	TX	5240	10184404
Methacrylonitrile	TX	4925	10184404
Methyl acetate	TX	4940	10184802
Methyl bromide (Bromomethane)	TX	4950	10184404
Methyl chloride (Chloromethane)	TX	4960	10184404
Methyl methacrylate	TX	4990	10184404
Methyl tert-butyl ether (MTBE)	TX	5000	10184404
Methylcyclohexane	TX	4965	10184608
Methylene chloride (Dichloromethane)	TX	4975	10184404
Naphthalene	TX	5005	10184404
n-Butyl alcohol (1-Butanol, n-Butanol)	TX	4425	10184404
n-Butylbenzene	TX	4435	10184404
n-Propylbenzene	TX	5090	10184404
o-Xylene	TX	5250	10184404
Propionitrile (Ethyl cyanide)	TX	5080	10184404
sec-Butylbenzene	TX	4440	10184404
Styrene	TX	5100	10184404
T-amylmethylether (TAME)	TX	4370	10184404
tert-Butyl alcohol	TX	4420	10184404
tert-Butylbenzene	TX	4445	10184404
Tetrachloroethylene (Perchloroethylene)	TX	5115	10184404
Toluene	TX	5140	10184404
Total trihalomethanes	TX	5205	10184404
trans-1,2-Dichloroethylene	TX	4700	10184404



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Matrix: Non-Potable Water

trans-1,3-Dichloropropylene	TX	4685	10184404
trans-1,4-Dichloro-2-butene	TX	4605	10184404
Trichloroethene (Trichloroethylene)	TX	5170	10184404
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	TX	5175	10184404
Vinyl acetate	TX	5225	10184404
Vinyl chloride	TX	5235	10184404
Xylene (total)	TX	5260	10184404

Method EPA 8270

Analyte	AB	Analyte ID	Method ID
1,2,4,5-Tetrachlorobenzene	TX	6715	10185601
1,2,4-Trichlorobenzene	TX	5155	10185805
1,2-Dichlorobenzene	TX	4610	10185805
1,2-Diphenylhydrazine	TX	6220	10185805
1,3,5-Trinitrobenzene (1,3,5-TNB)	TX	6885	10185805
1,3-Dichlorobenzene	TX	4615	10185805
1,3-Dinitrobenzene (1,3-DNB)	TX	6160	10185805
1,4-Dichlorobenzene	TX	4620	10185805
1,4-Naphthoquinone	TX	6420	10185805
1,4-Phenylenediamine	TX	6630	10185805
1-Naphthylamine	TX	6425	10185805
2,2'-Oxybis(1-chloropropane) (bis(2-Chloro-1-methylethyl)ether)	TX	4659	10185805
2,3,4,6-Tetrachlorophenol	TX	6735	10185805
2,4,5-Trichlorophenol	TX	6835	10185805
2,4,6-Trichlorophenol	TX	6840	10185805
2,4-Dichlorophenol	TX	6000	10185805
2,4-Dimethylphenol	TX	6130	10185805
2,4-Dinitrophenol	TX	6175	10185805
2,4-Dinitrotoluene (2,4-DNT)	TX	6185	10185805
2,6-Dichlorophenol	TX	6005	10185805
2,6-Dinitrotoluene (2,6-DNT)	TX	6190	10185805



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Matrix: *Non-Potable Water*

2-Acetylaminofluorene	TX	5515	10185805
2-Chloronaphthalene	TX	5795	10185805
2-Chlorophenol	TX	5800	10185805
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	TX	6360	10185805
2-Methylaniline (o-Toluidine)	TX	5145	10185805
2-Methylnaphthalene	TX	6385	10185805
2-Methylphenol (o-Cresol)	TX	6400	10185805
2-Naphthylamine	TX	6430	10185805
2-Nitroaniline	TX	6460	10185805
2-Nitrophenol	TX	6490	10185805
2-Picoline (2-Methylpyridine)	TX	5050	10185805
3,3'-Dichlorobenzidine	TX	5945	10185805
3,3'-Dimethylbenzidine	TX	6120	10185805
3-Methylcholanthrene	TX	6355	10185805
3-Methylphenol (m-Cresol)	TX	6405	10185805
3-Nitroaniline	TX	6465	10185805
4-Aminobiphenyl	TX	5540	10185805
4-Bromophenyl phenyl ether (BDE-3)	TX	5660	10185805
4-Chloro-3-methylphenol	TX	5700	10185805
4-Chloroaniline	TX	5745	10185805
4-Chlorophenyl phenylether	TX	5825	10185805
4-Dimethyl aminoazobenzene	TX	6105	10185805
4-Methylphenol (p-Cresol)	TX	6410	10185805
4-Nitroaniline	TX	6470	10185805
4-Nitrophenol	TX	6500	10185805
5-Nitro-o-toluidine	TX	6570	10185805
7,12-Dimethylbenz(a) anthracene	TX	6115	10185805
Acenaphthene	TX	5500	10185805
Acenaphthylene	TX	5505	10185805
Acetophenone	TX	5510	10185805



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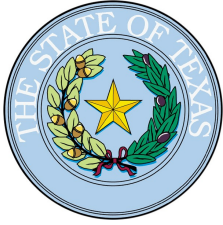
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Matrix: Non-Potable Water

Aniline	TX	5545	10185805
Anthracene	TX	5555	10185805
Atrazine	TX	7065	10186002
Azobenzene	TX	5562	10185805
Benzidine	TX	5595	10185805
Benzo(a)anthracene	TX	5575	10185805
Benzo(a)pyrene	TX	5580	10185805
Benzo(b)fluoranthene	TX	5585	10185805
Benzo(g,h,i)perylene	TX	5590	10185805
Benzo(k)fluoranthene	TX	5600	10185805
Benzoic acid	TX	5610	10185805
Benzyl alcohol	TX	5630	10185805
Biphenyl	TX	5640	10185601
bis(2-Chloroethoxy)methane	TX	5760	10185805
bis(2-Chloroethyl) ether	TX	5765	10185805
bis(2-Ethylhexyl) phthalate (Di(2-Ethylhexyl) phthalate, DEHP)	TX	6065	10185805
Butyl benzyl phthalate	TX	5670	10185805
Caprolactam	TX	7180	10185805
Carbaryl (Sevin)	TX	7195	10185805
Carbazole	TX	5680	10185805
Chlorobenzilate	TX	7260	10185805
Chrysene	TX	5855	10185805
Diallate	TX	7405	10185805
Dibenz(a,h) anthracene	TX	5895	10185805
Dibenzofuran	TX	5905	10185805
Diethyl phthalate	TX	6070	10185805
Dimethoate	TX	7475	10185805
Dimethyl phthalate	TX	6135	10185805
Di-n-butyl phthalate	TX	5925	10185805
Di-n-octyl phthalate	TX	6200	10185805



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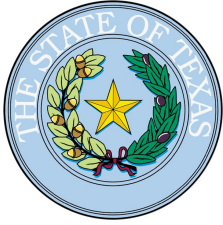
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Matrix: Non-Potable Water

Diphenylamine	TX	6205	10185805
Disulfoton	TX	8625	10185805
Ethyl methanesulfonate	TX	6260	10185805
Famphur	TX	7580	10185805
Fluoranthene	TX	6265	10185805
Fluorene	TX	6270	10185805
Hexachlorobenzene	TX	6275	10185805
Hexachlorobutadiene	TX	4835	10185805
Hexachlorocyclopentadiene	TX	6285	10185805
Hexachloroethane	TX	4840	10185805
Hexachlorophene	TX	6290	10185805
Hexachloropropene	TX	6295	10185805
Indeno(1,2,3-cd) pyrene	TX	6315	10185805
Isodrin	TX	7725	10185805
Isophorone	TX	6320	10185805
Isosafrole	TX	6325	10185805
Kepone	TX	7740	10185805
Methapyrilene	TX	6345	10185805
Methyl methanesulfonate	TX	6375	10185805
Methyl parathion (Parathion, methyl)	TX	7825	10185805
Naphthalene	TX	5005	10185805
Nitrobenzene	TX	5015	10185805
n-Nitrosodiethylamine	TX	6525	10185805
n-Nitrosodimethylamine	TX	6530	10185805
n-Nitrosodi-n-butylamine	TX	5025	10185805
n-Nitrosodi-n-propylamine	TX	6545	10185805
n-Nitrosodiphenylamine	TX	6535	10185805
n-Nitrosomethylethylamine	TX	6550	10185805
n-Nitrosomorpholine	TX	6555	10185805
n-Nitrosopiperidine	TX	6560	10185805



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Expiration Date:

6/30/2023

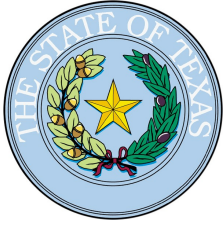
Issue Date:

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Matrix: Non-Potable Water

n-Nitrosopyrrolidine	TX	6565	10185805
o,o,o-Triethyl phosphorothioate	TX	8290	10185805
Parathion, ethyl	TX	7955	10185805
Pentachlorobenzene	TX	6590	10185805
Pentachloronitrobenzene (PCNB)	TX	6600	10185805
Pentachlorophenol	TX	6605	10185805
Phenacetin	TX	6610	10185805
Phenanthrene	TX	6615	10185805
Phenol	TX	6625	10185805
Phorate	TX	7985	10185805
Pronamide (Kerb)	TX	6650	10185805
Pyrene	TX	6665	10185805
Pyridine	TX	5095	10185805
Quinoline	TX	6670	10185805
Safrole	TX	6685	10185805
Thionazin (Zinophos)	TX	8235	10185805
Method EPA 9012			
Analyte	AB	Analyte ID	Method ID
Amenable cyanide	TX	1510	10193405
Total cyanide	TX	1645	10193405
Method EPA 9040			
Analyte	AB	Analyte ID	Method ID
pH	TX	1900	10196802
Method EPA 9050			
Analyte	AB	Analyte ID	Method ID
Conductivity	TX	1610	10198604
Method EPA 9056			
Analyte	AB	Analyte ID	Method ID
Bromide	TX	1540	10199209
Chloride	TX	1575	10199209
Fluoride	TX	1730	10199209



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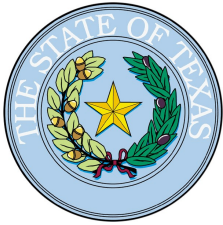
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Matrix: Non-Potable Water

Nitrate as N	TX	1810	10199209
Nitrate-nitrite	TX	1820	10199209
Nitrite as N	TX	1840	10199209
Sulfate	TX	2000	10199209
Method EPA 9060			
Analyte	AB	Analyte ID	Method ID
Total Organic Carbon (TOC)	TX	2040	10200201
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
Method SM 2120 C			
Analyte	AB	Analyte ID	Method ID



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Matrix: Non-Potable Water

Color	TX	1605	20002000
Method SM 2130 B			
Analyte	AB	Analyte ID	Method ID
Turbidity	TX	2055	20042200
Method SM 2310 B (4a)			
Analyte	AB	Analyte ID	Method ID
Acidity, as CaCO ₃	TX	1500	20002806
Method SM 2320 B			
Analyte	AB	Analyte ID	Method ID
Alkalinity as CaCO ₃	TX	1505	20045005
Method SM 2340 B			
Analyte	AB	Analyte ID	Method ID
Total hardness as CaCO ₃	TX	1755	20046008
Method SM 2510 B			
Analyte	AB	Analyte ID	Method ID
Conductivity	TX	1610	20048004
Method SM 2540 B			
Analyte	AB	Analyte ID	Method ID
Residue-total (total solids)	TX	1950	20004608
Method SM 2540 C			
Analyte	AB	Analyte ID	Method ID
Residue-filterable (TDS)	TX	1955	20049803
Method SM 2540 D			
Analyte	AB	Analyte ID	Method ID
Residue-nonfilterable (TSS)	TX	1960	20004802
Method SM 3500-Cr B			
Analyte	AB	Analyte ID	Method ID
Chromium (VI)	TX	1045	20065809
Method SM 4500-Cl G			
Analyte	AB	Analyte ID	Method ID
Total residual chlorine	TX	1940	20020604



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Matrix: *Non-Potable Water*

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)

Carbonaceous BOD, CBOD

AB

TX

Analyte ID

1530

Method ID

20027401

TX

1555

20027401

Method SM 5310 C

Analyte

Total Organic Carbon (TOC)

AB

TX

Analyte ID

2040

Method ID

20138209

Method SM 5540 C

Analyte

Surfactants - MBAS

AB

TX

Analyte ID

2025

Method ID

20144405

Method TCEQ 1005

Analyte

Total Petroleum Hydrocarbons (TPH)

AB

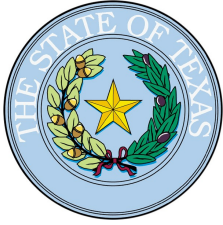
TX

Analyte ID

2050

Method ID

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	10116606

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	10155609
Antimony	TX	1005	10155609
Arsenic	TX	1010	10155609
Barium	TX	1015	10155609
Beryllium	TX	1020	10155609
Boron	TX	1025	10155609
Cadmium	TX	1030	10155609
Calcium	TX	1035	10155609
Chromium	TX	1040	10155609
Cobalt	TX	1050	10155609
Copper	TX	1055	10155609
Iron	TX	1070	10155609
Lead	TX	1075	10155609
Lithium	TX	1080	10155609
Magnesium	TX	1085	10155609
Manganese	TX	1090	10155609
Molybdenum	TX	1100	10155609
Nickel	TX	1105	10155609
Phosphorus	TX	1910	10155609
Potassium	TX	1125	10155609
Selenium	TX	1140	10155609
Silica as SiO ₂	TX	1990	10155609
Silver	TX	1150	10155609
Sodium	TX	1155	10155609
Strontium	TX	1160	10155609
Thallium	TX	1165	10155609
Tin	TX	1175	10155609



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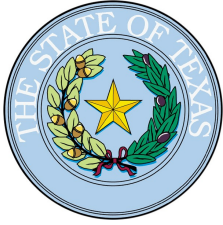
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Matrix: Solid & Chemical Materials

Titanium	TX	1180	10155609
Vanadium	TX	1185	10155609
Zinc	TX	1190	10155609
Method EPA 6020			
Analyte	AB	Analyte ID	Method ID
Aluminum	TX	1000	10156419
Antimony	TX	1005	10156419
Arsenic	TX	1010	10156419
Barium	TX	1015	10156419
Beryllium	TX	1020	10156419
Boron	TX	1025	10156419
Cadmium	TX	1030	10156419
Calcium	TX	1035	10156419
Chromium	TX	1040	10156419
Cobalt	TX	1050	10156419
Copper	TX	1055	10156419
Iron	TX	1070	10156419
Lead	TX	1075	10156419
Magnesium	TX	1085	10156419
Manganese	TX	1090	10156419
Molybdenum	TX	1100	10156419
Nickel	TX	1105	10156419
Potassium	TX	1125	10156419
Selenium	TX	1140	10156419
Silver	TX	1150	10156419
Sodium	TX	1155	10156419
Strontium	TX	1160	10156419
Thallium	TX	1165	10156419
Tin	TX	1175	10156419
Titanium	TX	1180	10156419



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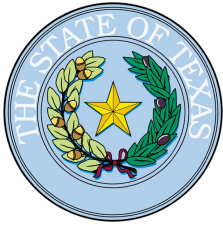
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Matrix: Solid & Chemical Materials

Vanadium	TX	1185	10156419
Zinc	TX	1190	10156419
Method EPA 7196			
Analyte	AB	Analyte ID	Method ID
Chromium (VI)	TX	1045	10162206
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	10173203
Diesel range organics (DRO)	TX	9369	10173203
Ethanol	TX	4750	10173203
Ethylene glycol	TX	4785	10173203
Gasoline range organics (GRO)	TX	9408	10173203
Isobutyl alcohol (2-Methyl-1-propanol)	TX	4875	10173203
Isopropyl alcohol (2-Propanol, Isopropanol)	TX	4895	10173203
Methanol	TX	4930	10173203
n-Butyl alcohol (1-Butanol, n-Butanol)	TX	4425	10173203
n-Propanol (1-Propanol)	TX	5055	10173203
Propylene Glycol	TX	6657	10173203
Method EPA 8081			
Analyte	AB	Analyte ID	Method ID
4,4'-DDD	TX	7355	10178800
4,4'-DDE	TX	7360	10178800
4,4'-DDT	TX	7365	10178800
Alachlor	TX	7005	10178800
Aldrin	TX	7025	10178800



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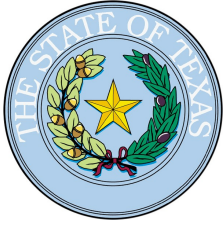
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Matrix: Solid & Chemical Materials

alpha-BHC (alpha-Hexachlorocyclohexane)	TX	7110	10178800
alpha-Chlordane	TX	7240	10178800
beta-BHC (beta-Hexachlorocyclohexane)	TX	7115	10178800
Chlordane (tech.)	TX	7250	10178800
DDD, Total	TX	10314	10178800
DDE, Total	TX	10315	10178800
DDT, Total	TX	10316	10178800
delta-BHC (delta-Hexachlorocyclohexane)	TX	7105	10178800
Dieldrin	TX	7470	10178800
Endosulfan I	TX	7510	10178800
Endosulfan II	TX	7515	10178800
Endosulfan sulfate	TX	7520	10178800
Endrin	TX	7540	10178800
Endrin aldehyde	TX	7530	10178800
Endrin ketone	TX	7535	10178800
gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	TX	7120	10178800
gamma-Chlordane	TX	7245	10178800
Heptachlor	TX	7685	10178800
Heptachlor epoxide	TX	7690	10178800
Methoxychlor	TX	7810	10178800
Toxaphene (Chlorinated camphene)	TX	8250	10178800

Method EPA 8082

Analyte	AB	Analyte ID	Method ID
2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl (BZ-206)	TX	9095	10179007
2,2',3,3',4,4',5-Heptachlorobiphenyl (BZ-170)	TX	9065	10179007
2,2',3,4,4',5,5'-Heptachlorobiphenyl (BZ-180)	TX	9134	10179007
2,2',3,4,4',5,6-Heptachlorobiphenyl (BZ-183)	TX	9075	10179007
2,2',3,4,4',5'-Hexachlorobiphenyl (BZ-138)	TX	9025	10179007
2,2',3,4',5,5',6-Heptachlorobiphenyl (BZ-187)	TX	9080	10179007
2,2',3,4,5,5'-Hexachlorobiphenyl (BZ-141)	TX	9030	10179007



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Matrix: Solid & Chemical Materials

2,2',3,4,5'-Pentachlorobiphenyl (BZ-87)	TX	8975	10179007
2,2',3,5,5',6-Hexachlorobiphenyl (BZ-151)	TX	9035	10179007
2,2',3,5'-Tetrachlorobiphenyl (BZ-44)	TX	8945	10179007
2,2',4,4',5,5'-Hexachlorobiphenyl (BZ-153)	TX	9040	10179007
2,2',4,5,5'-Pentachlorobiphenyl (BZ-101)	TX	8980	10179007
2,2',5,5'-Tetrachlorobiphenyl (BZ-52)	TX	8955	10179007
2,2',5-Trichlorobiphenyl (BZ-18)	TX	8930	10179007
2,3,3',4',6-Pentachlorobiphenyl (BZ-110)	TX	8990	10179007
2,3',4,4'-Tetrachlorobiphenyl (BZ-66)	TX	8960	10179007
2,3-Dichlorobiphenyl (BZ-5)	TX	8920	10179007
2,4',5-Trichlorobiphenyl (BZ-31)	TX	8940	10179007
2-Chlorobiphenyl (BZ-1)	TX	8915	10179007
Aroclor-1016 (PCB-1016)	TX	8880	10179007
Aroclor-1221 (PCB-1221)	TX	8885	10179007
Aroclor-1232 (PCB-1232)	TX	8890	10179007
Aroclor-1242 (PCB-1242)	TX	8895	10179007
Aroclor-1248 (PCB-1248)	TX	8900	10179007
Aroclor-1254 (PCB-1254)	TX	8905	10179007
Aroclor-1260 (PCB-1260)	TX	8910	10179007
PCBs (total)	TX	8870	10179007

Method EPA 8151

Analyte	AB	Analyte ID	Method ID
2,4,5-T	TX	8655	10183003
2,4-D	TX	8545	10183003
2,4-DB	TX	8560	10183003
Dalapon	TX	8555	10183003
Dicamba	TX	8595	10183003
Dichloroprop (Dichloroprop, Weedone)	TX	8605	10183003
Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	TX	8620	10183003
MCPA	TX	7775	10183003



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Matrix: Solid & Chemical Materials

MCPPP	TX	7780	10183003
Pentachlorophenol	TX	6605	10183003
Silvex (2,4,5-TP)	TX	8650	10183003
Method EPA 8260			
Analyte	AB	Analyte ID	Method ID
1,1,1,2-Tetrachloroethane	TX	5105	10184404
1,1,1-Trichloroethane	TX	5160	10184404
1,1,2,2-Tetrachloroethane	TX	5110	10184404
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	TX	5185	10184802
1,1,2-Trichloroethane	TX	5165	10184404
1,1-Dichloroethane	TX	4630	10184404
1,1-Dichloroethylene	TX	4640	10184404
1,1-Dichloropropene	TX	4670	10184404
1,2,3-Trichlorobenzene	TX	5150	10184404
1,2,3-Trichloropropane	TX	5180	10184404
1,2,4-Trichlorobenzene	TX	5155	10184404
1,2,4-Trimethylbenzene	TX	5210	10184404
1,2-Dibromo-3-chloropropane (DBCP)	TX	4570	10184404
1,2-Dibromoethane (EDB, Ethylene dibromide)	TX	4585	10184404
1,2-Dichlorobenzene	TX	4610	10184404
1,2-Dichloroethane (Ethylene dichloride)	TX	4635	10184404
1,2-Dichloropropane	TX	4655	10184404
1,3,5-Trimethylbenzene	TX	5215	10184404
1,3-Dichlorobenzene	TX	4615	10184404
1,3-Dichloropropane	TX	4660	10184404
1,4-Dichlorobenzene	TX	4620	10184404
1,4-Dioxane (1,4-Diethyleneoxide)	TX	4735	10184404
1-Chlorohexane	TX	4510	10184404
2,2-Dichloropropane	TX	4665	10184404
2-Butanone (Methyl ethyl ketone, MEK)	TX	4410	10184404



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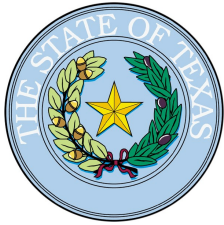
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Matrix: Solid & Chemical Materials

2-Chloroethyl vinyl ether	TX	4500	10184404
2-Chlorotoluene	TX	4535	10184404
2-Hexanone (MBK)	TX	4860	10184404
4-Chlorotoluene	TX	4540	10184404
4-Isopropyltoluene (p-Cymene)	TX	4915	10184404
4-Methyl-2-pentanone (MIBK)	TX	4995	10184404
Acetone (2-Propanone)	TX	4315	10184404
Acetonitrile	TX	4320	10184404
Acrolein (Propenal)	TX	4325	10184404
Acrylonitrile	TX	4340	10184404
Allyl chloride (3-Chloropropene)	TX	4355	10184404
Benzene	TX	4375	10184404
Bromobenzene	TX	4385	10184404
Bromochloromethane	TX	4390	10184404
Bromodichloromethane	TX	4395	10184404
Bromoform	TX	4400	10184404
Carbon disulfide	TX	4450	10184404
Carbon tetrachloride	TX	4455	10184404
Chlorobenzene	TX	4475	10184404
Chlorodibromomethane	TX	4575	10184404
Chloroethane (Ethyl chloride)	TX	4485	10184404
Chloroform	TX	4505	10184404
Chloroprene (2-Chloro-1,3-butadiene)	TX	4525	10184404
cis-1,2-Dichloroethylene	TX	4645	10184404
cis-1,3-Dichloropropene	TX	4680	10184404
cis-1,4-Dichloro-2-butene	TX	4600	10184404
Dibromomethane (Methylene bromide)	TX	4595	10184404
Dichlorodifluoromethane (Freon-12)	TX	4625	10184404
Epichlorohydrin (1-Chloro-2,3-epoxypropane)	TX	4745	10184404
Ethyl methacrylate	TX	4810	10184404



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Expiration Date:

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Issue Date:

7/18/2022

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Matrix: Solid & Chemical Materials

Ethylbenzene	TX	4765	10184404
Hexachlorobutadiene	TX	4835	10184404
Iodomethane (Methyl iodide)	TX	4870	10184404
Isopropylbenzene (Cumene)	TX	4900	10184404
m+p-xylene	TX	5240	10184404
Methacrylonitrile	TX	4925	10184404
Methyl acetate	TX	4940	10184608
Methyl bromide (Bromomethane)	TX	4950	10184404
Methyl chloride (Chloromethane)	TX	4960	10184404
Methyl tert-butyl ether (MTBE)	TX	5000	10184404
Methylcyclohexane	TX	4965	10184608
Methylene chloride (Dichloromethane)	TX	4975	10184404
Naphthalene	TX	5005	10184404
n-Butyl alcohol (1-Butanol, n-Butanol)	TX	4425	10184404
n-Butylbenzene	TX	4435	10184404
n-Propylbenzene	TX	5090	10184404
o-Xylene	TX	5250	10184404
sec-Butylbenzene	TX	4440	10184404
Styrene	TX	5100	10184404
tert-Butyl alcohol	TX	4420	10184404
tert-Butylbenzene	TX	4445	10184404
Tetrachloroethylene (Perchloroethylene)	TX	5115	10184404
Toluene	TX	5140	10184404
trans-1,2-Dichloroethylene	TX	4700	10184404
trans-1,3-Dichloropropylene	TX	4685	10184404
trans-1,4-Dichloro-2-butene	TX	4605	10184404
Trichloroethene (Trichloroethylene)	TX	5170	10184404
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	TX	5175	10184404
Vinyl acetate	TX	5225	10184404
Vinyl chloride	TX	5235	10184404



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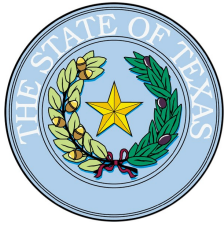
Issue Date:

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Matrix: Solid & Chemical Materials

Method	AB	Analyte ID	Method ID
Xylene (total)	TX	5260	10184404
Method EPA 8270			
Analyte	AB	Analyte ID	Method ID
1,2,4,5-Tetrachlorobenzene	TX	6715	10185407
1,2,4-Trichlorobenzene	TX	5155	10185805
1,2-Dichlorobenzene	TX	4610	10185805
1,2-Diphenylhydrazine	TX	6220	10185805
1,3-Dichlorobenzene	TX	4615	10185805
1,3-Dinitrobenzene (1,3-DNB)	TX	6160	10185805
1,4-Dichlorobenzene	TX	4620	10185805
2,2'-Oxybis(1-chloropropane) (bis(2-Chloro-1-methylethyl)ether)	TX	4659	10185805
2,3,4,6-Tetrachlorophenol	TX	6735	10185805
2,4,5-Trichlorophenol	TX	6835	10185805
2,4,6-Trichlorophenol	TX	6840	10185805
2,4-Dichlorophenol	TX	6000	10185805
2,4-Dimethylphenol	TX	6130	10185805
2,4-Dinitrophenol	TX	6175	10185805
2,4-Dinitrotoluene (2,4-DNT)	TX	6185	10185805
2,6-Dichlorophenol	TX	6005	10185805
2,6-Dinitrotoluene (2,6-DNT)	TX	6190	10185805
2-Acetylaminofluorene	TX	5515	10185805
2-Chloronaphthalene	TX	5795	10185805
2-Chlorophenol	TX	5800	10185805
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	TX	6360	10185805
2-Methylnaphthalene	TX	6385	10185805
2-Methylphenol (o-Cresol)	TX	6400	10185805
2-Nitroaniline	TX	6460	10185805
2-Nitrophenol	TX	6490	10185805
2-Picoline (2-Methylpyridine)	TX	5050	10185805
3,3'-Dichlorobenzidine	TX	5945	10185805



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Matrix: Solid & Chemical Materials

3-Methylphenol (m-Cresol)	TX	6405	10185805
3-Nitroaniline	TX	6465	10185805
4-Bromophenyl phenyl ether (BDE-3)	TX	5660	10185805
4-Chloro-3-methylphenol	TX	5700	10185805
4-Chloroaniline	TX	5745	10185805
4-Chlorophenyl phenylether	TX	5825	10185805
4-Methylphenol (p-Cresol)	TX	6410	10185805
4-Nitroaniline	TX	6470	10185805
4-Nitrophenol	TX	6500	10185805
7,12-Dimethylbenz(a) anthracene	TX	6115	10185805
Acenaphthene	TX	5500	10185805
Acenaphthylene	TX	5505	10185805
Acetophenone	TX	5510	10185805
Aniline	TX	5545	10185805
Anthracene	TX	5555	10185805
Atrazine	TX	7065	10186002
Azobenzene	TX	5562	10185805
Benzidine	TX	5595	10185805
Benzo(a)anthracene	TX	5575	10185805
Benzo(a)pyrene	TX	5580	10185805
Benzo(b)fluoranthene	TX	5585	10185805
Benzo(g,h,i)perylene	TX	5590	10185805
Benzo(k)fluoranthene	TX	5600	10185805
Benzoic acid	TX	5610	10185805
Benzyl alcohol	TX	5630	10185805
Biphenyl	TX	5640	10185601
bis(2-Chloroethoxy)methane	TX	5760	10185805
bis(2-Chloroethyl) ether	TX	5765	10185805
bis(2-Ethylhexyl) phthalate (Di(2-Ethylhexyl) phthalate, DEHP)	TX	6065	10185805
Butyl benzyl phthalate	TX	5670	10185805



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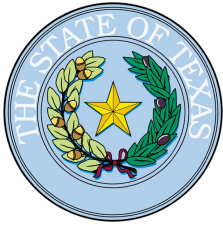
Issue Date:

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Matrix: Solid & Chemical Materials

Caprolactam	TX	7180	10186002
Carbazole	TX	5680	10185805
Chrysene	TX	5855	10185805
Dibenz(a,h) anthracene	TX	5895	10185805
Dibenzofuran	TX	5905	10185805
Diethyl phthalate	TX	6070	10185601
Dimethoate	TX	7475	10185805
Dimethyl phthalate	TX	6135	10185805
Di-n-butyl phthalate	TX	5925	10185805
Di-n-octyl phthalate	TX	6200	10185805
Diphenylamine	TX	6205	10185805
Ethyl methanesulfonate	TX	6260	10185805
Fluoranthene	TX	6265	10185805
Fluorene	TX	6270	10185805
Hexachlorobenzene	TX	6275	10185805
Hexachlorobutadiene	TX	4835	10185805
Hexachlorocyclopentadiene	TX	6285	10185805
Hexachloroethane	TX	4840	10185805
Hexachlorophene	TX	6290	10185805
Hexachloropropene	TX	6295	10185805
Indeno(1,2,3-cd) pyrene	TX	6315	10185805
Isophorone	TX	6320	10185805
Methapyrilene	TX	6345	10185805
Methyl methanesulfonate	TX	6375	10185805
Naphthalene	TX	5005	10185805
Nitrobenzene	TX	5015	10185805
n-Nitrosodiethylamine	TX	6525	10185805
n-Nitrosodimethylamine	TX	6530	10185805
n-Nitrosodi-n-butylamine	TX	5025	10185805
n-Nitrosodi-n-propylamine	TX	6545	10185805



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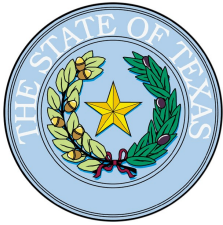
Issue Date:

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Matrix: *Solid & Chemical Materials*

n-Nitrosodiphenylamine	TX	6535	10185805
n-Nitrosomethylethylamine	TX	6550	10185805
n-Nitrosomorpholine	TX	6555	10185805
n-Nitrosopiperidine	TX	6560	10185805
n-Nitrosopyrrolidine	TX	6565	10185805
Pentachlorobenzene	TX	6590	10185805
Pentachloronitrobenzene (PCNB)	TX	6600	10185805
Pentachlorophenol	TX	6605	10185805
Phenacetin	TX	6610	10185805
Phenanthrene	TX	6615	10185805
Phenol	TX	6625	10185805
Pronamide (Kerb)	TX	6650	10185805
Pyrene	TX	6665	10185805
Pyridine	TX	5095	10185805
Quinoline	TX	6670	10185805
Method EPA 9012			
Analyte	AB	Analyte ID	Method ID
Amenable cyanide	TX	1510	10193405
Total cyanide	TX	1645	10193405
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	10196802
Method EPA 9045			
Analyte	AB	Analyte ID	Method ID
Corrosivity	TX	1615	10197805



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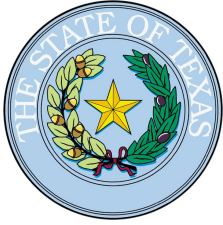
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Matrix: Solid & Chemical Materials

pH	TX	1900	10197805
Method EPA 9056			
Analyte	AB	Analyte ID	Method ID
Bromide	TX	1540	10199209
Chloride	TX	1575	10199209
Fluoride	TX	1730	10199209
Nitrate as N	TX	1810	10199209
Nitrate-nitrite	TX	1820	10199209
Nitrite as N	TX	1840	10199209
Orthophosphate as P	TX	1870	10199209
Sulfate	TX	2000	10199209
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	10204009
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



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Matrix: Solid & Chemical Materials

Method SM 2540 G

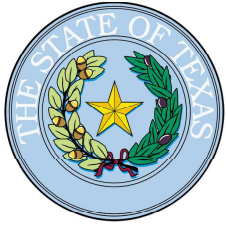
Analyte	AB	Analyte ID	Method ID
Residue-total (total solids)	TX	1950	20005203

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



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Expiration Date: 6/30/2022
Issue Date: 7/14/2021

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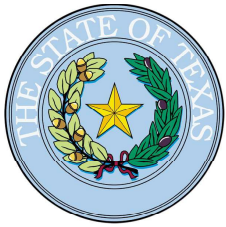
Matrix: *Drinking Water*

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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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

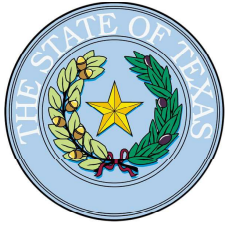
Analyte	AB	Analyte ID	Method ID
Mercury	TX	1095	10036609

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



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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

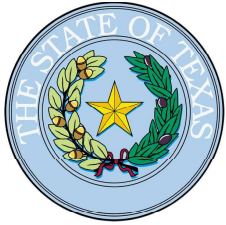
Analyte	AB	Analyte ID	Method ID
Total cyanide	TX	1635	60005303

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 EPA 1010

Analyte	AB	Analyte ID	Method ID
Ignitability	TX	1780	10116606

Method EPA 1311

Analyte	AB	Analyte ID	Method ID
TCLP	TX	849	10118806

Method EPA 1312

Analyte	AB	Analyte ID	Method ID
SPLP	TX	850	10119003

Method EPA 160.4

Analyte	AB	Analyte ID	Method ID
Residue-volatile	TX	1970	10010409

Method EPA 1664

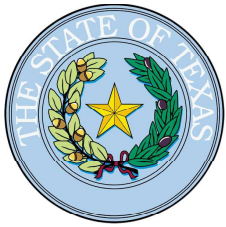
Analyte	AB	Analyte ID	Method ID
n-Hexane Extractable Material (HEM) (O&G)	TX	1803	10127807
Silica Gel Treated n-Hexane Extractable Material (SGT-HEM)	TX	10220	10127807

Method EPA 180.1

Analyte	AB	Analyte ID	Method ID
Turbidity	TX	2055	10011606

Method EPA 200.7

Analyte	AB	Analyte ID	Method ID
Aluminum	TX	1000	10013806
Antimony	TX	1005	10013806
Arsenic	TX	1010	10013806
Barium	TX	1015	10013806
Beryllium	TX	1020	10013806
Boron	TX	1025	10013806
Cadmium	TX	1030	10013806
Calcium	TX	1035	10013806
Chromium	TX	1040	10013806
Cobalt	TX	1050	10013806



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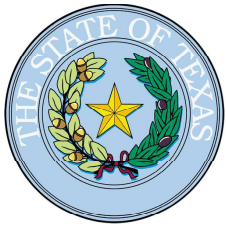
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Matrix: Non-Potable Water

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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Expiration Date: 6/30/2022
Issue Date: 7/14/2021

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Matrix: Non-Potable Water

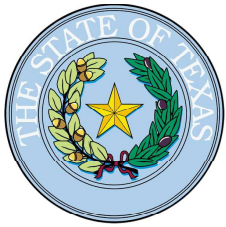
Copper	TX	1055	10014605
Iron	TX	1070	10014605
Lead	TX	1075	10014605
Magnesium	TX	1085	10014605
Manganese	TX	1090	10014605
Molybdenum	TX	1100	10014605
Nickel	TX	1105	10014605
Potassium	TX	1125	10014605
Selenium	TX	1140	10014605
Silver	TX	1150	10014605
Sodium	TX	1155	10014605
Strontium	TX	1160	10014605
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



Texas Commission on Environmental Quality

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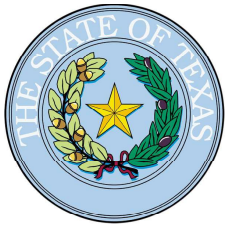
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Matrix: Non-Potable Water

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	10155609
Antimony	TX	1005	10155609
Arsenic	TX	1010	10155609
Barium	TX	1015	10155609
Beryllium	TX	1020	10155609



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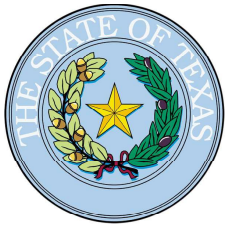
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Matrix: Non-Potable Water

Boron	TX	1025	10155609
Cadmium	TX	1030	10155609
Calcium	TX	1035	10155609
Chromium	TX	1040	10155609
Cobalt	TX	1050	10155609
Copper	TX	1055	10155609
Iron	TX	1070	10155609
Lead	TX	1075	10155609
Lithium	TX	1080	10155609
Magnesium	TX	1085	10155609
Manganese	TX	1090	10155609
Molybdenum	TX	1100	10155609
Nickel	TX	1105	10155609
Phosphorus	TX	1910	10155609
Potassium	TX	1125	10155609
Selenium	TX	1140	10155609
Silica as SiO ₂	TX	1990	10155609
Silver	TX	1150	10155609
Sodium	TX	1155	10155609
Strontium	TX	1160	10155609
Thallium	TX	1165	10155609
Tin	TX	1175	10155609
Titanium	TX	1180	10155609
Vanadium	TX	1185	10155609
Zinc	TX	1190	10155609

Method EPA 6020

Analyte	AB	Analyte ID	Method ID
Aluminum	TX	1000	10156419
Antimony	TX	1005	10156419
Arsenic	TX	1010	10156419



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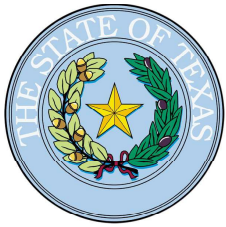
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Matrix: Non-Potable Water

Barium	TX	1015	10156419
Beryllium	TX	1020	10156419
Boron	TX	1025	10156419
Cadmium	TX	1030	10156419
Chromium	TX	1040	10156419
Cobalt	TX	1050	10156419
Copper	TX	1055	10156419
Iron	TX	1070	10156419
Lead	TX	1075	10156419
Magnesium	TX	1085	10156419
Manganese	TX	1090	10156419
Molybdenum	TX	1100	10156419
Nickel	TX	1105	10156419
Potassium	TX	1125	10156419
Selenium	TX	1140	10156419
Silver	TX	1150	10156419
Sodium	TX	1155	10156419
Strontium	TX	1160	10156419
Thallium	TX	1165	10156419
Tin	TX	1175	10156419
Titanium	TX	1180	10156419
Vanadium	TX	1185	10156419
Zinc	TX	1190	10156419

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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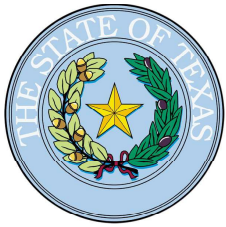
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Matrix: Non-Potable Water

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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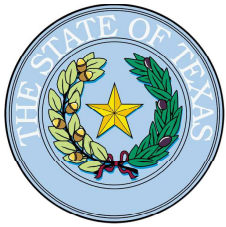
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Matrix: Non-Potable Water

Dichloroprop (Dichloroprop, 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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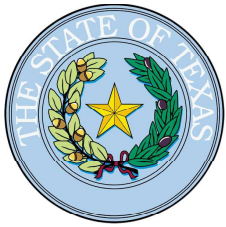
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Matrix: *Non-Potable Water*

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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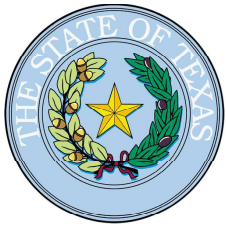
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Matrix: *Non-Potable Water*

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

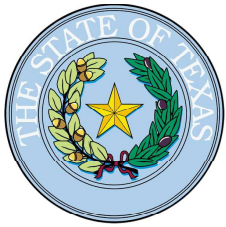
Dibenz(a,h) anthracene	TX	5895	10300024
Diethyl phthalate	TX	6070	10300024
Dimethyl phthalate	TX	6135	10300024
Di-n-butyl phthalate	TX	5925	10300024
Di-n-octyl phthalate	TX	6200	10300024
Fluoranthene	TX	6265	10300024
Fluorene	TX	6270	10300024
Hexachlorobenzene	TX	6275	10300024
Hexachlorobutadiene	TX	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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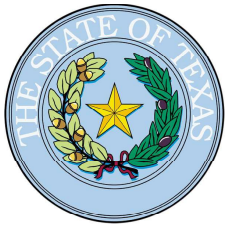
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Matrix: Non-Potable Water

Chromium (VI)	TX	1045	10162206
Method EPA 7470			
Analyte	AB	Analyte ID	Method ID
Mercury	TX	1095	10165603
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	10173203
Diesel range organics (DRO)	TX	9369	10173203
Ethanol	TX	4750	10173203
Ethylene glycol	TX	4785	10173203
Gasoline range organics (GRO)	TX	9408	10173203
Isobutyl alcohol (2-Methyl-1-propanol)	TX	4875	10173203
Isopropyl alcohol (2-Propanol, Isopropanol)	TX	4895	10173203
Methanol	TX	4930	10173203
n-Butyl alcohol (1-Butanol, n-Butanol)	TX	4425	10173203
n-Propanol (1-Propanol)	TX	5055	10173203
Propylene Glycol	TX	6657	10173203
Method EPA 8081			
Analyte	AB	Analyte ID	Method ID
4,4'-DDD	TX	7355	10178800
4,4'-DDE	TX	7360	10178800
4,4'-DDT	TX	7365	10178800
Alachlor	TX	7005	10178800
Aldrin	TX	7025	10178800
alpha-BHC (alpha-Hexachlorocyclohexane)	TX	7110	10178800
alpha-Chlordane	TX	7240	10178800



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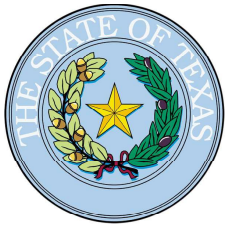
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Matrix: Non-Potable Water

beta-BHC (beta-Hexachlorocyclohexane)	TX	7115	10178800
Chlordane (tech.)	TX	7250	10178800
delta-BHC (delta-Hexachlorocyclohexane)	TX	7105	10178800
Dicofol (Kelthane)	TX	7460	10178800
Dieldrin	TX	7470	10178800
Endosulfan I	TX	7510	10178800
Endosulfan II	TX	7515	10178800
Endosulfan sulfate	TX	7520	10178800
Endrin	TX	7540	10178800
Endrin aldehyde	TX	7530	10178800
Endrin ketone	TX	7535	10178800
gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	TX	7120	10178800
gamma-Chlordane	TX	7245	10178800
Heptachlor	TX	7685	10178800
Heptachlor epoxide	TX	7690	10178800
Methoxychlor	TX	7810	10178800
Mirex	TX	7870	10178800
Toxaphene (Chlorinated camphene)	TX	8250	10178800

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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NELAP - Recognized Laboratory Fields of Accreditation

Eurofins Xenco, LLC - Houston

**4147 Greenbriar Drive
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Certificate:

T104704215-21-44

Expiration Date:

6/30/2022

Issue Date:

7/14/2021

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Matrix: *Non-Potable Water*

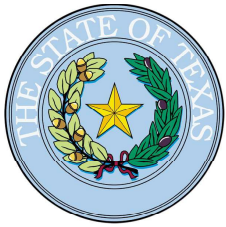
2,3',4,4'-Tetrachlorobiphenyl (BZ-66)	TX	8960	10179201
2,3-Dichlorobiphenyl (BZ-5)	TX	8920	10179201
2,4',5-Trichlorobiphenyl (BZ-31)	TX	8940	10179201
2-Chlorobiphenyl (BZ-1)	TX	8915	10179201
Aroclor-1016 (PCB-1016)	TX	8880	10179201
Aroclor-1221 (PCB-1221)	TX	8885	10179201
Aroclor-1232 (PCB-1232)	TX	8890	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	10183003
2,4-D	TX	8545	10183003
2,4-DB	TX	8560	10183003
Dalapon	TX	8555	10183003
Dicamba	TX	8595	10183003
Dichloroprop (Dichlorprop, Weedone)	TX	8605	10183003
Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	TX	8620	10183003
MCPA	TX	7775	10183003
MCPP	TX	7780	10183003
Pentachlorophenol	TX	6605	10183003
Picloram	TX	8645	10183003
Silvex (2,4,5-TP)	TX	8650	10183003

Method EPA 8260

Analyte	AB	Analyte ID	Method ID
1,1,1,2-Tetrachloroethane	TX	5105	10184404
1,1,1-Trichloroethane	TX	5160	10184404
1,1,2,2-Tetrachloroethane	TX	5110	10184404



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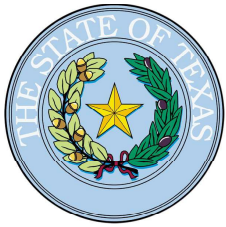
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Matrix: *Non-Potable Water*

1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	TX	5195	10184404
1,1,2-Trichloroethane	TX	5165	10184404
1,1-Dichloroethane	TX	4630	10184404
1,1-Dichloroethylene	TX	4640	10184404
1,1-Dichloropropene	TX	4670	10184404
1,2,3-Trichlorobenzene	TX	5150	10184404
1,2,3-Trichloropropane	TX	5180	10184404
1,2,4-Trichlorobenzene	TX	5155	10184404
1,2,4-Trimethylbenzene	TX	5210	10184404
1,2-Dibromo-3-chloropropane (DBCP)	TX	4570	10184404
1,2-Dibromoethane (EDB, Ethylene dibromide)	TX	4585	10184404
1,2-Dichlorobenzene	TX	4610	10184404
1,2-Dichloroethane (Ethylene dichloride)	TX	4635	10184404
1,2-Dichloropropane	TX	4655	10184404
1,3,5-Trimethylbenzene	TX	5215	10184404
1,3-Dichlorobenzene	TX	4615	10184404
1,3-Dichloropropane	TX	4660	10184404
1,4-Dichlorobenzene	TX	4620	10184404
1,4-Dioxane (1,4-Diethyleneoxide)	TX	4735	10184404
1-Chlorohexane	TX	4510	10184404
2,2-Dichloropropane	TX	4665	10184404
2-Butanone (Methyl ethyl ketone, MEK)	TX	4410	10184404
2-Chloroethyl vinyl ether	TX	4500	10184404
2-Chlorotoluene	TX	4535	10184404
2-Hexanone (MBK)	TX	4860	10184404
2-Nitropropane	TX	5020	10184404
4-Chlorotoluene	TX	4540	10184404
4-Isopropyltoluene (p-Cymene)	TX	4915	10184404
4-Methyl-2-pentanone (MIBK)	TX	4995	10184404
Acetone (2-Propanone)	TX	4315	10184404



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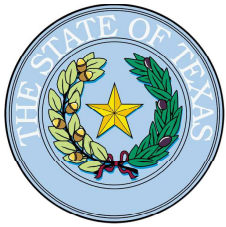
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Matrix: *Non-Potable Water*

Acetonitrile	TX	4320	10184404
Acrolein (Propenal)	TX	4325	10184404
Acrylonitrile	TX	4340	10184404
Allyl chloride (3-Chloropropene)	TX	4355	10184404
Benzene	TX	4375	10184404
Benzyl chloride	TX	5635	10184404
Bromobenzene	TX	4385	10184404
Bromochloromethane	TX	4390	10184404
Bromodichloromethane	TX	4395	10184404
Bromoform	TX	4400	10184404
Carbon disulfide	TX	4450	10184404
Carbon tetrachloride	TX	4455	10184404
Chlorobenzene	TX	4475	10184404
Chlorodibromomethane	TX	4575	10184404
Chloroethane (Ethyl chloride)	TX	4485	10184404
Chloroform	TX	4505	10184404
Chloroprene (2-Chloro-1,3-butadiene)	TX	4525	10184404
cis-1,2-Dichloroethylene	TX	4645	10184404
cis-1,3-Dichloropropene	TX	4680	10184404
Dibromofluoromethane	TX	4590	10184404
Dibromomethane (Methylene bromide)	TX	4595	10184404
Dichlorodifluoromethane (Freon-12)	TX	4625	10184404
Diethyl ether	TX	4725	10184404
Di-isopropylether (DIPE)	TX	9375	10184404
Ethyl acetate	TX	4755	10184404
Ethyl methacrylate	TX	4810	10184404
Ethylbenzene	TX	4765	10184404
Ethylene oxide	TX	4795	10184404
Ethyl-t-butylether (ETBE) (2-Ethoxy-2-methylpropane)	TX	4770	10184404
Hexachlorobutadiene	TX	4835	10184404



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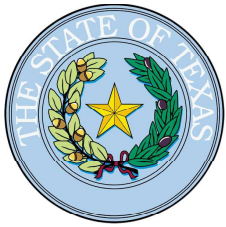
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Matrix: *Non-Potable Water*

Iodomethane (Methyl iodide)	TX	4870	10184404
Isobutyl alcohol (2-Methyl-1-propanol)	TX	4875	10184404
Isopropyl alcohol (2-Propanol, Isopropanol)	TX	4895	10184404
Isopropylbenzene (Cumene)	TX	4900	10184404
m+p-xylene	TX	5240	10184404
Methacrylonitrile	TX	4925	10184404
Methyl acetate	TX	4940	10184802
Methyl bromide (Bromomethane)	TX	4950	10184404
Methyl chloride (Chloromethane)	TX	4960	10184404
Methyl methacrylate	TX	4990	10184404
Methyl tert-butyl ether (MTBE)	TX	5000	10184404
Methylcyclohexane	TX	4965	10184608
Methylene chloride (Dichloromethane)	TX	4975	10184404
Naphthalene	TX	5005	10184404
n-Butyl alcohol (1-Butanol, n-Butanol)	TX	4425	10184404
n-Butylbenzene	TX	4435	10184404
n-Propylbenzene	TX	5090	10184404
o-Xylene	TX	5250	10184404
Propionitrile (Ethyl cyanide)	TX	5080	10184404
sec-Butylbenzene	TX	4440	10184404
Styrene	TX	5100	10184404
T-amylmethylether (TAME)	TX	4370	10184404
tert-Butyl alcohol	TX	4420	10184404
tert-Butylbenzene	TX	4445	10184404
Tetrachloroethylene (Perchloroethylene)	TX	5115	10184404
Toluene	TX	5140	10184404
Total trihalomethanes	TX	5205	10184404
trans-1,2-Dichloroethylene	TX	4700	10184404
trans-1,3-Dichloropropylene	TX	4685	10184404
trans-1,4-Dichloro-2-butene	TX	4605	10184404



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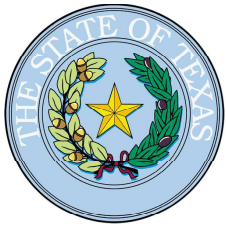
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Matrix: Non-Potable Water

Trichloroethene (Trichloroethylene)	TX	5170	10184404
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	TX	5175	10184404
Vinyl acetate	TX	5225	10184404
Vinyl chloride	TX	5235	10184404
Xylene (total)	TX	5260	10184404

Method EPA 8270

Analyte	AB	Analyte ID	Method ID
1,2,4,5-Tetrachlorobenzene	TX	6715	10185601
1,2,4-Trichlorobenzene	TX	5155	10185805
1,2-Dichlorobenzene	TX	4610	10185805
1,2-Diphenylhydrazine	TX	6220	10185805
1,3,5-Trinitrobenzene (1,3,5-TNB)	TX	6885	10185805
1,3-Dichlorobenzene	TX	4615	10185805
1,3-Dinitrobenzene (1,3-DNB)	TX	6160	10185805
1,4-Dichlorobenzene	TX	4620	10185805
1,4-Naphthoquinone	TX	6420	10185805
1,4-Phenylenediamine	TX	6630	10185805
1-Naphthylamine	TX	6425	10185805
2,2'-Oxybis(1-chloropropane) (bis(2-Chloro-1-methylethyl)ether)	TX	4659	10185805
2,3,4,6-Tetrachlorophenol	TX	6735	10185805
2,4,5-Trichlorophenol	TX	6835	10185805
2,4,6-Trichlorophenol	TX	6840	10185805
2,4-Dichlorophenol	TX	6000	10185805
2,4-Dimethylphenol	TX	6130	10185805
2,4-Dinitrophenol	TX	6175	10185805
2,4-Dinitrotoluene (2,4-DNT)	TX	6185	10185805
2,6-Dichlorophenol	TX	6005	10185805
2,6-Dinitrotoluene (2,6-DNT)	TX	6190	10185805
2-Acetylaminofluorene	TX	5515	10185805
2-Chloronaphthalene	TX	5795	10185805



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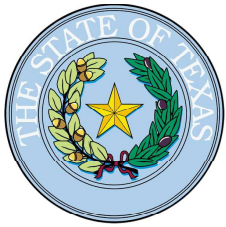
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Matrix: *Non-Potable Water*

2-Chlorophenol	TX	5800	10185805
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	TX	6360	10185805
2-Methylaniline (o-Toluidine)	TX	5145	10185805
2-Methylnaphthalene	TX	6385	10185805
2-Methylphenol (o-Cresol)	TX	6400	10185805
2-Naphthylamine	TX	6430	10185805
2-Nitroaniline	TX	6460	10185805
2-Nitrophenol	TX	6490	10185805
2-Picoline (2-Methylpyridine)	TX	5050	10185805
3,3'-Dichlorobenzidine	TX	5945	10185805
3,3'-Dimethylbenzidine	TX	6120	10185805
3-Methylcholanthrene	TX	6355	10185805
3-Methylphenol (m-Cresol)	TX	6405	10185805
3-Nitroaniline	TX	6465	10185805
4-Aminobiphenyl	TX	5540	10185805
4-Bromophenyl phenyl ether (BDE-3)	TX	5660	10185805
4-Chloro-3-methylphenol	TX	5700	10185805
4-Chloroaniline	TX	5745	10185805
4-Chlorophenyl phenylether	TX	5825	10185805
4-Dimethyl aminoazobenzene	TX	6105	10185805
4-Methylphenol (p-Cresol)	TX	6410	10185805
4-Nitroaniline	TX	6470	10185805
4-Nitrophenol	TX	6500	10185805
5-Nitro-o-toluidine	TX	6570	10185805
7,12-Dimethylbenz(a) anthracene	TX	6115	10185805
Acenaphthene	TX	5500	10185805
Acenaphthylene	TX	5505	10185805
Acetophenone	TX	5510	10185805
Aniline	TX	5545	10185805
Anthracene	TX	5555	10185805



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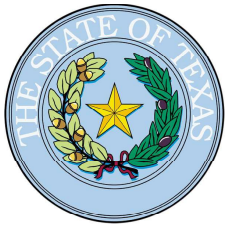
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Matrix: *Non-Potable Water*

Atrazine	TX	7065	10186002
Azobenzene	TX	5562	10185805
Benzidine	TX	5595	10185805
Benzo(a)anthracene	TX	5575	10185805
Benzo(a)pyrene	TX	5580	10185805
Benzo(b)fluoranthene	TX	5585	10185805
Benzo(g,h,i)perylene	TX	5590	10185805
Benzo(k)fluoranthene	TX	5600	10185805
Benzoic acid	TX	5610	10185805
Benzyl alcohol	TX	5630	10185805
Biphenyl	TX	5640	10185601
bis(2-Chloroethoxy)methane	TX	5760	10185805
bis(2-Chloroethyl) ether	TX	5765	10185805
bis(2-Ethylhexyl) phthalate (Di(2-Ethylhexyl) phthalate, DEHP)	TX	6065	10185805
Butyl benzyl phthalate	TX	5670	10185805
Caprolactam	TX	7180	10185805
Carbaryl (Sevin)	TX	7195	10185805
Carbazole	TX	5680	10185805
Chlorobenzilate	TX	7260	10185805
Chrysene	TX	5855	10185805
Diallate	TX	7405	10185805
Dibenz(a,h) anthracene	TX	5895	10185805
Dibenzofuran	TX	5905	10185805
Diethyl phthalate	TX	6070	10185805
Dimethoate	TX	7475	10185805
Dimethyl phthalate	TX	6135	10185805
Di-n-butyl phthalate	TX	5925	10185805
Di-n-octyl phthalate	TX	6200	10185805
Diphenylamine	TX	6205	10185805
Disulfoton	TX	8625	10185805



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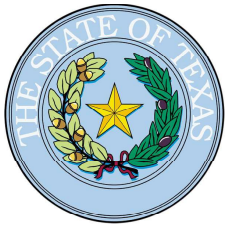
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Matrix: Non-Potable Water

Ethyl methanesulfonate	TX	6260	10185805
Famphur	TX	7580	10185805
Fluoranthene	TX	6265	10185805
Fluorene	TX	6270	10185805
Hexachlorobenzene	TX	6275	10185805
Hexachlorobutadiene	TX	4835	10185805
Hexachlorocyclopentadiene	TX	6285	10185805
Hexachloroethane	TX	4840	10185805
Hexachlorophene	TX	6290	10185805
Hexachloropropene	TX	6295	10185805
Indeno(1,2,3-cd) pyrene	TX	6315	10185805
Isodrin	TX	7725	10185805
Isophorone	TX	6320	10185805
Isosafrole	TX	6325	10185805
Kepone	TX	7740	10185805
Methapyrilene	TX	6345	10185805
Methyl methanesulfonate	TX	6375	10185805
Methyl parathion (Parathion, methyl)	TX	7825	10185805
Naphthalene	TX	5005	10185805
Nitrobenzene	TX	5015	10185805
n-Nitrosodiethylamine	TX	6525	10185805
n-Nitrosodimethylamine	TX	6530	10185805
n-Nitrosodi-n-butylamine	TX	5025	10185805
n-Nitrosodi-n-propylamine	TX	6545	10185805
n-Nitrosodiphenylamine	TX	6535	10185805
n-Nitrosomethylethylamine	TX	6550	10185805
n-Nitrosomorpholine	TX	6555	10185805
n-Nitrosopiperidine	TX	6560	10185805
n-Nitrosopyrrolidine	TX	6565	10185805
o,o,o-Triethyl phosphorothioate	TX	8290	10185805



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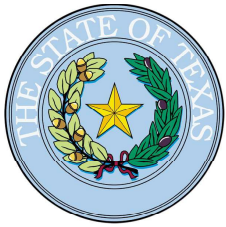
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Matrix: Non-Potable Water

Parathion, ethyl	TX	7955	10185805
Pentachlorobenzene	TX	6590	10185805
Pentachloronitrobenzene (PCNB)	TX	6600	10185805
Pentachlorophenol	TX	6605	10185805
Phenacetin	TX	6610	10185805
Phenanthrene	TX	6615	10185805
Phenol	TX	6625	10185805
Phorate	TX	7985	10185805
Pronamide (Kerb)	TX	6650	10185805
Pyrene	TX	6665	10185805
Pyridine	TX	5095	10185805
Quinoline	TX	6670	10185805
Safrole	TX	6685	10185805
Thionazin (Zinophos)	TX	8235	10185805
Method EPA 9012			
Analyte	AB	Analyte ID	Method ID
Amenable cyanide	TX	1510	10193405
Total cyanide	TX	1645	10193405
Method EPA 9040			
Analyte	AB	Analyte ID	Method ID
pH	TX	1900	10196802
Method EPA 9050			
Analyte	AB	Analyte ID	Method ID
Conductivity	TX	1610	10198604
Method EPA 9056			
Analyte	AB	Analyte ID	Method ID
Bromide	TX	1540	10199209
Chloride	TX	1575	10199209
Fluoride	TX	1730	10199209
Nitrate as N	TX	1810	10199209
Nitrate-nitrite	TX	1820	10199209



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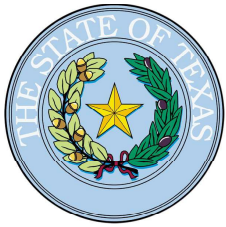
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Matrix: Non-Potable Water

Nitrite as N	TX	1840	10199209
Sulfate	TX	2000	10199209
Method EPA 9060			
Analyte	AB	Analyte ID	Method ID
Total Organic Carbon (TOC)	TX	2040	10200201
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
Method SM 2120 C			
Analyte	AB	Analyte ID	Method ID
Color	TX	1605	20002000



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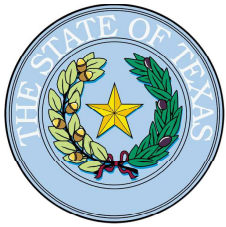
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Matrix: Non-Potable Water

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 Total residual chlorine	AB TX	Analyte ID 1940	Method ID 20020604
Method SM 4500-CN ⁻ G			
Analyte	AB	Analyte ID	Method ID



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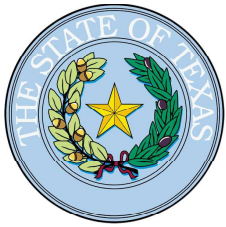
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Matrix: Non-Potable Water

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	10116606

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

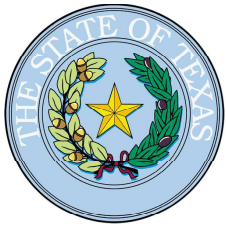
Analyte	AB	Analyte ID	Method ID
Bromide	TX	1540	10053200
Chloride	TX	1575	10053200
Fluoride	TX	1730	10053200
Nitrate as N	TX	1810	10053200
Nitrate-nitrite	TX	1820	10053200
Nitrite as N	TX	1840	10053200
Orthophosphate as P	TX	1870	10053200
Sulfate	TX	2000	10053200

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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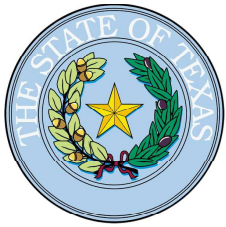
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Matrix: Solid & Chemical Materials

Nitrite as N	TX	1840	10067604
Method EPA 6010			
Analyte	AB	Analyte ID	Method ID
Aluminum	TX	1000	10155609
Antimony	TX	1005	10155609
Arsenic	TX	1010	10155609
Barium	TX	1015	10155609
Beryllium	TX	1020	10155609
Boron	TX	1025	10155609
Cadmium	TX	1030	10155609
Calcium	TX	1035	10155609
Chromium	TX	1040	10155609
Cobalt	TX	1050	10155609
Copper	TX	1055	10155609
Iron	TX	1070	10155609
Lead	TX	1075	10155609
Lithium	TX	1080	10155609
Magnesium	TX	1085	10155609
Manganese	TX	1090	10155609
Molybdenum	TX	1100	10155609
Nickel	TX	1105	10155609
Phosphorus	TX	1910	10155609
Potassium	TX	1125	10155609
Selenium	TX	1140	10155609
Silica as SiO ₂	TX	1990	10155609
Silver	TX	1150	10155609
Sodium	TX	1155	10155609
Strontium	TX	1160	10155609
Thallium	TX	1165	10155609
Tin	TX	1175	10155609



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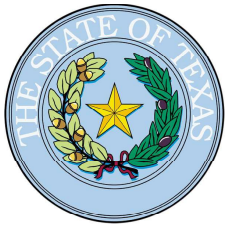
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Matrix: Solid & Chemical Materials

Titanium	TX	1180	10155609
Vanadium	TX	1185	10155609
Zinc	TX	1190	10155609

Method EPA 6020

Analyte	AB	Analyte ID	Method ID
Aluminum	TX	1000	10156419
Antimony	TX	1005	10156419
Arsenic	TX	1010	10156419
Barium	TX	1015	10156419
Beryllium	TX	1020	10156419
Boron	TX	1025	10156419
Cadmium	TX	1030	10156419
Calcium	TX	1035	10156419
Chromium	TX	1040	10156419
Cobalt	TX	1050	10156419
Copper	TX	1055	10156419
Iron	TX	1070	10156419
Lead	TX	1075	10156419
Magnesium	TX	1085	10156419
Manganese	TX	1090	10156419
Molybdenum	TX	1100	10156419
Nickel	TX	1105	10156419
Potassium	TX	1125	10156419
Selenium	TX	1140	10156419
Silver	TX	1150	10156419
Sodium	TX	1155	10156419
Strontium	TX	1160	10156419
Thallium	TX	1165	10156419
Tin	TX	1175	10156419
Titanium	TX	1180	10156419



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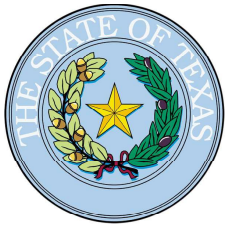
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Matrix: Solid & Chemical Materials

Vanadium	TX	1185	10156419
Zinc	TX	1190	10156419
Method EPA 7196			
Analyte	AB	Analyte ID	Method ID
Chromium (VI)	TX	1045	10162206
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 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	10173203
Diesel range organics (DRO)	TX	9369	10173203
Ethanol	TX	4750	10173203
Ethylene glycol	TX	4785	10173203
Gasoline range organics (GRO)	TX	9408	10173203
Isobutyl alcohol (2-Methyl-1-propanol)	TX	4875	10173203
Isopropyl alcohol (2-Propanol, Isopropanol)	TX	4895	10173203
Methanol	TX	4930	10173203
n-Butyl alcohol (1-Butanol, n-Butanol)	TX	4425	10173203
n-Propanol (1-Propanol)	TX	5055	10173203
Propylene Glycol	TX	6657	10173203
Method EPA 8081			
Analyte	AB	Analyte ID	Method ID



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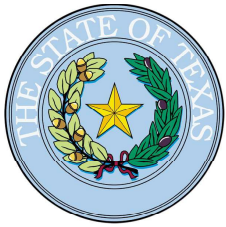
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Matrix: Solid & Chemical Materials

4,4'-DDD	TX	7355	10178800
4,4'-DDE	TX	7360	10178800
4,4'-DDT	TX	7365	10178800
Alachlor	TX	7005	10178800
Aldrin	TX	7025	10178800
alpha-BHC (alpha-Hexachlorocyclohexane)	TX	7110	10178800
alpha-Chlordane	TX	7240	10178800
beta-BHC (beta-Hexachlorocyclohexane)	TX	7115	10178800
Chlordane (tech.)	TX	7250	10178800
DDD, Total	TX	10314	10178800
DDE, Total	TX	10315	10178800
DDT, Total	TX	10316	10178800
delta-BHC (delta-Hexachlorocyclohexane)	TX	7105	10178800
Dieldrin	TX	7470	10178800
Endosulfan I	TX	7510	10178800
Endosulfan II	TX	7515	10178800
Endosulfan sulfate	TX	7520	10178800
Endrin	TX	7540	10178800
Endrin aldehyde	TX	7530	10178800
Endrin ketone	TX	7535	10178800
gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	TX	7120	10178800
gamma-Chlordane	TX	7245	10178800
Heptachlor	TX	7685	10178800
Heptachlor epoxide	TX	7690	10178800
Methoxychlor	TX	7810	10178800
Toxaphene (Chlorinated camphene)	TX	8250	10178800

Method EPA 8082

Analyte	AB	Analyte ID	Method ID
2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl (BZ-206)	TX	9095	10179007
2,2',3,3',4,4',5-Heptachlorobiphenyl (BZ-170)	TX	9065	10179007



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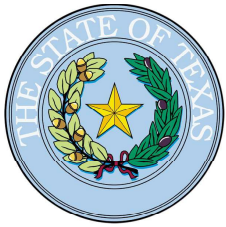
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Matrix: *Solid & Chemical Materials*

2,2',3,4,4',5,5'-Heptachlorobiphenyl (BZ-180)	TX	9134	10179007
2,2',3,4,4',5',6-Heptachlorobiphenyl (BZ-183)	TX	9075	10179007
2,2',3,4,4',5'-Hexachlorobiphenyl (BZ-138)	TX	9025	10179007
2,2',3,4',5,5',6-Heptachlorobiphenyl (BZ-187)	TX	9080	10179007
2,2',3,4,5,5'-Hexachlorobiphenyl (BZ-141)	TX	9030	10179007
2,2',3,4,5'-Pentachlorobiphenyl (BZ-87)	TX	8975	10179007
2,2',3,5,5',6-Hexachlorobiphenyl (BZ-151)	TX	9035	10179007
2,2',3,5'-Tetrachlorobiphenyl (BZ-44)	TX	8945	10179007
2,2',4,4',5,5'-Hexachlorobiphenyl (BZ-153)	TX	9040	10179007
2,2',4,5,5'-Pentachlorobiphenyl (BZ-101)	TX	8980	10179007
2,2',5,5'-Tetrachlorobiphenyl (BZ-52)	TX	8955	10179007
2,2',5-Trichlorobiphenyl (BZ-18)	TX	8930	10179007
2,3,3',4',6-Pentachlorobiphenyl (BZ-110)	TX	8990	10179007
2,3',4,4'-Tetrachlorobiphenyl (BZ-66)	TX	8960	10179007
2,3-Dichlorobiphenyl (BZ-5)	TX	8920	10179007
2,4',5-Trichlorobiphenyl (BZ-31)	TX	8940	10179007
2-Chlorobiphenyl (BZ-1)	TX	8915	10179007
Aroclor-1016 (PCB-1016)	TX	8880	10179007
Aroclor-1221 (PCB-1221)	TX	8885	10179007
Aroclor-1232 (PCB-1232)	TX	8890	10179007
Aroclor-1242 (PCB-1242)	TX	8895	10179007
Aroclor-1248 (PCB-1248)	TX	8900	10179007
Aroclor-1254 (PCB-1254)	TX	8905	10179007
Aroclor-1260 (PCB-1260)	TX	8910	10179007
PCBs (total)	TX	8870	10179007

Method EPA 8151

Analyte	AB	Analyte ID	Method ID
2,4,5-T	TX	8655	10183003
2,4-D	TX	8545	10183003
2,4-DB	TX	8560	10183003



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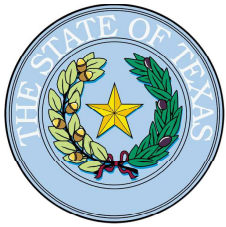
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Matrix: Solid & Chemical Materials

Dalapon	TX	8555	10183003
Dicamba	TX	8595	10183003
Dichloroprop (Dichloroprop, Weedone)	TX	8605	10183003
Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	TX	8620	10183003
MCPA	TX	7775	10183003
MCPP	TX	7780	10183003
Pentachlorophenol	TX	6605	10183003
Silvex (2,4,5-TP)	TX	8650	10183003

Method EPA 8260

Analyte	AB	Analyte ID	Method ID
1,1,1,2-Tetrachloroethane	TX	5105	10184404
1,1,1-Trichloroethane	TX	5160	10184404
1,1,2,2-Tetrachloroethane	TX	5110	10184404
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	TX	5195	10184802
1,1,2-Trichloroethane	TX	5165	10184404
1,1-Dichloroethane	TX	4630	10184404
1,1-Dichloroethylene	TX	4640	10184404
1,1-Dichloropropene	TX	4670	10184404
1,2,3-Trichlorobenzene	TX	5150	10184404
1,2,3-Trichloropropane	TX	5180	10184404
1,2,4-Trichlorobenzene	TX	5155	10184404
1,2,4-Trimethylbenzene	TX	5210	10184404
1,2-Dibromo-3-chloropropane (DBCP)	TX	4570	10184404
1,2-Dibromoethane (EDB, Ethylene dibromide)	TX	4585	10184404
1,2-Dichlorobenzene	TX	4610	10184404
1,2-Dichloroethane (Ethylene dichloride)	TX	4635	10184404
1,2-Dichloropropane	TX	4655	10184404
1,3,5-Trimethylbenzene	TX	5215	10184404
1,3-Dichlorobenzene	TX	4615	10184404
1,3-Dichloropropane	TX	4660	10184404



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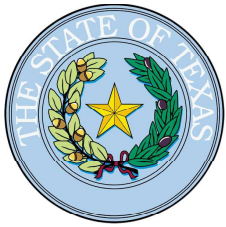
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Matrix: Solid & Chemical Materials

1,4-Dichlorobenzene	TX	4620	10184404
1,4-Dioxane (1,4-Diethyleneoxide)	TX	4735	10184404
1-Chlorohexane	TX	4510	10184404
2,2-Dichloropropane	TX	4665	10184404
2-Butanone (Methyl ethyl ketone, MEK)	TX	4410	10184404
2-Chloroethyl vinyl ether	TX	4500	10184404
2-Chlorotoluene	TX	4535	10184404
2-Hexanone (MBK)	TX	4860	10184404
4-Chlorotoluene	TX	4540	10184404
4-Isopropyltoluene (p-Cymene)	TX	4915	10184404
4-Methyl-2-pentanone (MIBK)	TX	4995	10184404
Acetone (2-Propanone)	TX	4315	10184404
Acetonitrile	TX	4320	10184404
Acrolein (Propenal)	TX	4325	10184404
Acrylonitrile	TX	4340	10184404
Allyl chloride (3-Chloropropene)	TX	4355	10184404
Benzene	TX	4375	10184404
Bromobenzene	TX	4385	10184404
Bromochloromethane	TX	4390	10184404
Bromodichloromethane	TX	4395	10184404
Bromoform	TX	4400	10184404
Carbon disulfide	TX	4450	10184404
Carbon tetrachloride	TX	4455	10184404
Chlorobenzene	TX	4475	10184404
Chlorodibromomethane	TX	4575	10184404
Chloroethane (Ethyl chloride)	TX	4485	10184404
Chloroform	TX	4505	10184404
Chloroprene (2-Chloro-1,3-butadiene)	TX	4525	10184404
cis-1,2-Dichloroethylene	TX	4645	10184404
cis-1,3-Dichloropropene	TX	4680	10184404



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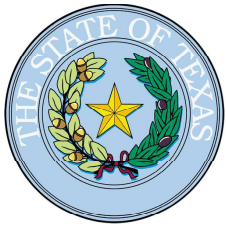
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Matrix: Solid & Chemical Materials

Dibromomethane (Methylene bromide)	TX	4595	10184404
Dichlorodifluoromethane (Freon-12)	TX	4625	10184404
Ethyl methacrylate	TX	4810	10184404
Ethylbenzene	TX	4765	10184404
Hexachlorobutadiene	TX	4835	10184404
Iodomethane (Methyl iodide)	TX	4870	10184404
Isopropylbenzene (Cumene)	TX	4900	10184404
m+p-xylene	TX	5240	10184404
Methacrylonitrile	TX	4925	10184404
Methyl acetate	TX	4940	10184608
Methyl bromide (Bromomethane)	TX	4950	10184404
Methyl chloride (Chloromethane)	TX	4960	10184404
Methyl tert-butyl ether (MTBE)	TX	5000	10184404
Methylcyclohexane	TX	4965	10184608
Methylene chloride (Dichloromethane)	TX	4975	10184404
Naphthalene	TX	5005	10184404
n-Butyl alcohol (1-Butanol, n-Butanol)	TX	4425	10184404
n-Butylbenzene	TX	4435	10184404
n-Propylbenzene	TX	5090	10184404
o-Xylene	TX	5250	10184404
sec-Butylbenzene	TX	4440	10184404
Styrene	TX	5100	10184404
tert-Butyl alcohol	TX	4420	10184404
tert-Butylbenzene	TX	4445	10184404
Tetrachloroethylene (Perchloroethylene)	TX	5115	10184404
Toluene	TX	5140	10184404
trans-1,2-Dichloroethylene	TX	4700	10184404
trans-1,3-Dichloropropylene	TX	4685	10184404
trans-1,4-Dichloro-2-butene	TX	4605	10184404
Trichloroethene (Trichloroethylene)	TX	5170	10184404



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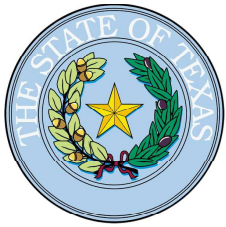
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Matrix: *Solid & Chemical Materials*

Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	TX	5175	10184404
Vinyl acetate	TX	5225	10184404
Vinyl chloride	TX	5235	10184404
Xylene (total)	TX	5260	10184404

Method EPA 8270

Analyte	AB	Analyte ID	Method ID
1,2,4,5-Tetrachlorobenzene	TX	6715	10185407
1,2,4-Trichlorobenzene	TX	5155	10185805
1,2-Dichlorobenzene	TX	4610	10185805
1,2-Diphenylhydrazine	TX	6220	10185805
1,3-Dichlorobenzene	TX	4615	10185805
1,3-Dinitrobenzene (1,3-DNB)	TX	6160	10185805
1,4-Dichlorobenzene	TX	4620	10185805
2,2'-Oxybis(1-chloropropane) (bis(2-Chloro-1-methylethyl)ether)	TX	4659	10185805
2,3,4,6-Tetrachlorophenol	TX	6735	10185805
2,4,5-Trichlorophenol	TX	6835	10185805
2,4,6-Trichlorophenol	TX	6840	10185805
2,4-Dichlorophenol	TX	6000	10185805
2,4-Dimethylphenol	TX	6130	10185805
2,4-Dinitrophenol	TX	6175	10185805
2,4-Dinitrotoluene (2,4-DNT)	TX	6185	10185805
2,6-Dichlorophenol	TX	6005	10185805
2,6-Dinitrotoluene (2,6-DNT)	TX	6190	10185805
2-Acetylaminofluorene	TX	5515	10185805
2-Chloronaphthalene	TX	5795	10185805
2-Chlorophenol	TX	5800	10185805
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	TX	6360	10185805
2-Methylnaphthalene	TX	6385	10185805
2-Methylphenol (o-Cresol)	TX	6400	10185805
2-Nitroaniline	TX	6460	10185805



Texas Commission on Environmental Quality



NELAP - Recognized Laboratory Fields of Accreditation

Eurofins Xenco, LLC - Houston

**4147 Greenbriar Drive
Stafford, TX 77477-3907**

Certificate:

T104704215-21-44

Expiration Date:

6/30/2022

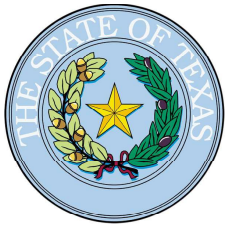
Issue Date:

7/14/2021

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Matrix: Solid & Chemical Materials

2-Nitrophenol	TX	6490	10185805
2-Picoline (2-Methylpyridine)	TX	5050	10185805
3,3'-Dichlorobenzidine	TX	5945	10185805
3-Methylphenol (m-Cresol)	TX	6405	10185805
3-Nitroaniline	TX	6465	10185805
4-Bromophenyl phenyl ether (BDE-3)	TX	5660	10185805
4-Chloro-3-methylphenol	TX	5700	10185805
4-Chloroaniline	TX	5745	10185805
4-Chlorophenyl phenylether	TX	5825	10185805
4-Methylphenol (p-Cresol)	TX	6410	10185805
4-Nitroaniline	TX	6470	10185805
4-Nitrophenol	TX	6500	10185805
7,12-Dimethylbenz(a) anthracene	TX	6115	10185805
Acenaphthene	TX	5500	10185805
Acenaphthylene	TX	5505	10185805
Acetophenone	TX	5510	10185805
Aniline	TX	5545	10185805
Anthracene	TX	5555	10185805
Atrazine	TX	7065	10186002
Azobenzene	TX	5562	10185805
Benzidine	TX	5595	10185805
Benzo(a)anthracene	TX	5575	10185805
Benzo(a)pyrene	TX	5580	10185805
Benzo(b)fluoranthene	TX	5585	10185805
Benzo(g,h,i)perylene	TX	5590	10185805
Benzo(k)fluoranthene	TX	5600	10185805
Benzoic acid	TX	5610	10185805
Benzyl alcohol	TX	5630	10185805
Biphenyl	TX	5640	10185601
bis(2-Chloroethoxy)methane	TX	5760	10185805



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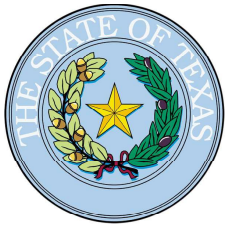
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Matrix: Solid & Chemical Materials

bis(2-Chloroethyl) ether	TX	5765	10185805
bis(2-Ethylhexyl) phthalate (Di(2-Ethylhexyl) phthalate, DEHP)	TX	6065	10185805
Butyl benzyl phthalate	TX	5670	10185805
Caprolactam	TX	7180	10186002
Carbazole	TX	5680	10185805
Chrysene	TX	5855	10185805
Dibenz(a,h) anthracene	TX	5895	10185805
Dibenzofuran	TX	5905	10185805
Diethyl phthalate	TX	6070	10185601
Dimethoate	TX	7475	10185805
Dimethyl phthalate	TX	6135	10185805
Di-n-butyl phthalate	TX	5925	10185805
Di-n-octyl phthalate	TX	6200	10185805
Diphenylamine	TX	6205	10185805
Ethyl methanesulfonate	TX	6260	10185805
Fluoranthene	TX	6265	10185805
Fluorene	TX	6270	10185805
Hexachlorobenzene	TX	6275	10185805
Hexachlorobutadiene	TX	4835	10185805
Hexachlorocyclopentadiene	TX	6285	10185805
Hexachloroethane	TX	4840	10185805
Hexachlorophene	TX	6290	10185805
Hexachloropropene	TX	6295	10185805
Indeno(1,2,3-cd) pyrene	TX	6315	10185805
Isophorone	TX	6320	10185805
Methapyrilene	TX	6345	10185805
Methyl methanesulfonate	TX	6375	10185805
Naphthalene	TX	5005	10185805
Nitrobenzene	TX	5015	10185805
n-Nitrosodiethylamine	TX	6525	10185805



Texas Commission on Environmental Quality



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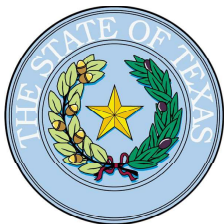
**4147 Greenbriar Drive
Stafford, TX 77477-3907**

Certificate: T104704215-21-44
Expiration Date: 6/30/2022
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Matrix: Solid & Chemical Materials

n-Nitrosodimethylamine	TX	6530	10185805
n-Nitrosodi-n-butylamine	TX	5025	10185805
n-Nitrosodi-n-propylamine	TX	6545	10185805
n-Nitrosodiphenylamine	TX	6535	10185805
n-Nitrosomethylethylamine	TX	6550	10185805
n-Nitrosomorpholine	TX	6555	10185805
n-Nitrosopiperidine	TX	6560	10185805
n-Nitrosopyrrolidine	TX	6565	10185805
Pentachlorobenzene	TX	6590	10185805
Pentachloronitrobenzene (PCNB)	TX	6600	10185805
Pentachlorophenol	TX	6605	10185805
Phenacetin	TX	6610	10185805
Phenanthrene	TX	6615	10185805
Phenol	TX	6625	10185805
Pronamide (Kerb)	TX	6650	10185805
Pyrene	TX	6665	10185805
Pyridine	TX	5095	10185805
Quinoline	TX	6670	10185805
Method EPA 9012			
Analyte	AB	Analyte ID	Method ID
Amenable cyanide	TX	1510	10193405
Total cyanide	TX	1645	10193405
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	10196802



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Matrix: *Solid & Chemical Materials*

Method EPA 9045

Analyte	AB	Analyte ID	Method ID
Corrosivity	TX	1615	10197805
pH	TX	1900	10197805

Method EPA 9056

Analyte	AB	Analyte ID	Method ID
Bromide	TX	1540	10199209
Chloride	TX	1575	10199209
Fluoride	TX	1730	10199209
Nitrate as N	TX	1810	10199209
Nitrate-nitrite	TX	1820	10199209
Nitrite as N	TX	1840	10199209
Orthophosphate as P	TX	1870	10199209
Sulfate	TX	2000	10199209

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

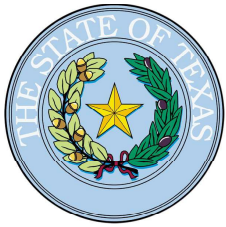
Analyte	AB	Analyte ID	Method ID
Paint Filter Liquids Test	TX	10312	10204009

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



Texas Commission on Environmental Quality

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Matrix: Solid & Chemical Materials

Method SM 2510 B

Analyte

Conductivity

AB

TX

Analyte ID

1610

Method ID

20048004

Method SM 2540 G

Analyte

Residue-total (total solids)

AB

TX

Analyte ID

1950

Method ID

20005203

Method SSA/ASA Part 3:34

Analyte

Carbon, organic (Walkley-Black)

AB

TX

Analyte ID

10340

Method ID

SSA/ASA Pt 3:34

Method TCEQ 1005

Analyte

Total Petroleum Hydrocarbons (TPH)

AB

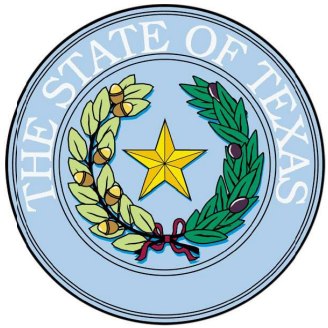
TX

Analyte ID

2050

Method ID

90019208



Texas Commission on Environmental Quality

NELAP-Recognized Laboratory Accreditation is hereby awarded to



Eurofins Xenco, LLC - Houston
4147 Greenbriar Drive
Stafford, TX 77477-3907

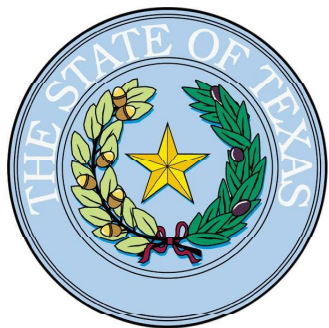
in accordance with Texas Water Code Chapter 5, Subchapter R, Title 30 Texas Administrative Code Chapter 25, and the National Environmental Laboratory Accreditation Program.

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: T104704215-21-44
Effective Date: 7/14/2021
Expiration Date: 6/30/2022

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 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.

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

Certificate Number: T104704215-22-47
Effective Date: 7/18/2022
Expiration Date: 6/30/2023

**Executive Director Texas Commission on
Environmental Quality**